#### 30 March 2021

1	Tuesday, 30 March 2021	1	In terms of clinical evidence, we have several
2	(10.00 am)	2	witness statements from Dr Elizabeth Mayne who, as you
3	SIR BRIAN LANGSTAFF: Yes.	3	know, sir, will not be giving oral evidence to the
4	MS RICHARDS: Good morning, sir. Today and tomorrow we	4	Inquiry but we have her written testimony, as well as
5	will be looking at the [Belfast] Haemophilia Centre.	5	a number of earlier reports that she produced in the
6	As with all presentations on haemophilia centres, this	6	course of the late 1980s or early 1990s and I'll be
7	isn't intended to be the last word on the Belfast	7	referring to those in some detail in the course of
8	Haemophilia Centre. Rather, the intention is to	8	today and tomorrow.
9	explain and put into the public domain what	9	We have a statement from Professor Bridges,
10	contemporaneous documents that have been received and	10	a statement from Dr McNulty and a statement from
11	examined so far by the Inquiry explain or reveal or	11	Dr Anderson, and we are also seeking statements from
12	suggest about the facilities, policies and practices	12	other clinicians, and you, sir, will decide whether to
13	at the centre.	13	hear any oral evidence from any of those clinicians
14	I'll also highlight at various stages aspects	14	once you've seen such further evidence, such further
15	of what witness testimony has told the Inquiry. You,	15	statements, as the Inquiry is able to obtain.
16	sir, will recall the very powerful oral evidence heard	16	We will be hearing on Thursday from a more
17	in Belfast from individuals who had been infected or	17	recent perspective from Dr Benson, the current
18	whose family members had been infected.	18	Haemophilia Centre Director, and you will recall in
19	SIR BRIAN LANGSTAFF: I do indeed, yes.	19	relation to the Cardiff Haemophilia Centre we heard
20	MS RICHARDS: In addition to that testimony, the Inquiry	20	from Professor Peter Collins, who was in a similar
21	has of course received a number of other statements,	21	position. Obviously, he cannot deal with the events
22	again from those infected or from their families, all	22	of earlier decades and we won't be asking him to do
23	of which have been read and considered by the Inquiry	23	so.
24	before today and I'll refer to some of the themes that	23	So that's by way of introduction. I'm going to
25	emerge from those statements.	24	start with an overview of the centre, its facilities
20		25	
	1		2
1	and staffing and patient numbers and will then turn to	1	available documentary and witness statement evidence
2	look in more detail at the products that were used and	2	suggests that that remained the number of patients
3	the treatment policies gleaned from a number of	2	known to the centre during the course of the 1960s.
4	different sources.	4	There was no there were no dedicated staff
5	The Belfast centre was established by	4 5	or in-patient facility for haemophilia care during
6	Professor Nelson in 1958. It was located, at that	6	that period and no specific physical location for the
7		7	
•	stage, within the hospital's Clinical Pathology	,	centre, according to the documents that we have.
8	Department. Soumik, if we go RHSC0000067_002, please.	8	That's in terms of adult haemophilia care. In
9	This is a report from March 1988 called "A profile of	9	terms of paediatric care, children with bleeding
10	the management of haemophilia in Northern Ireland".	10	disorders were cared for at the children's hospital,
11	I'll come back to it at various stages. It's authored	11	and Professor Bridges, who was the paediatrician in
12	by Dr Mayne and it appears it was a document addressed	12	charge there until around 1979, has estimated in his
13	to the health authorities in Northern Ireland	13	statement that there were approximately ten child
14	exploring issues about funding of haemophilia care in	14	patients with bleeding disorders prior to 1979.
15	Northern Ireland.	15	We can take that document down, thank you,
16	For present purposes, if we go to the second	16	Soumik.
17	page, we can pick up some information about numbers in	17	We know from the various documents and
18	the 1950s. Top of the page there's a table. 1958, 44	18	statements that we have that the numbers of patients
19	patients with haemophilia A and one with	19	grew during the 1970s and 1980s and the staff team
20	haemophilia B. Dr Mayne tells us, in the sentence	20	also grew so that from around the 1983 there was
21	below the table:	21	a part-time physiotherapist, a nurse, a secretary and
22	"In the 1950s no true haemostatic treatment was	22	some social work input and I'll look in a few moments
23	available. Bleeding episodes were managed with	23	at a document which has more detail of staffing in the
24	infusions of fresh frozen plasma."	24	80s.
25	That's a snapshot of the numbers in 1958. The	25	The haemophilia centre in Belfast was not
	3		4 (1) Pages 1 - 4

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#### 30 March 2021

future Reference Centre Directors Meetings. This was

Health should be asked to put Edinburgh and Glasgow as

We can take that down. So we can see the

agreement there that Belfast should become a reference

centre. One of the significant consequences of that

was that from the point at which it was recognised as

a reference centre, Dr Mayne was, as it were, eligible

to attend the Reference Centre Directors meetings and

discussed and disseminated at those meetings from the

We don't need to go to the document but the

minutes of a UKHCDO meeting from September 1981 notes

As that document recorded, there was only one

Soumik, if we could go to BHCT0000623, please.

We can see that in September 1984 Dr Mayne was writing

to Professor Temperley about a particular patient. If

we go down so we can see the text of the letter, and

attended the centre in Belfast for treatment it would

appear whilst on holiday in the north. In the second

that he has received while in the North and I suppose

the simplest method of payment would be for your

Centre to send our Centre the same amount in kind rather than involve our respective finance officers."

that concentrate from Dublin would be sent to Belfast

as a payment in kind rather than some form of

sorry, next paragraph she says:

time to time."

she says:

financial charging arrangement. Before we look --

this type of problem, as of course, it will arise from

letter you will see reference to the "Blood Club" and

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"I enclose a total of the amount of factor VIII

So it would appear that Dr Mayne contemplated

"Perhaps when we next meet we might discuss

If we just look at the last paragraph of that

in the second paragraph -- it's a patient who had

that a Dr Thornton in the Northern Ireland Office of

that the centre at the Royal Victoria Hospital had

it served patients drawn from all over Northern

Professor Temperley from Dublin.

paragraph she says this:

Ireland. There was a reciprocal arrangement with 6

the DHSS had written to Professor Bloom confirming

been designated as a haemophilia reference centre.

recognised haemophilia centre in Northern Ireland and

would thus be privy to the information that was

early 1980s onwards.

agreed. It was also agreed that the Department of

the Scottish Reference Centres and Belfast as the

Haemophilia Centres when this was reprinted."

Northern Ireland Reference Centre, in the list of UK

1	a reference centre for a number of years, and if we go
2	to HCDO0000405, please, you'll see these are the
3	minutes of a meeting of Haemophilia Reference Centre
4	Directors, 26 February 1980, and if we go to page 6,
5	under the heading "Haemophilia Reference Centres in
6	Scotland and Northern Ireland", we will see the
7	question of the status of the centre being raised:
8	"Professor Blackburn said that patients had
9	raised with him the question of Haemophilia Reference
10	Centres in Scotland and Northern Ireland. There were
11	at present no official Reference Centres in either
12	Scotland or Northern Ireland and some patients were
13	very worried about this."
14	Then there's reference to a DHSS leaflet in the
15	70s from Professor Bloom and reference to what was
16	said to have been agreed in relation to Scotland.
17	Picking it up a few lines down, we then come to
18	Northern Ireland:
19	"Northern Ireland was included in the Oxford
20	supra-region and Belfast was the only Haemophilia
21	Centre in Northern Ireland. After some discussion, it
22	was suggested that Belfast should be regarded as the
23	Reference Centre for Northern Ireland and that
24	Dr Rizza should write to Dr Mayne asking if she would
25	approve of this idea and if she would like to attend
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4	e contra in Dublin which anabled come national from
1	a centre in Dublin which enabled some patients from
2 3	the Republic of Ireland to attend Belfast for treatment if that was more convenient and Belfast
4	patients to receive treatment in southern centres when
5	in the Republic.
6	We can see that if we go to HSOC0022947.
7	You'll see this is a copy of The Haemophilia Society's
8	Bulletin. There's a publication for 1989.
9	Soumik, if we go to page 9, and if we look at
10	the heading, "The centre", so it's the second one,
11	that's it, the first paragraph:
12	"The Northern Ireland Haemophilia Centre serves
13	a population of 1.5 million. Its patients are drawn
14	from all over the province and a reciprocal
15	arrangement is operated between the Centres in Belfast
16	and Dublin. This enables a small number of families
17	from the Irish Republic to attend Belfast for
18	convenience of travel, otherwise they would need to
19	make a long and tedious journey to Dublin. In return,
20	patients from the Northern Ireland Centre who go on
21	holiday in the Republic of Ireland are treated free of
22	charge at appropriate southern Centres."
23	We can see a question that arose about how that
24	should be dealt with in financial terms from
25	an exchange of correspondence between Dr Mayne and
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(2) Pages 5 - 8

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1	" I am sorry I will not be able to be at the	
2	Blood Club later this month, as I was already	
3	committed to a haemostasis meeting in London."	
4	This appears to have been some kind of	
5	a gathering for Northern Irish and Irish clinicians to	
6	discuss matters relevant to haematology. It may have	
7	overlapped with or fulfilled a similar function to	
8	that which we've described as that which we've	
9	heard described taking place under the auspices of	
10	Professor Savidge. It may be the same, it may be	
11	something different or it may be something that	
12	performance a similar function; we've not got any	
13	further information at present.	
14	Turning to the issue raised with	
15	Professor Temperley, we can see his reply at	
16	BHCT0000622. He says in his response of	
17	10 October 1984:	
18	"I think it would be rather silly to charge	
19	each other for treatment of [haemophilia] during short	
20	visits North or South of the border. This should in	
21	the ordinary course of events balance out. On the	
22	other hand, I agree when prolonged treatment is	
23	envisaged for a citizen of the Republic in Northern	
24	Ireland we should make suitable compensation as we	
25	discussed? Perhaps you might give the question	
	9	
1	ward, Sister Mary McGuigan keeps a close eye on	
2	haemophilia inpatient problems. Both are members of	
3	the Haemophilia Nurses' Association, as are many other	
4	ward nurses, making a total of seven members at the	
5	present time."	
6	So that's nursing staff.	
7	In terms of physiotherapy staff, we learn in	
8	the next paragraph that in 1983 a part-time	
9	haemophilic physiotherapist was appointed initially,	
10	and for a further number of years she was funded by	
11	The Haemophilia Society.	
12	"Mrs Lynne Crockard has proven her worth time	
13	and time again."	
14	Then if we go to the next paragraph we find	

- 14 Then if we go to the next paragraph we find 15 details of dental care, a dentist there identified who 16 has provided consultant dental care and runs a primary 17 care clinic devoted to the management of patients with 18 bleeding disorders. 19 There's then reference to the various 20 laboratory staff, the Senior Chief MLSO, Mr Carville, 21 who is said to have been in charge of blood product 22
- provision since the late 1960s, when cryoprecipitatewas prepared locally in the department, and then
  - Dr Mayne continues: "After the transfer of its manufacture to the

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1	of short visits more thought."
2	I won't go to Dr Milne's subsequent letter but
3	she agrees there's no need to charge for short visits.
4	Whether there transpired any exchanges of concentrate
5	in kind, as it were, for longer visits, the
6	documentation doesn't tell us one way or another.
7	Soumik, can we go back to The Bulletin article,
8	so HSOC22947 sorry, HSOC0022947, my apologies.
9	If we go to page 8, we can pick up, in the same
10	article, a little more information about the staffing
11	arrangements. This is by the 1980s, late 1980s. We
12	look at the heading "Staff", we can see this is the
13	position by 1989:
14	"The permanent medical staff of the Centre
15	comprises three Consultant Haematologists: one the
16	author [that's Dr Mayne], who has overall
17	responsibility for province-wide haemophilic care,
18	aided by the Professor of Haematology, Professor
19	Bridges, and Dr Dempsey, who carries responsibility
20	for all paediatric activity in the Centre. Sister
21	Catherine Farrell is the Sister-in-Charge of the
22	outpatient facilities; she is on the committee of the
23	Haemophilia Nurses' Association and is the present
24	membership secretary of that organisation. She is
25	ably supported by Staff Nurse Colette McAfee. In the

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Northern Ireland Blood Transfusion Service, he became in some respects what might be described as 'the keeper of the privy purse'. He has never allowed the stocks of blood products to run dry and he and his staff in the hospital Blood Bank are responsible for issuing all the material for home treatment.

"They maintain computerised records of the same and indeed all treatment -- a job important and so necessary for the compilation of the annual returns for Oxford. No Haemophilia Centre can exist without accurate laboratory tests to establish the diagnosis and to maintain monitoring of the effectiveness of the treatment given and the Chief MLSO Terry Ingles, has been in charge of the Coagulation Laboratory for more than 12 years. More recently new additions to the staff have taken place."

So we see reference in the next sentence to there being a permanent secretary for the haemophilia centre and a scientist.

The next paragraph refers to the involvement of a professor of orthopaedic surgery. Then in the last paragraph, under the heading "Staff", Dr Mayne picks up on the question of social work, and says this: "In the past the Northern Ireland Haemophilia

Centre was not overwhelmed by help or interest in

30 March 2021

1	terms of input from social workers. Some came and	
2	went, some showed interest and occasionally when	
3	an excellent one was appointed, she had to leave,	
4	having gained promotion. Others declared that the	
5	problems of haemophilic patients were 'insoluble'.	
6	However, the picture during the past year has changed	
7	since the appointment of Miss Geraldine Kerr, the	
8	social worker is now closely involved and is rapidly	
9	making her mark in the Centre and amongst the	
10	patients."	
11	So that's the picture in terms of staffing	
12	by 1989. Obviously at earlier stages far fewer staff	
13	members.	
14	If we could then turn to BHCT0000503, you will	
15	see the date of the document at the bottom. It's	
16	1 August 1985. That's actually the second page of the	
17	document, so if we could go to the next page, which is	
18	where it begins, this would appear to be a document	
19	authored by Dr Mayne. Certainly in terms of its look	
20	and style, it sounds like Dr Mayne. It's headed	
21	"Northern Ireland Haemophilia Reference Centre	
22	Factor VIII usage". I'll no doubt come back to it	
23	when we look at blood product usage but for present	
24	purposes this provides an update of information about	
25	numbers of patients. The first sentence suggests that	
	13	
1	come back to what it says about products in due	
2	COURSE.	
3	We have various further figures in relation to	
4	increases in patient numbers and we can pick that up	
5	in terms of the modern picture and the picture over	
6 7	recent years from the evidence of Dr Benson on	
7 8	Thursday.	
8 9	The article in The Bulletin, I won't go back to it, but it also shows development of the physical	
9 10		
10	facilities such that by 1989 there was a day centre and an in-patient unit with 16 designated beds, and	
12	Dr Mayne's article suggests that at least a quarter of	
12	those tended to be occupied by haemophiliac patients	
13	much of the time.	
1 <del>4</del> 15	There is also reference in the documents to	
16	a joint haemophiliac and orthopaedic clinic being held	
10	every three months by March of 1988, and we've seen	
18	reference in that article to there being a regular	
10 19	dental clinic.	
20	Again, just sticking with an overview of the	
21	facilities and services at the centre, if we go to	
22	LOTH0000051_089, we'll see a short document from	
23	January 1992. It's confidential, to the Haemophilia	
24	Centre Directors of Scotland and Northern Ireland, and	
25	it's a report on clinical audit from 1991 and it sets	
	15	

Blood	Inquiry 30 March 2021
1	the centre became a designated reference centre
2	in 1976. As we've seen from UKHCDO minutes, that
3	would appear to be incorrect. But, in any event, in
4	the second paragraph we then see the number of people
5	registered in 1984/85 as suffering from inherited
6	bleeding disorders, 189 persons broken down as there
7	set out: so 124 with haemophilia A; 16, haemophilia B;
8	45, von Willebrand's disease; 2 with Factor X
9	deficiency; one with Factor XIII deficiency; and one
3 10	with Factor XI deficiency.
10	Then we see in the paragraph below that:
12	"Out of this number of patients, 63 are
12	residential and drawn from the Eastern Health Board
13	area. Some 25 of these originate from the North and
14	West Belfast District. The remaining patients are
16	equally divided between the other Health Boards 43
17	from the Northern Board, 43 from the Western Board and
18	40 under the aegis of the Southern Board."
19	She explains below that:
20	"In order to simplify the treatment of these
20	patients, all the blood products necessary for
22	treatment are held at the Reference Centre and issued
22	to other hospitals in the Province, specifically
23	designated for individual patients."
24 25	Then I'll leave that document now because I'll
20	14
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1	out the results of clinical audit visits.
2	If we look at the list of centres, Belfast was
3	audited by Dr Ludlam, and that's centre 2, and if we
4	look at the recommendations made by the auditors in
5	the list below for centre 2, what Dr Ludlam apparently
6	picked up on his audit visit to Belfast in 1991 were
7	issues about privacy of bedside and telephone
, 8	conversations, and there's a suggestion of dedicated
9	rooms and staff and a need for more social work and
10	physiotherapy input.
11	If we look a little further down the page, the
12	last section of the document says:
13	"Replies were received from patient
14	questionnaires as follows"
15	So it would appear that the audit involved
16	a patient questionnaire process. And for centre 2
17	I don't know whether "n equals 5" suggests that the
18	number of replies received were 5 and it picks up
19	upon those replies having suggested that
20	HIV counselling
21	SIR BRIAN LANGSTAFF: Not the number of replies, the
22	number of replies that dealt with the question.
23	MS RICHARDS: Ah, yes, you may be right.
24	"HIV counselling by juniors inadequate", is
25	what is picked up there.
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(4) Pages 13 - 16

30 March 2021

1	SIR BRIAN LANGSTAFF: Just before you pass from that, it
2	is interesting that while Professor Ludlam was
3	auditing Belfast, Dr Mayne appears to have been
4	auditing Glasgow.
5	MS RICHARDS: Yes.
6	SIR BRIAN LANGSTAFF: The comments critical of Glasgow
7	appear to include that it needs counselling rooms,
8	which is very similar to the criticism which
9	Professor Ludlam is making of Belfast.
10	MS RICHARDS: Yes. Yes, you are right, sir.
11	SIR BRIAN LANGSTAFF: Which is interesting.
12	MS RICHARDS: If we go to a document authored by Dr Mayne
13	which sets out a reflection on the audit, it's at
14	WITN0736010. It's described as a "1991 report of
15	activity of the Northern Ireland Regional Centre for
16	hereditary hemorrhagic disorders", and if we go to
17	page 6, we can see under the heading "Haemophilia
18	Clinical Audit", Dr Mayne says this:
19	"The haemophilia Clinical Audit was completed
20	
20	during the month of August 1991. It was carried out
	by Dr Christopher Ludlam from the Regional Haemophilia
22	Centre attached to the Edinburgh Royal Infirmary. All
23	the facilities at the Centre in Belfast were examined
24	and a signed copy of his report is attached to this
25	document. He has indicated clearly the areas which he
	17
1	always been a sad lack there was no facility for
1 2	always been a sad lack there was no facility for a peripatetic social worker. It's saying because you
2	a peripatetic social worker. It's saying because you
2 3	a peripatetic social worker. It's saying because you have got space to go to, places to go to, there's no
2 3 4	a peripatetic social worker. It's saying because you have got space to go to, places to go to, there's no facility for someone who goes to places? I don't
2 3 4 5	a peripatetic social worker. It's saying because you have got space to go to, places to go to, there's no facility for someone who goes to places? I don't understand the logic.
2 3 4 5 6	a peripatetic social worker. It's saying because you have got space to go to, places to go to, there's no facility for someone who goes to places? I don't understand the logic. MS RICHARDS: I can't cast any further light on it, sir.
2 3 4 5 6 7	<ul> <li>a peripatetic social worker. It's saying because you have got space to go to, places to go to, there's no facility for someone who goes to places? I don't understand the logic.</li> <li>MS RICHARDS: I can't cast any further light on it, sir. I see your point. That's what we have about it.</li> </ul>
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1	regarded to be significantly deficient. The most
2	important lack of facility is an area where the
3	patients can be seen in privacy and confidentiality.
4	This is particularly relevant to those patients who
5	are HIV positive. The second deficiency was the lack
6	of a dedicated Social Worker to all the Haemophilics
7	in the Province. Due to the widespread distribution
8	of patients and families within the region of Northern
9	Ireland, it has always been a sad lack that there was
10	no facility for a peripatetic Social Worker who could
11	carry out the appropriate home visits. It is hoped
12	that this will be rectified within the near future."
13	It's a report dated, if we just go a little
14	further down that page, 9 July 1992.
15	So although the article in The Bulletin in 1989
16	had expressed a degree of optimism about the provision
17	of social work, by that stage at least it would appear
18	that the position had not been satisfactorily
19	addressed by 1992.
20	SIR BRIAN LANGSTAFF: I don't quite understand the
21	reasoning there. It is obviously true of
22	Northern Ireland that there will be a widespread
23	distribution of patients and families if you have one
24	treatment centre covering the whole of Northern
25	Ireland, but because of that, it's said, there's
20	18
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1	an update of numbers, we can see it says the this
2	is the third line:
3	"The categories of patients which were seen are
4	as follows"
5	So this is not patients simply registered but
6	patients seen. Then it says "(Registered numbers
7	shown in brackets)", but there aren't brackets, so I'm
8	not quite sure what that refers to. But in any event:
9	haemophilia A, 147; haemophilia B, 14;
10	von Willebrand's disease, 61; symptomatic carriers of
11	haemophilia A, 7; and then inherited platelet
12	disorders, 24; and then reference to further clotting
13	disorders and blood disorders as set out there.
14	Sir, I think that probably is the number of
15	registered patients.
16	SIR BRIAN LANGSTAFF: If so, it's gone up by about 100
17	from 1985.
18	MS RICHARDS: No, from an earlier period I think the
19	figure oh, no, you might be right, sir. Yes, there
20	were 189 in total
21	SIR BRIAN LANGSTAFF: That was
22	MS RICHARDS: in 1985.
23	SIR BRIAN LANGSTAFF: And this is '92. So seven years.
24	MS RICHARDS: Yes.
25	In the early 2000s, 2001/2002, haematology

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(5) Pages 17 - 20

1	services at the Royal Victoria Hospital were
2	amalgamated with the City Hospital and the centre
3	moved from the Royal Victoria Hospital to the Belfast
4	City Hospital. The arrangements for the move and
5	a comparison between the available facilities is set
6	out in some detail in the statement of Dr Julia
7	Anderson, and Dr Benson may also be able to provide
8	some information about the current arrangements in his
9	evidence on Thursday.
10	That's adult care. In terms of when children
11	transferred from paediatric care to adult care, if we
12	look at Dr Mayne's evidence, it's WITN0736006. This
13	is a statement of hers from February 2020. If we go
14	to page 5, paragraph 22, and we look at the last
15	sentence, she says:
16	" the transfer age to adult care at the
17	Royal Victoria Hospital was 13 years of age"
18	Professor Bridges' statement is at WITN4569001,
19	and if we go to the third page, he gives an age of
20	around 14 but says there were no hard and fast rules.
21	So he says:
22	"At the Children's Hospital [so that's the
23	Royal Belfast Hospital for Sick Children], I was
24	responsible for the care of patients with haemophilia
25	and related disorders as well as children with
	21

Royal Victoria Hospital from 1968 to 1972. She completed her MRCPath in 1970, became a consultant haematologist in 1972, and she remained at the Royal Victoria Hospital Belfast throughout her career until she retired in 1999.

She was the director of the centre, taking over from Professor Nelson, from 1978 until her retirement in 1999. Dr Mayne was also a member of a number of different committees and organisations. She was chair of UKHCDO in the early 1990s. She was a trustee of the Macfarlane Trust and the Eileen Trust for a period of time in the 1990s. She was at some stage vice president of the World Federation of Haemophilia and I think also in the early 1990s she participated on the Committee on Safety of Medicines.

16	We have six witness statements from Dr Mayne.
17	Five are statements responding to a range of
18	individual witness statements from patients or former
19	patients and their families. Her sixth and most
20	recent statement is a long statement in response to
21	the broader general questions posed of her by the
22	Inquiry. We also have, as you have seen already, some
23	various miscellaneous documents authored by her and
24	then a lengthier expert report that she produced in
25	1990 for the HIV litigation, presumably at the request

1	leukaemia and other blood disorders. Children with
2	haemophilia would have been looked after in the
3	Children's Hospital up to the age of around 14 before
4	transferring to the adult hospital (Royal Victoria
5	Hospital), although there were no hard or fast rules
6	and no formal process for transferring to the adult
7	haemophilia service."
8	He does indicate and I'll come back to this
9	part of the statement in a little while. He does
10	indicate that there might have been children who were
11	transferred at a younger age to the care of Dr Mayne
12	if he thought that they might need to be treated with
13	factor concentrates because he used only
14	cryoprecipitate and anyone who needed treatment with
15	factor concentrates would be dealt with by Dr Mayne.
16	Again, Dr Benson will be able to tell us what the
17	current position is in terms of the transition from
18	paediatric to adult services.
19	We can take that down, thank you.
20	Just dealing a little more with the various
21	doctor names that we see crop up from time to time in
22	the material, or in the case of Dr Mayne we see crop
23	up frequently in the material.
24	Dr Elizabeth Mayne trained in Belfast. She
25	worked as a senior registrar in haematology at the
	22

of the Department of Health.

In terms of other clinicians, I've made reference already to Professor Bridges. He was a consultant clinical pathologist at the Royal group of hospitals in Belfast and based at the Royal Belfast Hospital for Sick Children and, as we've seen, responsible for paediatric care for those patients with bleeding disorders who were children until 1979. In 1979 he was appointed chair of haematology at Queen's University Belfast, and his statement indicates he spent 50 per cent of his time thereafter in clinical practice, and worked at the adult hospital primarily in leukemia and general blood disorders and his only involvement with adult haemophilia care, he says, thereafter was to provide cover for Dr Mayne. His role at the Children's Hospital was taken on by Dr Dempsey, and Professor Bridges then retired in 1994. There's also Dr El-Agnaf, who worked as a registrar in haematology at the Royal Victoria Hospital for a period of a little -- just under a year, August '82 to July '83, and then worked at the City Hospital. He worked in the Blood Transfusion Service for a period of time and then again at the Royal Victoria Hospital, and in January 1988 became an 

(6) Pages 21 - 24

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1	acting consultant haematologist at the Belfast City	
2	Hospital. Again, however, his role appears to have	
3	been predominantly in relation to more general	
4	haematology.	
5	Dr McNulty worked in the haemophilia centre	
6	from 1992. She was a staff grade doctor from 2000 and	
7	an associate specialist from 2008.	
8	Dr Frank Jones was the acting director of the	
9	haemophilia centre upon Dr Mayne's retirement, and he	
10	was acting director from 1999 to 2001. In 2001 or	
11	thereabouts Dr Julia Anderson became full-time	
12	haemophilia consultant and director at the centre.	
13	She was there until around 2005, and then Dr Jones	
14	seems to have taken up the mantle of acting director	
15	again until Dr Benson's employment.	
16	There was also a brief interlude in which there	
17	was a Dr O'Keeffe as consultant in 2006.	
18	I'm going to turn now, having given that	
19	overview of the centre facilities and staffing, to the	
20	use of blood products. We've seen a passing reference	
21	to the position in the 50s, treatment with fresh	
22	frozen plasma. Prior to the advent of factor	
23	concentrates, it's clear that the product of choice	
24	was cryoprecipitate. I want to look at what both	
25	Professor Bridges and Dr Mayne say about	
	25	
1	Dr Mayne."	
2	If we go over the page, if we look at the very	
3	bottom of the page you'll see a heading "Selection,	
4	purchase and use of blood products (in particular	
5	factor concentrates)" and, we go to the top of the	
6	next page, he says at the top of that page:	
7	"When I was at the Children's Hospital,	
8	concentrates were not used. We used cryoprecipitate	
9	which, to the best of my knowledge, was supplied by	
10	the Northern Ireland Blood Transfusion Service."	
11	Then he refers to the position at the Royal	
12	Victoria Hospital where he spent some of his time	
13	after 1979 but essentially says he was not involved in	
14	decision-making about what products to use, either	
15	generally or in relation to individual patients.	

1	cryoprecipitate.
2	So we'll start with Dr Bridges and go back to
3	his statement at WITN4569001. If we go to page 5
4	sorry, page 3, my apologies. So under the heading
5	"Roles and responsibilities at the Children's
6	Hospital", we have looked at the first paragraph
7	already in terms of age of transfer. In the second
8	paragraph he says this:
9	"During my time at the Children's Hospital, the
10	main treatment for children with haemophilia was
11	cryoprecipitate. There was no register of patients as
12	far as I can remember. I do not recall having any
13	child patients who would have been under the ages of
14	5-7 approximately although I cannot be certain.
15	Cryoprecipitate became available around the mid-1960s.
16	This was a major development in the treatment of
17	haemophilia. Prior to the introduction of
18	cryoprecipitate, treatment would have been limited to
19	measures such as bed rest and pain relief and so on."
20	Then in the next paragraph he says:
21	"Because my clinical experience of treating
22	haemophilia patients involved mainly treatment with
23	cryoprecipitate, a child who I considered might
24	require treatment with factor concentrates, would have
25	been referred to the adult hospital to be seen by
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wasn't involved in deciding on the use of concentrates as opposed to cryoprecipitate or in formulating policy regarding home treatment.

So that tells us comparatively little other than cryoprecipitate was the product of choice at the Children's Hospital throughout the 1970s. In terms of Dr Mayne's perspective on cryoprecipitate, if we go first to RHSC0000067\_002. We looked at this a few minutes ago. This is her March 1988 report. I want to pick up, first of all, what she says in the first paragraph. She refers in the second line to the Birch paper about life expectancy of a severe haemophiliac in the 1930s and 28

concentrates were not available. We used

Then he comments:

cryoprecipitate -- there was nothing else so the

question of advantages or disadvantages did not

top of the page he says:

arise."

If we go to the next page, we can see at the

"Although I did not use concentrates, I know

they were much more effective. They were also much

"When I was at the Children's Hospital

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(7) Pages 25 - 28

30 March 2021

	I	ne mected blood inqui	ry 50 March 2021
1	then says this:	1	Royal Victoria Hospital. Then the process was scaled
2	"New treatment in the late 1960s [which can	2	up and taken over by the Blood Transfusion Service.
3	only have been cryoprecipitate not concentrates] and	3	No donor screening programme existed for the detection
4	the innovation of a Home Care Programme in the	4	of viral hepatitis and many recipients developed
5	early 1970s"	5	clinical or subclinical hepatitis B. Nonetheless, the
6	Pausing there, the evidence in relation to	6	patients were ecstatic about the new treatment.
7	Belfast is that home treatment was introduced either	7	A simple dental extraction was normalised and no
8	in 1974 or 1976 but certainly the mid rather than	8	longer constituted a major ordeal necessitating many
9	early 70s:	9	weeks in hospital."
10	" increased the life expectancy to 71 years	10	Then if we go to the next page, she says:
11	in 1977."	11	"During 1971 cryoprecipitate was replaced
12	She doesn't say where she gets that figure from	12	gradually by commercially produced
13	but if that's the life expectancy by 1977, logically	13	freeze-dried/lyophilised factor VIII."
14	it would seem that must in large measure at least be	14	We'll look at the returns which show in fact
15	due either to cryoprecipitate and not solely	15	some continuing usage for cryoprecipitate:
16	attributable to factor concentrates because the	16	"It had a higher purity and a predictable
17	evidence suggests that cryoprecipitate remained in	17	potency. It became the routine treatment for severely
18	active use for much of the 1970s.	18	affected patients, cryoprecipitate being reserved for
19	If we then go over the page, pick it up under	19	mildly affected patients and those suffering from
20	the heading "Treatment", Dr Mayne says this:	20	von Willebrand's disease. Thereafter, from 1974 [so
21	"In 1967 a milestone occurred; a revolutionary	21	that's the date given here for the commencement of
22	concentrate was produced called 'cryoprecipitate'. It	22	home treatment], the patients were encouraged to learn
23	was prepared from single plasma donation according to	23	to treat themselves. This was to reduce or eliminate
24	the methodology discovered by Poole, 1965. It was	24	the endless hospital admissions"
25	prepared initially in the Haematology Laboratory,	25	Then if we go down a couple of lines she says:
	29		30
4	MARIE :	4	in the second
1	"Within ten years from commencement, all		availability as cryoprecipitate transformed
2	patients with adequate vein access and who had passed		Haemophilia treatment. It did not achieve
3	successfully the 3-month teaching programme, were		MacFarlane's goal but the crippling childhood
4	placed on home treatment. The benefits accrued from		deformities, the pain, the constant fear of death from
5	this were as follows"		trivial injury and the further fear of bleeding
6	Then she sets them out, in particular hospital		following dental extractions or emergency surgery
7	admissions becoming a rarity and improved ability to	7	receded.
8	attend school regularly and maintain further	8	"Cryoprecipitate was and is prepared by the
9	education.		simple methodology of rapidly freezing donor plasma,
10	SIR BRIAN LANGSTAFF: So when it says "within ten years		followed by slow thawing. Its Factor VIII content is
11	from commencement", it means by about 1984?		variable as donor plasma levels have a wide range of
12	MS RICHARDS: Yes, I think that's what this document is		normal within the population"
13	suggesting, yes. That's her March 1988 report produced I think,	13	She sets out the range and sets out what, on average, a single donation of plasma will produce, on
14 15	as I say for the purposes of trying to secure further		
15 16			average between 70 and 100 units of Factor VIII.
16 17	funding.	16 17	If we just go down a few lines so we can see the rest of the page, picking it up with the sentence:
	If we then go to CBLA0000072_024, this is	18	
18 10	Dr Mayne's expert witness report regarding		"In time, experience using cryoprecipitate
19 20	HIV litigation dated May 1990. If we turn to page 6,		established that many donations were needed for the
20 21	we can pick up, about four lines down, Dr Mayne's observations on cryoprecipitate. She says this:		treatment of severely affected adult patients. The quantity required led to infusions, large in volume
21	"Earlier, in 1954, Professor Gwyn MacFarlane		and high in protein content."
22	had defined the goal of treatment of a Haemophiliac	22 23	Then if we go oh, she says at bottom of the
23 24	with Factor VIII as 'continuation replacement as in	23	page, it also contains the Factor VIII requirements
24 25	the treatment of diabetics with insulin'. Factor VIII		for treating the bleeding of von Willebrand's
20		20	

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(8) Pages 29 - 32

referred to them in our note on the centre -- I'm not going to go to them now but the references are in paragraph 30 of the note -- which show cryoprecipitate being used in individual cases in the course of 1974.

and we go to WITN0736009, this is her most recent

If we go to page 6, first of all, Soumik. I'm just going to pick up references to cryoprecipitate here, so paragraph 5.3, second

"The late 1960s was a special time for

"My fellow registrar, Dr Brian Otridge, initially, was responsible for preparing 'in house' cryo within the hospital Blood Bank. He took up a consultant post in Dublin in 1968. I took over his mantle until the preparation of cryo was transferred to the Northern Ireland Blood Transfusion Service ...

So cryoprecipitate initially produced in-house

So this is still dealing with children. In the

"In addition to the two severely affected paediatric patients already on home treatment, it was decided that patients with brain injuries or those who required major surgery should have definitive amounts

concentrates were never used in those circumstances

So as is apparent from elsewhere in her statements, there were two child patients on home treatment with factor concentrates. The remainder of children, because no other exceptional circumstances

Under the heading below, "Why cryoprecipitate

of Factor VIII concentrate to guarantee the achievement of 100 per cent VIII C levels. Fortunately, the situation never arose and

arise, remained on cryoprecipitate.

36

before being taken over by the Transfusion Service. We don't, I think, have a date for when the

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children should remain on treatment with cryoprecipitate. This was early in the 1970s and Dr John Bridges, the paediatric haematologist, was happy with the decision. Later in 1982 his newly appointed successor, Dr ... Dempsey, was even more enthusiastic about using cryo in this way than myself. However, we agreed an exception should be made in respect of a very limited category of patient."

next paragraph she says this:

during my time."

Haemophilia. Cryoprecipitate, the first really effective treatment had been discovered by Pool and

for production on a larger scale."

statement, 4 February 2021.

paragraph on the page:

Shannon in 1965.

If we then look at Dr Mayne's witness statement

1	syndrome. Go to the top of the next page. She then	1
2	sets out reactions to treatment:	2
3	"Reactions to treatment occurred, probably	3
4	related to the extraneous protein present. The	4
5	adverse reactions included the development of skin	5
6	rashes, minor chills, fevers and, on occasions, more	6
7	severe anaphylactoid responses occurred associated	7
8	with difficulty in breathing and a lowering of the	8
9	blood pressure. Reactions also occurred when small	9
10	volumes were infused but in general the mildly	10
11	affected, the children and patients with the	11
12	von Willebrand syndrome were treated with less	12
13	complication. A major disadvantage was the	13
14	unpredictability of infused dosage. Efficacy was	14
15	assessed clinically and retrospectively in regard to	15
16	achievement of Factor VIII level in the patient.	16
17	Maintenance of the sterility of each donor pack	17
18	precluded estimates prior to infusion. A further	18
19	disadvantage was the necessity of storage of the	19
20	product within a deep freeze unit."	20
21	So those are what are said to be disadvantages	21
22	of cryoprecipitate:	22
23	"Advantages were efficacy, low donor exposure	23
24	[safety] and simplicity of manufacture."	24
25	There are pieces of correspondence, we've	25
	33	
1	preparation of cryoprecipitate was transferred to the	1
2	Transfusion Service, but elsewhere in her statements	2
3	and documents, Dr Mayne makes plain there was never	3
4	a difficulty in terms of obtaining sufficient	4
5	quantities of cryoprecipitate from the Transfusion	5
6	Service.	6
7	Then if we go to page 11, I think, we can see	7
8	at paragraph 10.1 she essentially confirms	8
9	Professor Bridges' evidence. She says:	9
10	"In the 1970s apart from myself no other	10
11	individual was concerned with the selection and	11
12	purchase of Factor Concentrate. Cryoprecipitate	12
13	remained the treatment of choice for children. The	13
14	then Paediatric Haematologist [so no doubt Professor	14
15	Bridges], rightly, declined involvement in discussing	15
16	the selection of products for adults."	16
17	Then if we go to page 15 we'll obviously	17
18	come back to what she says about factor	18
19	concentrates she talks about cryoprecipitate	19
20	further in her statement as follows. She says this:	20
21	"When planning for home treatment with	21
22	concentrates, I was anxious and apprehensive about	22
23	repeatedly injecting patients with any material,	23
24	particularly over periods of weeks and months via the	24
25	intravenous route. Therefore, I decided that all	25
	35	

(9) Pages 33 - 36

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1	for Children?" she says this:
2	"Due to their diminutive size, children did not
3	require large doses of cryoprecipitate to be
4	effective. This reduced the likelihood of allergic
5	reactions which were common in adult patients who did
6	require larger doses. There are a number of problems
7	associated with using cryoprecipitate in large doses."
8	Then she sets out her perception of
9	disadvantages of cryoprecipitate:
10	"Firstly, the inability to make reliable dose
11	calculations. This was a very significant problem.
12	Factor VIII C clotting activity has a wide
13	physiological variation. It can increase (along with
14	other clotting factors) four-fold during the third
15	trimester of pregnancy. Likewise, it is raised taking
16	the oral contraceptive pill. It is also increased at
17	ovulation, the point mid-cycle of the menstrual
18	period. This is probably designed, physiologically,
19	to aid ovulation. Thereafter the level falls again
20	prior to the onset of menstrual bleeding. Exercise,
21	particularly circuit running, is also associated with
22	doubling or trebling the Factor VIII clotting activity
23	on a temporary basis. It is likely due to increased
24	blood flow through the spleen Thus there is wide
25	variation in the VIII C activity from batch to batch
	37
1	Then her fifth identified disadvantage is:
I	Then her fifth identified disadvantage is:

1	Then her fifth identified disadvantage is:
2	" like all untreated blood products it
3	carries the risk of viral infection."
4	I should say that the question that was posed
5	to her was a question to identify the advantages and
6	disadvantages of alternative treatment. She set out
7	there, in relation to cryoprecipitate, disadvantages,
8	but not added anything in relation to what might be
9	thought to have been some of the advantages of
10	cryoprecipitate.
11	So that's Professor Bridges and Dr Mayne on the
12	use of cryoprecipitate.
13	I turn next then to the evidence about the use
14	of factor concentrates. If we go to BHCT0000784, this
15	is a document about an individual case. It's dated
16	12 February 1970. If we go down, we can see it's from
17	Dr Mayne to a Dr Wallace, and picking it up in the
18	second line, it says:
19	"In view of the importance of this knee joint
20	to [the patient's] everyday life and well being, and
21	in consideration of the fact that he had received no
22	cryoprecipitate for at least one year, we decided to
23	treat him with Factor VIII concentrate on this
24	occasion."
25	I raise that because it's the first documented

of cryoprecipitate, dependent on the status of the donor."

So that's Dr Mayne's explanation about the reasons why there might be variations in the amount of Factor VIII activity in individual batches of cryoprecipitate. Her second identified disadvantage is a purity issue, there's a purity issue due to the presence of incidental material, and she explains that during the time she was involved in the preparation of cryo, technicians noticing packs which had an odd colour and suggests that those might be changes due to the oral contraceptive pill or donors using self-tanning sprays and lotions. She then says: "Thirdly, allergic reactions occurred in some patients. Reactions were mild - such as an itchy rash, but others were more alarming clinically with temperature rises and rigors often lasting several hours. "Fourthly, its preparation for use and its administration are relatively time consuming inconvenient. A fridge freezer is necessary for safe storage. Generally patients prefer other forms of treatment."

1	usage of Factor VIII concentrates that we found,
2	
	February 1970. It's right to note that other
3	documents suggest that the caution in relation to this
4	particular patient about using cryoprecipitate is
5	because of previous reactions to cryoprecipitate and
6	concerns about inhibitor development rather than any
7	concerns specific rather than any issue relating to
8	factor concentrates.
9	So that's what we've seen as the first
10	documented use of factor concentrates. I think
11	elsewhere in the material, Dr Mayne, in her statement,
12	suggests that the first usage was in November 1971,
13	but she may well have, understandably, forgotten this
14	particular incident.
15	SIR BRIAN LANGSTAFF: She may also have been referring in
16	the latter to commercial concentrate
17	MS RICHARDS: She may.
18	SIR BRIAN LANGSTAFF: imported then it would have
19	had been on a named patient basis.
20	MS RICHARDS: Yes.
21	SIR BRIAN LANGSTAFF: And there's no suggestion in that
22	letter that this patient had it on a named patient
23	basis. So presumably it must have been some of the
24	BPL product, such as it was at the time.
25	MS RICHARDS: Yes.
	40 (10) Pages 37 - 40
	()

1	SIR BRIAN LANGSTAFF: Lister product, I should say.
2	MS RICHARDS: Yes. I don't think we I'm just looking
3	at an earlier letter we have about this particular
4	patient but I don't think it tells us anything in
5	terms of what the source of the concentrate would be,
6	but that would seem to be right, sir, given the date.
7	So that's the earliest usage we've identified
8	from the documents in terms of factor concentrates.
9	If we go back to Dr Mayne's witness statement
10	WITN0736009, and if we go to page sorry, yes,
11	WITN0736009. Go to page 11.
12	We can pick up in paragraph 10.2 Dr Mayne's
13	recollection in her recent witness statements of the
14 45	first use of concentrate. She says:
15 16	"The first use of concentrate in Belfast was in
16 17	November 1971. A haemophilic was admitted with severe
17 18	intestinal bleeding. Copious amounts of 'cryo' were
10 19	ineffective. It was impossible to stop the bleeding.
20	He had developed a High Responding Inhibitor. It
20	negated the effect of his treatment." Then she refers to having, earlier that month,
22	spent some time in the United States doing research at
23	Brown University, and then in Boston having seen the
24	new Factor VIII concentrate being used most
25	effectively. She says she was impressed and brought
20	41
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1	top of the next page, we can see that beneath
2	Dr Maycock's name we see Dr Mayne was there
3	representing Professor Nelson of Belfast Haemophilia
4	Centre.
5	Then if we go to page 6, we just see
6	a contribution by Dr Mayne to a discussion about
7	under the heading a broader heading of "The present
8	and future supply of Factor VIII". Under the
9	subheading, "How much material was likely to be
10	needed?", we see recorded this:
11	"Dr E Mayne gave statistics for Belfast and
12	said that they use material prepared from
13	approximately 10,000 donors for the management of
14	their patients. They keep a stock of commercial
15	concentrate which they find invaluable in the present
16	troubled times."
17	What the "troubled times" specifically referred
18	to is not clear but there's information about both
19	keeping a stock of commercial concentrate and
20	pool sizes as at 1974.
21	SIR BRIAN LANGSTAFF: Yes, the pool size, it doesn't say
22	whether it's NHS or commercial but, given the scale of
23	that, that looks very much like commercial.
24	MS RICHARDS: It does.

25 SIR BRIAN LANGSTAFF:	That was her understanding at the
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1	this information home:
2	"Thus, my senior colleague Dr John Bridges
3	recalling this information suggested that I speak to
4	my colleagues in the USA to see if any of the new
5	concentrate could be procured for this young man
6	I duly made contact. I arranged for a consignment of
7	'Hemofil' (manufactured by Travenol Laboratories Ltd)
8	to be sent to Belfast. Coincidentally on that very
9	[same] day Prof Isley Ingram from St Thomas's in
10	London had an identical problem. The company agreed
11	to double the consignment to the UK. The product
12	arrived in Belfast that evening. After treatment, the
13	bleeding stopped and the patient remained well until
14	discharge."
15	Then she says this:
16	"Thereafter, Hemofil was the only commercial
17	concentrate in use in Belfast for the next three
18	years."
19	I will look at some more documents about
20	Hemofil and other products in a moment but if we turn,
21	before we do that, to CBLA0000187, these are the
22	minutes of what's described as a "Joint meeting of
23	Directors of Haemophilia Centres and Blood Transfusion
24	Directors", held at the Regional Blood Transfusion
25	Centre in Sheffield, 31 January 1974. If we go to the
	42

time? 1 2 MS RICHARDS: Yes, precisely. 3 Now, that's the evidence we have about the 4 introduction and early use of factor concentrates. In 5 terms of which particular concentrates were used over 6 the following years I'm going to look, first of all, 7 at Dr Mayne's statements and reports and then look at 8 the contemporaneous documents. 9 So if we start with one of her witness 10 statements, it's WITN0736006. This is her statement 11 of 21 February 2020. And if we go to the second page 12 and we pick up in paragraph 5, the bottom half of the 13 page, I'm going to pick it up in the second line: "The Northern Ireland Blood Transfusion Service 14 15 ... did not have the capability to manufacture 16 concentrate. It provided local volunteer derived, 17 single donation cryoprecipitate. Therefore, in the 18 mid-1970s when initiated a Home Treatment Programme 19 (HT) for severely affected patients commercial Factor 20 Concentrate had to be used. The following policy for 21 the [Northern Ireland] Haemophilia Centre was drawn up 22 by myself is as follows: 23 "i) All HT [so home treatment] patients would 24 be treated with only one product: KRYOBULIN Immuno 25 Limited Vienna

(11) Pages 41 - 44

1	"ii) All non HT patients would be treated with	1	it wa
2	HEMOFIL Travenol Laboratories USA	2	the s
3	"iii) All children would continue to be treated	3	seco
4	with cryoprecipitate. There were 2 exceptions; namely	4	rece
5	2 severely affected children who were entered into the	5	Hem
6	HT [so home treatment] group."	6	year
7	There's then an observation that no child	7	
8	became HIV positive in Northern Ireland, and I'll come	8	was
9	back to that when we look at the scale of the	9	
10	infections.	10	Imm
11	At paragraph 6:	11	
12	"At the time there was little scientific basis	12	Trav
13	for the preceding policy, merely my innate	13	
14	apprehension about injecting material repeatedly, and	14	the l
15	at frequent intervals by the intravenous route, into	15	
16	young patients.	16	[hon
17	"At the time, I used what I considered to be	17	the p
18	the best and safest product for those patients who	18	wide
19	logically would need/use the most Factor, namely the	19	plus
20	[home treatment] group. I selected KRYOBULIN because	20	unat
21	I found the Company business-like, straightforward and	21	The
22	their packaging was ideal."	22	obta
23	None of those factors would go to safety. She	23	
24	then says, however:	24	beca
25	"Incidentally [which might tend to suggest that	25	Elstr
	45		
1	In fact, there's evidence of supplies being	1	MS RICH
2	received from SNBTS pre-heat treatment, which I'll	2	right
3	come back to:	3	
4	"No supplies were received from the Republic	4	WIT
5	of Ireland."	5	beer
6	So that's that witness statement. If we then	6	choi
7	go to	7	onor
8	SIR BRIAN LANGSTAFF: Just pausing there, she makes	8	
9	a comment there about Kryobulin and the source of the	9	
10	plasma. We know from other sources that in the late	10	Trea
11	1970s Immuno were offering Kryobulin manufactured from	10	1100
12	two different plasma sources: one USA plasma, the	12	
13	other from European plasma. And the difference being	13	out t
14	that the European plasma cost more, the implication	18	patie
15	being that it was less likely to be infected with the	15	prep
16	hepatitis virus. So it would be interesting to know	16	were
17	what particular period of time Dr Mayne is talking	10	rig
18	about. She doesn't say, does she?	18	amu
19	MS RICHARDS: She doesn't, no.	10	busi
20		20	busi
20 21	SIR BRIAN LANGSTAFF: It's a very broad overview, written looking back.	20 21	a fao
21	MS RICHARDS: It is. We do have a number of the annual	21	term
22	returns, not all of them, but they do help build up	22	lenn
23 24	a picture and I will come on to those.	23 24	
24 25		24 25	brev
20	SIR BRIAN LANGSTAFF: Thank you.	20	prev

years, from 1971.
"In summary the products used within the Centre
was as follows:
"a. HT [so home treatment] Group KRYOBULIN
Immuno
"b. Non [home treatment] Group Hemofil
Travenol Ltd USA
"c. Children Cryoprecipitate [manufactured by
the Northern Ireland Blood Transfusion Service]
"However, demand exceeded supply within the
[home treatment] group. The patients found that using
the prophylaxis resulted in a normal lifestyle. UK
wide knowledge of good results in [Northern Ireland],
plus increased demands, resulted in Immuno being
unable to fulfil [Northern Ireland] orders.
Therefore, a further supply of Factor VIII was
obtained from Armour Pharmaceutical Limited USA.
"In later years when heat treated product
became available supplies were received from SNBTS and
Elstree."
46
RICHARDS: But Dr Mayne does not address that; you're

it wasn't a primary motivating factor in her mind], the source of their donors was within Europe. The second product for the non HT patients [so patients receiving treatment in hospital, essentially] was Hemofil, with which I had been familiar for several

	But	Dr	Ma	iyne	do	es	not	1
e t	hen	go	to	her	mo	st	rec	e

right.

ngne.
If we then go to her most recent statement at
WITN0736009 and we go to page 12, we can see she's
been asked what were the reasons that led to the
choice of one product over another. She says:
"Kryobulin was chosen"
So this is the top of the page:
" as the most suitable product for Home
Treatment patients for a variety of reasons."
Then she gives reasons in the next paragraph:
"Firstly, the packaging had been well thought
out by the company. It was eminently suitable for all
patients requirements to enable an injection to be
prepared and administered with ease. All components
were available and presented with clear instructions
right down to the Mister Men plasters! The latter
amused the adults. The company personnel were
business-like and efficient."
So no reference there to donor source as
a factor for the choice or any different perception in
terms of safety.

And then she says in the next paragraph: "The only concentrate in use in the Centre previously was Hemofil. That company had no Home

48

30 March 2021

1	Treatment package and did not wish to increase
2	their commitment to Northern Ireland.
3	"Therefore, the Centre's treatment policy was
4	as follows:
5	"Cryoprecipitate for children
6	"Hemofil for all non HT patients
7	"Kryobulin for all HT patients
8	"thereby attempting to minimise donor exposure
9	in each group. There was no cross-over of usage
10	between groups. This is a most relevant point."
11	So in addition to telling us which products
12	were used, it would appear from this that part of
13	Dr Mayne's policy was to keep patients on one product.
14	The extent to which that was successful or not is
15	unclear, because certainly annual return information
16	suggests that there were a number of patients who
17	received a range of different products, and we'll look
18	at that in due course.
19	But that's what she says the policy was. And
20	then she continues in paragraph 10.8:
21	"Furthermore, the number of companies that
22	would need to be dealt with was also minimised, just
23	in case of any mishap or complication that might
24	occur. Always I had concerns regarding the repeated
25	injections of IV material in relation to the risk of
	49
1	an error and it's not consistent with what she says
2	elsewhere], a third product had to be introduced due
3 4	to increased demands for Kryobulin creating a significant shortage. Armour Pharmaceuticals made
4 5	a successful tender and became the provider of the
6	third product."
7	SIR BRIAN LANGSTAFF: If only one company was being used
8	for home treatment, then I don't understand the logic
9	of her comment in 10.9, "became necessary to meet
10	frequently with both companies to plan and adjust
11	standing orders" when the reason for the increase has
12	been home treatment demand.
13	MS RICHARDS: Yes.
14	SIR BRIAN LANGSTAFF: Yes.
15	MS RICHARDS: I can't offer an explanation, sir. You are
16	right to identify. It doesn't entirely add up in
17	terms of reasoning. As I say, the date of late 1980s
18	I'm fairly confident isn't correct in terms of needing
19	to resort to Armour.
20	Sir, before we break, just one other document
21	on this theme. There are quite a lot of important
22	documents to look at. This is RHSC0000067_002. So
23	this is the same March 1988 report that we've looked
24	at already on two occasions. If we go to page 5
25	sorry, page 4 bottom of the page, she looks at HIV,
	-

1 as yet unknown viruses being transmitted." 2 She then, if we just look further down --3 SIR BRIAN LANGSTAFF: Just pausing there, just a few 4 moments ago you were showing me a document which said 5 there was no scientific basis for the regime which she 6 adopted. She's now setting one out. 7 MS RICHARDS: Yes. 8 SIR BRIAN LANGSTAFF: Yes. 9 MS RICHARDS: We then see, paragraph 10.9, she says: 10 "It was difficult in the early days to estimate 11 the quantities of concentrate required, particularly 12 for home treatment patients. I came to the conclusion 13 that these patients would require amounts double or 14 even treble after their first year of treatment. It 15 seemed likely that patients would change from using 16 treatment to stop a bleed when it occurred to taking 17 treatment to prevent a bleed occurring. Each patient 18 would develop a particular pattern of prophylaxis to 19 suit his lifestyle. This scenario did occur. The 20 expected increase in demand for concentrate developed. 21 Therefore, it became necessary to meet frequently with 22 the both companies to plan and adjust standing orders 23 to obtain discounts for the increased quantities in 24 use and to ensure continuity of availability. 25 "During the late 1980s [and that, I think, is 50 1 numbers of those infected. I'm going to come on to 2 that this afternoon or tomorrow but I just want to 3 pick up what she says about policy, last four lines on 4 this page: 5 "The figures may be explained on the basis of 6 the transfusion policy operated in the Haemophilia 7 Centre since home treatment began in 1974. A single 8 commercial product was used for all home treatment 9 patients and a second product was used for the rest. 10 Thus, patients were exposed to a regular and 11 restricted number of donors. It is probable that 12 exposure to many different commercial products 13 resulted in the higher positivity rates in other 14 centres." 15 Actually I will just read the whole paragraph, 16 I think: 17 "Despite using the same quantity of Factor VIII

"Despite using the same quantity of Factor VIII per patient per year, the Northern Ireland positivity percentage is equivalent to that in Edinburgh, which only used local material from the Blood Transfusion Service and at no time used commercial concentrates from whatever source. In addition, all the severely affected patients in Northern Ireland were placed on product A for both home treatment and inpatients." Pausing there, that doesn't appear to be right

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1	when we look at the data submitted to Oxford:	1	to product usage and treatment policies.
2	"It so happened that this product was of	2	If we could go next to WITN2658002, and if we
3	European origin which became contaminated at a later	3	go to the second page you'll see this is a document
4	date compared with American products. It is likely	4	authored by Dr Mayne called "A synopsis of haemophilia
5	that this caused the smaller number of positivities in	5	re: Mr Malachy Devlin". You will recall, sir, we
6	the Province"	6	looked at this in some detail during the Belfast
7	Then that is said to be hopefully a saving for	7	hearings when we had evidence about Mr Devlin from his
8	the future:	8	family.
9	" as there will be fewer patients [who]	9	For today's purposes, I'm going to see what the
10	develop the full-blown acquired immunodeficiency	10	report says more widely about treatment policies, and
11	syndrome."	11	so if we could go to page 14, please, under the
12	So that was her evidence in 1988 I say	12	heading just over halfway down the page, "Choice of
13	"evidence", her report in 1988 about the treatment	13	material for usage in NIHC", so Northern Ireland
14	policy.	14	Haemophilia Centre. "Policy was adopted in 1977",
15	I'm going to come on to various other	15	this says, which doesn't quite accord with what we've
16	documents, in particular contemporaneous documents,	16	seen elsewhere:
17	but perhaps we could do that, sir, after the break.	17	"It concerned the usage of commercial
18	SIR BRIAN LANGSTAFF: Thank you.	18	factor VIII material. As far as was practical, 'one
19	We'll take a break then until well quarter	19	brand' was used for the home treatment patients and
20	to 12.	20	a second brand for those unsuitable for home
21	MS RICHARDS: Thank you, sir.	21	treatment. Depending upon availability and the
22	(11.16 am)	22	patient's clinical situation, the policy would be
23	(A short break)	23	maintained."
24	(11.44 am)	24	Just pausing there, you will see the other
25	MS RICHARDS: Sir, we were looking at documents relating	25	documents we have looked at tended to suggest this was
	53		54
1	a rigidly adhered to policy. This suggests that it	1	personal one of the Director who felt that it might be
2	may not have always been possible to adhere to it, and	2	prudent to restrict heavy users to only one product.
3	that's borne out by what we will look at in a few	3	It was not possible to place all the haemophilic
4	minutes in terms of the annual returns.	4	patients on home treatment, only those patients with
5	So:	5	good accessible veins, a reasonable intelligence and
6	"If possible, a home treatment patient would	6	who had someone available at home throughout the
7	continue on the same brand, even should he become an	7	24-hour period to help with the administration of the
8	inpatient for emergency or planned surgery."	8	material could be included. There was an almost equal
9	Again, that is said to be "if possible":	9	number of non-home treatment patients who were treated
10	"Additionally, it was felt important to try and	10	with a second brand, Hemofil, manufactured by Travenol
11	treat all children with locally prepared	10	Limited, USA. Hemofil was the first commercial
12	Cryoprecipitate in the first instance to avoid	12	product which entered the United Kingdom. It was used
13	hepatitis."	13	in the Northern Ireland Haemophilia Centre in the
14	So that's the reason given in this report for	14	early 1970s and at that time had proven to be
15	the usage of cryoprecipitate for children.	15	lifesaving. It had less good solubility than
16	If we go to the next page I should say, the	16	Kryobulin and thus was more suitable for hospital
17	date of this report is 6 November 1989, and again,	13	usage when professionals were available to carry out
18	it's authored by Dr Mayne. So we see Dr Mayne saying	18	its preparation."
19	this:	19	Then continuing down the page:
20	"Kryobulin (Immuno Limited, Vienna) was	20	"From time to time, when emergencies occurred
21	selected for the home treatment patients due to its	20	the quantities of material needed and the likely
22	ready solubility and easy of preparation."	22	duration of the period of treatment had to be
23	Again, no reference there to anything about	23	considered. It was difficult to maintain large stocks
24	donor pools or donor source:	24	of material. In general there was more Hemofil in
25	"The decision taken at that time was the	25	stock than Kryobulin, as much of the latter material
	55		56 (14) Pages 53 - 56
			(14) Fages 33 - 30

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this:

touch."

annual returns.

Soumik, IPSN0000332\_021, please.

19 October 1978. Sorry, if we just look at the bottom

of the page for a moment, you will see the initials

"DRW" and we will see the date, 19 October 1978.

see the heading, "Meeting with Dr Mayne, the Royal

representative's visit to Dr Mayne and he is recording

"This is the only Haemophilia Centre in

policy concerning human factor VIII. She uses Hemofil

for operations and Immuno for home treatment [and it's

an expensive policy, but feels that treatment changes

very concerned about liver enzyme changes [so that's

what's recorded about this meeting here], but at least

a very good source of information. We must keep in

understanding was of Dr Mayne's approach as at

picked up a concern about liver enzyme changes.

interactions with Mr Williams around this time, if we

October 1978 and, in particular, he appears to have

Just to complete the picture in relation to

go to IPSN0000332\_019 -- sorry, Soumik, my apologies

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are something best avoided with Haemophiliacs. She is

she knows what to expect with products which have been

So, in any event we see there what Mr Williams'

said then to be 22 patients]. She realises this is

"Dr Mayne is not prepared to change her present

Northern Ireland and there are 120 patients on the

books. 45 are severe and 12 have inhibitors.

Victoria Hospital, Belfast, October 10th 1978". So

this appears to have been the Speywood

I think that's Mr Williams of Speywood,

This is an internal note from -- it's "DRW",

And then if we go to the top of the page, we

30 March 2021

1	was distributed in the home treatment patients' own
2	refrigerators throughout the Province."
3	Then she goes on to observe that in 1970
4	Mr Devlin was treated with Hemofil rather than
5	Kryobulin. And then she says this:
6	"An unforeseen difficulty occurred in late 1982
7	and in particular throughout 1983. Due to increased
8	demands for European origin Kryobulin on a worldwide
9	basis, standing orders were unable to be met as
10	a consequence a third brand of material was introduced
11	to the Haemophilia Centre in the Royal Victoria
12	Hospital. The third material was Factorate produced
13	by Armour Limited, USA."
14	Then she goes on to document Mr Devlin's own
15	treatment.
16	So you'll see there that rather than, as the
17	witness statement had suggested, it being in the late
18	80s that a third product had to be introduced, that
19	the closer in time material suggests that it was due
20	to an inability to obtain sufficient Kryobulin that
21	the third concentrate, commercial concentrate,
22	Factorate was introduced in the early 1980s, in
23	particular 1983.
24	If we then look at one further contemporaneous
25	document before we turn to Factor IX and then to the
	57
1	used for some years. There is also loyalty to
2	Hemofil, because Baxter obviously gave her
3	considerable financial help in the early days.
4	Nonetheless, I will be quoting for an annual contract,
5	hoping that our price will be sufficiently lower to
6	awaken her interest. The one thing she would not tell
7	me, was her current buying in price."
8	So what the reference is to current financial
9	help is not currently known, and I should, in fairness
10	to Dr Mayne, note that she wasn't asked about this,
11	hasn't been asked about this at this stage, so we
12	don't know what she would say in relation to that.
13	It continues on to say that:
14	"She has 2 serious vW patients, one of whom had
15	300,000 units of human last year. Dr Mayne is very
16	keen to look at our proposed product in this area.
17	"She feels Feiba is of little value, but
18	believes Rizza's frequent low human dose discipline
19	for inhibitors to be of benefit. However, in her view
20	animal has a definite place and she would like to
21	study the PE material."
22	We will come back to what Dr Mayne thought of
23	and what use she made of the Hyate:C porcine product
24	a little later:
25	"Dr Mayne has a very open personality and is
	59

could we go, first of all, to IPSN0000332_020.
We can see there's an exchange of
correspondence, Mr Williams writing to Dr Mayne, on
6 November 1978, referring to the visit, and then
inviting her, in the second paragraph whether he
could persuade her to use some Koate, so a fourth
commercial concentrate, and he sets out what the price
would be and sets out what he perceives to be certain
advantages of it.
If we go to Dr Mayne's reply, IPSN0000332_019,
she writes in the second paragraph, second sentence:
"It may be possible that I will be
reconsidering the financial expenditure regarding the
purchase of Factor VIII concentrates to other to treat
our haemophilic patients.
"If there is any change in my policy, I shall
60 (15) Pages 57 - 60

INQY1000115 0015

1	not hesitate to get in touch with you."	1
2	Then if we go to IPCN0000332_017, we pick this	2
3	up now a few weeks later, in early 1979, and again	3
4	Dr Mayne's writing to Mr Williams at Speywood, and she	4
5	says in the second paragraph:	5
6	"I am most interested in the prices that you	6
7	are quoting for Koate during the forthcoming year.	7
8	I think they are competitive but regret to inform you	8
9	that they are not quite so favourably competitive as	9
10	our present contracts with the two commercial	10
11	Factor VIII firms. However, I have had long	11
12	discussions with my Senior Chief Medical Laboratory	12
13	Scientific Officer in the Blood Bank, with the	13
14	following results:	14
15	"It seems likely that our Home Treatment	15
16	programme will expand and that our needs for	16
17	commercial Factor VIII may expand further due to	17
18	increasing orthopaedic operations, et cetera, being	18
19	carried out on the site. Therefore Mr Carville and	19
20	myself agree that, should expansion become necessary,	20
21	we will be happy to place a further order with your	21
22	firm for any additional supplies of Factor VIII that	22
23	will become necessary.	23
24	"I appreciate that this is a further ray of	24
25	hope but trust you will keep in touch and look forward	25
	61	
1	page sorry, if we keep going. It's a very long set	1
2	of sub-paragraphs numbered 2. Yes, so if we go to the	2
3	next page. Thank you.	3
4	So if we look at 3.3.2, this is the position in	4
5	relation to Factor IX, she says this:	5
6	"During the early 1970s there was no	6
7	concentrate or product available designed specifically	7
8	to treat patients with Haemophilia B. In order to	, 8
9	ameliorate this situation I contrived to produce	9
10	locally a product to correct the Factor IX	10
11	deficiency."	11
12	Then she explains that she took her research to	12
13	Dr Bidwell in Oxford. She was initially left with	12
14	a flea in her ear, she says, but then got a call from	13
15	Dr Bidwell who said her research was amazing that's	15
16	paragraph 3.3.3 but that it was too late for	16
17	implementation. Then at the last few lines of	10
18	paragraph 3.3.3 Dr Mayne says this:	18
10	"At the conclusion of our phone call, she	10
20	suggested that Oxford would send us in Northern	20
20	Ireland some of their own Factor IX concentrate. At	20
22	the time it was not freely available and Northern	21
22	Ireland was fortunate to receive such material	22
23 24	manufactured from volunteer plasma in England."	23 24
	· -	2-7
25	Then in the next paragraph she says that	25

63

30 March 2021 to hearing further about your porcine material." So that's her communication in relation to the possibility of purchasing Koate in the future. Then Mr Williams wrote to Dr Mayne in February explaining that there was a price reduction in terms of the current stocks of Koate because of a change in the packaging style, and we can see Dr Mayne's response to that at IPSN0000332\_015. This is a letter of 16 February 1979 to Mr Williams referring to the letter I have just mentioned informing her of a price reduction in the current stocks, and she says: "I have asked Mr John Carville, Chief, Med Lab Scientific Officer, to place an order through the pharmacy for 30,000 units of the 970 packs ... I would be grateful if you would reserve this quantity for us until receipt of the order -- persistence is usually rewarded." So an order placed for Koate in February 1979, so an additional commercial concentrate introduced. Then in terms of Factor IX concentrates, we can perhaps pick this up in one of Dr Mayne's statements. It's WITN0736005. And if we could go -- I'm not sure of the page number, it's paragraph 3.3, please Soumik. So if we go on a couple of pages, go to the next 62 commercial products, so commercial Factor IX products, were not introduced until the mid-1980s, when UK supplies were unable to cope with demand. So NHS Factor IX from Oxford is what Dr Mayne says was used for the treatment of those with haemophilia B. I want to turn next, sir, to the annual returns and see what they tell us about actual product use. We have a number of annual returns, so if we start with the first that we have, which is for 1976, it's HCDO000054\_006. If we look at the top of the page, we can see it's "Annual return for 1976 ... materials used to treat patients having haemophilia or Christmas disease". The director is Dr Nelson. Dr Mayne's name is also there. "Total number of haemophilic patients treated during the year: 37. "Number with ... antibodies: 6. "Total number of Christmas disease patients treated during the year: [7 crossed out] 6." That's not 76, that's 6: "Number with Factor IX antibodies: NONE." Then if we look at the material being used, we can see in relation to cryoprecipitate, Factor VIII units, 376,190. And then we can see Hemofil, 271,970

units, and Kryobulin, 151,686 units.

64

(16) Pages 61 - 64

1	So a mix there of cryoprecipitate and then, in
2	terms of factor concentrates, Hemofil and Kryobulin,
3	as Dr Mayne has explained in her statements.
4	Then we can see in relation to NHS Factor IX
5	concentrate it's the Oxford product, 101,000 units,
6	and then there is a small amount of commercial
7	Factor IX concentrate, 11,500.
8	So it would appear her recollection that it
9	wasn't used at all until the 1980s was incorrect but,
10	it appears, used there in fairly moderate quantities.
11	There's no form available or separate form that
12	we have for von Willebrand's disease patients. If we
13	look just below the table it says, where there are
14	four asterisks:
15	"Please do not include von Willebrand's disease
16	patients on this form"
17	But we don't have the form for 1976 for
18	von Willebrand's patients.
19	If we could then turn to the annual return two
20	years later, 1978.
21	Soumik, that's HCDO0001231. And if we could
22	go, first of all, to page 7, and if we could zoom in
23	on the top. Thank you.
24	So, annual return for 1978. Again, we see
25	Professor Nelson and Dr Mayne. Dr Bridges' name is
	65
1	And then the Factor IX concentrate has been put in the

1	And then the Factor IX concentrate has been put in the
2	wrong column, we can see from the arrow,
3	144,660 units. And then there's some use of FEIBA and
4	Proplex, which I think would have been in relation to
5	patients with inhibitors.
6	If we go over the page, we then have
7	information specifically about the material used for
8	haemophilia A patients with Factor VIII antibody, so
9	inhibitors, and we can see there the amounts being
10	used, the small amount of NHS concentrate, Hemofil,
11	and then we see a Factor IX concentrate, it's Hyland
12	manufactured Proplex. So, again, there is some
13	evidence of commercial Factor IX usage. And then
14	FEIBA, 41,000 units.
15	If we just go further down the page, we can see
16	a further 11,500 units of another material and there's
17	an explanation in handwriting about the use of that
18	for one of the inhibitor patients.
19	If we then go on a further two pages, Soumik,
20	we do have the separate form for von Willebrand's
21	patients for 1978. We can see seven patients treated
22	during the year. Cryoprecipitate, 214,716 units. And
23	then if we go down to the bottom, we can see there's
24	then a small amount of usage of Immuno fibrinogen.
25	Actually, I should say, go on before I make
	67

1	also there and it's right to note that at this point
2	in time there's a single return which covers usage at
3	the Children's Hospital as well. So it all gets
4	
	caught up in these annual returns rather than there
5	being a separate return.
6	"Total number of haemophilic patients treated
7	during the year: 51.
8	"Number with Factor VIII antibodies: 9.
9	" number of Christmas disease patients
10	treated during the year: 4."
11	Then there's a figure of total amount used to
12	treat these patients during the year, which is
13	1,352,607. And then if we go further down to look at
14	the table, we can see there cryoprecipitate being
15	used, 200 and I'm not sure whether that's 50 or
16	60,000
17	SIR BRIAN LANGSTAFF: I think it's 50.
18	MS RICHARDS: I think it might be as well.
19	250,646 units of Factor VIII.
20	And then we can see usage of NHS
21	Factor VIII: 186,992.
22	So although other materials we've looked at
23	would suggest that NHS Factor VIII concentrate wasn't
24	available, it appears there was some availability at
25	least. Hemofil, 290,599,000. Kryobulin, 334,390.
	66
1	my observation two further pages. Sorry, Soumik
1	my observation two further pages. Sorry, Soumik.
2	There's a covering letter from Dr Mayne to Ms Spooner
2 3	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and
2 3 4	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says:
2 3 4 5	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral
2 3 4 5 6	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral hospitals and I find it impossible to obtain accurate
2 3 4 5 6 7	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral hospitals and I find it impossible to obtain accurate records of therapeutic materials such as
2 3 4 5 6 7 8	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral hospitals and I find it impossible to obtain accurate records of therapeutic materials such as cryoprecipitate used in these hospitals."
2 3 4 5 6 7 8 9	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral hospitals and I find it impossible to obtain accurate records of therapeutic materials such as cryoprecipitate used in these hospitals." So there's there may be some inaccuracy in
2 3 4 5 6 7 8 9 10	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral hospitals and I find it impossible to obtain accurate records of therapeutic materials such as cryoprecipitate used in these hospitals." So there's there may be some inaccuracy in the cryoprecipitate figures. She says:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	There's a covering letter from Dr Mayne to Ms Spooner dated 18 April 1979 enclosing the 1978 returns, and she says: "A few patients are treated in the peripheral hospitals and I find it impossible to obtain accurate records of therapeutic materials such as cryoprecipitate used in these hospitals." So there's there may be some inaccuracy in the cryoprecipitate figures. She says: " the enclosed results are as accurate as possible under the circumstances." Those are the overall forms but if we go back to page 1, and see if we can get the form the right way round, Soumik, what you'll see here, sir, are details of what individual patients received and
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1	are some patients who receive more than one type of	1	which is 1979, it's HCDO0001300. We can see from the
2	treatment. So the first patient, for example, there's	2	top of the page, "Annual Return for 1979", the
3	a tick in the cryoprecipitate column, there's a tick	3	director is now solely Dr Mayne, so she's taken over
4	in the Edinburgh Factor VIII column and a tick in the	4	from Professor Nelson:
5	Hemofil column. The third patient, again, we see	5	"Total number of haemophilic patients treated
6	receiving cryoprecipitate Elstree Factor VIII and	6	during year: 63."
7	Hemofil. The fourth patient is identified as	7	Ten with antibodies. Christmas disease
8	receiving Hemofil and Kryobulin and other materials,	8	patients treated during the year: 2. None with
9	as is the last patient listed on this page, Hemofil,	9	Factor IX antibodies.
10	Kryobulin had other materials.	10	Then if we look at the table, we can see still
11	I won't go through all of them but, if we go	11	usage of cryoprecipitate but decreasing in quantity,
12	over the page, we'll see, for example, the third	12	120,000. Again, some usage of NHS Factor VIII
13	patient down identified as receiving Elstree	13	concentrate, 135,483. And then we can see the
14	Factor VIII, Hemofil and other materials.	14	relatively small amount of Koate being used, 27,160.
15	And if we go on just two further pages please,	15	And that presumably reflects the purchase made as
16	Soumik, again we can see, if we look at the last two	16	evidenced by the exchange of correspondence with
17	patients listed, one receiving Elstree and Hemofil,	17	Mr Williams of Speywood. The timing fits in that
18	another receiving Elstree, Hemofil and other products	18	regard. So a third commercial concentrate being used
19	and so on.	19	in 1979.
20	So the policy of keeping patients on one type	20	Then we see the figures for Hemofil and
21	of concentrate product only does not appear to have	21	Kryobulin significantly greater than the previous
22	been entirely successful, and we continue to see	22	year: 557,655 units of Hemofil, 440,051 units of
23	cryoprecipitate usage as well for a number of patients	23	Kryobulin, and then in terms of NHS Factor IX
24	who are also receiving factor concentrates.	24	concentrate, 194,180, and no commercial Factor IX
25	That's 1978. If we can go to the next return,	25	concentrates used.
	69		70
1	If we do over two pages we can see the form for	1	again, there are further examples of a number of
2	If we go over two pages we can see the form for inhibitor patients. So we see a breakdown	2	patients receiving more than one type of concentrate
2	there: Hemofil used, NHS Factor IX used and FEIBA	2	as well as continuing to receive cryoprecipitate in
4	used.	4	addition to factor concentrates. There are a number
4 5	Then if we go to page 6, we see there	5	of pages I won't go through the detail of them
6	haemophilia carrier treated during the year with	6	but the Inquiry has that data which show that it
7		7	
•	Immuno concentrate, and then the next page tells us,		wasn't, clearly, always possible to adhere to
8	in relation to von Willebrand's, we have eight	8	a treatment policy of treating patients with only one
9 10	patients treated during that year. Cryoprecipitate is	9 10	type of concentrate at all times. SIR BRIAN LANGSTAFF: Is there a broad correlation between
10	the treatment of primary choice, 176,333 units. And		
11	then we see there an entry for DDAVP. So that's the	11	those who are moderate as opposed to severe
12	first time it appears, and it appears specifically in	12	haemophilia A patients, in that the moderates tend to
13	relation to von Willebrand's patients, not in relation	13	be given the variety of product more than the severely
14	to any haemophilia A patients.	14	affected?
15	If we go to the next page, we'll see similar	15	<b>MS RICHARDS:</b> The data on this page would be consistent
16	information as we saw from the previous return, and	16	with that. I haven't checked through line by line for
17	again we can see that there are some patients who are	17	all the returns for which we have this data to see
18	receiving more than one type of material. So, simply	18	whether that's the case, but we can do so. We'll have
19	by way of example, the first patient listed receives	19	a look overnight, sir, and I can let you know tomorrow
20	cryoprecipitate and Hemofil and FEIBA. And then if we	20	what that tends to suggest. We don't have this data
21	go over the page again, this is just by way of	21	for every year. We only have it for some of the
22	example the first patient receives cryoprecipitate,	22	years.
23	Elstree Factor VIII and Hemofil. And then the patient	23	Just sticking with the information that appears
24	four rows up from the bottom receives cryoprecipitate,	24	to have been sent with the 1979 annual returns. If we
25	Elstree Factor VIII, Hemofil and Kryobulin. And	25	go to page 18, Soumik, we can see that data was also
	71		72 (18) Pages 69 - 72

1	sent to Oxford setting out hepatitis B status, and
2	you'll see that in the right-hand column, and there's
3	"no" or "not known" for a majority of patients, "no"
4	for a majority of patients, but there are some for
5	whom we see "yes" as the answer in that column, in
6	terms of hepatitis B antigen status.
7	And if we go to the next page so there's two
8	on that page. There are seven on that page answered
9	"yes" on that column. If we go over to the following
10	page there are four with a "yes" in that column. And
11	on the last page there is one with a "yes" in that
12	column.
13	Those are the returns for 1979. We then have
14	returns for 1980. HCDO0001394.
15	If we just zoom in a little closer, thank you,
16	we can see the director there is Dr Mayne, and
17	Professor Bridges is also given, reflecting the fact
18	that there was a single return covering the
19	haemophilia reference centre itself but also the
20	treatment at the Children's Hospital. So this is the
21	1980 annual return:
22	"Total number of Haemophilia A patients treated
23	during the year: 65
24	"Total number of von Willebrand's disease
25	patients treated during the year: 8."
	73
1	see there's also then some reference to porcine
2	product being used.

3	SIR BRIAN LANGSTAFF: The figure in brackets, does that
4	refer to the number of people going on home treatment?
5	MS RICHARDS: I think it does. It is certainly consistent
6	with what Mr Williams' understanding had been in
7	autumn 1978 of the number of patients on home
8	treatment. So yes, that would seem highly likely.
9	Porcine Factor VIII concentrate being used, we
10	can see 13,420. And then the Immuno FEIBA product,
11	84,500. You will note no reference to DDAVP being
12	used at all.
13	Then you will see for the von Willebrand's
14	disease patients, the only product identified as used
15	is cryoprecipitate, and that's all in hospital.
16	If we go to page 3, we can see the figures for
17	haemophilia B in that year: 4 patients treated, and
18	the product used is NHS Factor IX concentrate at
19	17,560 in hospital, 32,870 for home treatment.
20	There's also then an:
21	"NB: 105,564 units used to treat"
22	I'm not quite sure what the next word is.
23	SIR BRIAN LANGSTAFF: "Several" I think.
24	MS RICHARDS: " several inhibitor patients."
25	SIR BRIAN LANGSTAFF: That looks as though it's not
	75

lood	Inquiry 30 March 2021
1	You will see the forms changed in 1980. So
2	here we have a form specifically for haemophilia A,
3	haemophilia A carriers and von Willebrand's. And then
4	the table is broken down into home treatment and
5	hospital treatment.
6	So if we look at the table itself we can see
7	cryoprecipitate for hospital treatment. Again, the
8	amount used has come down from the previous year,
9	it's 71,370. None used for home treatment. The
10	amount of NHS Factor VIII concentrate used is recorded
11	as 120,672. That's all for in-patient treatment, none
12	for home treatment.
13	Then we can see, earlier than the other
14	documents had suggested, the introduction of Armour
15	Factor VIII. So this would suggest that was in use in
16	1980. Quite why and how that fits in with the other
17	documentation and Dr Mayne's explanations of her
18	treatment policy are unclear. 93,322 units of
19	Factor VIII. No Koate this year, so it looks as
20	through the purchase from Mr Williams of Speywood may
21	have a one-off. And then we see Hemofil, 520,887.
22	That's all for hospital treatment. And then in terms
23	of Kryobulin for the home treatment programme, so
24	a smaller amount used in hospital, 63,809, and a much
25	larger amount used for home treatment, 597,761. We'll
	74
1	addressing haemophilia B.
2	MS RICHARDS: Yes. So it's not entirely clear. We have
3	the usage for haemophilia B patients in the main body
4	of the table. It looks like Dr Mayne wanted to record
5	additional usage of Factor IX for haemophilia A
6 7	patients with inhibitors somewhere in the returns, and
7 0	she's put it there. SIR BRIAN LANGSTAFF: Yes.
8	
9 10	MS RICHARDS: Again, if we go to the next page, we see in slightly different format but again the same
10	• •
10	information being submitted about materials used.

- 12 This one is slightly harder to read but again there's
  - some patients only receiving a single type of
  - material, but if we go to the next page we see

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- 15 a number of patients receiving more than one type of
  - material. So, for example, the patient that's about
- 17 five lines down is receiving both Hyland and Immuno.
- 18 We can see those two ticks in columns next to each
- 19 other. A little further down, just over halfway down
  - the page, there's a patient receiving Hyland and
  - Oxford Factor IX and Armour, and then a patient who's
- 22 down as receiving Hyland and Immuno, and then some 23
  - patients just receiving one single product. That pattern -- again, I won't go through all
  - of it, but that pattern continues over the following

(19) Pages 73 - 76

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1	pages, with a number of patients receiving more than
2	one concentrate, including more than one type of
3	commercial concentrate.
4	So that's 1980. The next return we have is
5	for 1983, and that is HCDO0000153_003. So the first
6	document is in relation to haemophilia A and
7	von Willebrand's patients. So we see:
8	"Total number of Haemophilia A patients treated
9	during the year: 72."
10	Not quite clear what is written under it
11	looks like it might be a 2, for the number of carriers
12	of haemophilia A. Then:
13	" von Willebrand's disease patients treated
14	during the year: 16."
15	Then if we look at the table for haemophilia A
16	patients, the amount of cryoprecipitate has come right
17	down to 18,210. Volume of NHS factor concentrate not
18	dissimilar from previous years: 159,090. And then we
19	can see by 1983 a very significant amount of Armour
20	Factor VIII being used, and that's for both in-patient
21	treatment and home treatment. It's now the largest
22	amount used for home treatment in 1983. So the
23	in-patient treatment for Factor VIII is 289,630. The
24	total use for home treatment is 505,844.
25	There's rather less Hemofil being used, 128,983,
	77

77

1 cohort of patients. That's HCDO0000153\_004. We can 2 see there are nine patients treated during 1983 who 3 had Factor VIII antibodies, ie inhibitors. And we'll 4 see that they had been treated with Factor VIII, so 5 the Armour product, in hospital: 166,503 units. Some 6 treatment with Hemofil in hospital: 56,000. And with 7 Kryobulin: 13,434. And then the largest volume is the 8 Hyate:C, the porcine product, the Speywood 9 product: 609,935. And then we see the figures given 10 for Autoplex: 156,870. And FEIBA: 3,500. She's noted 11 at the bottom five patients responded well to porcine 12 Hyate:C. 13 Then, just to complete the picture for 1983, if we can go to HCDO0000153\_005, we have the figure for 14

15 haemophilia B patients. Five patients treated during 16 the year and we can see the usage is the NHS Factor IX 17 concentrate, both in hospital and at home, and the 18 quantities there set out. 19 The last return we have, the penultimate return 20 we have, is for 1984. Soumik, that's HCDO0001789, and 21 we can see these are the annual returns for 1984: 22 "Total number of Haemophilia A patients treated 23 in 1984; 82." 24 1 haemophilia A carrier, 8 von Willebrand's

25 disease patients.

1	in-patient treatment. Kryobulin is still being used
2	to a small extent in hospital, 27,419, and to
3	a significant extent for home treatment, 422,497. But
4	it is apparent that there are now two commercial
5	products being used for home treatment: Factor VIII
6	and Kryobulin. Which it doesn't appear well, it
7	accords with what Dr Mayne has said in some parts of
8	her evidence but not elsewhere.
9	We can then, if we look towards the bottom of
10	the column, see porcine Factor VIII being used:
11	609,935. FEIBA: 156,870. And Autoplex: 3,500 no,
12	sorry, I've got those numbers the wrong way round.
13	SIR BRIAN LANGSTAFF: The other way round.
14	MS RICHARDS: Autoplex: 156,870. And FEIBA: 3,500.
15	Those, I think we see elsewhere, are for
16	patients with inhibitors. Then in the column
17	"Carriers for haemophilia A" we can see a small amount
18	of cryoprecipitate: 8,500. Von Willebrand's, again
19	cryoprecipitate is the only product used: 55,710 in
20	hospital, 145,020 home treatment. So we can see there
21	cryoprecipitate is used for home treatment for
22	von Willebrand patients.
23	No reference you'll note, sir, to DDAVP usage.
24	That's the first part of the 1983 return.
25	There's a specific form in relation to the inhibitor
	78

78

And then we can then see for the haemophilia A patients the product used: cryoprecipitate in hospital, so that's gone up from the previous year, 190,560. NHS Factor VIII concentrate has gone up significantly, and that may be because of the arrangements that were made with Scotland which I'll come on to, 525,710 units used in hospital, 69,810 for home treatment. We can see that, again, there's very substantial usage of the Armour product Factor VIII, 506,184, in hospital, 394,800 for home treatment. Hemofil usage has gone right down to a modest 24,240 units in hospital. And then Kryobulin is used entirely for home treatment, 441,408 units. So those on home treatment receiving Kryobulin Factor VIII and NHS Factor VIII concentrate. And then if we look at the bottom of the page, in terms of the porcine Factor VIII concentrate, we see a very substantial figure: 777,776. And we can see that approximately two-thirds of that was used on one patient? Then carriers of haemophilia A cryoprecipitate, 4,000 units in hospital. The von Willebrand's disease patients, the volume has gone up but it appears to be only in hospital not home treatment, and that's 1,108,800, is the figure there 80 (20) Pages 77 - 80

1	given.	1
2	The significance of looking at the concentrates	2
3	used in 1983 and 1984 will become particularly	3
4	apparent later when we look at the numbers infected	4
5	with HIV and the dates of seroconversion because the	5
6	available evidence suggests that, for the majority of	6
7	those who seroconverted to HIV, the seroconversion	7
8	took place in '83 or '84 or, indeed, in I think at	8
9	least one case, '85.	9
10	SIR BRIAN LANGSTAFF: Yes.	10
11	MS RICHARDS: So those are the haemophilia A and	11
12	von Willebrand's figures.	12
13	If we go to the next page we see the breakdown	13
14	in relation to the eight patients treated with	14
15	Factor VIII antibodies. NHS Factor VIII concentrate:	15
16	47,920. And then receiving Armour and Travenol in the	16
17	smaller quantities there set out, and then much larger	17
18	quantities of porcine Factor VIII as set out on the	18
19	previous page. NHS Factor IX concentrate used for	19
20	inhibitor patients: 202,300. Again, I should have	20
21	observed but didn't, in relation to the previous page	21
22	no reference to DDAVP at all.	22
23	Next page, gives us haemophilia B	23
24	information: four patients treated in 1984 and we can	24
25	see again for that year the sole product recorded is	25
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1	the haemophilia A patients a very small amount of	1
2	cryoprecipitate used in hospital, 3,780. A much	2
3	larger volume of NHS Factor VIII concentrate and	3
4	the evidence suggests that the Scottish heat-treated	4
5	product was being used, not necessarily exclusively	5
6	but in part so that's 1,421,490. And then we see	6
7	Alpha Profilate being used, Armour Factor VIII and	7
8	Travenol Hemofil all being used. Again, presumably,	8
9	by this time, heat-treated.	9
10	And then in relation to presumably patients	10
11	with inhibitors, porcine Factor VIII and Autoplex and	11
12	FEIBA.	12
13	Then a reference to DDAVP being used for	13
14	two patients. So DDAVP makes a late appearance here	14
15	in 1986.	15
16	Also then we have the figures for	16
17	von Willebrand's and the carriers of haemophilia A	17
18	treated with cryoprecipitate.	18
19	SIR BRIAN LANGSTAFF: Just before we do, there's no	19
20	Kryobulin.	20
21	MS RICHARDS: That's right. No Kryobulin at all.	21
22	SIR BRIAN LANGSTAFF: So the shift the switch away from	22
23	Kryobulin begins is some time in '85/'86?	23
24	MS RICHARDS: Yes. We don't have the return for 1985	24
25	unfortunately, but, yes, between 1984 and 1986 that	25
	83	

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	the NHS Factor IX concentrate: 120.215 for the
	hospital and 30,315 for home treatment.
	Sorry, I should say, if we just go to the next
	page we do have some data for this year in terms of
	individual patients. Again, we'll look and see
	overnight if we can trace any correlation through in
	terms of the severity or otherwise of the
	haemophilia A, but there are, if we look, for example,
	towards the bottom of the page, 5 and 4 entries up
)	from the bottom of the page, we can see two patients
	ticked as receiving both Armour concentrate and Immuno
2	concentrate and there are further examples on the next
3	page. A number of patients for whom there is a tick
ļ	in the Armour column and in the Immuno column and,
5	indeed, for some of them, in the Edinburgh Factor VIII
6	column. And that's a pattern that continues over the
7	following pages. So whilst there are still some who
3	receive only one type of material, there are others
)	who receive two or sometimes three types of material.
)	The last set of returns I'm going to go to is
I	from 1986, so we're now into the era of largely
2	heat-treated product.
3	HCDO0000362_008. So the returns for 1986:
ł	81 haemophilia A patients treated, two haemophilia A
5	carriers, 11 with von Willebrand's. We see there for
	82
	02
	shift is taking place. It may reflect what was
	available in terms of heat-treated product.
	In terms of haemophilia B, it's the fourth
	page, and we can see four patients with haemophilia B
	treated, all with NHS Factor IX product in terms of
	hospital and home treatment.
	So that's what the returns tell us.
	There's one further document from Dr Mayne
	from 1985 I should invite you to look at. It's
)	BHCT0000503. We looked at it earlier, it's the
l	1 August 1985 document, and if we go to the second
2	page we looked at it earlier for a snapshot of the
3	number of patients registered in '84/'85.
ł	If we now look at the bottom half of this page
5	we see what Dr Mayne was writing in August 1985. So
6	I'll pick it up with the sentence I read before:
7	"In order to simplify the treatment of these
3	patients, all the blood products necessary for
)	treatment are held at the Reference Centre and issued
)	to other hospitals in the Province, specifically
	designated for individual patients. Some 38 patients
2	with Haemophilia A and one with Haemophilia B are on
-	home treatment [so that's the figure by August 1985].
1	This implies that they retain their own supplies of
r -	

Factor VIII and with the help of relatives, inject 84 (21) P

(21) Pages 81 - 84

themselves as soon as a bleed occurs. Up until
December 1984 the treatment was virtually all
commercial imported material and up until the end of
1982 this all originated [and the 'all' does not
appear to be borne out by the returns] from Immuno in
Vienna, namely European Factor VIII. Thereafter the
scare and implications for AIDS made great inroads
into the European supplies, therefore, we were
grateful to receive American material from Armour
Pharmaceutical Company Limited. They were already
regular supplies of material for inpatient surgery."
So Dr Mayne is here suggesting that the lack of
availability of the Immuno product was because of the
concerns about AIDS and a greater desire for European
material. Slightly curious wording to suggest,
therefore, grateful to receive American material but,
in any event, you'll see the figures there set out.
I haven't done the maths to see how they correlate
with the returns but we can do that.
You'll see she says NHS Factor VIII only became
available in December 1982. Again, that doesn't
appear to be completely accurate when we look at the
returns.
SIR BRIAN LANGSTAFF: That plainly doesn't fit with the
returns.

1	"From December 1984 all commercial material and
2	NHS material has been ordered by us through the
3	Regional Blood Transfusion Service, to enable at long
4	last a regional budgeting system to exist for the
5	haemophilic population of Northern Ireland."
6	So it would appear that prior to that date it
7	was ordered directly by the centre, by Dr Mayne, and
8	that's the date she's given at the point in time when
9	she places the order through the Blood Transfusion
10	Service. She goes on to talk about particularly usage
11	in relation to patients with inhibitors.
12	If we then go to BHCT0000907. This is really
13	to complete the picture in relation to the
14	introduction of heat-treated product. Can we go to
15	the third page.
16	This is a letter from Professor Bloom to
17	Haemophilia Centre Directors, 9 April 1985, and it's
18	a questionnaire that he's asking the centre directors
19	to complete, and he wants to assess the demand for
20	heat-treated Factor VIII and IX concentrates.
21	If we can then go to page 2, we can see
22	Dr Mayne's completion of the questionnaire:
23	"Are you still using unheated commercial
24	Factor VIII: No
25	"Are you still using unheated BPL Factor VIII:
	87

	. ,
1	MS RICHARDS: No.
2	SIR BRIAN LANGSTAFF: Can we just go back to the number of
3	patients referred to in this earlier because that,
4	I think, comes to 189. The latest return, the return
5	for 1984, showed there were 95 patients, that includes
6	four with haemophilia B, and in 1986, 98.
7	MS RICHARDS: Yes, the returns show the number of patients
8	treated.
9	SIR BRIAN LANGSTAFF: So about half, roughly, of the
10	patient cohort received no treatment during the year?
11	MS RICHARDS: That would seem to follow. And that's not
12	dissimilar to what we've seen in other centres where
13	those who are mild haemophiliacs don't necessarily
14	require any treatment for years.
15	If we go over the page sorry, back to the
16	first page, which is the second page of the document,
17	Dr Mayne says this in the first paragraph:
18	"It is clear from these figures that the
19	increased use of NHS material should have produced
20	an economy in the purchase of commercial material but,
21	due to extensive orthopaedic surgery being necessary
22	following a series of road traffic accidents and bone
23	fractures, the increase in NHS material was inadequate
24	for needs."
25	Then she says this:
	86
1	No
2	"Are you using cryoprecipitate: Occasionally
3	for children.
4	"Are you using heat-treated commercial
5	factor VIII: occasionally.
6	"Are you using heat-treated BPL factor VIII:

factor VIII: occasionally.
"Are you using heat-treated BPL factor VIII:
No.
" unheated BPL factor IX: No.
" heat-treated commercial factor IX: No.
"Have you had any significant financial
restrictions on purchase of concentrates: No."
Then the completion makes sense when we read
what is set out below:
"The [Northern] Ireland centre is being
provided with heat-treated VIII [not quite sure what
the next word is] from Scotland, and unheated IX [it
looks like that says] from the same place."
So the writing's not entirely clear but, in any
event, they are being supplied by this time from
Scotland, and we will look at the arrangements for
that in a little more detail.
SIR BRIAN LANGSTAFF: That's "material", I think, the word
after "IX".
MS RICHARDS: Yes, you might be right. So it appears to

			. ,
1	" heat treated [Factor] VIII material from	1	So that's her recollection as to the numbers of
2	Scotland, and [looks like] unheated IX material from	2	home treated patients. It's not entirely clear where
3	the same place."	3	that figure derives from.
4	I think is what it says. I'm not entirely	4	In terms of the approach to home treatment,
5	certain about those last two words.	5	we've seen reference to patients treating themselves
6	SIR BRIAN LANGSTAFF: "Same source".	6	prophylactically in some of the materials we've looked
7	MS RICHARDS: Yes, I think you're right, sir.	7	at, and that's also addressed by Dr Mayne in an
8	So that's what the contemporaneous or near	8	article in 1979.
9	contemporaneous documentation tells us about actual	9	If we could go to HSOC0022869. If we go to
10	product usage. So we've seen from the materials	10	sir, this is yes, I should say a Bulletin,
11	looked at so far that the home treatment programme	11	number 3 of 1979, so The Haemophilia Society magazine.
12	commenced in the mid-'70s, '74 seems to be the	12	If we go to the second page, we look on the
13	likeliest date, although one of Dr Mayne's statements	13	right-hand column "Annual General Meeting in
14	recalls it being around 1976.	14	Manchester". We can see there was a lecture given by
15	If we look at her statement at WITN0736006.	15	Dr Mayne, and she then subsequently produced her
16	I'm looking for paragraph H sorry, Soumik, again,	16	recollection of what it was she set out, because the
17	I haven't got a page number recorded. Paragraph 8,	17	tape recording of the proceedings had failed.
18	sorry. Yes.	18	If we look at the next page, in any event, the
19	So we've got figures there in paragraph 8. She	19	middle column, top half of the page, the third
20	says there a figure of 43 on home treatment. She then	20	paragraph no, sorry, the second paragraph, she
21	gives the figures about how many became HIV positive.	21	says beginning "To this end" she says this about
22	Again, I'm going to come back to that. Then she says,	22	prophylaxis:
23	in the last sentence of paragraph 8:	23	"To this end I feel that prophylactic treatment
24	" the final number included HT group may be	24	with factor VIII has lot to offer a family to avoid
25	43 or 47, my memory eludes me."	25	these stressful situations developing. Certainly
20	89	20	90
	03		30
1	I have found that, coming up to exams et cetera	1	operate as widespread a home treatment programme as is
2	a small dose of factor VIII is all that is necessary	2	locally possible."
3	to keep the haemophilic on an even keel. I think it	3	So it would appear Dr Mayne an enthusiastic
4	is because he realises that people are concerned and	4	advocate of home treatment, and that's clear from
5	in some way this sorts out the bleeding problems!	5	other materials, but also an advocate of a degree of
6	"I often feel, as doctors, we worry too much	6	prophylaxis in terms of the approach to home
7	about the number of bleeds that each haemophilic	7	treatment.
8	patient has. It always seems to me to be so much more	8	We can take that down, thank you.
9	important to realise that despite having no clotting	9	In terms of the particular arrangements for the
10	activity of factor VIII in their blood, they do not	10	supply of products, we saw an example of Dr Milne
11	bleed each and every day."	11	communicating directly with Mr Williams of Speywood
12	So some advocacy for prophylactic treatment.	12	about Koate and Hyate:C, and there is also
13	And we can see that in the right-hand side column, if	13	correspondence which shows her in communication with
14	we just go a little further down the page, Soumik, to	14	BPL and with PFL arranging for concentrate for
15	the last paragraph of the article. It's the last	15	particular patients. So it appears to have been very
16	paragraph thank you. Right-hand side, it says:	16	much Dr Mayne's role to make the arrangements in the
17	"In summary, I think the medical profession	17	70s and in the early years of the 1980s for the
18	need to provide time, need to seek to have some	18	procurement of the factor concentrates that she wished
19	permanent staff available for chat sessions",	19	to use. There is then, in the first years of the
20	et cetera, et cetera.	20	1980s, the issue about supply from Scotland, and
21	Then she says this:	21	I just want to pick that up and show you various
22	" to encourage patients with inhibitors, to	22	documents relating to it.
23	meet and try to establish a lifestyle that suits them,	23	So as well as commercial concentrates,
24	to use prophylactic factor VIII in a wise fashion to	24	NHS concentrate was received from Scotland. And if we
25	help patients over stressful periods of time and to	25	go to PRSE0003946, we can see at the Haemophilia
		20	

92

(23) Pages 89 - 92

		The lineo
1	Centre Directors meeting of 30 September 1980,	
2	Dr Bridges was not there he's in the list of	
3	apologies but he was represented by Dr Mayne. If	
4	we go to page 7, please, Soumik, bottom half of the	
5	page, about ten lines up from the bottom, it says:	
6	"Dr Mayne enquired whether any way could be	
7	found of fractionating plasma collected from Northern	
8	Ireland. Dr Walford [that's Dr Diana Walford from the	
9	Department of Health] said that this problem was being	
10	looked into."	
11	So that's where we see Dr Mayne raising the	
12	question of fractionating Northern Irish plasma,	
13	because there was no facility in Northern Ireland for	
14	the plasma to be fractionated and for concentrates to	
15	be prepared, although Northern Ireland was able to	
16	produce its own cryoprecipitate.	
17	We can then pick the picture up a few months	
18	later with CBLA0001294. This is a Department of	
19	Health internal document from February 1981 and it is	
20	a report for the Advisory Committee on the NBTS, the	
21	National Blood Transfusion Service.	
22	The background is set out in the first	
23	paragraph:	
24 25	"As Members know"	
20	Sorry, the heading is "Pro rata distribution of	
	93	
1	That 'assessment' is based mainly upon the number of	
2	haemophiliacs treated within each Region in a given	
3	year This system is, in effect, weighted to take	
4	account of the spread of haemophiliacs throughout the	
5	country."	
6	So that was the existing system. And then	
7	details are given in the next paragraph of the	
8	proposed change in system, "Pro rata distribution":	
9	"BPL will calculate how many [international	
10	units] of Factor VIII are due to each [Regional Health	
11	Authority] based upon the quantity and quality of	
12	plasma supplied."	
13	Then further detail is given in relation to	
14	that.	
15	Then we see, over the page, a particular issue	
16	in relation to how this is going to impact upon	
17	Northern Ireland. So it's the bottom half of the	
18	page, "Other 'users'". So it's set out in the top	
19	half of the page how it's going to work for the	
20	average Regional Health Authority. And then there are	
21	certain specific categories set out: Channel Islands,	
22	Army, Catholic Children's Pilgrimage Trust, and then	
23	Northern Ireland:	
24	"The Northern Ireland [Blood Transfusion	
25	Service] currently receives over 1,000 vials a year	
	95	

1	blood products":
2	"As Members know, from 1 April 1981 it is
3	intended to introduce a system of pro rata
4	distribution of certain blood products to ensure that
5	[Regional Health Authorities] receive such products in
6	proportion to the quantity and quality of plasma sent
7	to the Blood Products Laboratory (BPL) for
8	fractionation. [Regional Health Authorities] have
9	accepted the principle of pro rata distribution for
10	Factor VIII, Factor IX and albumin containing products
11	This paper puts forward for the Advisory
12	Committee's consideration possible arrangements for
13	the distribution of these products."
14	Then in paragraph 2 it explains the current
15	position in relation to what BPL were producing:
16	currently producing about 14 million international
17	units of Factor VIII used in the treatment of
18	haemophiliacs. The balance of demand is met by
19	cryoprecipitate manufactured by Regional Transfusion
20	Centres and by imported commercial products.
21	Paragraph 3 sets out the "Present distribution
22	arrangements", so it says:
23	"In common with other BPL products, Factor VIII
24	is distributed broadly on the basis of an assessment
25	of regional requirements for patients' treatment.
	94

from BPL."
So that will explain why we do see
NHS Factor VIII concentrate appearing in the returns:
"However, the Service [that's the Northern
Ireland Blood Transfusion Service] is unable as yet to
supply [fresh frozen plasma] and under the pro rata
system will not be entitled to Factor VIII. This has
been discussed between the Service's Director and
Dr Lane, Director of BPL, [Northern Ireland] BTS is
expected to increase its production of cryoprecipitate
to make up for the loss of Factor VIII supplies from
BPL and, in the longer term, is exploring the
advantages and disadvantages of transporting [fresh
frozen plasma] to BPL or PFC at Edinburgh. ([The
Northern Ireland Blood Transfusion Service's]
difficulty lies both in freezing plasma and in keeping
it frozen on a journey to Elstree or Edinburgh).
"Following discussions between officials of
DHSS and the Department of Health and Social Services
in [Northern] Ireland, it is suggested that the
principle of pro rata be applied to [the Northern
Ireland Blood Transfusion Service] in the same way as
to [Regional Health Authorities]."
So we see there, sir, no difficulty, it would
appear, in terms of production of cryoprecipitate, but
96 (24) Pages 93 - 96

			. ,
1	the change to the pro rata distribution system is	1	baseline funding
2	going to have the effect of Northern Ireland no longer	2	see under the
3	receiving anything from BPL.	3	reference there t
4	If we go to the next page, we can see under the	4	the Protein Fract
5	heading "Summary", paragraph 10, the committee's views	5	then it explains th
6	were then being sought on a number of matters	6	"Prior to
7	including at 10c4:	7	distribution scher
8	"Application of pro rata to [Northern]	8	through the Bloo
9	Ireland"	9	from [BPL] at Els
10	If we just go on two further pages, we just see	10	when the service
11	a table which sets out what is said to be the current	11	that's Edinburgh]
12	monthly allocation. And if we go down to Belfast,	12	been required to
13	which is the we see the last two entries, Belfast	13	So we c
14	and Jersey the current monthly allocation in terms	14	was the Blood Tr
15	of vials is said to be 90, and under the pro rata	15	receiving NHS p
16	process it will be zero. So it will receive nothing	16	and in return sup
17	in terms of BPL concentrate.	17	centre.
18	What was done to address that was an	18	If we jus
19	arrangement with Scotland. I want to look at	19	I turn to some of
20	a handful of documents in this regard but, first of	20	relation to the So
21	all, if we go to a document that summarises the	21	heading "Supplie
22	overall position, it's RHSC0000066_024.	22	Victoria Hospital
23	So this is just a later document which picks	23	"All clott
24	up it's called it's from 1989 and it's called	24	et cetera) are ma
25	"Blood Transfusion Service financial position on	25	Centre, Royal Vi
	97		, <u>,</u>
1	Centre Director. All supplies of clotting agents	1	Service.
2	whether obtained from PFCE and routed through the	2	MS RICHARDS: Ye
3	Northern Ireland Blood Transfusion Service, or	3	a document, but
4	obtained directly from commercial sources, eg	4	here.
5	Profilate, Hyate, Feiba, Autoplex, must be delivered	5	SIR BRIAN LANGST
6	directly to the Haemophilia Centre.	6	position, if it isn't
7	"Mr Carville, the Senior Chief MLSO in the	7	MS RICHARDS: It a
8	Blood Bank under the direction of Dr Mayne, is	8	
			the current positi
9	responsible for the ordering and control of all	9	everything we've
10	clotting agent supplies."	10	SIR BRIAN LANGST
11 10	So, again, very much decisions under the direct	11	MS RICHARDS: 1 th
12	control of Dr Mayne. And that is, in fairness,	12	of clarity or contr
13	absolutely what she says in her witness statement,	13	probably for the
14	that she was the person who was ordering the supplies.	14	SIR BRIAN LANGST
15	So just to return then to the Scottish picture,	15	MS RICHARDS: So
16	if we go to CBLA0001287	16	recall we looked
17	SIR BRIAN LANGSTAFF: This document is February '89, is	17	Committee on th
18	it?	18	about the switch
19	MS RICHARDS: Yes, it's a later document. I've referred	19	see this is the m
20	to it partly because it just gives a later perspective	20	23 February 198
21	on what happened. It confirms the switch took place.	21	a Dr Lawson fror
22	What's said there	22	Services, Northe
23	SIR BRIAN LANGSTAFF: I understood from what you have	23	And ther
24	shown us earlier that from the end of 1984 all the	24	down the page w
25	ordering was done through the Blood Transfusion	25	the heading "Pro
	99		

g". If we go to the second page we can e heading "Blood Products", we can see to blood products being received from ctionation Centre in Edinburgh. And that: to 1982 [so prior to the pro rata eme], most blood products provided od Transfusion Service were acquired Istree free of charge, but since 1982 e was transferred to the PFCE [so h], the Blood Transfusion Service has o pay for all products." can see that what resulted, ultimately, Transfusion Service in Northern Ireland product from Edinburgh rather than BPL, pplying that to the haemophilia ist look at the next page, again before of the contemporaneous documents in Scottish arrangement, under the ies to the Haemophilia Centre, Royal al", what's said there is: tting agents (Factor VIII, Factor IX, nanaged exclusively in the Haemophilia /ictoria Hospital, under Dr Mayne, the 98 res, that's what Dr Mayne had said in It that doesn't appear to be what's said TAFF: This is the pre -- end of '84

It the current position.

appears to be being suggested that it's ition in 1989. It certainly reflects

e seen about the pre-1984 position.

## TAFF: Yes.

think to the extent that there's any lack tradiction in the documents, it's period from '85 through to '88. TAFF: Yes. So if we go then to CBLA0001287, you will d at the report to the Advisory the National Blood Transfusion Service h to the pro rata system. And we can meeting of the Advisory Committee on 81. It has amongst its observers om the Department of Health and Social ern Ireland. en if we go to the second page, halfway we can see a discussion beginning under o rata supply of blood products".

1	Obviously, we will come back to this, how it	
2	impacts upon Treloars, which is mentioned here, and	
3	more generally when we explore other aspects of the	
4	Inquiry's work. And if we go to the next page, we can	
5	see what was decided in terms of Northern Ireland.	
6	Paragraph 9d:	
7	"On the question of 'other users', members	
8	agreed that	
9	"d. the pro rata scheme should apply to	
10	Northern Ireland. Dr Lawson explained that the	
11	Northern Ireland [Blood Transfusion Service] intended	
12	to send plasma (both time-expired and fresh-frozen) to	
13	the Protein Fractionation Centre, Edinburgh. This had	
14	been agreed by the directors concerned."	
15	So that's how the pro rata scheme is now	
16	intended to apply. Belfast will receive its	
17	NHS plasma from Scotland rather than from BPL.	
18	If we go to SCGV0000104_134, we can see	
19	a letter between Belfast and Scotland. It appears to	
20	be between the respective Health Departments of the	
21	two countries, 7 May 1981:	
22	"Dear MacPherson"	
23	This is someone in the Scottish Home and Health	
24	Department:	
25	"Supply of blood products to Northern Ireland.	
	101	
1	And then there's a reference also to receipt of	
1 2	And then there's a reference also to receipt of anti-D product which Liberton is unable to provide.	
1 2 3	anti-D product which Liberton is unable to provide.	
2	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail	
2 3	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what	
2 3 4 5	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to	
2 3 4 5 6	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to make available and what they hope to receive on	
2 3 4 5 6 7	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to make available and what they hope to receive on a pro rata basis from Edinburgh.	
2 3 4 5 6	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to make available and what they hope to receive on	
2 3 4 5 6 7 8	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to make available and what they hope to receive on a pro rata basis from Edinburgh. So that's an arrangement that began in around 1981/1982. There's a further letter which discusses	
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2 3 4 5 6 7 8 9 10 11 12	anti-D product which Liberton is unable to provide. Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to make available and what they hope to receive on a pro rata basis from Edinburgh. So that's an arrangement that began in around 1981/1982. There's a further letter which discusses the continuation of the arrangement in '84. That's NIBS0001721, and I'll make this, I think, the last document before we break. It's from a Dr Darragh of	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>anti-D product which Liberton is unable to provide.</li> <li>Over the page, I don't need to go to the detail of it, but those are the figures suggested as to what the Northern Ireland Blood Transfusion Service hope to make available and what they hope to receive on a pro rata basis from Edinburgh.</li> <li>So that's an arrangement that began in around 1981/1982. There's a further letter which discusses the continuation of the arrangement in '84. That's NIBS0001721, and I'll make this, I think, the last document before we break. It's from a Dr Darragh of the Eastern Health and Social Services Board to Dr Mayne 25 May 1984, and it says in the first paragraph:</li> <li>"We have recently been monitoring the success of the Blood Fractionation arrangements with the Scottish Health Services."</li> <li>Just pausing there, May 1984, sir, we're not yet in the heat-treated product territory in terms of what was being received in Belfast.</li> </ul>	

1	"I understand you have been aware of
2	preliminary discussions between the Director of the
3	Protein Fractionation Centre in Edinburgh and
4	Dr McClelland of the Northern Ireland Blood
5	Transfusion Service about a transfer of the Northern
6	Ireland source of supply for blood products from
7	Elstree to Liberton. I have received official
8	confirmation from our Eastern Health and Social
9	Services Board, which has administrative
10	responsibility for the Blood Transfusion Service in
11	Northern Ireland, of its wish to pursue this proposal
12	and I am therefore writing to seek your Department's
13	agreement in principle."
14	He then refers to enclosing a note of the
15	quantities of plasma they are aiming to provide, what
16	they would like to receive. Then it says:
17	"Subject to agreement being reached, Northern
18	Ireland should be in a position to send its plasma
19	(both time-expired and fresh frozen) to Liberton by
20	October 1981. Because of the 6-month period required
21	to process the raw material, it will be March 1982
22	before we would receive any finished products. In the
23	meantime I am also writing to DHSS (London) seeking
24	their agreement to the continuation of arrangements
25	with Elstree to cover this interim period"
	102

	"Over the last few months it has become
	apparent that there may be a category of patients for
	whom the NHS product may not be satisfactory.
	"You may recall that we embarked on the 'in
	house' production in response to a number of issues
	one of which was the major financial outlay on
	commercial products. At the time there was apparently
	a clearly defined National Policy endorsed by the
	profession to move towards self-sufficiency with the
Ì	implicit assumption that the NHS product would be
	an equivalent therapeutic substitute. In reviewing
	the local scene we perceive that there are substantial
	numbers of people for whom the NHS product does not
	appear to be appropriate."
	Quite why that is said to be the case is
i	unclear.
	"Since the policy to which we subscribe through
	the DHSS is to use 'in house' products and funding has
	been diverted to underwrite this arrangement, we will
	require to have substantial clinical evidence to
	obtain finance for the continued use of the commercial
	products."
	Then the last paragraph on this page, he says:
	"Will you please provide us with the names and
	clinical reasons why the NHS product is not
	104 (26) Pages 101 - 104
	()9

30 March 2021

	111	e miested biood mig	
1	appropriate to those individuals who you envisage as	1	documents relating to the arrangements with Scotland
2	likely to continue to need the commercial product."	2	there's just one document I wanted to go to in
3	So it's a somewhat curious letter. We haven't	3	response to a query you raised, which was about the
4	traced a response to it from Dr Mayne, I think, but it	4	question of whether purchasing responsibility
5	confirms at least that the arrangement with Scotland	5	transferred from Dr Mayne to the Blood Transfusion
6	was still continuing as at May 1984, and it appears to	6	Service. I'm afraid it doesn't really answer the
7	contemplate, for financial reasons, a desire to move	7	question but it does deal with the issue. It's
8	away from the use of commercial concentrates towards	8	BHCT0000501, and it's an Eastern Health and Social
9	a greater use of NHS products.	9	Services Board memo dated 25 October 1984. It says:
10	I think that's probably all that we can glean	10	"Supply of Blood Products.
11	from that document.	11	"It has been agreed that with effect from
12	SIR BRIAN LANGSTAFF: It actually says that there's enough	12	1st December 1984, all of the blood products as
13	NHS product to cover everyone's needs.	13	identified on the attached schedule must be obtained
14	MS RICHARDS: Yes, it does, yes. Whether that is relating	14	from the [Northern Ireland] Blood Transfusion Service
15	solely to Scottish or a combination of Scottish and	15	and none should be purchased or obtained by a UMG
16	BPL product is unclear. Or unclear from this letter	16	directly. Local arrangements should be negotiated
17	at least.	17	with Dr McClelland, Director, Blood Transfusion
18	Sir, there are a small number of other	18	Service."
19	documents to look at on the issue of the arrangements	19	The difficulty is we don't have the schedule
20	with Scotland but we can perhaps do that after lunch.	20	and we're not currently certain what a "UMG" is. But
20	SIR BRIAN LANGSTAFF: We'll take a break until 2 o'clock.	20	it appears there was some local change in arrangements
22	(1.03 pm)	21	from December 1984. It doesn't appear that Dr Mayne's
22	(Luncheon Adjournment)	22	role was thereby rendered redundant in any sense and
24 25	(2.00pm)	24 25	she certainly appears to regard herself as being
25	MS RICHARDS: Before I deal with the last couple of	25	primarily the responsible person for treatment policy
	105		106
1	and choice of product.	1	indeed the total stock situation within the SNBTS is
2	SIR BRIAN LANGSTAFF: It was this change that I had in	2	at present very healthy and I wonder if there is some
3	mind but you're right, it doesn't necessarily answer	3	specific reason why the exchanges with Belfast are
4	the questions.	4	still necessary and obviously I am concerned that
5	MS RICHARDS: So then just returning to the position in	5	there may be some difficulty in our local supply
6	relation to the arrangements with Scotland, if we	6	situation which I am not aware of."
7	could go to LOTH0000005_071, so as well as the overall	7	
0	-	1	Then if we go to Dr Ludlam's reply, it's
8	arrangement that we've seen, which was upon	8	LOTH0000005_065. It's a letter dated 11 January 1984
9	introduction to the pro rata distribution system	9	from Dr Ludlam to Dr Brian McClelland:
10	Northern Ireland started to send plasma for	10	"Thank you for your letter of 30th December,
11	fractionation in Edinburgh and receive the Edinburgh	11	about exchanges of commercial factor VIII with
12	product in return, there's an exchange of	12	Belfast. The exchange was agreed early in 1983
13	correspondence which shows a time-limited other	13	because at that time SNBTS factor VIII was in very
14	arrangement. This is a letter from Dr McClelland of	14	short supply. The first part of the exchange arrived
15	the Edinburgh and South East Scotland Regional Blood	15	shortly after the negotiations and at the time SNBTS
16	Transfusion Service, to distinguish it from Northern	16	material markedly improved. The material that has
17	Ireland, to Dr Ludlam. It says:	17	arrived recently just completes the exchange. As
	"Peter Braynion just pointed out to me that we	18	I understand it, we are now quits with Belfast."
18		19	So it appears that, as it were, on top of the
19	are continuing to receive substantial deliveries of		
	are continuing to receive substantial deliveries of PFC Factor VIII from Belfast. I was indeed aware that	20	overarching arrangement as between Northern Ireland
19	-	20 21	overarching arrangement as between Northern Ireland and the PFC in Edinburgh for the supply of plasma for
19 20	PFC Factor VIII from Belfast. I was indeed aware that		
19 20 21	PFC Factor VIII from Belfast. I was indeed aware that you had on one occasion made an exchange with	21	and the PFC in Edinburgh for the supply of plasma for
19 20 21 22	PFC Factor VIII from Belfast. I was indeed aware that you had on one occasion made an exchange with [Dr Mayne] for some commercial Factor VIII which you	21 22	and the PFC in Edinburgh for the supply of plasma for fractionation, there was agreed in 1983 between
19 20 21 22 23	PFC Factor VIII from Belfast. I was indeed aware that you had on one occasion made an exchange with [Dr Mayne] for some commercial Factor VIII which you had previously purchased but I did not know that the	21 22 23	and the PFC in Edinburgh for the supply of plasma for fractionation, there was agreed in 1983 between Dr Ludlam and Dr Mayne, directly, an arrangement

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1	Factor VIII. And the explanation for it is what we
2	see set out there.
3	SIR BRIAN LANGSTAFF: It's not really an explanation of
4	why it happened but I understand there may have been
5	a shortage in Scotland, an anticipated shortage at any
6	rate, that Professor Ludlam was keen to maintain all
7	his patients so far as he could on locally donated
8	product. That same could not be true of Northern
9	Ireland because there had been a variety of products
10	used; hence his saying, "Well, if you send me back
11	some of mine, I'll give you some of my commercial."
12	MS RICHARDS: Yes. Whether that resulted in a further
13	spread of different commercial concentrates being used
14	for individual patients in Northern Ireland in 1983 is
15	a matter of speculation but it could have been
16	a consequence of that.
17	So one can see what Dr Ludlam had to gain from
18	the arrangement, to put it colloquially. It's less
19	clear what Dr Mayne might have had to gain from the
20	arrangement because she was giving up NHS in favour of
21	commercial.
22	SIR BRIAN LANGSTAFF: Yes, that was the year that quite
23	a lot of Factor VIII, Armour Factor VIII, started to
24	be used
25	MS RICHARDS: It was, yes.
	109

1	"Our calculations indicate that these
2	quantities will provide approximately 1 month's supply
3	for each region and will be despatched to Belfast [and
4	then various Scottish Centres] by Red Star delivery on
5	10 or 11 December."
6	Then the reference is there to what would be
7	supplied to Edinburgh and Glasgow:
8	"Following this initial supply of heated
9	product, plans are in hand to supply quantities of
10	heated product to each RTC equivalent to twice the
11	min/max stock level to take account of the need to
12	replace domestic and blood bank stocks. This phase
13	will commence in the latter half of the week beginning
14	10 December and should be complete before Christmas,
15	and should enable continuous supplies of heated
16	product to be made available to patients after
17	10 December."
18	Over the next page:
19	"In the New Year, PFC will arrange for
20	non-heated product to be collected from RTCs and
21	I would request you make arrangements for this
22	material to be recalled as widely as possible in
23	preparation for this replacement programme.
24	Unfortunately, we have not achieved regional batch
25	dedication for the initial deliveries although this
	111

1	SIR BRIAN LANGSTAFF: in Belfast. I don't know if that			
2	was the product that was sent over or not.			
3	MS RICHARDS: We don't know. At least not from the			
4	documentation we've seen so far.			
5	SIR BRIAN LANGSTAFF: Yes.			
6	MS RICHARDS: Just then completing the picture in relation			
7	to arrangements with Scotland and moving to the supply			
8	of heat-treated products, if we go to it should be			
9	PRSE0002675, I think. This is a letter			
10	6 December 1984. It's from Dr Perry and it's			
11	addressed to "Transfusion Directors" but it sets out			
12	what's going to be supplied in terms of heat-treated			
13	product. So it's headed "Heat treated Factor VIII":			
14	"I have learnt today that the first infusions			
15	of our dry heated [Factor VIII] were successful in			
16	Edinburgh although we are yet to receive the recovery			
17	and half life data on the one recipient patients. In			
18	the realistic anticipation that this data will be			
19	acceptable I have made arrangements for the first			
20	batches of [Factor VIII] to be despatched to RTCs			
21	[that's Regional Transfusion Centres] as follows."			
22	Then we can see there the reference to Belfast.			
23	So there's an anticipated supply of 661 vials of			
24	heat-treated Factor VIII from Edinburgh to Belfast.			
25	And then in the paragraph below he says:			
	110			
1	will be achieved subsequently."			
2	So that was the plan in December. We don't			
3	know the precise date upon which heat-treated Scottish			

	1 1				
4	product began to be available in Belfast but				
5	SIR BRIAN LANGSTAFF: That would have been the product				
6	which was heat-treated in anticipation that the				
7	treatment would remove any HIV HTLV-III				
8	infectivity, but it had made no expectations of				
9	reducing the hepatitis risk.				
10	MS RICHARDS: That's right, sir, and you will recall that				
11	this was the subject of some questioning in relation				
12	to Professor Ludiam because of that was the product				
13	that was then used over the next period until				
14	a further product became available in Scotland and				
15	there was the question as to whether there should have				
16	been recourse to the BPL product.				
17	SIR BRIAN LANGSTAFF: Yes, because the Scots were roughly				
18	18 months behind England in introducing a product				
19	which was thought likely to reduce, and shown				
20	ultimately to reduce, the risk of hepatitis.				
21	MS RICHARDS: Yes. So it would seem from this that				
22	certainly in the early part of 1985 and you will				
23	recall Dr Mayne's completion of that survey for				
24	Professor Bloom reflects this at least by				
25	April 1985, the heat-treated Factor VIII concentrate				

112

INQY1000115\_0028

(28) Pages 109 - 112

1	that Dr Mayne is using is the concentrate supplied by
2	Scotland. Whether that changed and she was able to
3	access any BPL heated product over the following
4	months or 18 months or so is unclear.
5	There is then a discussion, and I don't.
6	
7	I think, need to go to all the documents, but there's
	a discussion in correspondence about the PFC's
8	intended production of their later product, Z8, and
9	there's correspondence which contemplates that
10	Dr Mayne may be asked to assist with the assessment of
11	that in November 1986.
12	If we go to PRSE0000129, Soumik, and if we go
13	to it should be page 39 I think, the long document.
14	Yes, this is a letter, February 1988, from
15	Dr Mayne to Dr Perry at SNBTS, and it shows it
16	picks the picture up essentially from July 1987.
17	So she says in the second sentence:
18	"Treatment commenced"
19	That's the Z8 Factor VIII, which was dry heated
20	at 75 degrees for 72 hours, I think.
21	"Treatment commenced shortly after receipt of
22	Factor Z8 in July of last year. To date some
23	28 patients have been treated on many occasions with
24	7 batches. There's only been one adverse clinical
25	reaction"

#### 113

1	which Dr Mayne wrote to Dr Ludlam. It says:
2	"Thank you both [I'm not sure who the both are]
3	for coming over to Belfast last week. I do think that
4	the meeting was very worthwhile.
5	"The allocation for Scottish Factor VIII to
6	Northern Ireland is 1.8 million units per annum.
7	After our discussions with [and she identifies three
8	people of whom the third is the MLSO we've seen
9	referred to elsewhere] I feel it would be appropriate
10	and possible, on a short term basis to allocate
11	approximately 1 million units of the Northern Ireland
12	allocation to the Lothian Health Board. In return the
13	Eastern Health Board here should receive the
14	equivalent number of Factor VIII units in the form of
15	Profilate, for use in our Regional Centre."
16	Then there's a suggested date. And then she
17	says:
18	"However, I feel that our situation should be
19	kept under close review by both of us, because since
20	we met I have learnt that the supplies of Profilate
21	are likely to be in shortfall by the end of this
22	calendar year. Furthermore complications may arise
23	for this product or indeed a safer product may become
24	available. Therefore it would be unwise to be
25	obtaining more than monthly supplies of Profilate."
	115

1	Then there's details of that particular			
2	clinical reaction which was someone in the Children's			
3	Hospital developing "clinical jaundice and blood			
4	results in keeping with non-A non-B hepatitis".			
5	There are later letters I don't propose to			
6	go into the detail of the individual patient's			
7	position, but there are later letters which suggest			
8	that that patient in fact may have had an older			
9	generation product that hadn't been heat-treated to			
10	the same degree, and those documents are referenced in			
11	our note.			
12	So by '87, it would seem, a number of patients			
13	being treated with Z8, so the			
14	SIR BRIAN LANGSTAFF: From the middle of '87.			
15	MS RICHARDS: By the middle of '87, yes, by the later			
16	generation. Obviously, that 28 patients doesn't			
17	represent all of the patients within the Belfast			
18	centre.			
19	There is a further exchange of correspondence			
20	in '88 about another potential switch between NHS and			
21	commercial product between Dr Mayne and			
22	Professor Ludlam and, again, it may just be			
23	instructive to look at that.			
24	If we start with Dr Mayne's letter at			
25	NIBS0001762, this is a letter dated 26 September 1988			
	114			

1	And if we go over the page the letter				
2	continues:				
3	"I am happy for us to try this arrangement as				
4	long as the treatment of the children here and the				
5	small number of other patients is safeguarded. I have				
6	discussed this with John Carville and in the meantime				
7	we will run down our usage of NHS material and				
8	gradually change the home treatment over to				
9	Profilate."				
10	Then she says this:				
11	"It would be interesting to see the reactions				
12	of the patients to this change over and to see if the				
13	number of units consumed is reduced."				
14	Then there's reference to there being sludge				
15	left in some of the returned bottles which				
16	arrived with the MLSO for disposal.				
17	So the proposal is that, again, there will be				
18	essentially a swap and some of the Scottish NHS				
19	Factor VIII which would have been sent to Belfast will				
20	be kept in Edinburgh, and in exchange Edinburgh will				
21	provide Profilate to Dr Mayne.				
22	There's one further letter in which this is				
23	discussed again				
24	SIR BRIAN LANGSTAFF: There's also the implicit suggestion				
25	there that the patients will not have been asked in				
	116 (29) Pages 113 - 116				

(29) Pages 113 - 116

1	advance. It is going to be given to them and they			
2	wait to see what their reaction is.			
3 4	MS RICHARDS: Yes, there doesn't appear to be any			
4 5	suggestion of an element of choice. SIR BRIAN LANGSTAFF: No. There's an element of using the			
6	patients to an extent as guinea pigs. I don't mean in	5 6		
7	the sense of having a different treatment but in the	7		
8	sense of having a different product.	8		
9	MS RICHARDS: Yes.	9		
10	There's a letter that was written	10		
11	September 1988. There's a letter November 1988 to	10		
12	Dr Mayne to Professor Cash on the same issue at	12		
13	NIBS0001767, where she says this:	13		
14	"I understand from Dr Morris McClelland and	14		
15	Dr Chris Ludlam that you have been anxious to discuss	15		
16	the present somewhat ad hoc and interim arrangements	16		
17	regarding the exchange of NHS Factor VIII vis-a-vis	17		
18	Profilate. May I explain the situation to you as it	18		
19	has arisen.	19		
20	"On September 5, 1988, at the Reference Centre	20		
21	Directors meeting in London, Chris Ludlam indicated to	21		
22	me that there would be a shortfall of NHS material in	22		
23	Scotland and that it would be necessary to top up	23		
24	needs with commercial factor VIII. The Alpha product,	24		
25	Profilate, was mentioned. In view of the widespread	25		
	117			
1	to review it, eg its workability, et cetera, in	1		
2	January 1989. It was felt appropriate to try it out	2		
3	until the end of the financial year."	3		
4	Over the page:	4		
5	"I'm sorry to learn from Dr McClelland that	5		
6	there may be difficulties in carrying this out.	6		
7	Morris has suggested to me that you would like	7		
8	a letter sent from the Eastern Health and Social	8		
9	Services Board here to the CSA in Scotland, making	9		
10	a formal request for the arrangements to be carried	10		
11	out. I am reluctant to do this as I feel it would	11		
12	appear that I was requesting commercial factor VIII in	12		
13	preference to NHS factor VIII."	13		
14	Which is essentially exactly what was	14		
15	happening.	15		
16	"That is not the case. The arrangements were	16		
17	made purely and solely to try and produce the best	17		
18	therapeutic benefit for the most patients. However,	18		
19	it must be said that one or two patients here have a	19		
20	strong preference for the Scottish material and they	20		
21	are balanced by one or two who are delighted to	21		
22	commercial material in the form of Profilate, rather	22		
23	than to receive any donations from Edinburgh.	23		
24	"I look forward to having further discussions	24		
25	with you as soon as convenient."	25		
	119			

oou inqu	
1	discussions regarding alterations in immunological
2	tolerance in multi-transfused patients, I made
3	a suggestion to Chris. There exists in Scotland
4	children and other patients who have only been exposed
5	to the NHS donor population. They have never received
6	commercial concentrate at any rate. In Northern
7	Ireland up until 1985, all patients except children
8	were exposed to commercial factor VIII: therefore
9	I suggested to Chris that it might be worthwhile to
10	consider an exchange basis to enable all patients who
11	had never received other than NHS factor VIII to
12	continue to do. I would be happy to let them have my
13	allocation of NHS factor VIII, barring the needs for
14	the children here and one or two patients who were in
15	the same category as those in Scotland, namely never
16	exposed to commercial material. During the past few
17	years I have used Profilate for replacement therapy
18	during surgery, et cetera, and was happy to make some
19	arrangements which would be beneficial to the majority
20	of patients in both situations, ie Northern Ireland
21	and Scotland.
22	"Since September various discussions have taken
23	place between other Centre Directors and I understood
24	that there was no bar to this arrangement. It is not
25	envisaged on a permanent basis and indeed, one seeks
	118
1	So how that was resolved again is unclear, but
2	that was, again, further arrangements proposed between
3	Scotland and Edinburgh and Belfast for an exchange of
4	Scottish NHS material which would be retained
5	in Scotland and commercial material which would be
6	used in Northern Ireland.
7	In terms, then, of other products that were
8	used during the 1970s or first half of the 1980s,
9	we've seen reference in the annual returns to the use
10	of porcine Factor VIII, and the litigation report
11	prepared by Dr Mayne for the HIV litigation addresses
12	the use of porcine Factor VIII in more detail.
13	It's CBLA0000072_024. And if we go to page 10,
14	l think, Soumik yes.
15	So we can see in the first main paragraph she
16	refers to animal Factor VIII concentrates, sets out
17	a number of matters of the history in terms of their
18	usage. If we go further down the page, she refers
19	then, in 1981, to:
20	" a new polyelectrolyte fractionation
21	process [and we see that referred to in some of the
22	documents as the 'PE process'] for the production of
23	a pure porcine Factor VIII was developed."
24	She explains it was used to treat a patient
25	with a high responding inhibitor in 1981.
	120 (30) Pages 117 - 120

1	And the reference there is Mayne et al, so	1
2	used, I think, in Belfast.	2
3	"Further extensive experience was reported by	3
4	Kernoff et al	4
5	"The porcine material was found to be	5
6	efficacious to a high degree in patients whose	6
7	inhibitor was less reactive against porcine VIII than	7
8	against human VIII. Despite suitability, treatment	8
9	could not be continued indefinitely, due to the	9
10	development of refractoriness or the occurrence of	10
11 12	reactions. Many of the latter were mild, such as	11 12
13	slight chills or the occasionally skin rash but as with other treatments, a few patients developed asthma	12
14	attacks or anaphylaxis. However, some patients were	13
15	and are able to use the porcine Factor VIII for home	15
16	treatment. Its advantages are the lack of known viral	16
17	transmission and its disadvantages are its limited	17
18	suitability and the occurrence of side effects."	18
19	So that's Dr Mayne's views as expressed in her	19
20	May 1990 report about porcine Factor VIII, and we saw	20
21	its use from the annual returns, and there's a further	21
22	Speywood document I don't propose to go to it but	22
23	again the details are set out in our note which	23
24	record that Belfast was Speywood's largest customer	24
25	for porcine Factor VIII in 1983.	25
	121	
1	Then she sets out some perceived disadvantages.	1
2	Says it's not advocated in older patients and so on.	2
3	Again, we've seen from the annual returns DDAVP	3
4	is mentioned but comparatively infrequently. The	4
5	annual returns don't suggest it was being used to	5
6	a significant extent in Belfast.	6
7	She refers in the next paragraph to tranexamic	7
8	acid. So if we can go further down the page. The	8
9	paragraph beginning:	9
10	" female patients with the von Willebrand	10
11	syndrome"	11
12	Then she refers in the course of that paragraph	12
13	to the use of tranexamic acid and suggests that that	13
14	has a place in von Willebrand cases and in mild and	14
15	moderately affected haemophiliacs as well,	15
16	particularly in relation to dental care.	16
17	So that's the available evidence in relation to	17
18	other blood products sorry, other treatments,	18
19	non-blood products.	19
20	I should then just touch upon what Dr Mayne	20
21	says in relation to self-sufficiency as a topic. We	21
22	can pick that up, first of all, again in her	22
23	litigation report. I think we're already on that	23
24	document. It's CBLA0000072_024. Yes, it's a long	24
25	document, so let me just find the right page number.	25
	400	

It's also right to note that obviously it was being used predominantly for inhibitor patients, possibly solely for inhibitor patients, and Dr Mayne records elsewhere that Belfast had a relatively high number of patients with inhibitors. So that may reflect its fairly extensive usage within Belfast. Sticking with this report, Dr Mayne then goes on to talk about other products. So she refers in the next paragraph to FEIBA from Immuno and Autoplex from Baxter, and she says: "Many patients do respond to such treatment but it is not effective in all cases." And again we've seen both of those products featuring on the annual returns. Then in the next paragraph she refers to DDAVP, and she says, bottom of the page -- towards the bottom of the page: "This agent has proven to be of value in treating patients with mild to moderate haemophilia or the von Willebrand syndrome. It is administered by slow intravenous injection and a fourfold rise in the level of Factor VIII can be expected above the starting basal level. Such response is sufficient to allow the performance of dental or minor surgery without recourse to plasma products."

1	I think it's probably page 20, Soumik. Go to			
2	the next page. Yes.			
3	So under the heading, "The economics of			
4	self-sufficiency", Dr Mayne sets out, if you go			
5	further down the page, towards the end of the first			
6	long paragraph, in the last five or six lines of this			
0 7	paragraph she says:			
, 8	"Sustaining self treatment was and is costly in			
9	terms of Factor concentrate purchase but hospital			
0	savings were and are substantial."			
11	So she is suggesting an economic benefit to			
12	self-sufficiency. And says in the next paragraph,			
3	picking it up three lines down from the top:			
4	"Thus the accrued savings from decreased			
5	hospitalisation, from non-payment of social services			
6	benefits for patients in gainful employment need to be			
17	balanced against the capital and revenue expenditure			
8	required to achieve self sufficiency status and the			
9	outlay for purchase of Factor concentrates."			
20	Then, over the page, she talks about the stance			
21	of the UK Haemophilia Centre Directors at their annual			
22	general meetings towards the issue of			
23	self-sufficiency.			
24	She says that at the earliest of their annual			
25	general meetings, 1969 onwards			
	124 (31) Pages 121 - 124			
	(0.)			

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22

23

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		leu bivv	
1	SIR BRIAN LANGSTAFF: Just pause there for a moment.	1	
2	Just puzzling over the economics there, because	2	
3	what she's referring to, if we go back a page, and	3	
4	looking at the bottom, the study by Schimpf, this	4	
5	requires a patient to be treated. The issue		
6	economic issue for self-sufficiency is whether the	6	
7	costs of providing it within the nation state are less	7	
8	than the overall costs of bringing it in, but there's	8	
9	no question about not having treatment. In other	9	
10	words, the money you save by having someone fully	10	
11	working is saved anyway. It's not a choice between	11	
12	commercial product or self-sufficient product, is it?	12	
13	MS RICHARDS: No. I mean, I'm simply reading Dr Mayne's	13	
14	words, sir	14	
15	SIR BRIAN LANGSTAFF: No, I know, I'm just commenting on	15	
16	the logic because it just suddenly struck me. But	16	
17	it's not really an argument.	17	
18	MS RICHARDS: Yes.	18	
19	SIR BRIAN LANGSTAFF: However, that's what she's putting	19	
20	out here.	20	
21	MS RICHARDS: It's the view she was expressing in 1990.	21	
22	SIR BRIAN LANGSTAFF: Yes. Well, it's a viewpoint which,	22	
23	at the moment, I'm struggling to see that it does	23	
24	actually make a valid point. This part of it.	24	
25	MS RICHARDS: Over the page she then sets out the	25	
	125		
1	not be precise as on occasions Haemophiliacs were and	1	
2	still are treated periodically outside the recognised	2	
3	Haemophilia Centres, thus, with loss of data to the	3	
4	records. However, they do illustrate the clearcut	4	
5	trends of treatment."	5	
6	And then she refers to various published	6	
7	estimates from Biggs in 1978 onwards.	7	
8	If we go to the next paragraph, she talks about	8	
9	other so apart from estimation of need, which she's	9	
10	identified as a problem:	10	
11	" other problems concerned the producers in	11	
12	the plasma fractionation centres in Oxford, Elstree	12	
13	and Scotland. They concerned source plasma in respect	13	
14	of quality and quantity, the changing technology	14	
15	necessary to improve the purity of product, the	15	
16	availability of manufacturing facilities and necessary	16	
17	organisational changes."	17	
18	So in the next paragraph she talks about the	18	
19	need to introduce modifications into blood transfusion	19	
20	practice to increase quantity of plasma available.	20	
~ ~	The set of	<u>.</u>	

21Then if we go over the page, picking it up in22the second paragraph, she refers to the Haemophilia23Centre Directors during 1974 expressing further24anxiety regarding self-sufficiency, feeling the25Department of Health were slow to realise the full

perspective of Haemophilia Centre Directors in relation to self-sufficiency. She talks about it having been reflected on and discussed constantly at UKHCDO annual general meetings. She says that: "Self-sufficiency was and still is a desirable goal but achievement is easier in theory than in practice." She says: "Different problems affected treaters, consumers and producers." And then this: "The treaters had difficulty in making accurate forward estimates of the need. Treatment efficacy caused consumer demands to ever multiply." Then she explains the shift from responding to emergency bleeding episodes through self-treatment programmes, elective surgery and the like. If we go to the bottom of the page, it refers to the collection of statistics in Oxford and says in the last few lines: "The figures are not absolute, they do not represent each and every unit of Factor VIII given as treatment in any one year. Inevitably over the years a minority of treatment centres were tardy in submitting data and indeed the submitted figures may 126 implications of non-achievement of self-sufficiency. Reference to concerns about the scaling up of production. Bottom of the page, she says: "Towards the end of 1975 ..." You will see there, sir, a paragraph number, and there are various paragraph numbers referred to throughout this report. They are references to one version of the Statement of Claim in the HIV litigation which she's commenting on. So she says: "Towards the end of 1975 ... it was suggested that Scotland could supply more Factor VIII to aid the self-sufficiency programme. However, during prolonged subsequent negotiations it transpired that shift system of staffing would be necessary to render the suggestion operational. Such arrangements were unacceptable to trade union policies, then in operation, thus causing further delays in a possible field of improvement. Other highlighted difficulties were in the collection, transport and delivery of plasma to the plasma fractionation centre in Edinburgh." You see in brackets that's said to be based upon personal recollections, ie her own recollections, of discussions at the time. 128

(32) Pages 125 - 128

1	Then in the next paragraph she deals with	1	And then she says it's recognised that the
2	financial input and says:	2	supply of volunteer donors is not inexhaustible.
3	"If the organisational difficulties and plasma	3	So those were Dr Mayne's observations in what
4	supply problems were to be set aside, the fiscal	4	was obviously a report, an expert report, prepared at
5	element in the achievement of self-sufficiency then	5	the request of the Department of Health in the HIV
6	becomes the most pertinent problem. If the Department	6	litigation.
7	of Health had provided further financial support at	7	In terms of her more recent reflections in her
8	an earlier time, would this have accrued significant	8	witness statement, if we could turn to WITN0736009.
9	patient benefit? The reply is probably in the	9	If we could go to I think it's page 59, Soumik.
10	affirmative."	10	Yes.
11	Is her view. She then gives the example of the	11	So she was asked further questions about her
12	Netherlands and the overall HIV infection rates there,	12	views on self-sufficiency, in particular in light of
13	and notes that 75 per cent of the blood product used	13	what she'd said in the HIV litigation report. And at
14	there was obtained from domestic volunteer donors.	14	the top of the page you will see she says:
15	"In respect of the numbers of Haemophiliacs	15	"In the early to mid-1970s discussion rotated
16	needing treatment in the [UK], could scaling up of	16	around the financial and practical difficulties in
17	production, et cetera have been achieved sufficiently	17	upgrading the facilities at Elstree and at Oxford but
18	rapidly to achieve a similar result?"	18	I do not remember precise details."
19	Then her answer is this:	19	Then she says:
20	"Instinctively the treaters of the Haemophiliac	20	"From and around this time self-sufficiency was
21	patients would feel it to be likely but it is by no	21	a constant item on the agenda. However, it seemed to
22	means certain."	22	me that haemophilia generally and self-sufficiency in
23	So whether feeling it to be likely is to be	23	particular was a low priority for Government. As soon
24	equated with likely as distinct from certain is not	24	as the representative from the Department of Health
25	entirely clear from this.	25	became knowledgeable and was sympathetic towards the
	129		130
1	problems of haemophilia, they seemed to be deployed	1	never became self-sufficient in NHS concentrate. The
2	elsewhere."	2	aforesaid arrangements were put in place as it was
3	Then if we go towards the bottom of the page,	3	unrealistic to establish a plasma fractionation unit
4	she says at paragraph 96.3:	4	in Northern Ireland."
5	"Supply of factor concentrates became the issue	5	She then refers in the next paragraph to two
6	once they [were] commercially available."	6	documents, both of which we've looked at in the course
7	And then she says this and again, sir,	7	of the morning.
8	whether this is consistent with what the other	8	Then if we go to page 65 and we pick it up in
9	documentary evidence suggests is a matter for you, but	9	paragraph 104.1, she says:
10	she says in this statement:	10	"Northern Ireland was self-sufficient in the
11	"In order to meet the Centre's need for	11	supply of cryoprecipitate at all times. However,
12	Factor VIII I endeavoured to procure as much NHS	12	supplies of NHS concentrate were never sufficient to
13	concentrate as possible. There were three sources of	13	meet demand. We received limited quantities of
14	NHS concentrate BPL at Elstree, Oxford Fraction	14	concentrate from Elstree and Oxford, although this was
15	Centre, and SNBTS Edinburgh."	15	largely on the basis of the good relationship I had
16	And then she refers in the next paragraph to	16	with Dr Lane and Drs Bidwell and Grant respectively.
17	the arrangement put in place with Edinburgh.	17	From 1982, Northern Ireland had an arrangement with
18	"In 1982 it was arranged that plasma from	18	SNBTS for the supply of NHS concentrate from PFC. The
19	[Northern Ireland] donors be sent to Edinburgh SNBTS.	19	amount of NHS from PFC increased in the following
20	An appropriate reciprocal amount of NHS concentrate	20	years. I am unable to say at this time what
21	would be returned to Belfast. Doing the best I can to	21	proportion of concentrate used in the Belfast Centre
22	recall, initially the NHS supply of concentrate was in	22	was NHS concentrate. The remainder was from
23	the order of 10 per cent of the amount used. Over	23	commercial concentrates. I would add that I believe
24	time this increased significantly, but I am unable to	24	the NHS suppliers did an excellent job with the
25	be precise. It is true to state that Northern Ireland	25	limited resources they had."
	131		132 (33) Pages 129 - 132

30 March 2021

1	Then she was asked in the next question whether	1	written note.
2	she thought a significant contributory factor was	2	The position in terms of recombinant appears to
3	a failure to provide accurate and timely estimates of	3	be, in terms of the Dr Mayne era, that by
4	future demand. And of course that was one of the very	4	February 1997 children and/or previously untreated
5	points she had made in the HIV litigation report.	5	patients in Northern Ireland were receiving
6	However, her response in this statement is to say:	6	recombinant.
7	"I disagree with this statement. I think it is	7	The more up-to-date position, in the years that
8	difficult for those not involved at the time to	8	followed Dr Mayne's retirement, are dealt with in the
9	appreciate fully the monumental task of providing	9	statement of Dr Julia Anderson and can be picked up
10	estimates. The difficulty of doing so and keeping	10	with Dr Benson later this week.
11	your own clinical work going was great. I do not	11	I'm therefore going to turn now, sir, to the
12	believe that I, or other clinicians, could have done	12	knowledge of risk of viral infection in
13	more. I consider the estimates were as good as they	13	Northern Ireland, and in particular on the part of
14	could be given the variables that inevitably arise in	14	Dr Mayne and others concerned with the haemophilia
15	the treatment of haemophilia."	15	centre, both in relation to hepatitis and HIV, and I'm
16	So those are some of Dr Mayne's reflections in	16	going to deal with those separately and start with the
17	1990 and in 2021 on issues relating to	17	issue of hepatitis.
18	self-sufficiency both generally and as they more	18	If we begin with what Professor Bridges says in
19	directly pertain to Northern Ireland.	19	his statement about his perspective, it's at
20	Sir, we have in our written note also set out	20	WITN4569001, and he says, if we go to I think it's
20	various matters relating to usage of high purity	20	page 7. He says at the top of the page:
21	products in the late 80s and early 90s, and then the	22	"I became aware of the risks of hepatitis
23	introduction of recombinant. I'm not proposing to	22	associated with the use of blood and blood products
23	deal with those now orally but we have all the	23	but I am not sure of the exact time. I do not recall
24 25	references I think that are relevant set out in our	24	
20		25	being aware of the risks of [non-A, non-B] hepatitis
	133		134
1	in the 1970s. I would have thought that I would have	1	children with cryoprecipitate [that's the 1960s and
2	been aware of the risk of [non-A, non-B] hepatitis	2	1970s, up to 1979] and therefore there was no
3	really from the mid-1980s onwards."	3	discussion with parents about risks."
4	Sir, whether that's right or not would be	4	So that is Professor Bridges' current
5	a matter for your judgment but it seems that that may	5	recollection. If we go to PRSE0002268, you will see
6	be likely to be a failure of recollection, given	6	these are the minutes of a meeting of Haemophilia
7	everything else we know about knowledge of hepatitis	7	Centre Directors in January 1977. If we just go
8	in the course of the 1970s.	8	a little further down the list of attendees, we can
9			see that Dr Bridges was there, representing Royal
	In the next paragraph he says his understanding	9	
10	was that:	10	Victoria Hospital Belfast. And if we go over the
11	"Commercial products carried a greater risk [of	11	page, we will see, five names up from the bottom
12	infection] because they were sourced from multiple	12	no, next page, sorry that Dr Mayne was also present
13	donors, including higher risk groups such as drug	13	at this meeting.
14	addicts and others."	14	Then if we go to page probably page 10
15	So that's Professor Bridges in his statement.	15	electronically, Soumik. Yes.
16	Sorry, I should perhaps just also refer I think	16	We can see the bottom of the page:
17	it's probably the bottom of page 11, Soumik.	17	"Study of Hepatitis in Haemophilic Patients
18	My pagination's gone awry. Yes, bottom of the page.	18	(Dr Craske):
19	He was asked about what information was	19	"Dr Craske presented a written report to the
20	provided to patients. He says about risks of	20	meeting and outlined the findings detailed therein.
21	infection.	21	371 patients receiving Hemofil had been followed up.
22	He says:	22	Only 1 death was possibly attributable to Hepatitis B.
23	"I was not involved providing information of	23	Dr Craske suggested a special study of patients with
24	this nature to patients. The risk of hepatitis was	24	factor VIII antibodies who may receive large doses of
25	not widely known during the time I was treating	25	concentrates. Dr Craske said he would like to
	135		136 (34) Pages 133 - 136

136

1	continue with his study over the next two years.	1	We can start with HCDO0001014.
2	'This continued study would include a follow up of	2	So this takes us all the way back to April of
3	patients who had had Hemofil associated hepatitis to	3	1971 and we can see Dr Mayne in attendance. She's the
4	study the incidence of chronic sequelae, and	4	fourth person there listed. It's a meeting of the
5	a comparison of jaundice associated with NHS	5	Haemophilia Centre Directors held in Oxford.
6	Factor VIII and commercial products'."	6	If we go over the page, we can see halfway down
7	Then there's a discussion that then continues	7	the page Dr Biggs is giving a short summary of
8	about difficulties of identifying causal agents and	8	a report on the incidence of jaundice and inhibitors
9	distinguishing between hepatitis B and non-B	9	in haemophilic and Christmas disease patients treated
10	hepatitis.	10	during 1969, and then there are various actions set
11	So we can see, whatever Professor Bridges'	11	out, including requests for directors to send figures
12	recollection now, and obviously he is being asked	12	about Australia antigen to her.
13	about events a number of years following his	13	If we look towards the bottom of the page
14	retirement, this is just one example of a meeting at	14	there's a proposal for publication of the report.
15	which he was present at which there was an active	15	Then, over the top of the next page, records to be
16	discussion about the instance of hepatitis as a result	16	kept and sent to Oxford, including records of those
17	of concentrate usage.	17	who develop jaundice.
18	Turning then to Dr Mayne and Professor Nelson,	18	Then if we go towards the bottom of this page
19	indeed in their attendance at meetings, I'm going to	19	there's a discussion under the heading "Hepatitis and
20	spend a little time, sir, going through the various	20	Australia antigen":
21	meetings that occurred throughout the 1970s to pick up	21	"The discussion centred on the incidence of
22	on various discussions about hepatitis to see what one	22	Australia antigen and antibody in the haemophilic
23	could realistically and reasonably expect those	23	population and the precautions which should be taken
24	clinicians working at the Belfast haemophilia centre	24	to prevent the spread the infection in the wards and
25	to have known and understood.	25	among laboratory staff handling blood samples."
20	137	20	138
	101		100
1	Then there's a reference to Dr Maycock	1	unfortunately his serum has remained positive for the
2	explaining that donor blood would in due course be	2	[Australia] antigen, which means that he is
3	screened for Australia antigen but in the meantime the	3	a potential hazard as a source of infection to other
4	possibility of infection remained.	4	people."
5	So there's one early discussion which Dr Mayne	5	We see from the next paragraph Professor Nelson
6	would have been party to, early 1971, picking up on	6	and Dr Mayne are recorded as interviewing him and
7	the risks in relation to hepatitis B.	7	advising him it would be inadvisable to continue
8	We can see if we look at just some bits and	8	nursing because of the risk of him infecting seriously
9	pieces of correspondence, again issues related to	9	ill or immuno-suppressed patients.
10	hepatitis B being raised in relation to Belfast	10	So there's hepatitis B as a result of
11	patients. So if we go to BHCT0000768, this is	10	Factor VIII concentrates in May of 1972 being
12	a letter from Dr Mayne to the matron at the Royal	12	considered by Dr Mayne and Professor Nelson.
13	Belfast Hospital for Sick Children. It's dated	13	There's a further letter at BHCT0000757. This
14	12 January 1973 and it's in respect of a particular	13	is 27 March 1975. If we to the next page sorry,
15	patient. And we see from the first paragraph it is	15	the document is in reverse order again.
16	someone who commenced nursing studies during	16	So we can see the date, 27 March 1975, and it's
17	August/September 1972 at the Children's Hospital:	17	a letter from Dr Mayne to it's probably the GP:
18	"You may remember that he developed jaundice	18	"The above patient, who suffers from severe
10	shortly after commencing his preliminary training.	19	haemophilia, whose blood contains Australia antigen
20	This proved to be due to the Australia antigen he	20	and who has an inhibitor to Factor VIII, was admitted
20			
21	probably became infected during the time Intravenous Factor VIII concentrate was given to him in May 1972,	21 22	to the Haematology Unit on 8th February 1975" And reference there to a bleed.
22			
23 24	to cover his dental extractions. The hepatitis was of a mild nature but the liver enzymes remained abnormal	23 24	And then in the next paragraph: "During this admission, his liver function was
	a mild nature but the liver enzymes remained abnormal		"During this admission, his liver function was
25	for many months. This in itself was not alarming, but	25	assessed to try and discover the damage being caused
	139		140 (35) Pages 137 - 140

144

1	by the patient's infective hepatitis."	1	So that's again, we see hepatitis
2	Then the liver results are there set out. I'm	2	essentially is an issue on the agenda at almost every
3	not going to go to the detail of them but we can see	3	UKHCDO meeting in the course of the 1970s. So that's
4	there, again, hepatitis B and its effect upon liver	4	1972. We can go next to January 1974. That's
5	function in the active contemplation of Dr Mayne.	5	CBLA0000187.
6	If we then look at various other UKHCDO	6	So we looked at this meeting this morning for
7	discussions in the course of the 1970s, we start with	7	different purposes. It's the joint meeting of
8	HCDO0001015. We can see the minutes of Haemophilia	8	Haemophilia Centre Directors and Blood Transfusion
9	Centre Directors meeting 27 October 1972. The list of	9	Directors, 31 January 1974.
10	attendees, we can see the line currently at the bottom	10	If we go over the page we can see the second
11	of the screen includes Professor Nelson.	11	name listed is Dr Mayne, there recorded as
12	If we go over the page we can see in the bottom	12	representing Professor Nelson, Belfast Haemophilia
13	half of the page there's further discussion about	13	Centre. And we can see again, if we look at the next
14	Dr Biggs' survey and the collation of data about the	14	page, further discussion, top half of the page, about
15	incidence of jaundice. Then if we go two pages	15	the collection of data in relation to jaundice, and
16	further on, we see a discussion about report on the	16	Dr Biggs urging directors to return that data to
17	progress with a survey of Australia antigen in house	17	Oxford. And in the second half of the page is
18	contacts and relatives of haemophiliacs. So that's	18	a report on the progress of the survey of Australia
19	a particular study being undertaken by Dr Ingram.	19	antigen in the household contacts of haemophiliacs.
20	There is also a reference here I don't know	20	We can then pick the UKHCDO meeting up towards
21	if I've got a note of it about laboratory	21	the end of 1974, at HCDO00001017. Sorry, HCDO0001017.
22	precautions to be taken to protect staff. I'll come	22	So this is the meeting of Haemophilia Centre
23	back to that if I can find it. I think it's in the	23	Directors in Oxford on 1 November 1974. Now it's
24	course of this meeting that it's discussed. If not,	24	right to note that nobody from Belfast was in
25	it may be in one of the later ones.	25	attendance physically at that meeting. Apologies for
	141		142
1	absence were received from Professor Nelson, but	1	Then there's a reference to some patients
2	presumably the minutes would have been circulated at	2	having hepatitis A, some hepatitis B. Then the next
3	some stage. Albeit I should in fairness if we go	3	paragraph says:
4	to the very top of the page point out you see the	4	"Dr Rizza said that since January 1974 there
5	words "Revised July 1975" at the top of the page, and	5	had been 11 episodes of hepatitis in Oxford patients,
6	there is some evidence to suggest that minutes were	6	9 of these patients had received commercial
7	frequently sorry, not infrequently sent out some	7	concentrates but all of them also had NHS concentrate
8	months after the meeting.	8	and it was not easy to identify the material which had
9	So this may not have come to Professor Nelson's	9	caused the jaundice. Neither was it easy to determine
10	or Dr Mayne's attention speedily but you may wish to	10	the incubation periods."
11	consider whether you infer that the minutes would have	11	Then there's a discussion about the problems
12	come to their attention at some point.	12	arising from the use of therapeutic materials which
13	If we go to page 4, bottom half of the page	13	might be contaminated with various hepatitis viruses.
14	sees Dr Biggs presenting results now for 1973 in the	14	And I'm not going to go through all of it, but if we
15	study of jaundice. And again, top of the next page,	15	go over the page we can see the discussion continuing,
16	Dr Biggs urging directors to make returns of the data.	16	and about ten lines down from the top we see Dr Biggs
17	Then we see this: "Report on Jaundice following	17	saying:
18	treatment with commercial Factor VIII", and there's	18	" it was not yet proved that the commercial
19	a report by Dr Craske and this is of the Bournemouth	19	factor VIII was much more dangerous from the point of
20	outbreak:	20	view of causing hepatitis than other preparations and
21	"Dr J Craske of the Public Health Laboratory,	21	that she hoped that this material would not get
22	Poole General Hospital, made a report on an epidemic	22	an unnecessarily bad name. It was in fact clinically
23	of Hepatitis A and B in the haemophilic patients in	23	invaluable while the NHS supply was so limited.
24	Bournemouth who had received one particular batch of	24	Dr Craske agreed with this but said that he felt that
25	commercial factor VIII."	25	a wholly NHS concentrate was likely to be safer when
	143		144 (00) During 444, 444

(36) Pages 141 - 144

			quiny
1	that was available."	1	see D
2	And then there's reference to Dr Craske	2	
3	undertaking to draw up a plan to study the incidence	3	there,
4	of various types of hepatitis at different centres.	4	and F
5	In fact, I found the reference to the	5	a pap
6	laboratory staff in this document.	6	1974,
7	So there's a discussion at the bottom of the	7	being
8	page about the survey of Australia antigen in	8	hepat
9	household contacts of haemophilic patients.	9	
10	If we go to the next page, picking it up four	10	hepat
11	lines down we see a reference to:	11	to the
12	"Dr Waiter [that's the DHSS official attending	12	was fe
13	the meeting] said that the DHSS felt that in	13	[Liver
14	laboratories specimens that were likely to be antigen	14	that L
15	positive should be identified and staff made aware of	15	and n
16	the risks. This topic had been raised by Professor	16	
17	Nelson who was unable to be present at the meeting."	17	can se
18	So it was a particular issue that	18	a disc
19	Professor Nelson from Belfast had raised in relation	19	pool s
20	to the risk of staff becoming infected with	20	discus
21	hepatitis B.	21	was d
22	If we then go to OXUH0003735, we can see these	22	the co
23	are the minutes of a meeting of Haemophilia Centre	23	pools
24	Directors on 18 September 1975, and if we look at the	24	proba
25	list of attendees, if we go a little further down, we	25	greate
	145		
1	then continues.	1	devel
2	If we go to page 9, we then see half way down	2	
3	the page a heading, "The proposed pilot study of	3	
4	hepatitis in haemophilic patients":	4	is the
5	"Dr Craske said that he hoped to continue his	5	that m
6	study of hepatitis in patients who had received	6	to the
7	Hemofil."	7	occas
8	Just pausing there. Of course, as we've seen,	8	meeti
9	Hemofil was a main product in use in Belfast, so one	9	but we
10	might expect that issues about hepatitis in patients	10	study,
11	receiving Hemofil would be a particular interest to	11	<b>,</b>
12	the Belfast clinicians.	12	has b
13	There's reference then to Dr Kirk introducing	13	hepat
14	a paper on a proposal to study the incidence of	14	
15	hepatitis in haemophilia patients, and we see details	15	Austra
16	there set out. It's based at Treloars, Newcastle and	16	that.
17	Oxford.	17	and (c
18	Then over the page, three lines down it says:	18	,
19	"There was some discussion about the collection	19	hepat
20	of samples for LFT and virus testing. It was felt it	20	hypoti
21	was important to arrange for as many tests as possible	21	
22	but it was also felt that frequent testing of	22	[Austr
23	patients, particularly those on home therapy, could be	23	L. Jereel
24	difficult. Therapeutic material should be saved for	24	respo
25	virus testing in case new types of test were	25	

Dr Bridges present, representing Belfast. If we then go to page 4, we see the heading e, "Progress of the Directors study of Jaundice Factor VIII Antibodies". There's presentation of per by Dr Biggs looking at statistics from 1969 to , and then the next paragraph refers to there g a full discussion about the incidence of atitis and the problem of anicteric cases: "Professor Stewart thought that the cases of atitis should be more precisely defined according e criteria on which the diagnosis was made. It felt that future statistics should include LFT er Function Test] results ... though others felt LFT results were often difficult to interpret ... not all Centres carry out routine LFTs." Then if we go just a few lines further down we see, six lines up from the bottom of the page, scussion about pool sizes. The influence on the size of material used for fractionation was ussed. Professor Ingram said that NHS Factor VIII derived from pools of 500 to 750 donations whereas commercial Factor VIII was often derived from s of 2,000 to 6,000 litres of plasma and that the ability of including an infected donation was ter with commercial Factor VIII. The discussion 146

eloped." So that's the 1975 discussions. If we then just look at CBLA0000312. So this e paper that was described as being circulated at meeting. So again, a paper that would have come e attention of Belfast clinicians on this ision through Dr Bridges' attendance at the ting. Then I won't go through the detail of it, we can see it's the protocol for the prospective y, and it says this in the introduction: "The transfusion of blood or its derivatives been linked with the transmission of viral atitis for many years." And then it talks about the discovery of the ralia antigen and matters set out in relation to Then it says, just above paragraphs (a), (b) (c): "This failure to prevent post transmission titis may be explained by the following theses: "(a) That correct methods of detecting tralia antigen] are still not sensitive enough. "(b) That other known viral agents are onsible ..." Then: 148

(37) Pages 145 - 148

1	"(c) That other, as yet unknown viruses, cause	1	Furthermore, commercial factor VIII concentrates are
2	a significant amount of post transfusion hepatitis	2	made from very large pools of some 2,000-6,000 litres
3	which is supported by the recent work of Feinstone et	3	of plasma from paid donors. An outbreak of both
4	al."	4	non-'B' hepatitis and 'B' hepatitis associated with
5	SIR BRIAN LANGSTAFF: That publication was in the NEJM,	5	concentrates of this type has recently been reported
6	New England Journal of Medicine, I think, which, from	6	by Craske et al."
7	all the evidence we've heard, is one of the most	7	That's a reference to the 1975 publication in
8	commonly read reports by clinicians other than the BMJ	8	The Lancet of Dr Craske's write-up of his observations
9	and The Lancet.	9	in relation to Bournemouth, and it's the article
10	MS RICHARDS: Yes. It was in the New England Journal of	10	entitled "An outbreak of hepatitis associated with
11	Medicine published in 1975.	11	intravenous injection of Factor VIII concentrate".
12	SIR BRIAN LANGSTAFF: Yes.	12	So the risk there, both in terms of hepatitis B
13	MS RICHARDS: As we'll see, there's also a reference in	13	and non-B hepatitis, also known as non-A, non-B
14	this paper to the Prince publication in a perhaps	14	hepatitis, clearly being articulated here.
15	lesser well known journal, Transfusion and Immunology	15	Then the next paragraph says:
16	in 1975, but summarised and referred to in this	16	"It has been suggested by Prince"
17	document.	17	And that's the 1975 publication in Transfusion
18	We'll see that the next paragraph then talks	18	and Immunology.
19	about the particular issue of risk issues	19	" that recipients of all commercial blood
20	associated with large pool factor concentrates.	20	have a ten-fold higher risk of developing non-'B' post
21	Picking it up halfway down that paragraph, it says:	21	transfusion hepatitis [so non-A, non-B] than
22	"However, treatment with factor VIII	22	recipients of all volunteer donor blood."
23	concentrates does expose the patient to a much larger	23	And that's then the reason that's given for
24	risk of contracting transfusion hepatitis since the	24	conducting this prospective study of hepatitis.
25	fractionated product is processed from donor pools.	25	The rest of the paper then goes on to provide
	149		150
1	details about what the study will entail, but the	1	being collected regarding patients who are hepatitis B
2	evidence clearly shows that this was circulated at	2	carriers and some directors expressing concern about
2	that September 1975 meeting.	2	that.
4	If we then go to 1977.	4	Then the next paragraph:
5	PRSE0001002. Sir, these are the minutes of the	5	"There then followed a discussion of the
6	meeting of the Haemophilia Centre Directors,	6	advisability of liver biopsy in haemophiliacs. The
7	24 October 1977. If we go to page 3 we will see from	7	consensus was that each case must be considered
8	the list of attendees, bottom half of the page,	8	individually and in particular that the Hepatitis
9	left-hand column, that we have Professor Nelson from	9	Working Party should be informed of any such
3 10	Belfast. The apologies tell us that Dr Mayne was	9 10	patients."
10	invited but gave her apologies for her absence.	10	•
12	And then there's if we go to sorry, Soumik,	11	Of course, the very fact of there being even a discussion of liver biopsies in haemophiliacs would
12		12	tend to suggest that the risks of hepatitis and the
13	it's page 7, I think.	13	need to examine whether and to what extent there were
14	Bottom of the page, "Hepatitis Study", we see	14	chronic consequences from hepatitis was something that
	reference there to Dr Kirk presenting a report on		
16 17	behalf of Dr Craske. So this is now a report in	16 17	was taken seriously and regarded as an important issue for discussion.
17 19	relation to the progress of the study.	17	
18 10	And if we go two pages I think, Soumik, it's	18	So that's the 1977 meeting. It's right to note
19	going to be electronic page 19. It's page 10 using	19	that in the course of 1977 and 1978 the Hepatitis
20	the actual page numbers but we appear to have lots of	20	Working Party began to meet on a very regular basis.
21	blank pages in. That's it.	21	Now, nobody from Belfast was a member of the Hepatiti
22	Under the heading, halfway down the page,	22	Working Party but, again, if we trace through each of
23	"Hepatitis Working Party", we can see Dr Craske	23	the sets of minutes, we see regular reports being made
24	presenting sorry, Dr Kirk presenting a report on	24	by someone on behalf of the Hepatitis Working Party,
25	behalf of Dr Craske, a suggestion about information	25	usually Dr Craske not always, as we see here it was
	151		152 (38) Pages 149 - 15

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(38) Pages 149 - 152

	In very large pools of some 2,000-0,000 littles
of plasma	a from paid donors. An outbreak of both
non-'B' he	epatitis and 'B' hepatitis associated with
concentra	ates of this type has recently been reported
by Crask	
•	That's a reference to the 1975 publication in
	et of Dr Craske's write-up of his observations
	to Bournemouth, and it's the article
	An outbreak of hepatitis associated with
	us injection of Factor VIII concentrate".
5	So the risk there, both in terms of hepatitis B
and non-	B hepatitis, also known as non-A, non-B
hepatitis,	clearly being articulated here.
٦	Then the next paragraph says:
"	It has been suggested by Prince"
	And that's the 1975 publication in Transfusion
and Imm	-
	that recipients of all commercial blood
	n-fold higher risk of developing non-'B' post
	on hepatitis [so non-A, non-B] than
•	s of all volunteer donor blood."
	And that's then the reason that's given for
	ng this prospective study of hepatitis.
1	The rest of the paper then goes on to provide
	150
beina col	lected regarding patients who are hepatitis B
-	and some directors expressing concern about
that.	and some directors expressing concern about
1	Then the next paragraph:
**	There then followed a discussion of the
advisabili	ity of liver biopsy in haemophiliacs. The
	us was that each case must be considered
	lly and in particular that the Hepatitis
	Party should be informed of any such
patients."	
(	Of course, the very fact of there being even
a discuss	sion of liver biopsies in haemophiliacs would
tend to si	uggest that the risks of hepatitis and the
	examine whether and to what extent there were
	onsequences from hepatitis was something that
	n seriously and regarded as an important issue
for discus	
	So that's the 1977 meeting. It's right to note
	e course of 1977 and 1978 the Hepatitis
-	Party began to meet on a very regular basis.
	oody from Belfast was a member of the Hepatitis
Working	Party but, again, if we trace through each of
the sets of	of minutes, we see regular reports being made

1	Dr Kirk updating Haemophilia Centre Directors on	1	I'm afraid we've no way of knowing if that
2	the work of the Hepatitis Working Party.	2	included Belfast.
3	We can see if we go to CBLA0000681_009, it	3	"There was epidemiological evidence that 2/6
4	seems likely from various documents, including the	4	batches of Hemofil and 2/16 batches of Kryobulin
5	date, that this was the report that was being	5	contained hepatitis B virus. Similarly 4/6 batches of
6	discussed in that 1977 meeting. It's described as	6	Hemofil and [I think that's 3/17 but it could be 5/17]
7	"Haemophilia Directors Hepatitis Working Party,	7	batches of Kryobulin were associated with cases of
8	Hepatitis Associated Commercial Factor VIII 1976", but	8	Non-B hepatitis."
9	the report's actually dated 22 September 1977, and	9	Then it refers to information about patients.
10	you'll see it's referred to as appendix C, and it was	10	Under the heading "Hepatitis B" a little further down
11	appendix C that is referred to in the minutes.	11	the page it refers to two cases of hepatitis B
12	We will see again it updates the Haemophilia	12	occurring in patients previously known to have had
13	Centre Directors, so that would include the Belfast	13	transfusions of Hemofil.
14	representatives, about the progress of the study of	14	Then over the page we see the heading "Non-B
15	Hemofil, and we can see from the very opening	15	hepatitis", so non-A, non-B:
16	paragraph:	16	"Cases of Hemofil associated Non-B hepatitis
17	"As a continuation of the study of Hemofil	17	have continued to occur, all in patients receiving
18	begun in 1974, it was decided to study the incidence	18	Hemofil for the first time."
19	of hepatitis after transfusions of Kryobulin in 1976	19	And that is then discussed further.
20	and to compare this with that due to Hemofil."	20	Then there's reference, you will see the
21	So the two commercial products in use in	21	heading further down, "Multiple attacks of hepatitis",
22	Belfast are here the focus of this study.	22	so reference to patients having more than one attack
23	If we look at the results:	23	of hepatitis. Then if we go to the next page, under
24	"Returns were received from 24 Haemophilia	24	the heading "Conclusions", it's said:
25	Centres."	25	"These results indicate it is essential to
20	153	20	154
	155		154
1	continue these studies with the object of answering	1	Dr Mayne was present at the Haemophilia Centre
2	the following questions."	2	Directors meeting of 13 November 1978. I'm not going
3	The first is about the effects of the	3	to put it up on screen because the minutes only tell
4	hepatitis B screening but the second is the number of	4	us that Dr Craske presented a Hepatitis Working Party
5	types and incidence of non-B hepatitis. And then the	5	report but we don't have the report itself. But we
6	third is the incidence of sequelae after acute	6	can see that hepatitis was still very much under
7	hepatitis, so looking at chronicity, effectively, and	7	active consideration and on the Haemophilia Centre
8	chronic effects.	8	Directors' agenda.
9		9	-
	Then detail is given of further projects		If we then turn to CBLA0001028, please. These
10	proposed.	10	are the minutes of the Haemophilia Centre Directors
11	So that's a paper which the documents would	11	meeting in November of 1979. Now, there is no-one
12	tend to suggest would have been shared, was shared	12	physically in attendance from Belfast, Dr Mayne sent
13	with the Haemophilia Centre Directors, at least those	13	her apologies, but again you may wish to consider,
14	attending that meeting which, in relation to that	14	sir, inferring the minutes would have been circulated
15	meeting, included Professor Nelson.	15	and considered in due course.
16	Sir, I've still got a number of further	16	If we go in these minutes to page 18, we can
17	documents to look at in relation to issues of	17	see there the heading "Hepatitis Working Party". We
18	hepatitis and knowledge of risk, so perhaps this is	18	see Dr Craske presenting his report. There's
19	a useful moment to take a break.	19	reference to some corrections being required to
20	SIR BRIAN LANGSTAFF: Yes, let's do that and come back at	20	a table and that any directors who wished to have the
21	quarter to 4.	21	corrected version of the table should write to him.
22	(3.14 pm)	22	Then:
23	(A short break)	23	"Dr Craske said that the Working Party had
24	(3.45 pm)	24	drawn up a new form, Form C3, which they would like
25	MS RICHARDS: Picking up the picture now in 1978, sir,	25	Directors to complete for patients who had chronic
	155		156 (39) Pages 153 - 15
			(,,,,,,,,,,

to put it up on screen because the minu	tes only tell
us that Dr Craske presented a Hepatitis	Working Party
report but we don't have the report itself	. But we
can see that hepatitis was still very muc	h under
active consideration and on the Haemor	ohilia Centre
Directors' agenda.	
If we then turn to CBLA0001028	3, please. These
are the minutes of the Haemophilia Cen	tre Directors
meeting in November of 1979. Now, the	ere is no-one
physically in attendance from Belfast, D	r Mayne sent
her apologies, but again you may wish t	•
sir, inferring the minutes would have be	
and considered in due course.	
If we go in these minutes to page	e 18, we can
see there the heading "Hepatitis Workin	
see Dr Craske presenting his report. Th	
reference to some corrections being reg	
a table and that any directors who wishe	
corrected version of the table should wr	
Then:	
"Dr Craske said that the Workin	g Party had
drawn up a new form, Form C3, which t	0 ,
Directors to complete for patients who h	-
450	
100	(39) Pages 153 - 156

160

1	hepatitis. The Working Party felt that it was	1	for the first time as Director for the Northern
2	important for the incidence of chronic hepatitis in	2	Ireland Haemophilia Reference Centre."
3	haemophilic patients to be assessed. There was much	3	So this is her first attendance as a Reference
4	discussion regarding the incidence of chronic	4	Centre Director.
5	hepatitis in haemophilic patients, the possible value	5	If we then go to page 5 we can see that the
6	of liver biopsies and the type of information which	6	Reference Centre Directors discuss reports from the
7	Directors would be willing to give to the Working	7	Working Party chairman, and they start with the
8	Party."	8	Hepatitis Working Party.
9	Then there's a discussion further down the page	9	"Dr Craske presented tables outlining the
10	about attack rates. Then, top of the next page,	10	results which the Working Party had obtained over the
11	picking it up four lines down:	11	last year."
12	"It was agreed that the Working Party would	12	And then there's a discussion about pool sizes,
13	produce a new two-part form on which Haemophilia	13	relative pool sizes at Elstree and Oxford, and he
14	Centre Directors could report cases of chronic	14	thought that was relevant:
15	hepatitis."	15	"The plasma pools obtained from each batch of
16	So again we see the question of the incidence,	16	Elstree material was made from approximately 3,500
17	nature and extent of chronic hepatitis being one of	17	donors whereas the Oxford material was made from
18	the central issues under consideration by the	18	plasma pools from approximately 500 donors."
19	Haemophilia Centre Directors.	19	Dr Craske refers to a proposal to apply to the
20	If we then turn to HCDO0000406, this is the	20	Department of Health for a grant to undertake
21	Reference Centre Director meeting 22 September 1980.	21	a prospective study in Oxford regarding mildly
22	If we go a little further down, we can see it says in	22	affected patients and patients who were receiving
23	paragraph 1:	23	concentrates.
24	"Professor Bloom welcomed Dr Elizabeth Mayne	24	Then if we go a little further down, so we see
25	who was attending a Reference Centre Directors meeting	25	the rest of the page, we can see four lines into the
	157		158
1	last paragraph:	1	with other witnesses.
2	"Dr Craske said that there had been a poor	2	Then reference is made by sorry:
3	response from Directors to the request for information	3	"Dr Preston gave some details of the results
4	about patients thought to have developed chronic	4	found in Sheffield. Dr Craske said in America it
5	hepatitis and he said that he proposed to ask the	5	was found that approximately 5 per cent of their donor
6	Directors at the annual meeting in Glasgow to send in	6	population were carriers of Non-A and Non-B virus. No
° 7	as soon as possible information about all patients who	7	sensitive test to detect this virus was likely to be
8	had shown abnormal LFTs for six months or more.	8	available for a year or two. There were therefore
9	Dr Craske said he was awaiting the results of the	9	problems in interpreting the Non-A and Non-B
10	biopsy studies which were currently being undertaken	10	hepatitis The patients who were thought to have
11	in Sheffield and at the Royal Free Hospital."	11	suffered from Non-A and Non-B hepatitis had very mild
12	This is obviously two years further on from the	12	clinical symptoms."
13	publication of Professor Preston's first set of biopsy	13	That's presumably in the acute stage, although
14	studies in 1978.	14	it's not entirely clear.
15	"There were also further studies underway in	15	So that's the discussion of Dr Mayne's first
16	Oxford particularly with regard to patients who had	16	Reference Centre Directors' meeting in relation to
17	received only Oxford Factor VIII concentrate.	17	hepatitis.
18	Manchester setting up similar studies. Dr Kernoff	18	Then if we just pick it up, last of all in
19	said that the biopsy studies in Sheffield and the	19	terms of the sequence of UKHCDO meetings, in 1981, if
20	Royal Free were getting underway About forty	20	we go to LOTH0000012_122, this is a meeting of the
20	patients studied so far. Professor Sheuer would	20	Reference Centre Directors, September 1981. Dr Mayne
22	give a preliminary report on the findings at the	22	was present.
23	Glasgow meeting."	23	If we go to page 7, under the heading
20	Of course, sir, we know the Glasgow symposium	28	"Hepatitis Working Party", bottom of the page, we can
25	took place in September 1980. We've looked at that	25	see:
	159		160 (40) Barros 157, 160

(40) Pages 157 - 160

1	"Dr Craske presented the results of the Working	1
2	Party's activities during the last three years. The	2
3	cases of hepatitis reported by Haemophilia Centre	3
4	Directors, had been mild in most instances and no	4
5	acute case in recent years had resulted in death."	5
6	So that's dealing with acute cases. Then he	6
7	goes on to consider chronic:	7
8	"Several questions were still to be answered	8
9	regarding hepatitis in haemophiliacs. One was whether	9
10	acute attacks of hepatitis in haemophiliacs would	10
11	result in chronic liver problems in a few years'	11
12	time."	12
13	Then there's reference to the studies in	13
14 15	relation to Kryobulin and Hemofil. And then over the	14 15
15 16	page, I'm not going to go through it detail, but there's a discussion about the so-called reduced	15
17		10
18	hepatitis or hepatitis-free products that then takes place and is recorded on that page.	17
19	Then finally, for present purposes,	10
20	CBLA0001466. This is a report for the Haemophilia	20
20	Centre Directors meeting on 9 October 1981. It's	20
22	Dr Craske's report. If we go over the page, it's	22
23	a report of the Hepatitis Working Party, and if we	23
24	just look by way of example so there's reference to	20
25	the studies in the first section under the heading	25
20	161	20
	101	
1	through some of the materials and discussions being	1
2	considered by the Hepatitis Working Party.	2
3	In fact, there was one report I should also	3
4	have gone to which I omitted. It's a report from 1979	4
5	of the Hepatitis Working Party, HCDO0000135_023.	5
6	So we'll see in the first paragraph it refers	6
7	to the working party having held three meetings during	7
8	the year:	8
9	"Most of the business consisted of the	9
10	organisation of projects related to the hepatitis	10
11	surveillance programme and to the study of chronic	11
12	liver disease in patients at the Oxford Haemophilia	12
13	Centre."	13
14	If we go to page 5, under the heading	14
15	"Mortality":	15
16	"No further fatalities directly due to acute	16
17	hepatitis have been reported. One patient had acute	17
18	[non-A, non-B] hepatitis followed by persistent raised	18
19	enzyme levels in 1978. He died of a retroperitoneal	19
20	haemorrhage, post mortem was refused but it is	20
21	possible that his hepatitis indirectly contributed to	21
22	his death.	22
23	"A further patient at Oxford who died of causes	23
24	unrelated to liver disease was found on post mortem to	24
25	have portal cirrhosis"	25
	163	

	repatitis Surveillance" and then under the heading
"C	Complications":
	"The question of the significance of chronic
he	epatitis observed by several groups of workers in
	ver biopsies of patients with chronically elevated
tra	ansaminases is still unanswered. Current
in	vestigations are attempting to relate the results in
di	fferent groups of patients to their transfusion
hi	story, and there is strong evidence that different
ty	pes of non-A, non-B hepatitis are related to
di	fferent products Most patients in this group are
st	ill entirely symptomless. The natural history of
th	e disease in non-haemophiliacs is still not known,
th	ough there is some evidence to suggest that some
ра	atients with liver biopsy appearances of chronic
ac	ctive hepatitis have a better prognosis than patients
W	ith similar histology on liver biopsy whose liver
di	sease is considered to be of non-viral origin.
Tł	nere have been no further deaths directly or
in	directly attributed to liver disease in the past
ye	ear."
	Then there's a discussion of the incidence of
he	epatitis due to commercial versus NHS associated
he	epatitis.
	That's a bit of a whistle-stop tour, sir,
	162
	It's recorded there hepatitis B antigen
ne	egative:
	"We will be interested in any further cases
w	here specimens of post mortem liver can be obtained
	om haemophiliacs, to collect further evidence of the
	evalence of chronic liver disease. The preliminary
•	sults of the patients at Oxford so far studied for
	vidence of chronic liver disease are given in
	ppendix I 70 out of 174 patients had
	ersistent transaminitis but only [that's the word
	sed] 20 of these so far have been found to have
	inical evidence suggestive of chronic liver
	sease."
	If we omit the word "only", we can see 20 out
of	174 patients
SIR BI	RIAN LANGSTAFF: That's 30 per cent.
	CHARDS: Yes, found to have clinical evidence
	uggestive of chronic liver disease.
	There are more detailed discussions about
Va	arious studies and non-A, non-B hepatitis in this
	ocument, which, again, were circulated for the
	urposes of I think the November 1979 meeting of
•	aemophilia Centre Directors.
	We can see then the consideration being given

"Hepatitis Surveillance" and then under the heading

We can see then the consideration being given at the Haemophilia Centre Directors' annual meetings 164

(41) Pages 161 - 164

1	to issues relating to hepatitis. If we turn to	1	risks of viral transmission, being prepared from
2	material authored by Dr Mayne herself and we start	2	single or small volume of donors. Relatively speaking
3	with her HIV litigation report, CBLA0000072_024, and	3	the statement is accurate"
4	if we go to page 14, this is a section of Dr Mayne's	4	So she appears to be accepting it has far
5	litigation report headed "Hepatitis and/or other viral	5	smaller risks of viral transmission but then she
6	infections". It's detailed, and I won't go through	6	observes:
7	all of it but, if we can pick it up at the bottom of	7	" it was the occurrence of cases of jaundice
8	this page, she says:	8	in just such treated patients that formed part of the
9	"Transfusion associated hepatitis was	9	first [UK] Survey of Hepatitis"
10	recognised with increasing frequency following the	10	And then she provides further detail in
11	introduction of plasma and plasma derived products for	10	relation to that.
12	the treatment of Haemophilia."	12	Then if we go over the page, we see she refers,
13	Then I'll skip over the next sentence which	12	about five lines down in that first paragraph, to work
14	relates to a paragraph in the Statement of Claim:	10	by Mannucci in 1975 and Levine in 1977 describing:
15	"The Haemophilia physicians of the United	14	" a high prevalence of abnormal liver
16	Kingdom addressed the problem constantly during the	16	function tests amongst multi-transfused haemophiliacs,
17	early years of treatment, from 1967 onwards and they	10	but the significance of their findings could not be
18	continue to do so today."	18	determined at that time. The patients were clinically
	-		
19 20	If we go to the next page, she then sets out	19	well."
20	certain thoughts as regards the risk of hepatitis from	20	There's then a discussion about hepatitis B and
21	cryoprecipitate, and says, picking it up four lines	21	the introduction of donor testing in the early 1970s.
22	down:	22	So if we then go on to the next page, please,
23	"Previously the latter [that's cryoprecipitate]	23	and pick it up in the bottom half of the page,
24	in paragraph 16(b) [again that's a reference to the	24	Dr Mayne then refers to Dr Craske's 1975 documentation
25	Statement of Claim] is stated to have far smaller	25	of an outbreak of hepatitis in the United Kingdom, so
	165		166
1	that's the Bournemouth outbreak, I think:	1	1978 by Spero, Lewis and others called "Asymptomatic
2	" caused by 3 out of 4 batches of American	2	Structural Liver Disease in Haemophilia". She says:
3	origin Commercial Factor VIII concentrate 4 cases	3	"There was histological evidence of chronic
4	of Hepatitis B and 7 cases of short incubation or	4	active hepatitis and cirrhosis. The findings were
5	non A non B hepatitis. Two patients developed both	5	thought to be related to the multi-transfused nature
6	forms of the disease. A total of 9 out of 18 patients	6	of the patients and also the possible effects of the
7	became ill a 50 per cent attack rate. It was	7	persistence of virus within the liver cells."
8	concluded that commercial concentrate should be	8	Et cetera.
9		9	Then she refers to similar histological
	reserved for the treatment of life-threatening bleeds	9 10	•
10	or for covering major surgery."		abnormalities being described in haemophiliacs with
11	So Dr Mayne is here setting out these various	11	evidence of non-A, non-B hepatitis by Aledort, 1985,
12	reports. There's no suggestion in this document that	12	and Hay, 1985, and she refers to Dr Preston's work
13	Dr Mayne is asserting that this is material that would	13	in 1988. I'm just going to check that that's right.
14 45	be unfamiliar to haemophilia clinicians. She doesn't	14	Yes. Sir, that is an article published in
15	provide her own observation on the Craske	15	1988, but of course we have also Dr Preston's 1978
16	recommendation of limiting commercial concentrate to	16	work.
17	major surgery or life-threatening bleeds.	17	Then she says in the bottom half of that page:
18	If we go over the page, in the first main	18	"The exposure risk for non A non B hepatitis
19	paragraph she says:	19	was difficult to determine as prior to 1989 there was
20	"The possible significance of asymptomatic	20	no marker test available for its detection. The
21	hepatitis became apparent by 1978 when structural	21	diagnosis was established on exclusion of other
22	abnormalities of the liver were described in	22	infection and by abnormalities of liver function
23	patients."	23	tests."
24	The reference there, at footnote 27, is to	24	So she appears there to be suggesting you could
25	an article in the New England Journal of Medicine in	25	still make a diagnosis of non-A, non-B hepatitis by
	167		168 (42) Pages 165 - 168

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1	reference of excluding other causes and looking at	1	lots of treatment versus modest amounts of treatment
2	liver function test results. Then she refers to in	2	or any other alternatives] had to be applied to
3	1984 a finding about non-A, non-B hepatitis, and says	3	patient care."
4	it was "difficult to ascertain the true risk of	4	Then this:
5	infection from non A non B hepatitis".	5	"The patients themselves became aware of the
6	Then if we go over the next page, she says in	6	risks of hepatitis during the mid-1970s."
7	the second line:	7	The evidence she puts forward to that is the
8	"It would seem that haemophiliacs in the UK	8	World in Action documentary:
9	being exposed to both home produced and commercial	9	"In particular, after the 1975 outbreak in the
10	Factor VIII would have a high infection rate. This	10	[UK] a World in Action television programme dealt with
11	has been found to be the case"	11	the problem in detail. During the course of the
12	Then she refers to the Fletcher paper, 1983.	12	screening, one patient was asked if he had been 'put
13	There's then a discussion, bottom half of this	13	off using his Factor VIII concentrate. He replied
14	page, about the incidence of hepatitis B infection	14	that he had used it again immediately he developed
15	decreasing. Then halfway through that paragraph she	15	a painful bleed into an elbow joint."
16	says:	16	Then she asserts this:
17	"The awareness of the long term risks of non A	17	"The majority of patients were of the same
18	non B infection evolved gradually. It is evident that	18	opinion freedom from pain was of paramount
19	all products were implicated to some degree regardless	19	importance to them. Craske recommended a return to
20	of plasma source."	20	the use of cryoprecipitate for routine treatment
21	Over the page she then says this:	21	[that's his 1975 Lancet article], but by that time
22	"At all times the risk benefit ratio of	22	a majority of patients were well established in self
23	treatment versus non-treatment [so that's the choice	23	injection programmes. Unfortunately it was
24	that's posited as opposed to treatment with	24	impractical for home treatment. It was practical for
25	concentrates versus treatment with cryoprecipitate or	25	the treatment of patients not previously treated as
	169		170
1	they were at special risk of hepatitis, also for	1	statements to the Inquiry. It's at WITN0736011. It's
2	mildly affected patients, children and those suffering	2	not dated but it is, we understand, authored by
3	from the von Willebrand syndrome. A policy adopted by	3	Dr Mayne. She says under the heading "Historical":
4	many and recommended by the UK Haemophilia	4	"The occurrence of jaundice after introduction
5	Directors"	5	of human plasma into the body was first noted well
6	And then she makes reference to some matters	6	over 100 years ago in German shipyard workers
7	which I don't think make particular sense unless we	7	vaccinated with a human lymph-derived vaccine and
8	compared them against the Statement of Claim in the	8	later further described during the Second World War in
9	HIV litigation.	9	British soldiers inoculated using multi-shared
10	So you'll see there, sir, assertions that the	10	syringes. In 1943, Beeson reviewed this information
11	majority of patients were of the opinion that they	11	and described other patients suffering what was then
12	weren't put off using concentrates. The evidence from	12	called 'homologous serum jaundice'. This condition
13	that well, no evidence is given other than	13	was further reviewed by Spurling et al in 1964, who
14	a reference to one patient in the World in Action	14	recognised the increased risk of pooling blood plasma
15	programme.	15	for infusions into patients."
16	You will know, sir, from the evidence you have	16	Then there's a short discussion of hepatitis A.
17	heard and read from patients and their families that	17	Then we see hepatitis B. She says:
18	the thrust of that evidence is that patients were not	18	"This form of hepatitis is the one described as
19	routinely informed of hepatitis risks posed by blood	19	homologous serum jaundice by Besson and it has a long
20	products prior to their use and, if that's right,	20	incubation period of up to six months and is termed
21	weren't then given the ability to make an informed	21	hepatitis B"
22	choice. Obviously those are matters of fact that you	22	Then there's reference to the discovery of the
23	will have to consider and resolve.	23	Australia antigen and the introduction of tests.
24	There's one further document authored by	24	And we can see in the last sentence on that
25	Dr Mayne before I look at what she says in her	25	page:
	171		172 (13) Pages 169 - 172

(43) Pages 169 - 172

	The intected
1	"In the early 1970s it was appreciated that the
2	prevalence of hepatitis B was increased both in drug
3	addicts and in prison inmates."
4	Then if we go over the page, we can see the
5	heading "Non-A non-B Hepatitis", and it says this:
6	"In 1974, Prince et al first noted a large
7	proportion of post-transfusion hepatitis patients did
8	not have any evidence of the B hepatitis virus. They
9	postulated that there could be other
10	transfusion-transmitted hepatitis virus(es) Type C.
11	In 1974 Alter and colleagues confirmed these findings
12	and from then on the term 'non-A non-B hepatitis' was
13	used."
14	SIR BRIAN LANGSTAFF: Just a question there on the basic
15	facts of that. In the Nobel prize citation, Alter was
16	one of the laureates, was he not?
17	MS RICHARDS: I can't remember, I'm afraid, I'm ashamed to
18	say, sir.
19	SIR BRIAN LANGSTAFF: Well, I have a feeling that the
20	citation talks about 1972 as being the first bit of
21	research, but that can be checked.
22	MS RICHARDS: That can be checked, yes.
23	The Prince and Alter reports are part of the
24	material that we've looked at on a number of
25	occasions.
	173
1	" of its effects was not appreciated,
2	elaborated and investigated until the mid to
3	late 1980s."
4	Then she deals with the isolation of
5	hepatitis C itself and its naming of such and the
6	
v	development of tests.
7	development of tests. We can, I think, skip over what's said about
7	We can, I think, skip over what's said about
7 8	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says:
7 8 9	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was
7 8 9 10	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use
7 8 9 10 11	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for
7 8 9 10 11 12	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The
7 8 9 10 11 12 13	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly
7 8 9 10 11 12 13 14 15 16	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted
7 8 9 10 11 12 13 14 15	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted in 1977 under the chairmanship of the virologist,
7 8 9 10 11 12 13 14 15 16 17 18	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted in 1977 under the chairmanship of the virologist, Dr John Craske."
7 8 9 10 11 12 13 14 15 16 17 18 19	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted in 1977 under the chairmanship of the virologist, Dr John Craske." She then talks, in the next paragraph, in the
7 8 9 10 11 12 13 14 15 16 17 18 19 20	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted in 1977 under the chairmanship of the virologist, Dr John Craske." She then talks, in the next paragraph, in the early 1970s about hepatitis B infection giving rise to
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted in 1977 under the chairmanship of the virologist, Dr John Craske." She then talks, in the next paragraph, in the early 1970s about hepatitis B infection giving rise to the greatest concern.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	We can, I think, skip over what's said about hepatitis D. If we go to the next page, it says: "Transfusion associated hepatitis was recognised with increasing frequency following the use of FFP and plasma derived concentrates, produced for the treatment of all types of haemophilia. The haemophilia physicians of the [UK] constantly addressed the problem from 1967 onwards, culminating in the establishment of the United Kingdom Haemophilia Directors Hepatitis Working Party. It was instituted in 1977 under the chairmanship of the virologist, Dr John Craske." She then talks, in the next paragraph, in the early 1970s about hepatitis B infection giving rise to

1	SIR BRIAN LANGSTAFF: Yes.
2	MS RICHARDS: And, of course, they contain expressions of
3	view as to the potential serious nature of or
4	chronic nature of non-A, non-B hepatitis.
5	Then this article or report continues:
6	"There appeared to be several types of non-A
7	non-B hepatitis; the type which has a short incubation
8	period and some which have a longer incubation
9	period the clinical picture of non-A non-B
10	hepatitis compared to hepatitis B tends to be mild.
11	Very [infrequently] the infection is"
12	SIR BRIAN LANGSTAFF: "Very frequently".
13	MS RICHARDS: Yes, sorry.
14	" very frequently the infection is totally
15	symptomless and may only be detected by blood tests of
16	liver function. The most usual test is of a substance
17	known as transaminase. A persistently raised
18	transaminase known as ALT, used to be presumptive
19	evidence of hepatitis in multi-transfused patients."
20	Then she says this:
21	"The risk that non-A non-B hepatitis could
22	progress to chronic hepatitis was known in 1977 but
23	the full significance"
24	And perhaps the word "full" in itself is of
25	significance:
	174
1	Party report. So these are, in terms of the UKHCDO,
2	some of the materials that I've just shown you, sir,
3	and it would appear to confirm that this was material
4	known to and available to Dr Mayne at the time.
5	So she refers to the report of 1979 with an
6	increase in the proportion of non-A, non-B hepatitis
7	reported in patients with mild coagulation defects
8	receiving concentrate for the first time. Then she
9	refers to the Hepatitis Working Party's report for
10	'82/'83.
11	Then, if we go over the page, she quotes from
12	a paragraph entitled "Prospective studies of hepatitis
13	in infrequently treated haemophiliacs". I won't read
14	out the quote but if we go to the paragraph beginning:
15	"The report confirmed that patients remained at
16	risk from developing non-A non-B and from hepatitis B
17	infection, the latter despite donor selection and the
18	patients were being infected regardless of the source
19	of their replacement treatment."
20	There's then a discussion about hepatitis B
21	vaccination and then she goes on to consider the

vaccination and then she goes on to consider the impact of the AIDS epidemic. I'll be coming to look at AIDS tomorrow.

But if we go to the next page, the final paragraph, she says this about Northern Ireland:

to Mannucci's work in 1975. Then if we go to the next

paragraph, reference to the 1979 Hepatitis Working

Obviously, it will be a matter for you, sir, to consider all the material and consider whether you

I want to come, finally, then, in relation to knowledge of risk of hepatitis -- we'll look in more

accept that that was the reason.

1	"It was estimated in the Northern Ireland	1
2	Haemophilia Centre that 112 patients had been exposed	2
3	to the possibility of virus infections following	3
4	receipt of replacement treatment."	4
5	She then gives the number in relation to those	5
6	who developed HIV, 16, which I'll come back to	6
7	tomorrow.	7
8	"Seventy-six of the 112 developed hepatitis,	8
9	an incidence of 72 per cent. In some Centres in the	9
10	United Kingdom, the incidence was as high as	10
11	95 per cent. The rationale for these figures being	11
12	slightly better than in other Centres in the UK was	12
13	because it was a policy within the Centre that	13
14	patients, as far as possible and practicable, should	14
15	receive only product from one source."	15
16	Then she gives here her rationale for that:	16
17	"This was because it had become realised that	17
18	using concentrate prepared from many different, large	18
19 20	pools of plasma were likely to be more infective. The	19 20
20 21	rationale was sound but the results were only partially effective."	20
21		21
22	So it is said there, it would appear, that the underlying treatment policy in relation to trying to	22
23 24	use one source of product was on safety grounds, in	23
24 25	terms of risks of viral transmission.	24
20	177	20
	111	
1	onwards was because of concerns about adverse effects	1
2	of treatment.	2
3	Then in this statement, if we go to the last	3
4	page, picking it up in paragraph 13, second line, she	4
5	says:	5
6	" I had observed these abnormal liver	6
7	function tests for so long without there being any	7
8	apparent clinical ill effects, that I think I could	8
9	have been lulled into a false sense of security. I am	9
10	not at all sure."	10
11	That would appear to suggest, in any event,	11
12	that Dr Mayne was observing over a prolonged period of	12
13	time in her patients abnormal liver function test	13
14	results.	14
15	SIR BRIAN LANGSTAFF: But this is talking about 1995.	15
16	MS RICHARDS: It is, but I think she is probably making	16
17	a more general observation. But yes, absolutely. She	17
18	is there suggesting that in 1995 the significance of	18
19	hepatitis C, as it was then known and had been known	19
20	for several years, was not fully appreciated by her.	20
21	SIR BRIAN LANGSTAFF: She is responding to a comment that	21
22	she didn't spell out some of the serious consequences	22
23	to the witness, and she's saying, "I didn't do that	23
24	because I didn't realise there were any."	24
25	MS RICHARDS: Yes.	25

detail tomorrow at some of the information that was
then given and the way in which testing was undertaken
and so on, but on knowledge of risk to what Dr Mayne
says in her witness statements.
-
So if we can start with WITN0736007, this is
a statement made in response to made by Dr Mayne in
response to the evidence of patients or relatives who
had given evidence to the Inquiry. If we just look at
a couple of passages, bottom of this page, Dr Mayne
says this in paragraph 2:
"During the 1970s, both [that's the two
patients she's talking about] were commenced on Home
Treatment. In accordance with the Centre's practice,
at review appointments bloods were taken to test for
anaemia and the presence of an inhibitor. Liver
function tests were also performed because of my
apprehension about the adverse effect of prolonged IV
treatment."
So she says there in terms: the reason for
undertaking liver function tests from the 1970s
-
178
SIR BRIAN LANGSTAFF: I'm
MS RICHARDS: Paraphrasing but, yes.
SIR BRIAN LANGSTAFF: paraphrasing.
MS RICHARDS: Yes. I'll deal with the question of what
information was and wasn't given to patients in
a little more detail tomorrow, but you are absolutely
right, sir, that is in effect what's being said here.
But we also see apparent observation of abnormal liver
function tests over prolonged periods of time.
Then if we go to WITN0736001, this again is
a statement in response to criticisms by or
evidence given by former patients. And if we go,
please, to page 11, and we look at paragraph 5.2, this
is looking at an earlier period, 1976, and she says in
the second sentence:
"At that time, treatment was considered to be
both effective and safe."
Again, the consistency of that statement with
everything else that we've looked at about hepatitis
risks will be a matter for you to consider, sir.
There were few facts available
SIR BRIAN LANGSTAFF: That was the same time as she was
saying that those people who had watched the programme
in 1975 recalling the risks, they knew all about the
risks.

(45) Pages 177 - 180

1	MS RICHARDS: Yes, and were then taking an informed
2	decision to carry on with their treatment. Yes, that
3	is what she said in the report that we looked at.
4	SIR BRIAN LANGSTAFF: Yes. Somehow I have to reconcile
5	those two rather different views.
6	MS RICHARDS: Yes, that is a task for you, sir.
7	Then we see in the third line:
8	"There were few facts available regarding viral
9	infections at this time, apart from the historical and
10	rare transmission of Hepatitis B."
11	Then she refers to abnormal liver function
12	tests being under constant consideration by the
13	Hepatitis Working Party. Hepatitis C not a recognised
14	entity at this time. Well, that, as a matter of fact,
15	is obviously correct.
16	Then this:
17	"Risks of viral infection were discussed at the
18	hospital clinic and at the annual patient meetings
19	held in Craigavon Area Hospital each November."
20	Those meetings I think are referenced by
21	Dr Mayne in one of her other statements as well.
22	Again, the evidence you have heard from individuals
23	has been to the effect, in the vast majority of cases,
24	that information about risks of non-A, non-B hepatitis
25	was not shared with them, and so that will be an issue
	181

1	So, again, maybe a tension between saying "As
2	late as 1991 no-one really knew what to expect", and
3	at the same time the broader point made in the
4	HIV litigation report that the risks were well known
5	to patients.
6	Then finally for today I think, or at least in
7	terms of the witness statements, WITN0736009.
8	If we go to page 20, bottom half of the page,
9	Dr Mayne says this in paragraph 22.1:
10	"The possible transmission of viral hepatitis
11	through blood transfusion, plasma infusion or the
12	infusion of plasma derived products has been well
13	known for a long time. I first learned of it as
14	an undergraduate in the 1950s."
15	Then there's reference to what was required for
16	the MRCPath and haematology and the requirement to
17	spend time within the Blood Transfusion Service.
18	She says:
19	"During this time, in my case the topic of
20	transmission induced infection was dealt with in
21	detail."
22	Then she refers also to there being post
23	graduate courses and informal discussions with NIBTS
24	and virologist colleagues.
25	If we go further down the page:
	100

1	that you will need to consider.
2	Then just dealing still with this
3	SIR BRIAN LANGSTAFF: I don't quite see how the risks of
4	viral infection could exist for the purposes of
5	discussing it at the hospital clinic and at the annual
6	patient meetings in Craigavon each November with the
7	facts that in 1976 it was thought safe
8	MS RICHARDS: And there being
9	SIR BRIAN LANGSTAFF: deciding a very different period
10	of time.
11	MS RICHARDS: Yes. Yes, on the one hand: it's safe, few
12	facts available. On the other: risks were discussed
13	with patients. There is undoubtedly a tension between
14	those two.
15	If we go two pages further on in this
16	statement, paragraph 6.2, Dr Mayne says this, picking
17	it up towards the end of the first line:
18	" up until the Hepatitis C virus was
19	identified in 1991 no one really knew what to expect.
20	Gradually information evolved, different subtypes were
21	identified and clinical symptoms of fatigue were more
22	marked in some than others. Always I had an ominous
23	feeling about the virus"
24	And then she refers to a haemophilia weekend
25	arranged in 1995.
	-

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"Between the late-1970s and the mid-1980s,	
there was increasing evidence that [non-A, non-B]	
hepatitis was not as benign as had been thought but	
could progress from chronic persistent hepatitis to	
cirrhosis. It is important to stress that it was	
an evolving picture."	
Then if we go a little further down the page to	
paragraph 24.1, she says:	
"I was aware that there was a higher prevalence	ķ

of [non-A, non-B] infection associated with commercial concentrate compared to NHS concentrate but the latter also presented a significant risk of viral infection. An important factor in transmission is the potential size of the donor population in each category."

Then, over the page, she says, in paragraph 26.1:

"By 1972 my knowledge of the viral transmission of Hepatitis B and [non-A, non-B hepatitis] was incomplete as it was with all my colleagues.

"Hepatitis B transmission remained a constant risk. Thankfully, in reality, in the haemophiliacs in Northern Ireland it was almost non-existent. To the best of my recollection only two sub-clinical cases were ever detected in Centre patients. However, it was necessary to maintain vigilant testing."

(46) Pages 181 - 184

1	Then she refers to an article in the Ulster
2	Medical Journal, which I'll go to in a moment, and
3	says that that conflicts with her recollection.
4	Then in 26.4 she says:
5	"In respect of [non-A, non-B], the situation
6	remained perplexing for almost twenty years. This was
7	evidenced by the persistence of abnormal liver
8	function in treated patients. Although one knew there
9	was ongoing virological research on a worldwide basis,
10	the lack of identification of a causative agent was
11	a constant worry. Not all colleagues expressed
12	an equal degree of concern. It was suggested that
13	I stop testing if it was so upsetting. I took the
14	opposite view and continued."
15	Then she says in the next paragraph:
16	"Gradually, knowledge progressed, liver
17	histology was identified and in 1991 Hepatitis C was
18	identified. It has proved to be a complex and deadly
19	virus, possibly in keeping with its long prodromal
20	phase."
21	SIR BRIAN LANGSTAFF: Just focusing on those last few
22	words, starting "possibly", this is a suggestion that
23	where an infection has a very long period before
24	symptoms are manifested, they're all the worse because
25	of it?
	185
1	article on hepatitis B incidence that she refers to in
2	her witness statement, WITN3082021. It's an article
3	headed "Hepatitis B virus infection in Northern
4	Ireland 1970-1987". And I can pick it up in the
5	"Summary":
6	"In the 18 years between 1970 and 1987,
7	504 patients were found to have hepatitis B surface
8	antigen in their blood. Acute hepatitis was
9	present in 184 patients and six died The annual
10	incidence of acute hepatitis B virus infection in
11 10	Northern Ireland was about one quarter that of England and Wales."
12 12	
13 14	Then if we go to the bottom of the page, we can
14 15	see under the heading "Patients, materials and
15	methods", that: "Testing for hereitite Deutfees entiden heren
10	"Testing for hepatitis B surface antigen began
	in the Regional Virus Laboratory in 1970 in blood
18 19	donors required for the Renal Unit, Belfast City Hospital."
20	-
20 21	Further information is then given about the testing process.
21	If we go to the third page, we can see a table,
22	"Categories of patients infected with hepatitis B
23 24	virus".
24 25	The second category is "Haemophiliacs", and we
20	187
	107

1	MS RICHARDS: Yes.
2	SIR BRIAN LANGSTAFF: Yes.
3	MS RICHARDS: Just top of the next page, the report that
4	we looked at a few minutes ago about hepatitis, you'll
5	see what it is in paragraph 26.6, an extract from
6	a medico-legal report that Dr Mayne wrote in 2000 or
7	2001. So that's the document we looked at a moment
8	ago.
9	SIR BRIAN LANGSTAFF: That was the report for the HIV
10	litigation, wasn't it?
11	MS RICHARDS: No. There's the long report in italic text
12	which is the HIV litigation report, but we looked
13	a few minutes ago also at WITN0736011.
14	SIR BRIAN LANGSTAFF: Ah, yes. That's the one you say was
15	undated?
16	MS RICHARDS: Yes. So that's that document.
17	SIR BRIAN LANGSTAFF: That's that one.
18	MS RICHARDS: That's been produced to the Inquiry by
19	Dr Mayne, and she tells us in her witness statement
20	it's an extract from a medico-legal report she wrote
21	in 2000/2001, so it confirms authorship and gives us
22	data or information about when it was produced.
23	There are then just, I think before finishing
24	today, two further documents on the issue of
25	hepatitis. The first is the Ulster Medical Journal
	186
1	can see there 11, that's the number with acute
2	hepatitis. Deaths in brackets, so 1 fatality. And
3	then there's also 8 who had received multiple
4	transfusions, that would be non-haemophiliac
5	transfusions.
6	Then we go to the next page, halfway down
7	there's a heading "Blood and blood products
, 8	transmission", and we see the information relating to
9	haemophiliacs:
10	"Acute infections occurred in 11 patients
11	between 1972 and 1982 after receiving blood
12	transfusions, cryoprecipitate or factor VIII, and one
13	patient died aged 51 years."
14	Then there's reference to multiple
15	transfusions:
16	"Acute infections took place between 1970 and
17	1980 in eight patients who had received multiple
18	transfusions after surgery."
19	So I think that's all one needs to look at in
20	that article.
21	Then finally WITN0198002, please. This is
22	a letter from Dr Mayne in March 1984. If we look at
23	the text of the letter, it provides information about
24	a mildly affected haemophiliac, and we can see in the
25	second paragraph Dr Mayne saying this:
	400
	100 (47) Pages 185 - 188

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1	" a mild haemophilic of this type should be
2	treated with cryoprecipitate or NHS factor VIII and
3	not commercial freeze-dried factor VIII concentrates.
4	This precaution is to avoid the development of non A
5	non B hepatitis in mildly affected patients."
6	So a clear understanding of the risk of non-A,
7	non-B being articulated in this letter in 1984.
8	Sir, those are the documents that throw some
9	light on knowledge of risk of hepatitis amongst
10	Belfast clinicians in general and Dr Mayne in
11	particular.
12	Tomorrow I'm going to undertake a similar
13	exercise in relation to knowledge of risk of HIV and
14	then turn to consider the process of testing patients
15	for HIV and then for hepatitis C, and patients being
16	informed of their diagnosis, so the procedure that was
17	adopted, and the adequacy or inadequacy of the
18	information provided to them.
19	SIR BRIAN LANGSTAFF: Yes. Thank you very much.
20	Until 10.00.
21	10.00 tomorrow.
22	(4.34 pm)
23	(Adjourned until 10.00 am the following day)
24	
25	

189

(48) Pages 189 - 189

	174 [4] 00/40	00E [4] 400/0	400 070 141 74/44	4004 FAL 470/40	70/40 00/0 00/44
	<b>'74 [1]</b> 89/12	<b>065 [1]</b> 108/8	<b>120,672 [1]</b> 74/11	<b>1964 [1]</b> 172/13	73/13 90/8 90/11
MS RICHARDS: [86]	<b>'82 [2]</b> 24/22 176/10	<b>071 [1]</b> 107/7	<b>122 [1]</b> 160/20	<b>1965 [2]</b> 29/24 34/15	136/2 156/11 163/4
1/4 1/20 16/23 17/5	'82/'83 [1] 176/10	<b>089 [1]</b> 15/22	<b>124 [1]</b> 14/7	<b>1967 [3]</b> 29/21 165/17	164/22 175/25 176/5
17/10 17/12 19/6 19/9	<b>'83 [3]</b> 24/22 81/8	1	128,983 [1] 77/25	175/14	<b>1980 [10]</b> 5/4 73/14
19/16 19/23 20/18	176/10		<b>13 [1]</b> 179/4	1968 [2] 23/1 34/19	73/21 74/1 74/16 77/4
20/22 20/24 31/12	<b>'84 [4]</b> 81/8 84/13	1 April 1981 [1] 94/2	13 November 1978 [1]		93/1 157/21 159/25
40/17 40/20 40/25	100/5 103/10	1 August 1985 [2]	156/2	138/10 146/5	188/17
41/2 43/24 44/2 47/19	'84/'85 [1] 84/13	13/16 84/11	13 years [1] 21/17	<b>1970 [7]</b> 23/2 39/16	1980s [15] 2/6 6/15
47/22 48/1 50/7 50/9	'85 [4] 81/9 83/23	1 fatality [1] 188/2	13,420 [1] 75/10	40/2 57/3 187/6	10/11 10/11 50/25
	84/13 100/13	1 million [1] 115/11	13,434 [1] 79/7	187/17 188/16	51/17 57/22 64/2 65/9
51/13 51/15 53/21	'85/'86 [1] 83/23	1 November 1974 [1]	134 [1] 101/18	1970-1987 [1] 187/4	92/17 92/20 120/8
53/25 66/18 72/15	'86 [1] 83/23	142/23	135,483 [1] 70/13	1970s [25] 4/19 28/18	135/3 175/3 184/1
75/575/2476/276/9	<b>'87 [3]</b> 114/12 114/14	1,000 [1] 95/25	<b>14 [5]</b> 20/9 21/20 22/3	29/5 29/18 35/10 36/2	
78/14 81/11 83/21	114/15	1,108,800 [1] 80/25	54/11 165/4	44/18 47/11 56/14	1981 [11] 6/17 93/19
83/24 86/1 86/7 86/11	<b>'88 [2]</b> 100/13 114/20	1,352,607 [1] 66/13	14 million [1] 94/16	63/6 120/8 130/15	94/2 100/20 101/21
88/24 89/7 99/19	'89 [1] 99/17	1,421,490 [1] 83/6	144,660 units [1] 67/3		102/20 120/19 120/25
100/2 100/7 100/11	'92 [1] 20/23	1.03 pm [1] 105/22	145,020 [1] 78/20	137/21 141/7 142/3	160/19 160/21 161/21
100/15 105/14 105/25	'all' [1] 85/4	1.5 [1] 7/13	147 [1] 20/9	166/21 170/6 173/1	1981/1982 [1] 103/9
107/5 109/12 109/25	'assessment' [1] 95/1		<b>15 [1]</b> 35/17	175/20 178/16 178/25	1982 [11] 36/4 57/6
110/3 110/6 112/10	<b>'B' [3]</b> 150/4 150/4	<b>10 [5]</b> 97/5 111/5	<b>151,686 [1]</b> 64/25	184/1	85/4 85/21 98/6 98/9
112/21 114/15 117/3	150/20	120/13 136/14 151/19	<b>156,870 [3]</b> 78/11	<b>1971 [6]</b> 30/11 40/12	102/21 103/9 131/18
117/9 125/13 125/18	continuation [1]	10 December [2]	78/14 79/10	41/16 46/6 138/3	132/17 188/11
125/21 125/25 149/10	31/24	111/14 111/17	159,090 [1] 77/18	139/6	<b>1983 [16]</b> 4/20 11/8
149/13 155/25 164/17	'cryo' [1] 41/17	10 October 1984 [1]	<b>16 [5]</b> 14/7 77/14	<b>1972 [10]</b> 23/1 23/3	57/7 57/23 77/5 77/19
173/17 173/22 174/2		9/17	154/4 165/24 177/6	139/17 139/22 140/11	77/22 78/24 79/2
174/13 179/16 179/25	'cryoprecipitate' [1] 29/22	10 per cent [1] 131/23		139/17 139/22 140/11	7//22 78/24 79/2
180/2 180/4 181/1					
181/6 182/8 182/11	'Hemofil' [1] 42/7	<b>10,000 [1]</b> 43/13	15/11	184/17 188/11	108/22 109/14 121/25
186/1 186/3 186/11	homologous [1]	<b>10.00 [4]</b> 1/2 189/20	16 February 1979 [1]	<b>1973 [2]</b> 139/14	169/12
186/16 186/18	172/12	189/21 189/23	62/9	143/14	<b>1984 [25]</b> 8/3 9/17
SIR BRIAN	'in [3] 34/17 104/4	10.1 [1] 35/8	166,503 [1] 79/5	<b>1974 [16]</b> 29/8 30/20	31/11 79/20 79/21
LANGSTAFF: [86]	104/18	<b>10.2 [1]</b> 41/12	<b>17 [2]</b> 154/6 154/6	34/4 42/25 43/20 52/7	79/23 81/3 81/24
1/3 1/19 16/21 17/1	'insoluble' [1] 13/5	<b>10.8 [1]</b> 49/20	17,560 [1] 75/19	127/23 142/4 142/9	83/25 85/2 86/5 87/1
17/6 17/11 18/20 19/8	'non [1] 173/12	<b>10.9 [2]</b> 50/9 51/9	<b>174 [2]</b> 164/9 164/15	142/21 142/23 144/4	99/24 100/9 103/14
19/13 19/18 20/16	'non-A [1] 173/12	<b>100 [2]</b> 20/16 32/15	<b>176,333 [1]</b> 71/10	146/6 153/18 173/6	103/19 105/6 106/9
20/21 20/23 31/10	'one [1] 54/18	100 per cent [1] 36/16		173/11	106/12 106/22 108/8
40/15 40/18 40/21	'other [1] 101/7	100 years [1] 172/6	167/6	1975 [19] 128/5	110/10 169/3 188/22
41/1 43/21 43/25 47/8	'PE [1] 120/22	101,000 [1] 65/5	18 April 1979 [1] 68/3	128/11 140/14 140/16	189/7
47/20 47/25 50/3 50/8	'put [1] 170/12	104.1 [1] 132/9	18 months [1] 113/4	140/21 143/5 145/24	1984/85 [1] 14/5
51/7 51/14 53/18	'the [1] 12/2	105,564 [1] 75/21	18 months behind [1]	148/2 149/11 149/16	1985 [14] 13/16 20/17
66/17 72/10 75/3	'This [1] 137/2	10c4 [1] 97/7	112/18	150/7 150/17 151/3	20/22 83/24 84/9
1	'users' [1] 95/18	10th [1] 58/10	18 September 1975	166/14 166/24 170/9	84/11 84/15 84/23
75/23 75/25 76/8		<b>11 [7]</b> 35/7 41/11	<b>[1]</b> 145/24	170/21 175/24 180/24	87/17 112/22 112/25
78/13 81/10 83/19		82/25 135/17 144/5	18 years [1] 187/6	1976 [10] 14/2 29/8	118/7 168/11 168/12
83/22 85/24 86/2 86/9	[2] 160/10 164/9	180/13 188/1	18,210 [1] 77/17	64/9 64/11 65/17	1986 [6] 82/21 82/23
88/22 89/6 99/17		11 December [1]	184 patients [1] 187/9		83/15 83/25 86/6
99/23 100/5 100/10	0	111/5	186,992 [1] 66/21	180/14 182/7	113/11
100/14 105/12 105/21	<b>002 [3]</b> 3/8 28/20	11 January 1984 [1]	<b>189 [3]</b> 14/6 20/20	<b>1977 [13]</b> 29/11 29/13	
107/2 109/3 109/22	51/22	108/8	86/4	54/14 136/7 151/4	187/6
110/1 110/5 112/5	003 [1] 77/5	11 patients [1] 188/10		151/7 152/18 152/19	<b>1988 [15]</b> 3/9 15/17
112/17 114/14 116/24	004 [1] 79/1	<b>11,500 [2]</b> 65/7 67/16	19 October 1978 [2]	153/6 153/9 166/14	24/25 28/22 31/14
117/5 125/1 125/15	005 [1] 79/14	<b>11.16 [1]</b> 53/22	58/5 58/7	174/22 175/17	51/23 53/12 53/13
125/19 125/22 149/5	006 [1] 64/10	<b>11.44 [1]</b> 53/24	<b>190,560 [1]</b> 80/4	<b>1978 [22]</b> 23/7 58/5	113/14 114/25 117/11
149/12 155/20 164/16	008 [1] 82/23	<b>112 [2]</b> 177/2 177/8	<b>1930s [1]</b> 28/25	58/7 58/10 60/5 60/13	117/11 117/20 168/13
173/14 173/19 174/1	009 [1] 153/3	<b>12 [4]</b> 12/15 48/4	<b>194,180 [1]</b> 70/24	65/20 65/24 67/21	168/15
174/12 179/15 179/21	015 [1] 62/8	53/20 58/16	<b>1943 [1]</b> 172/10	68/3 68/19 69/25 75/7	<b>1989 [10]</b> 7/8 10/13
180/1 180/3 180/22	017 [1] 61/2	12 February 1970 [1]	<b>1950s [3]</b> 3/18 3/22	127/7 152/19 155/25	13/12 15/10 18/15
181/4 182/3 182/9	019 [2] 60/9 60/19	39/16	183/14	156/2 159/14 163/19	55/17 97/24 100/8
185/21 186/2 186/9	<b>020 [1]</b> 60/10	12 January 1973 [1]		167/21 168/1 168/15	119/2 168/19
186/14 186/17 189/19	<b>021 [1]</b> 58/2	139/14	<b>1954 [1]</b> 31/22		
7	<b>023 [1]</b> 163/5	<b>120 [1]</b> 58/15	<b>1958 [3]</b> 3/6 3/18 3/25		<b>1990 [5]</b> 23/25 31/19
	<b>024 [5]</b> 31/17 97/22		<b>1960s [6]</b> 4/3 11/22	24/8 24/9 27/13 61/3	121/20 125/21 133/17
'70s [1] 89/12	120/13 123/24 165/3	<b>120,000 [1]</b> 70/12	26/15 29/2 34/12	62/9 62/19 68/3 70/1	<b>1990s [4]</b> 2/6 23/10
	120/13 123/24 103/3	120,215 [1] 82/1	136/1	70/2 70/19 72/24	23/12 23/14
L	I	l			

(49) MS RICHARDS: - 1990s

	,				
1	106/9	422,497 [1] 78/3	72 hours [1] 113/20	76/16 85/14 86/9	achievement [5]
	250,646 [1] 66/19	43 [4] 14/16 14/17	72 per cent [1] 177/9	87/10 89/5 89/9 89/21	33/16 36/16 126/6
<b>1991 [7]</b> 15/25 16/6	26 February 1980 [1]	89/20 89/25	75 degrees [1] 113/20	90/21 91/7 92/12	128/1 129/5
17/14 17/20 182/19	5/4	<b>44 [1]</b> 3/18	75 per cent [1] 129/13		acid [2] 123/8 123/13
183/2 185/17	26 September 1988	440,051 [1] 70/22	750 [1] 146/21	100/9 100/18 102/5	acquired [2] 53/10
<b>1992 [4]</b> 15/23 18/14	[1] 114/25	441,408 [1] 80/14	<b>76 [1]</b> 64/20	106/3 108/11 113/7	98/8
18/19 25/6	26.1 [1] 184/16	45 [2] 14/8 58/16	777,776 [1] 80/19	114/20 121/20 122/8	acting [4] 25/1 25/8
<b>1994 [1]</b> 24/18	26.4 [1] 185/4	47 [1] 89/25		124/20 125/9 126/2	25/10 25/14
<b>1995 [3]</b> 179/15	<b>26.6 [1]</b> 186/5	47,920 [1] 81/16	8	127/8 127/18 128/2	Action [3] 170/8
179/18 182/25	<b>27 [1]</b> 167/24		8,500 [1] 78/18	130/11 134/19 135/7	170/10 171/14
1997 [1] 134/4	27 March 1975 [2]	5	80s [3] 4/24 57/18	135/19 135/20 136/3	actions [1] 138/10
<b>1999 [3]</b> 23/5 23/8	140/14 140/16	5 per cent [1] 160/5	133/22	137/8 137/13 137/16	active [6] 29/18
25/10	27 October 1972 [1]	<b>5-7 [1]</b> 26/14	81 haemophilia A [1]	137/22 138/12 141/13	
1st December 1984	141/9	<b>5.2 [1]</b> 180/13	82/24	141/14 141/16 141/21	162/16 168/4
<b>[1]</b> 106/12	27,160 [1] 70/14	<b>5.3 [1]</b> 34/10	82 [1] 79/23	142/14 144/11 144/16	
2	<b>27,419 [1]</b> 78/2	<b>5/17 [1]</b> 154/6	84,500 [1] 75/11	145/8 146/7 146/18	activity [7] 10/20
	<b>271,970 [1]</b> 64/24	<b>50 [2]</b> 66/15 66/17	<b>85 [1]</b> 14/5	147/10 147/19 148/14	17/15 37/12 37/22
2 o'clock [1] 105/21	<b>28 [1]</b> 114/16	50 per cent [1] 24/11	8th February 1975 [1]	149/19 151/1 151/25	37/25 38/5 91/10
2,000 [1] 146/23		<b>500 [2]</b> 146/21 158/18	140/21		
2,000-6,000 litres [1]	<b>289,630 [1]</b> 77/23	504 patients [1] 187/7		152/2 153/14 154/9	actual [3] 64/7 89/9 151/20
150/2		<b>505,844 [1]</b> 77/24	9	155/3 157/10 158/12 159/4 159/7 159/20	
2.00pm [1] 105/24	<b>290,599,000 [1]</b> 66/25		9 April 1985 [1] 87/17		actually [7] 13/16
2/16 [1] 154/4	3	506,184 [1] 80/11 50s [1] 25/21	9 July 1992 [1] 18/14	161/16 164/19 166/13	
2/6 [1] 154/3	<b>3,500 [4]</b> 78/11 78/14	<b>51 [1]</b> 66/7	9 October 1981 [1]	166/20 169/3 169/14	105/12 125/24 153/9
20 [4] 124/1 164/11	79/10 158/16		161/21	173/20 175/7 175/20	acute [12] 155/6
164/14 183/8		51 years [1] 188/13	90 [1] 97/15	176/20 176/25 178/17	160/13 161/5 161/6
200 [1] 66/15	<b>3,780 [1]</b> 83/2	520,887 [1] 74/21		178/22 179/1 179/15	161/10 163/16 163/17
2000 [2] 25/6 186/6	3-month [1] 31/3	<b>525,710 [1]</b> 80/7	90s [1] 133/22	180/19 180/24 181/24	187/8 187/10 188/1
2000/2001 [1] 186/21	3.14 pm [1] 155/22	<b>55,710 [1]</b> 78/19	<b>93,322 [1]</b> 74/18	182/23 186/4 186/22	188/10 188/16
2000s [1] 20/25	3.3 [1] 62/24	<b>557,655 [1]</b> 70/22	95 patients [1] 86/5	187/11 187/20 188/23	ad [1] 117/16
2001 [4] 25/10 25/10	<b>3.3.2 [1]</b> 63/4	<b>56,000 [1]</b> 79/6	95 per cent [1] 177/11	above [3] 122/22	add [2] 51/16 132/23
186/7 186/21	<b>3.3.3 [2]</b> 63/16 63/18	<b>59 [1]</b> 130/9	96.3 [1] 131/4	140/18 148/16	added [1] 39/8
2001/2002 [1] 20/25	3.45 pm [1] 155/24	<b>597,761 [1]</b> 74/25	970 [1] 62/15	absence [2] 143/1	addicts [2] 135/14
2002 [1] 20/25	<b>3/17 [1]</b> 154/6	6	<b>98 [1]</b> 86/6	151/11	173/3
2005 [1] 25/13	<b>30 [1]</b> 34/3		9d [1] 101/6	absolute [1] 126/21	addition [5] 1/20
2006 [1] 25/17	30 March 2021 [1] 1/1		Α	absolutely [3] 99/13	36/11 49/11 52/22
2008 [1] 25/7	30 per cent [1] 164/16	110/10		179/17 180/6	72/4
202,300 [1] 81/20	30 September 1980	6 November 1978 [1]	ability [2] 31/7 171/21	accept [1] 178/3	additional [3] 61/22
2020 [2] 21/13 44/11	<b>[1]</b> 93/1	60/13	able [7] 2/15 9/1 21/7	acceptable [1] 110/19	
<b>2021 [3]</b> 1/1 34/7	30,000 [1] 62/15	6 November 1989 [1]	22/16 93/15 113/2	accepted [1] 94/9	Additionally [1] 55/10
133/17	<b>30,315 [1]</b> 82/2	55/17	121/15	accepting [1] 166/4	additions [1] 12/15
21 February 2020 [1]	300,000 [1] 59/15	6,000 litres [1] 146/23		access [2] 31/2 113/3	address [2] 48/1
44/11	30th December [1]	6-month [1] 102/20	abnormal [8] 139/24	accessible [1] 56/5	97/18
<b>214,716 [1]</b> 67/22	108/10	6.2 [1] 182/16	159/8 166/15 179/6	accidents [1] 86/22	addressed [6] 3/12
<b>22 [2]</b> 21/14 58/20	31 January 1974 [2]	60,000 [1] 66/16	179/13 180/8 181/11	accommodate [1]	18/19 90/7 110/11
22 September 1977	42/25 142/9	609,935 [2] 78/11 79/9		28/4	165/16 175/14
[1] 153/9	32,870 [1] 75/19	61 [1] 20/10	abnormalities [3]	accord [1] 54/15	addresses [1] 120/11
22 September 1980	334,390 [1] 66/25	63 [2] 14/12 70/6	167/22 168/10 168/22	accordance [1]	addressing [1] 76/1
	<b>37 [1]</b> 64/16	63,809 [1] 74/24	about [140] 1/12 3/14	178/18	adequacy [1] 189/17
[ <b>1</b> ] 157/21 22.1 [1] 183/9	371 [1] 136/21	65 [2] 73/23 132/8	3/17 5/13 7/23 8/4	according [3] 4/7	adequate [1] 31/2
	376,190 [1] 64/24	661 vials [1] 110/23	10/10 13/24 15/1 16/7	29/23 146/10	adhere [2] 55/2 72/7
23 February 1981 [1]	38 [1] 84/21	69,810 [1] 80/7	18/16 19/7 20/16 21/8	accords [1] 78/7	adhered [1] 55/1
100/20	<b>39 [1]</b> 113/13	7	25/25 27/14 28/24	account [2] 95/4	Adjourned [1] 189/23
24 [2] 20/12 153/24	394,800 [1] 80/11	7	30/6 31/11 31/20	111/11	Adjournment [1]
24 October 1977 [1]		7 batches [1] 113/24	35/18 35/19 35/22	accrued [3] 31/4	105/23
151/7	4	7 May 1981 [1] 101/21	36/6 38/3 39/13 39/15	124/14 129/8	adjust [2] 50/22 51/10
<b>24,240 [1]</b> 80/13	4 February 2021 [1]	70 [1] 32/15	40/4 40/6 41/3 42/19	accurate [7] 12/11	administered [2]
<b>24-hour [1]</b> 56/7	34/7	70 out [1] 164/9	43/6 43/18 44/3 45/14	68/6 68/11 85/22	48/15 122/20
<b>24.1 [1]</b> 184/8	4,000 [1] 80/22	70s [3] 5/15 29/9	47/9 47/18 52/3 53/13	126/12 133/3 166/3	administration [2]
<b>25 [1]</b> 14/14	4.34 pm [1] 189/22	92/17	54/7 54/10 55/23	achieve [3] 32/2	38/22 56/7
25 May 1984 [1]	4/6 [1] 154/5	71 years [1] 29/10	58/23 58/24 59/10	124/18 129/18	administrative [1]
103/14	40 [1] 14/18	71,370 [1] 74/9	59/11 60/6 62/1 64/7	achieved [3] 111/24	102/9
25 October 1984 [1]	41,000 [1] 67/14	72 [1] 77/9	67/7 67/17 76/11	112/1 129/17	admission [1] 140/24

(50) 1991 - admission

٨	116/23 120/1 120/2	98/23 99/1 99/9 99/24	132/20 134/24 179/9	124/21 124/24 126/4	104/7
<u>A</u>	121/23 122/13 123/3	103/23 105/10 106/12	189/23	159/6 164/25 181/18	appear [26] 8/8 8/15
admissions [2] 30/24	123/22 131/7 139/9	109/6 113/6 114/17	amalgamated [1] 21/2	182/5 187/9	13/18 14/3 16/15 17/7
31/7	140/15 141/4 142/1	118/7 118/10 122/12	amazing [1] 63/15	annum [1] 115/6	18/17 49/12 52/25
admitted [2] 41/16	142/13 143/15 148/5	123/22 132/11 133/24	ameliorate [1] 63/9	another [6] 10/6 28/4	65/8 69/21 78/6 85/5
	152/22 153/12 156/13	138/2 144/7 144/14	America [1] 160/4	48/6 67/16 69/18	85/22 87/6 92/3 96/25
adopted [4] 50/6 54/14 171/3 189/17	157/16 164/21 165/24	146/15 149/7 150/19	American [4] 53/4	114/20	100/3 104/14 106/22
adult [12] 4/8 21/10	170/14 180/10 180/18	150/22 154/17 159/7	85/9 85/16 167/2	answer [4] 73/5 106/6	117/3 119/12 151/20
21/11 21/16 22/4 22/6	181/22 183/1	160/18 165/7 169/19	among [1] 138/25	107/3 129/19	176/3 177/22 179/11
22/18 24/12 24/14	against [4] 121/7	169/22 175/12 178/2	amongst [4] 13/9	answered [2] 73/8	appearance [1] 83/14
26/25 32/20 37/5	121/8 124/17 171/8	179/10 180/24 184/19	100/20 166/16 189/9	161/8	appearances [1]
adults [2] 35/16 48/18	age [6] 21/16 21/17	185/11 185/24 188/19	amount [21] 8/10 8/13	answering [1] 155/1	162/15
advance [1] 117/1	21/19 22/3 22/11 26/7	allergic [2] 37/4 38/16		anti [1] 103/2	appeared [1] 174/6
advantages [7] 27/21	aged [1] 188/13	allocate [1] 115/10 allocation [5] 97/12	67/24 70/14 74/8 74/10 74/24 74/25	anti-D [1] 103/2 antibodies [9] 64/17	appearing [1] 96/3
33/23 39/5 39/9 60/18	agenda [3] 130/21 142/2 156/8	97/14 115/5 115/12	77/16 77/19 77/22	64/21 66/8 70/7 70/9	appears [24] 3/12 9/4 17/3 19/9 25/2 58/11
96/13 121/16	agent [3] 99/10	118/13	78/17 83/1 131/20	79/3 81/15 136/24	60/5 65/10 66/24
advent [1] 25/22	122/18 185/10	allow [1] 122/24	131/23 132/19 149/2	146/4	71/12 71/12 72/23
adverse [4] 33/5	agents [4] 98/23 99/1	allowed [1] 12/3	amounts [5] 36/14	antibody [2] 67/8	80/24 88/24 92/15
113/24 178/22 179/1	137/8 148/23	almost [4] 56/8 142/2	41/17 50/13 67/9	138/22	100/7 101/19 105/6
advice [1] 103/22	ages [1] 26/13	184/22 185/6	170/1	anticipated [2] 109/5	106/21 106/24 108/19
advisability [1] 152/6	Agnaf [1] 24/19	along [1] 37/13	amused [1] 48/18	110/23	134/2 166/4 168/24
advising [1] 140/7 Advisory [4] 93/20	ago [6] 28/21 50/4	Alpha [2] 83/7 117/24	an arrangement [1]	anticipation [2]	appendix [3] 153/10
94/11 100/16 100/19	172/6 186/4 186/8	already [8] 9/2 23/22	132/17	110/18 112/6	153/11 164/9
advocacy [1] 91/12	186/13	24/3 26/7 36/12 51/24	an article [1] 167/25	antigen [18] 73/6	appendix C [1]
advocate [2] 92/4	agree [2] 9/22 61/20	85/10 123/23	an earlier [1] 129/8	138/12 138/20 138/22	153/11
92/5	agreed [12] 5/16 6/2	also [55] 1/14 2/11	an economy [1] 86/20		Appendix I [1] 164/9
advocated [1] 123/2	6/2 36/7 42/10 101/8	4/20 6/2 15/9 15/15	an equal [1] 185/12	140/19 141/17 142/19	Application [1] 97/8
aegis [1] 14/18	101/14 106/11 108/12	21/7 23/8 23/14 23/22	an equivalent [1] 104/11	145/8 145/14 148/15	applied [2] 96/21 170/2
affected [15] 30/18	108/22 144/24 157/12 agreement [4] 6/8	24/19 25/16 27/25 32/24 33/9 37/16	an error [1] 51/1	148/22 164/1 172/23 187/8 187/16	apply [3] 101/9
30/19 32/20 33/11	102/13 102/17 102/24	37/21 40/15 49/22	an evolving [1] 184/6	antigen in [1] 142/19	101/16 158/19
36/11 44/19 45/5	agrees [1] 10/3	59/1 64/14 66/1 69/24	an excellent [2] 13/3	anxiety [1] 127/24	appointed [4] 11/9
52/23 72/14 123/15	Ah [2] 16/23 186/14	72/25 73/17 73/19	132/24	anxious [2] 35/22	13/3 24/9 36/5
126/9 158/22 171/2	aid [2] 37/19 128/12	75/1 75/20 83/16 90/7	an exchange [2] 7/25	117/15	appointment [1] 13/7
188/24 189/5	aided [1] 10/18	92/5 92/12 102/23	107/21	any [43] 2/13 2/13	appointments [1]
affirmative [1] 129/10 aforesaid [1] 132/2	AIDS [4] 85/7 85/14	103/1 116/24 122/1	an expensive [1]	9/12 10/4 14/3 19/6	178/19
afraid [3] 106/6 154/1	176/22 176/23	133/20 135/16 136/12	58/21	20/8 26/12 35/23 40/6	appreciate [2] 61/24
173/17	aiming [1] 102/15	141/20 144/7 147/22	an incidence [1]	40/7 42/4 48/21 49/23	133/9
after [21] 5/21 11/25	al [6] 121/1 121/4	149/13 150/13 159/15	177/9	60/3 60/25 61/22	appreciated [3] 173/1
22/2 27/13 42/12	149/4 150/6 172/13	163/3 168/6 168/15	an undergraduate [1]	71/14 82/6 85/17	175/1 179/20
50/14 53/17 88/23	173/6	171/1 178/21 180/8	183/14	86/14 88/10 88/18	apprehension [2]
105/20 108/15 111/16	alarming [2] 38/18 139/25	183/22 184/12 186/13 188/3	an unnecessarily [1] 144/22	90/18 93/6 100/11 102/22 106/23 109/5	45/14 178/22
113/21 115/7 139/19	Albeit [1] 143/3	ALT [1] 174/18	an update [1] 20/1	112/7 113/3 117/3	apprehensive [1] 35/22
143/8 153/19 155/6	albumin [1] 94/10	Alter [3] 173/11	anaemia [1] 20/1 anaemia [1] 178/20	118/6 119/23 126/23	approach [3] 60/4
170/9 172/4 188/11	Aledort [1] 168/11	173/15 173/23	anaphylactoid [1]	152/9 156/20 164/3	90/4 92/6
188/18	all [89] 1/6 1/22 6/24	alterations [1] 118/1	33/7	170/2 173/8 179/7	appropriate [8] 7/22
afternoon [1] 52/2	7/14 10/20 12/6 12/8	alternative [1] 39/6	anaphylaxis [1]	179/11 179/24	18/11 68/20 104/14
again [66] 1/22 11/13	14/21 17/22 18/6	alternatives [1] 170/2	121/14	anyone [1] 22/14	105/1 115/9 119/2
15/20 22/16 24/24 25/2 25/15 28/12	28/22 31/1 34/8 35/25	although [12] 18/15	Anderson [4] 2/11	anything [4] 39/8 41/4	
37/19 55/9 55/17	39/2 44/6 44/23 45/1	22/5 26/14 27/24	21/7 25/11 134/9	55/23 97/3	approve [1] 5/25
55/23 61/3 65/24	45/3 47/23 48/13	66/22 89/13 93/15	anicteric [1] 146/8	anyway [1] 125/11	approximately [9]
67/12 68/24 69/5	48/15 49/6 49/7 52/8	110/16 111/25 132/14	animal [2] 59/20	apart [3] 35/10 127/9	4/13 26/14 43/13
69/16 70/12 71/17	52/22 55/11 56/3	160/13 185/8	120/16	181/9	80/20 111/2 115/11
71/21 72/1 74/7 76/9	60/10 65/9 65/22 66/3 68/21 69/11 72/9	always [8] 18/9 19/1 49/24 55/2 72/7 91/8	annual [30] 12/9 47/22 49/15 55/4 58/1	apologies [8] 10/8 26/4 60/9 93/3 142/25	158/16 158/18 160/5
76/10 76/12 76/24	72/17 74/11 74/22	152/25 182/22	59/4 64/6 64/8 64/11	151/10 151/11 156/13	April [5] 68/3 87/17 94/2 112/25 138/2
78/18 80/9 81/20	75/12 75/15 76/24	am [16] 1/2 9/1 53/22	65/19 65/24 66/4 70/2	apparent [7] 36/20	April 1985 [1] 112/25
81/25 82/5 83/8 85/21	81/22 83/8 83/21 84/5	53/24 61/6 102/12	72/24 73/21 79/21	78/4 81/4 104/2	are [126] 2/11 5/2
89/16 89/22 98/18	84/18 85/2 85/4 87/1	102/23 108/4 108/6	90/13 120/9 121/21	167/21 179/8 180/8	7/13 7/21 11/2 11/3
99/11 114/22 116/17	91/2 97/21 98/12	116/3 119/11 131/24	122/14 123/3 123/5	apparently [2] 16/5	12/5 14/12 14/15
1	1				

(51) admissions - are

	1				
Α	arranged [3] 42/6	105/6 106/12 106/24	asterisks [1] 65/14	Autoplex: [1] 79/10	185/9
	131/18 182/25	107/7 107/7 107/25	asthma [1] 121/13	Autoplex: 156,870 [1]	batch [5] 37/25 37/25
are [117] 14/22	arrangement [19]	108/17 108/19 108/20	asymptomatic [2]	79/10	111/24 143/24 158/15
17/10 18/5 19/18 20/3	6/25 7/15 8/18 97/19	109/7 110/21 111/22	167/20 168/1	autumn [1] 75/7	batches [8] 38/5
23/17 33/21 33/21	98/20 103/8 103/10	111/22 112/15 116/3	attached [3] 17/22	availability [6] 32/1	110/20 113/24 154/4
33/25 34/2 37/6 38/22	104/19 105/5 107/8	116/4 117/6 117/18	17/24 106/13	50/24 54/21 66/24	
42/21 51/15 51/21					154/4 154/5 154/7
58/15 58/16 58/22	107/14 108/20 108/23	118/15 119/11 119/25	attack [3] 154/22	85/13 127/16	167/2
61/7 61/8 61/9 65/13	109/18 109/20 116/3	119/25 120/22 121/11	157/10 167/7	available [32] 3/23	Baxter [2] 59/2 122/10
68/5 68/11 68/13	118/24 131/17 132/17	121/12 121/19 123/15	attacks [3] 121/14	4/1 21/5 26/15 27/19	be [231]
68/15 68/21 68/23	arrangements [26]	123/21 126/22 127/1	154/21 161/10	46/24 48/16 56/6	be rather [1] 9/18
69/1 69/24 71/17	10/11 21/4 21/8 80/6	127/10 129/24 130/23	attempting [2] 49/8	56/17 63/7 63/22	became [24] 12/1
71/17 72/1 72/4 72/11	88/20 92/9 92/16	130/24 131/12 131/13	162/7	65/11 66/24 81/6 84/2	14/1 23/2 24/25 25/11
73/4 73/8 73/10 73/13	94/12 94/22 102/24	132/2 133/13 133/13	attend [5] 5/25 6/12	85/21 91/19 103/6	26/15 30/17 45/8
74/18 78/4 78/15 79/2	103/17 105/19 106/1	133/18 135/13 137/16	7/2 7/17 31/8	111/16 112/4 112/14	46/24 50/21 51/5 51/9
79/21 81/11 82/8	106/16 106/21 107/6	140/3 140/6 140/10	attendance [6] 137/19	115/24 123/17 127/20	53/3 85/20 89/21
	110/7 110/19 111/21	142/11 147/8 147/21	138/3 142/25 148/7	131/6 145/1 160/8	112/14 130/25 131/5
82/12 82/17 82/18	117/16 118/19 119/10	147/21 148/4 149/1	156/12 158/3	168/20 176/4 180/21	132/1 134/22 139/21
84/19 84/22 86/13	119/16 120/2 128/16	149/13 150/13 152/16	attended [1] 8/7	181/8 182/12	167/7 167/21 170/5
87/23 87/25 88/2 88/4	132/2	152/25 153/6 153/10	attendees [4] 136/8	average [3] 32/14	because [40] 14/25
88/6 88/19 91/4 95/7	arranging [1] 92/14	153/17 158/1 158/3	141/10 145/25 151/8	32/15 95/20	18/25 19/2 22/13
95/10 95/20 98/24	arrived [4] 42/12	159/7 159/7 165/20	attending [3] 145/12	avoid [3] 55/12 90/24	26/21 28/6 29/16
102/15 103/4 104/12	108/14 108/17 116/16	168/19 169/24 170/25	155/14 157/25	189/4	36/23 39/25 40/5
105/18 107/19 108/3	arrived with [1]	172/18 173/20 174/3	attention [3] 143/10	avoided [1] 58/22	45/20 49/15 59/2 62/6
108/18 110/16 111/9	116/16	174/17 174/18 177/10	143/12 148/6	awaiting [1] 159/9	80/5 81/5 85/13 86/3
114/5 114/7 114/10	arrow [1] 67/2	177/10 177/14 177/14	attributable [2] 29/16	awaken [1] 59/6	90/16 91/4 93/13
115/2 115/21 119/21	article [17] 10/7 10/10	179/19 180/22 181/14	136/22	aware [9] 102/1	99/20 102/20 108/13
119/21 121/15 121/16	15/8 15/12 15/18	181/21 183/1 183/2	attributed [1] 162/20	107/20 108/6 134/22	109/9 109/20 112/12
121/17 121/23 124/10	18/15 90/8 91/15	183/13 184/3 184/3	audit [8] 15/25 16/1	134/25 135/2 145/15	112/17 115/19 125/2
125/7 126/21 127/2	150/9 167/25 168/14	184/19	16/6 16/15 17/13	170/5 184/9	125/16 135/12 140/8
128/7 128/8 133/16	170/21 174/5 185/1	ascertain [1] 169/4	17/18 17/19 19/11	awareness [1] 169/17	156/3 177/13 177/17
133/25 134/8 136/6	187/1 187/2 188/20	ashamed [1] 173/17	audited [1] 16/3	away [2] 83/22 105/8	178/21 179/1 179/24
138/10 140/6 141/2	articulated [2] 150/14	aside [1] 129/4	auditing [2] 17/3 17/4	awry [1] 135/18	185/24
145/23 148/22 148/23	189/7	ask [1] 159/5	auditors [1] 16/4	awiy[i] 100/10	become [8] 6/8 55/7
150/1 151/5 152/1	as [188] 1/6 2/2 2/4	asked [13] 6/3 19/20	August [7] 13/16	В	61/20 61/23 81/3
153/22 156/10 162/7	2/4 2/15 5/22 6/3 6/4	48/5 59/10 59/11	17/20 24/22 84/11	back [26] 3/11 10/7	104/1 115/23 177/17
162/10 162/11 164/8	6/10 6/11 6/21 6/22	62/13 113/10 116/25	84/15 84/23 139/17	13/22 15/1 15/8 22/8	becomes [1] 129/6
164/19 171/22 173/23	8/17 8/21 9/2 9/8 9/24	130/11 133/1 135/19	August '82 [1] 24/22	26/2 28/3 35/18 41/9	becoming [2] 31/7
176/1 180/6 181/20	10/5 11/3 12/2 14/2	137/12 170/12	August 1985 [2]	45/9 47/3 47/21 59/22	145/20
185/24 186/23 189/8			84/15 84/23	68/13 86/2 86/15	
area [4] 14/14 18/2	14/5 14/6 16/14 17/14 20/4 20/13 21/25	asking [3] 2/22 5/24 87/18		89/22 101/1 108/25	bed [1] 26/19
59/16 181/19			August 1991 [1]	109/10 125/3 138/2	beds [1] 15/11
areas [1] 17/25	21/25 22/25 23/22	aspects [2] 1/14 101/3	17/20	141/23 155/20 177/6	bedside [1] 16/7
aren't [1] 20/7	24/6 24/19 25/17		August/September		been [89] 1/10 1/17
argument [1] 125/17	26/11 26/12 26/19	asserting [1] 167/13	<b>1972 [1]</b> 139/17	background [1] 93/22	
arise [5] 8/21 27/22	28/14 31/5 31/15	assertions [1] 171/10	auspices [1] 9/9	bad [1] 144/22	9/4 11/21 12/14 17/3
36/24 115/22 133/14	31/24 31/24 32/1	asserts [1] 170/16 assess [1] 87/19	Australia [13] 138/12 138/20 138/22 139/3	balance [2] 9/21 94/18	18/9 18/18 19/1 19/21
arisen [1] 117/19	32/11 35/20 36/20	ASSESS FTL 07/19	1.10/20 1.10/22 1.19/3	204/10	22/2 22/10 25/3 26/13
arising [1] 144/12					
anong [1] 144/12	38/17 40/9 40/24	assessed [3] 33/15	139/20 140/2 140/19	balanced [2] 119/21	26/18 26/25 28/10
Armour [15] 46/22	38/17 40/9 40/24 42/22 43/20 44/22	assessed [3] 33/15 140/25 157/3	139/20 140/2 140/19 141/17 142/18 145/8	balanced [2] 119/21 124/17	26/18 26/25 28/10 29/3 34/14 39/9 40/15
	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23	balanced [2] 119/21 124/17 bank [5] 12/5 34/18	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5
Armour [15] 46/22	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18	<b>assessed [3]</b> 33/15 140/25 157/3 <b>assessment [2]</b> 94/24 113/10	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associate [16] 33/7 37/7 37/21 134/23	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17 around [11] 4/12 4/20	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14 75/25 76/22 81/18	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23 165/9 175/9 184/10	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11 95/20	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14 basis [15] 37/23	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16 113/23 113/24 114/9
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17 around [11] 4/12 4/20 21/20 22/3 25/13	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14 75/25 76/22 81/18 82/11 85/1 85/1 90/1	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23 165/9 175/9 184/10 Association [2] 10/23	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11 95/20 authorship [1] 186/21	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14 basis [15] 37/23 40/19 40/23 45/12	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16 113/23 113/24 114/9 116/19 116/25 117/15
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17 around [11] 4/12 4/20 21/20 22/3 25/13 26/15 60/8 89/14 103/8 130/16 130/20	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14 75/25 76/22 81/18 82/11 85/1 85/1 90/1 91/6 92/1 92/1 92/23	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23 165/9 175/9 184/10 Association [2] 10/23 11/3	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11 95/20 authorship [1] 186/21 Autoplex [5] 78/11	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14 basis [15] 37/23 40/19 40/23 45/12 50/5 52/5 57/9 94/24	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16 113/23 113/24 114/9 116/19 116/25 117/15 118/4 126/3 129/17
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17 around [11] 4/12 4/20 21/20 22/3 25/13 26/15 60/8 89/14	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14 75/25 76/22 81/18 82/11 85/1 85/1 90/1 91/6 92/1 92/1 92/23 92/23 93/24 94/2 96/5	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23 165/9 175/9 184/10 Association [2] 10/23 11/3 assumption [1]	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11 95/20 authorship [1] 186/21 Autoplex [5] 78/11 78/14 83/11 99/5	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14 basis [15] 37/23 40/19 40/23 45/12 50/5 52/5 57/9 94/24 103/7 115/10 118/10	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16 113/23 113/24 114/9 116/19 116/25 117/15 118/4 126/3 129/17 135/2 136/21 139/6
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17 around [11] 4/12 4/20 21/20 22/3 25/13 26/15 60/8 89/14 103/8 130/16 130/20 arrange [2] 111/19	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14 75/25 76/22 81/18 82/11 85/1 85/1 90/1 91/6 92/1 92/1 92/23	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 assist [1] 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23 165/9 175/9 184/10 Association [2] 10/23 11/3	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11 95/20 authorship [1] 186/21 Autoplex [5] 78/11	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14 basis [15] 37/23 40/19 40/23 45/12 50/5 52/5 57/9 94/24	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16 113/23 113/24 114/9 116/19 116/25 117/15 118/4 126/3 129/17
Armour [15] 46/22 51/4 51/19 57/13 74/14 76/21 77/19 79/5 80/10 81/16 82/11 82/14 83/7 85/9 109/23 Army [1] 95/22 arose [2] 7/23 36/17 around [11] 4/12 4/20 21/20 22/3 25/13 26/15 60/8 89/14 103/8 130/16 130/20 arrange [2] 111/19	38/17 40/9 40/24 42/22 43/20 44/22 46/8 48/9 48/20 49/4 50/1 51/17 53/9 54/18 54/18 56/25 57/9 57/16 60/4 61/9 65/3 66/3 66/18 68/7 68/11 68/11 69/7 69/9 69/13 69/23 70/15 71/16 72/3 72/3 72/11 73/5 74/11 74/19 75/14 75/25 76/22 81/18 82/11 85/1 85/1 90/1 91/6 92/1 92/1 92/23 92/23 93/24 94/2 96/5	assessed [3] 33/15 140/25 157/3 assessment [2] 94/24 113/10 associate [1] 25/7 associated [16] 33/7 37/7 37/21 134/23 137/3 137/5 149/20 150/4 150/10 153/8 154/7 154/16 162/23 165/9 175/9 184/10 Association [2] 10/23 11/3 assumption [1]	139/20 140/2 140/19 141/17 142/18 145/8 148/15 148/22 172/23 author [1] 10/16 authored [9] 3/11 13/19 17/12 23/23 54/4 55/18 165/2 171/24 172/2 authorities [4] 3/13 94/5 94/8 96/23 Authority [2] 95/11 95/20 authorship [1] 186/21 Autoplex [5] 78/11 78/14 83/11 99/5	balanced [2] 119/21 124/17 bank [5] 12/5 34/18 61/13 99/8 111/12 bar [1] 118/24 barring [1] 118/13 basal [1] 122/23 based [5] 24/5 95/1 95/11 128/23 147/16 baseline [1] 98/1 basic [1] 173/14 basis [15] 37/23 40/19 40/23 45/12 50/5 52/5 57/9 94/24 103/7 115/10 118/10	26/18 26/25 28/10 29/3 34/14 39/9 40/15 40/19 40/23 46/5 48/5 48/12 51/12 55/2 58/11 58/25 59/11 67/1 67/4 69/22 72/24 75/6 79/4 87/2 92/15 96/8 98/12 101/14 102/1 103/16 104/19 106/11 109/4 109/9 109/15 112/5 112/16 113/23 113/24 114/9 116/19 116/25 117/15 118/4 126/3 129/17 135/2 136/21 139/6

(52) are... - been

	1	1	1		
В	14/15 16/2 16/6 17/3	BHCT0000757 [1]	bloods [1] 178/19	53/19 53/23 103/12	117/7 120/1 121/12
	17/9 17/23 21/3 21/23	140/13	Bloom [5] 5/15 6/19	105/21 155/19 155/23	121/22 122/11 123/4
been [19] 148/12	22/24 23/4 24/5 24/5	BHCT0000768 [1]	87/16 112/24 157/24	breakdown [2] 71/2	124/9 125/8 125/16
150/5 150/16 155/12	24/10 25/1 29/7 41/15	139/11	blown [1] 53/10	81/13	126/6 129/21 130/17
156/14 159/2 161/4	42/8 42/12 42/17 43/3	BHCT0000784 [1]	BMJ [1] 149/8	breathing [1] 33/8	131/9 131/24 133/24
162/19 163/17 164/11	43/11 54/6 58/10	39/14			
169/11 170/12 177/2			Board [10] 14/13	Brian [2] 34/16 108/9	134/24 135/5 139/3
179/9 179/19 181/23	97/12 97/13 101/16	BHCT0000907 [1]	14/17 14/17 14/18	Bridges [17] 2/9 4/11	139/24 139/25 141/3
183/12 184/3 186/18	101/19 103/21 107/20	87/12	102/9 103/13 106/9	10/19 24/3 24/17	143/1 143/10 144/7
Beeson [1] 172/10	108/3 108/12 108/18	Bidwell [3] 63/13	115/12 115/13 119/9	25/25 26/2 35/15 36/3	144/14 144/24 147/22
before [19] 1/24 8/18	110/1 110/22 110/24	63/15 132/16	Boards [1] 14/16	39/11 42/2 73/17 93/2	148/9 149/16 151/1
17/1 22/3 34/24 42/21	111/3 112/4 114/17	Biggs [7] 127/7 138/7	body [2] 76/3 172/5	134/18 135/15 136/9	151/11 151/20 152/22
	115/3 116/19 120/3	142/16 143/14 143/16	bone [1] 86/22	146/1	153/8 154/6 155/4
51/20 57/25 67/25	121/2 121/24 122/4	144/16 146/5	books [1] 58/16	Bridges' [6] 21/18	156/5 156/5 156/13
83/19 84/16 98/18	122/6 123/6 131/21	Biggs' [1] 141/14	border [1] 9/20	35/9 65/25 136/4	161/15 163/20 164/10
102/22 103/12 105/25	132/21 136/10 137/24	biopsies [3] 152/12	borne [2] 55/3 85/5	137/11 148/7	165/7 166/5 166/17
111/14 171/25 185/23	139/10 139/13 142/12	157/6 162/5	Boston [1] 41/23	brief [1] 25/16	168/15 170/21 172/2
186/23	142/24 145/19 146/1	biopsy [6] 152/6	both [28] 11/2 25/24	bringing [1] 125/8	173/21 174/22 176/14
began [5] 52/7 103/8		159/10 159/13 159/19			176/24 177/20 178/8
112/4 152/20 187/16	147/9 147/12 148/6		43/18 50/22 51/10	British [1] 172/9	
begin [1] 134/18	151/10 152/21 153/13	162/15 162/17	52/24 76/17 77/20	broad [2] 47/20 72/10	179/15 179/16 179/17
beginning [5] 90/21	153/22 154/2 156/12	Birch [1] 28/24	79/17 82/11 96/16	broader [3] 23/21	180/2 180/6 180/8
100/24 111/13 123/9	187/18 189/10	bit [2] 162/25 173/20	101/12 102/19 115/2	43/7 183/3	184/3 184/11 186/12
176/14	believe [2] 132/23	bits [1] 139/8	115/2 115/19 118/20	broadly [1] 94/24	buying [1] 59/7
begins [2] 13/18	133/12	Blackburn [1] 5/8	122/13 132/6 133/18	broken [2] 14/6 74/4	by [136] 1/11 1/23
	believes [1] 59/18	blank [1] 151/21	134/15 150/3 150/12	brought [1] 41/25	2/24 3/5 3/12 10/11
83/23	below [9] 3/21 14/11	bleed [6] 50/16 50/17	167/5 169/9 173/2	Brown [1] 41/23	10/13 10/18 10/25
begun [1] 153/18	14/19 16/5 28/12	85/1 91/11 140/22	178/16 180/17	Brown University [1]	11/10 12/25 13/12
behalf [3] 151/16	36/25 65/13 88/13	170/15	bottles [1] 116/15	41/23	13/19 15/10 15/13
151/25 152/24	110/25	bleeding [14] 3/23 4/9		BTS [1] 96/9	15/17 16/3 16/4 16/24
behind [1] 112/18	beneath [1] 43/1	4/14 11/18 14/6 24/8	27/3 32/23 44/12	budgeting [1] 87/4	17/12 17/21 18/17
being [84] 5/7 12/18	beneficial [1] 118/19	32/5 32/25 37/20	51/25 58/5 67/23	build [1] 47/23	18/19 19/11 19/20
15/16 15/18 30/18					
34/4 34/24 39/20	benefit [5] 59/19	41/17 41/18 42/13	71/24 78/9 79/11	Bulletin [5] 7/8 10/7	19/23 20/16 22/15
41/24 46/19 47/1	119/18 124/11 129/9	91/5 126/16	80/17 82/9 82/10	15/8 18/15 90/10	23/21 23/23 24/17
47/13 47/15 50/1 51/7	169/22	bleeds [3] 91/7 167/9	84/14 93/4 93/5 95/17	business [3] 45/21	26/25 27/9 29/13
57/17 61/18 64/22	benefits [2] 31/4	167/17	122/16 122/16 125/4	48/19 163/9	29/24 30/2 30/12
66/5 66/14 67/9 68/17	124/16	blood [89] 8/24 9/2	126/18 128/4 131/3	business-like [2]	31/11 32/8 32/10
70/14 70/18 75/2 75/9	benign [1] 184/3	11/21 12/1 12/4 12/5	135/17 135/18 136/11	45/21 48/19	34/14 34/24 42/7 43/6
75/11 76/11 77/20	Benson [5] 2/17 15/6	13/23 14/21 20/13	136/16 138/13 138/18	but [149] 2/4 6/16	44/22 45/15 46/13
77/25 78/1 78/5 78/10	21/7 22/16 134/10	22/1 24/13 24/23	141/10 141/12 143/13	10/2 13/23 14/3 15/9	48/13 54/4 55/3 55/18
	Benson's [1] 25/15	25/20 27/4 27/10 30/2	145/7 146/17 151/8	18/25 19/15 19/21	56/10 57/13 70/16
83/5 83/7 83/8 83/13	Besson [1] 172/19	33/9 34/18 34/21	151/14 160/24 165/7	20/5 20/7 20/8 21/20	71/19 71/21 72/16
86/21 88/14 88/19	best [6] 27/9 45/18	37/24 39/2 42/23	166/23 168/17 169/13	27/13 28/10 29/8	77/19 83/9 84/23 85/5
89/14 93/9 97/6 98/3	58/22 119/17 131/21	42/24 44/14 46/14	178/14 183/8 187/13	29/13 32/3 33/10 34/2	87/2 87/7 87/7 88/19
100/7 102/17 103/21	184/23	52/20 61/13 84/18	Bournemouth [4]	35/2 38/18 39/8 40/13	90/7 90/14 93/3 94/18
106/24 109/13 114/13	better [2] 162/16	87/3 87/9 91/10 93/21	143/19 143/24 150/9	41/4 41/6 42/20 43/18	94/19 94/20 101/14
116/14 122/2 123/5	177/12	94/1 94/4 94/7 95/24	167/1	43/22 47/23 48/1	102/19 104/8 106/15
134/25 137/12 139/10		96/5 96/15 96/22			
140/11 140/25 141/19	between [27] 7/15		BPL [22] 40/24 87/25	49/19 52/2 53/17	111/4 112/24 113/1
146/7 148/4 150/14	7/25 14/16 21/5 32/15	97/25 98/2 98/3 98/7	88/6 88/8 92/14 94/7	58/21 58/24 59/17	114/12 114/15 114/15
152/1 152/11 152/23	49/10 72/10 83/25	98/8 98/11 98/14 99/3	94/15 94/23 95/9 96/1	61/8 61/25 63/14	115/19 115/21 119/21
153/5 156/19 157/17	96/8 96/18 101/19	99/8 99/25 100/17	96/9 96/12 96/14 97/3		120/11 121/3 122/20
159/10 163/1 164/24	101/20 102/2 108/20	100/25 101/11 101/25		68/13 68/24 69/11	125/4 125/10 129/21
166/1 168/10 169/9	108/22 114/20 114/21	102/4 102/6 102/10	101/17 105/16 112/16		134/3 140/12 141/1
	118/23 120/2 125/11	103/5 103/17 106/5	113/3 131/14	73/19 76/10 76/12	141/19 143/19 145/16
173/20 176/18 177/11	137/9 182/13 183/1	106/10 106/12 106/14	BPL product [1]	76/14 76/25 78/3 78/8	146/5 148/19 149/3
179/7 180/7 181/12	184/1 187/6 188/11	106/17 107/15 111/12	40/24	80/24 81/21 82/8 83/6	149/8 150/6 150/16
182/8 183/22 189/7	188/16	114/3 123/18 123/19	brackets [5] 20/7 20/7		152/24 157/18 160/2
189/15	BHCT0000501 [1]	127/19 129/13 134/23	75/3 128/23 188/2	86/20 88/18 92/5 93/3	161/3 161/24 162/4
being transmitted [1]	106/8	134/23 138/25 139/2	brain [1] 36/13	96/25 97/20 98/9	163/2 163/18 165/2
50/1	BHCT0000503 [2]	140/19 142/8 148/11	brand [4] 54/20 55/7	100/3 103/4 105/4	166/14 167/2 167/21
Belfast [82] 1/5 1/7	13/14 84/10	1	56/10 57/10		
1/17 3/5 4/25 5/20		150/19 150/22 171/19		105/20 106/7 106/20	168/1 168/11 168/22
5/22 6/4 6/8 7/2 7/3	BHCT0000622 [1]	172/14 174/15 183/11	brand' [1] 54/19	107/3 107/23 109/4	168/25 170/21 171/3
7/15 7/17 8/7 8/16	9/16	183/17 187/8 187/17	Braynion [1] 107/18	109/15 110/11 112/4	171/4 171/19 171/24
	BHCT0000623 [1] 8/2	188/7 188/7 188/11	break [8] 51/20 53/17	112/8 113/6 114/7	172/2 172/13 172/19
L					(52) boon by

(53) been... - by

В	164/14 164/24 165/7	169/1	163/13 164/23 164/25	118/14 134/4 136/1	160/12 164/12 164/17
by [10] 174/15	172/24 173/4 173/21	causing [2] 128/18	177/2 177/13 184/24	139/13 171/2	174/9 179/8 182/21
178/11 179/20 180/11	173/22 175/7 175/22	144/20	Centre Directors [1]	children's [14] 4/10	184/23
180/12 181/12 181/20	178/10 187/4 187/13	caution [1] 40/3	164/23	21/22 22/3 24/16 26/5	clinically [4] 33/15
184/17 185/7 186/18	187/22 188/1 188/24	CBLA0000072 [4]	Centre's [3] 49/3	26/9 27/7 27/18 28/18	38/18 144/22 166/18
by 1989 [1] 13/12	can't [3] 19/6 51/15	31/17 120/13 123/24	131/11 178/18	66/3 73/20 95/22	clinicians [11] 2/12
by Aledort [1] 168/11	173/17	165/3	centred [1] 138/21	114/2 139/17	2/13 9/5 24/2 133/12
	cannot [2] 2/21 26/14	CBLA0000187 [2]	centres [24] 1/6 5/5	chills [2] 33/6 121/12	137/24 147/12 148/6
C	capability [1] 44/15	42/21 142/5	5/10 5/11 6/4 6/6 7/4	choice [12] 25/23	149/8 167/14 189/10
C3 [1] 156/24	capital [1] 124/17	CBLA0000312 [1]	7/15 7/22 16/2 42/23	28/17 35/13 48/6	close [2] 11/1 115/19
calculate [1] 95/9	Cardiff [1] 2/19	148/3	52/14 86/12 94/20	48/21 54/12 71/10	closely [1] 13/8
calculations [2] 37/11	care [19] 3/14 4/5 4/8	CBLA0000681 [1]	110/21 111/4 126/24	107/1 117/4 125/11	closer [2] 57/19 73/15
111/1	4/9 10/17 11/15 11/16	153/3	127/3 127/12 145/4	169/23 171/22	clotting [8] 20/12
calendar [1] 115/22	11/17 21/10 21/11	CBLA0001028 [1]	146/15 153/25 177/9	chosen [1] 48/7	37/12 37/14 37/22
call [2] 63/14 63/19	21/11 21/16 21/24	156/9	177/12	Chris [4] 117/15	91/9 98/23 99/1 99/10
called [8] 3/9 29/22	22/11 24/7 24/14 29/4	CBLA0001287 [2]	certain [9] 26/14	117/21 118/3 118/9	Club [2] 8/24 9/2
54/4 97/24 97/24	123/16 170/3	99/16 100/15	60/17 89/5 94/4 95/21	Christmas [6] 64/12	coagulation [2] 12/14
161/16 168/1 172/12	cared [1] 4/10	CBLA0001294 [1]	106/20 129/22 129/24	64/18 66/9 70/7	176/7
came [2] 13/1 50/12	career [1] 23/4	93/18	165/20	111/14 138/9	cohort [2] 79/1 86/10
can [150] 3/17 4/15	carried [4] 17/20	CBLA0001466 [1]	certainly [8] 13/19	Christopher [1] 17/21	Coincidentally [1]
6/7 6/7 7/6 7/23 8/3	61/19 119/10 135/11	161/20	29/8 49/15 75/5 90/25	chronic [22] 137/4	42/8
8/5 9/15 10/7 10/9	carrier [2] 71/6 79/24	cells [1] 168/7	100/8 106/24 112/22	152/15 155/8 156/25	Colette [1] 10/25
10/12 12/10 15/4	carriers [9] 20/10	cent [9] 24/11 36/16	cetera [9] 61/18 91/1	157/2 157/4 157/14	collation [1] 141/14
17/17 18/3 20/1 22/19	74/3 77/11 78/17	129/13 131/23 160/5	91/20 91/20 98/24	157/17 159/4 161/7	colleague [1] 42/2
26/12 27/16 29/2	80/21 82/25 83/17	164/16 167/7 177/9	118/18 119/1 129/17	161/11 162/3 162/15	colleagues [5] 42/4
31/20 32/16 35/7	152/2 160/6	177/11	168/8	163/11 164/6 164/8	173/11 183/24 184/19
37/13 39/16 41/12	carries [2] 10/19 39/3	central [1] 157/18	chair [2] 23/9 24/9	164/12 164/18 168/3	185/11
43/1 48/4 60/11 62/7	carry [4] 18/11 56/17	centre [126] 1/5 1/8	chairman [1] 158/7	174/4 174/22 184/4	collect [1] 164/5
62/21 64/11 64/23	146/15 181/2	1/13 2/18 2/19 2/25 3/5 4/3 4/7 4/25 5/1	chairmanship [1] 175/17	chronically [1] 162/5	collected [3] 93/7 111/20 152/1
64/24 65/4 66/14	carrying [1] 119/6	5/3 5/7 5/21 5/23 6/1	change [10] 50/15	chronicity [1] 155/7 circuit [1] 37/21	collection [4] 126/19
66/20 67/2 67/9 67/15	Carville [5] 11/20 61/19 62/13 99/7	6/5 6/9 6/11 6/12 6/20	58/17 60/25 62/6 95/8	circulated [5] 143/2	128/20 142/15 147/19
67/21 67/23 68/14	116/6	6/21 6/23 7/1 7/10	97/1 106/21 107/2	148/4 151/2 156/14	Collins [1] 2/20
68/17 69/16 69/25	case [13] 22/22 28/10	7/12 7/20 8/7 8/13	116/8 116/12	164/21	colloquially [1]
70/1 70/10 70/13 71/1	39/15 49/23 72/18	8/13 10/14 10/20	changed [3] 13/6 74/1		109/18
71/17 72/18 72/19	81/9 104/15 119/16	12/10 12/19 12/25	113/2	36/18 36/23 68/12	colour [1] 38/11
72/25 73/16 74/6	147/25 152/7 161/5	13/9 13/21 14/1 14/1	changes [5] 38/12	cirrhosis [3] 163/25	column [19] 67/2
74/13 75/10 75/16	169/11 183/19	14/22 15/10 15/21	58/21 58/23 60/6	168/4 184/5	68/20 69/3 69/4 69/5
76/18 77/19 78/9	cases [17] 34/4	15/24 16/3 16/5 16/16	127/17	citation [2] 173/15	73/2 73/5 73/9 73/10
78/17 78/20 79/1	122/12 123/14 146/8	17/15 17/22 17/23	changing [1] 127/14	173/20	73/12 78/10 78/16
79/14 79/16 79/21	146/9 154/7 154/11	18/24 19/14 21/2 23/6		citizen [1] 9/23	82/14 82/14 82/16
80/1 80/9 80/19 81/24	154/16 157/14 161/3	25/5 25/9 25/12 25/19		City [5] 21/2 21/4	90/13 90/19 91/13
82/6 82/10 84/4 85/19	161/6 164/3 166/7	34/1 42/25 43/4 44/21	9/18 10/3 10/21 11/21	24/23 25/1 187/18	151/9
86/2 87/14 87/21	167/3 167/4 181/23	46/7 48/24 52/7 54/14	12/14 98/9	Claim [4] 128/9	columns [1] 76/18
87/21 90/14 91/13	184/23	56/13 57/11 58/14	charging [1] 8/18	165/14 165/25 171/8	combination [1]
92/8 92/25 93/17 97/4	Cash [1] 117/12	73/19 84/19 87/7	chat [1] 91/19	clarity [1] 100/12	105/15
98/1 98/2 98/13	cast [1] 19/6	87/17 87/18 88/14	check [1] 168/13	clear [13] 25/23 43/18	
100/18 100/24 101/4 101/18 105/10 105/20	categories [3] 20/3	93/1 98/4 98/17 98/21	checked [3] 72/16	48/16 76/2 77/10	13/22 15/1 22/8 35/18
	95/21 187/23	98/25 99/1 99/6	173/21 173/22	86/18 88/18 90/2 92/4	45/8 47/3 47/24 52/1
109/17 110/22 120/15	category [5] 36/8	101/13 102/3 114/18	Chief [5] 11/20 12/13	109/19 129/25 160/14	53/15 59/22 74/8
122/22 123/8 123/22 131/21 134/9 136/8	104/2 118/15 184/14	115/15 117/20 118/23	61/12 62/13 99/7	189/6	77/16 80/7 89/22
136/16 137/11 138/1	187/25	124/21 126/1 127/23	child [5] 4/13 26/13	clearcut [1] 127/4	101/1 141/22 143/9
138/3 138/6 139/8	Catherine [1] 10/21	128/21 131/15 132/21	26/23 36/21 45/7	clearly [5] 17/25 72/7	143/12 148/5 155/20
140/16 141/3 141/8	Catholic [1] 95/22	134/15 136/7 137/24	childhood [1] 32/3	104/8 150/14 151/2	177/6 178/4
141/10 141/12 141/23	caught [1] 66/4	138/5 141/9 142/8	children [31] 4/9	clinic [5] 11/17 15/16	comes [1] 86/4
142/4 142/10 142/13	causal [1] 137/8	142/13 142/22 145/23	21/10 21/23 21/25	15/19 181/18 182/5	coming [3] 91/1 115/3
142/20 144/15 145/22	causative [1] 185/10	151/6 153/1 153/13	22/1 22/10 24/6 24/8	clinical [24] 2/1 3/7	176/22
146/17 148/9 151/23	cause [1] 149/1	155/13 156/1 156/7	26/10 33/11 35/13	15/25 16/1 17/18	commence [1] 111/13
153/3 153/15 156/6	caused [5] 53/5	156/10 157/14 157/19	36/1 36/9 36/23 37/1	17/19 24/4 24/12	commenced [5] 89/12
156/16 157/22 158/5	126/14 140/25 144/9	157/21 157/25 158/2	37/2 45/3 45/5 46/13	26/21 30/5 54/22	113/18 113/21 139/16
158/25 160/24 164/4	167/2	158/4 158/6 160/16	49/5 55/11 55/15 88/3	104/20 104/25 113/24	178/17
	causes [2] 163/23	160/21 161/3 161/21	116/4 118/4 118/7	114/2 114/3 133/11	commencement [3]

(54) by... - commencement

					,
С	171/8 174/10 184/11	27/24 28/13 29/3	26/23 45/17 56/23	107/19 107/24 144/15	2/7 4/3 8/21 9/21 15/2
	comparison [2] 21/5	29/16 35/19 35/22	140/12 152/7 156/15	continuity [1] 50/24	34/4 49/18 123/12
commencement [3]	137/5	36/18 36/22 39/14	162/18 163/2 180/16	continuous [1]	132/6 133/4 135/8
30/21 31/1 31/11	compensation [1]	40/1 40/8 40/10 41/8	consignment [2] 42/6	111/15	139/2 141/7 141/24
commencing [1]	9/24	44/4 44/5 52/21 60/23	42/11	contraceptive [2]	142/3 147/8 152/11
139/19	competitive [2] 61/8	62/21 65/2 69/24	consisted [1] 163/9	37/16 38/13	152/19 156/15 159/24
comment [3] 47/9	61/9	70/25 72/4 81/2 87/20	consistency [1]	contract [1] 59/4	168/15 170/11 174/2
51/9 179/21	compilation [1] 12/9	88/11 92/18 92/23	180/18	contracting [1]	courses [1] 183/23
commenting [2]	complete [6] 60/7	93/14 105/8 109/13	consistent [4] 51/1	149/24	cover [7] 24/15 28/7
125/15 128/10	79/13 87/13 87/19	120/16 124/19 131/5	72/15 75/5 131/8	contracts [1] 61/10	28/9 102/25 103/23
comments [2] 17/6	111/14 156/25	132/23 136/25 140/11	constant [5] 32/4	contradiction [1]	105/13 139/23
27/23	completed [2] 17/19	144/7 149/20 149/23	130/21 181/12 184/20	100/12	covering [4] 18/24
commercial [73]	23/2	150/1 150/5 158/23	185/11	contributed [1]	68/2 73/18 167/10
40/16 42/16 43/14	completely [1] 85/22	169/25 171/12 175/11	constantly [3] 126/3	163/21	covers [1] 66/2
43/19 43/22 43/23	completes [1] 108/17	189/3	165/16 175/13	contribution [1] 43/6	Craigavon [2] 181/19
44/19 52/8 52/12	completing [1] 110/6	concern [4] 60/6	constituted [1] 30/8	contributory [1] 133/2	
52/21 54/17 56/11	completion [3] 87/22	152/2 175/21 185/12	consultant [8] 10/15	contrived [1] 63/9	Craske [26] 136/18
57/21 60/16 61/10	88/12 112/23	concerned [9] 35/11	11/16 23/2 24/4 25/1	control [2] 99/9 99/12	
61/17 62/20 64/1 64/1	complex [1] 185/18	54/17 58/23 91/4	25/12 25/17 34/19	convenience [1] 7/18	143/19 143/21 144/24
65/6 67/13 70/18	complication [2]	101/14 108/4 127/11	consumed [1] 116/13	convenient [3] 7/3	145/2 147/5 150/6
70/24 77/3 78/4 85/3	33/13 49/23	127/13 134/14	consumer [1] 126/14	28/1 119/25	151/16 151/23 151/25
86/20 87/1 87/23 88/4	complications [2]	concerning [1] 58/18	consumer demands	conversations [1]	152/25 156/4 156/18
88/9 92/23 94/20 99/4	115/22 162/2	concerns [6] 40/6	[1] 126/14	16/8	156/23 158/9 158/19
104/7 104/21 105/2	components [1]	40/7 49/24 85/14	consumers [1] 126/10		159/2 159/9 160/4
105/8 107/22 108/11	48/15	128/2 179/1	consuming [1] 38/22	Copious [1] 41/17	161/1 167/15 170/19
108/24 109/11 109/13	comprises [1] 10/15	concluded [1] 167/8	contact [1] 42/6	copy [2] 7/7 17/24	175/18
109/21 114/21 117/24	computerised [1]	conclusion [2] 50/12	contacts [3] 141/18	correct [4] 51/18	Craske's [3] 150/8
118/6 118/8 118/16	12/7	63/19	142/19 145/9	63/10 148/21 181/15	161/22 166/24
119/12 119/22 120/5	concentrate [86] 8/16	Conclusions [1]	contain [1] 174/2	corrected [1] 156/21	creating [1] 51/3
125/12 132/23 135/11	10/4 29/22 35/12	154/24	contained [1] 154/5	corrections [1]	crippling [1] 32/3
137/6 143/18 143/25	36/15 39/23 40/16	condition [1] 172/12	containing [1] 94/10	156/19	criteria [1] 146/11
144/6 144/18 146/22	41/5 41/14 41/15	conducting [1]	contains [2] 32/24	correlate [1] 85/18	critical [1] 17/6
146/25 150/1 150/19	41/24 42/5 42/17	150/24	140/19	correlation [2] 72/10	criticism [1] 17/8
153/8 153/21 162/23	43/15 43/19 44/16	confident [1] 51/18	contaminated [2]	82/6	criticisms [1] 180/11
167/3 167/8 167/16	44/20 48/24 50/11	confidential [1] 15/23	53/3 144/13	correspondence [10]	Crockard [1] 11/12
169/9 184/10 189/3	50/20 57/21 57/21	confidentiality [1]	contemplate [1] 105/7		crop [2] 22/21 22/22
commercially [2]	60/16 62/20 63/7	18/3	contemplated [1]	70/16 92/13 107/13	cross [1] 49/9
30/12 131/6	63/21 65/5 65/7 66/23	confirm [1] 176/3	8/15	113/7 113/9 114/19	cross-over [1] 49/9
commitment [1] 49/2	67/1 67/10 67/11	confirmation [1]	contemplates [1]	139/9	••
committed [1] 9/3	69/21 70/13 70/18	102/8	113/9	cost [1] 47/14	crossed [1] 64/19 cryo [4] 34/18 34/20
committee [5] 10/22	70/24 71/7 72/2 72/9	confirmed [2] 173/11		costly [1] 124/8	36/6 38/10
23/15 93/20 100/17			141/5		
100/19	74/10 75/9 75/18 77/2	176/15 confirming [1] 6/19	contemporaneous [7]	costs [2] 125/7 125/8 could [41] 8/2 13/14	cryoprecipitate [91] 11/22 22/14 25/24
committee's [2] 94/12	80/16 80/18 81/15	• • •	1/10 44/8 53/16 57/24		
97/5		confirms [5] 28/12	89/8 89/9 98/19	13/17 18/10 28/4 28/5	26/1 26/11 26/15
committees [1] 23/9	81/19 82/11 82/12 83/3 92/14 92/24 96/3	35/8 99/21 105/5 186/21	content [2] 32/10	42/5 53/17 54/2 54/11 56/8 60/10 60/15	26/18 26/23 27/8 27/20 28/2 28/5 28/14
common [2] 37/5	97/17 112/25 113/1	conflicts [1] 185/3	32/22	62/23 65/19 65/21	28/17 28/20 29/3
94/23		consensus [1] 165/5	continuation [3]		
commonly [1] 149/8	118/6 124/9 131/13			65/22 90/9 93/6 107/7	29/15 29/17 30/11 30/15 30/18 31/21
communicating [1]	131/14 131/20 131/22	consequence [2]	102/24 103/10 153/17	109/7 109/8 109/15	
92/11	132/1 132/12 132/14 132/18 132/21 132/22	57/10 109/16 consequences [3] 6/9	continue [10] 45/3 55/7 69/22 105/2	121/9 128/12 129/16 130/8 130/9 133/12	32/1 32/8 32/18 33/22   34/3 34/10 34/13
communication [2]					
62/2 92/13	137/17 139/22 144/7	152/15 179/22	118/12 137/1 140/7	133/14 137/23 147/23	34/23 35/1 35/5 35/12 35/19 36/2 36/24
companies [3] 49/21	144/25 150/11 159/17	consider [12] 118/10	147/5 155/1 165/18	154/6 157/14 166/17	
50/22 51/10	167/3 167/8 167/16	133/13 143/11 156/13	continued [5] 104/21	168/24 173/9 174/21	36/25 37/3 37/7 37/9
company [7] 42/10	170/13 176/8 177/18	161/7 171/23 176/21	121/9 137/2 154/17	179/8 182/4 184/4	38/1 38/6 39/7 39/10
45/21 48/13 48/18	184/11 184/11	178/2 178/2 180/20	185/14	counselling [3] 16/20	39/12 39/22 40/4 40/5
48/25 51/7 85/10	concentrate: [1] 82/1	182/1 189/14	continues [9] 11/24	16/24 17/7	44/17 45/4 46/13 49/5
comparatively [2]	concentrate: 120,215	considerable [1] 59/3	49/20 59/13 76/25	countries [1] 101/21	55/12 55/15 64/23
28/16 123/4	[ <b>1</b> ] 82/1	consideration [6]	82/16 116/2 137/7	country [1] 95/5	65/1 66/14 67/22 68/8
compare [1] 153/20	concentrates [53]	39/21 94/12 156/7	147/1 174/5	couple [4] 30/25	68/10 69/3 69/6 69/23
compared [4] 53/4	22/13 22/15 25/23	157/18 164/24 181/12	continuing [7] 30/15	62/25 105/25 178/14	70/11 71/9 71/20
	26/24 27/5 27/8 27/19	considered [10] 1/23	56/19 72/3 105/6	course [25] 1/21 2/6	71/22 71/24 72/3 74/7

(55) commencement... - cryoprecipitate

С	106/7 133/24 134/16	128/20	detected [2] 174/15	direct [1] 99/11	144/15 145/7 146/7
	180/4	demand [9] 46/15	184/24	direction [1] 99/8	146/18 146/25 147/19
cryoprecipitate [21]	dealing [4] 22/20 36/9		detecting [1] 148/21	directly [9] 87/7 92/11	152/5 152/12 152/17
75/15 77/16 78/19	161/6 182/2	87/19 94/18 103/24	detection [2] 30/3	99/4 99/6 106/16	157/4 157/9 158/12
78/21 80/2 80/22 83/2	deals [2] 129/1 175/4	132/13 133/4	168/20	108/23 133/19 162/19	160/15 161/16 162/22
83/18 88/2 93/16	dealt [7] 7/24 16/22	demands [4] 46/19	determine [2] 144/9	163/16	166/20 169/13 172/16
94/19 96/10 96/25	22/15 49/22 134/8	51/3 57/8 126/14	168/19	director [18] 2/18	176/20
132/11 136/1 165/21	170/10 183/20		determined [1]	23/6 25/8 25/10 25/12	discussions [14]
165/23 169/25 170/20	Dear [1] 101/22	Dempsey [3] 10/19 24/17 36/5	166/18	25/14 56/1 64/13 70/3	61/12 96/18 102/2
188/12 189/2	death [4] 32/4 136/22	dental [8] 11/15 11/16		73/16 96/8 96/9 99/1	115/7 118/1 118/22
cryoprecipitate: [1]	161/5 163/22	15/19 30/7 32/6	53/10 138/17	102/2 106/17 157/21	119/24 128/25 137/22
78/18					
cryoprecipitate: 8,500	deaths [2] 162/19	122/24 123/16 139/23	developed [12] 30/4	158/1 158/4	141/7 148/2 163/1
<b>[1]</b> 78/18	188/2	dentist [1] 11/15	41/19 50/20 120/23	directors [50] 5/4 6/1	164/19 183/23
CSA [1] 119/9	decades [1] 2/22	department [14] 3/8	121/13 139/18 148/1	6/12 15/24 42/23	disease [26] 14/8
culminating [1]	December [11] 85/2	6/2 11/23 24/1 93/9	159/4 167/5 170/14	42/24 87/17 87/18	20/10 30/20 64/13
175/14	85/21 87/1 106/12	93/18 96/19 100/21	177/6 177/8	93/1 101/14 110/11	64/18 65/12 65/15
curious [2] 85/15	106/22 108/10 110/10	101/24 127/25 129/6	developing [4] 90/25	117/21 118/23 124/21	66/9 70/7 73/24 75/14
105/3	111/5 111/14 111/17	130/5 130/24 158/20	114/3 150/20 176/16	126/1 127/23 136/7	77/13 79/25 80/23
current [15] 2/17 21/8	112/2	Department's [1]	development [7] 15/9	138/5 138/11 141/9	138/9 162/13 162/18
22/17 59/7 59/8 62/6	December 1982 [1]	102/12	26/16 33/5 40/6	142/8 142/9 142/16	162/20 163/12 163/24
62/12 94/14 97/11	85/21	Departments [1]	121/10 175/6 189/4	142/23 143/16 145/24	164/6 164/8 164/13
97/14 100/6 100/8	December 1984 [2]	101/20	Devlin [3] 54/5 54/7	146/3 151/6 152/2	164/18 167/6 168/2
103/23 136/4 162/6	87/1 106/22	dependent [1] 38/1	57/4	153/1 153/7 153/13	disorders [12] 4/10
currently [6] 59/9	decide [1] 2/12	Depending [1] 54/21	Devlin's [1] 57/14	155/13 156/2 156/10	4/14 11/18 14/6 17/16
94/16 95/25 106/20	decided [5] 35/25	deployed [1] 131/1	devoted [1] 11/17	156/20 156/25 157/7	20/12 20/13 20/13
141/10 159/10	36/13 39/22 101/5	derivatives [1] 148/11	DHSS [7] 5/14 6/19	157/14 157/19 157/25	21/25 22/1 24/8 24/13
customer [1] 121/24	153/18	derived [7] 44/16	96/19 102/23 104/18	158/6 159/3 159/6	disposal [1] 116/16
cycle [1] 37/17	deciding [2] 28/13	146/21 146/22 165/11	145/12 145/13	160/21 161/4 161/21	disseminated [1] 6/14
-100 [1] 0////	182/9	172/7 175/11 183/12	diabetics [1] 31/25	164/23 171/5 175/16	dissimilar [2] 77/18
D	decision [4] 27/14	derives [1] 90/3	diagnosis [5] 12/11	Directors' [3] 156/8	86/12
damage [1] 140/25	36/4 55/25 181/2	described [12] 9/8 9/9	146/11 168/21 168/25	160/16 164/25	distance [1] 19/14
	decision-making [1]	12/2 17/14 42/22	189/16	disadvantage [5] 28/5	distinct [1] 129/24
dangerous [1] 144/19	27/14	12/2 17/14 42/22 148/4 153/6 167/22	Diana [1] 93/8	33/13 33/19 38/7 39/1	distinguish [1] 107/16
dangerous [1] 144/19 Darragh [1] 103/12	27/14 decisions [1] 99/11	148/4 153/6 167/22 168/10 172/8 172/11		33/13 33/19 38/7 39/1 disadvantages [8]	distinguish [1] 107/16 distinguishing [1]
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6	27/14 decisions [1] 99/11 declared [1] 13/4	148/4 153/6 167/22 168/10 172/8 172/11 172/18	Diana [1] 93/8	33/13 33/19 38/7 39/1	distinguish [1] 107/16 distinguishing [1] 137/9
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20	27/14 decisions [1] 99/11	148/4 153/6 167/22 168/10 172/8 172/11	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19	33/13 33/19 38/7 39/1 disadvantages [8]	distinguish [1] 107/16 distinguishing [1]
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17	27/14 decisions [1] 99/11 declared [1] 13/4	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2]	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14 172/22	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1]	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 47/13 different [21] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discovered [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4 degree [6] 18/16 92/5	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detail in [1] 21/6	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 14/15 diverted [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficulties [6] 19/16	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11 75/11 78/23 81/22	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20 delays [1] 128/18	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detaile [3] 136/20 164/19 165/6	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficulties [6] 19/16 119/6 128/19 129/3 130/16 137/8	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discover [2] 29/24 34/14 discover [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6 document [46] 3/12
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11 75/11 78/23 81/22 83/13 83/14 122/15	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20 delays [1] 128/18 delighted [1] 119/21	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detail in [1] 21/6 detailed [3] 136/20 164/19 165/6 details [9] 11/15	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 177/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficulties [6] 19/16 119/6 128/19 129/3	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discover [2] 29/24 34/14 discover [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5 discussion [35] 5/21 43/6 100/24 113/5	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6 document [46] 3/12 4/15 4/23 6/16 6/22
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11 75/11 78/23 81/22 83/13 83/14 122/15 123/3	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20 delays [1] 128/18 delighted [1] 119/21 delivered [1] 99/5	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detail in [1] 21/6 detailed [3] 136/20 164/19 165/6 details [9] 11/15 68/16 95/7 114/1	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 1777/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficultise [6] 19/16 119/6 128/19 129/3 130/16 137/8 difficulty [9] 33/8 35/4 57/6 96/16 96/24	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discover [2] 29/24 34/14 discover [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5 discussion [35] 5/21 43/6 100/24 113/5 113/7 130/15 136/3	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6 document [46] 3/12 4/15 4/23 6/16 6/22 13/15 13/17 13/18
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11 75/11 78/23 81/22 83/13 83/14 122/15 123/3 deadly [1] 185/18	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20 delays [1] 128/18 delighted [1] 119/21 delivered [1] 99/5 deliveries [2] 107/19	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detail in [1] 21/6 detailed [3] 136/20 164/19 165/6 details [9] 11/15	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 1777/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficultise [6] 19/16 119/6 128/19 129/3 130/16 137/8 difficulty [9] 33/8 35/4 57/6 96/16 96/24 106/19 108/5 126/12	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5 discussion [35] 5/21 43/6 100/24 113/5 113/7 130/15 136/3 137/7 137/16 138/19	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6 document [46] 3/12 4/15 4/23 6/16 6/22 13/15 13/17 13/18 14/25 15/22 16/12
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11 75/11 78/23 81/22 83/13 83/14 122/15 123/3	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20 delays [1] 128/18 delighted [1] 119/21 delivered [1] 99/5 deliveries [2] 107/19 111/25	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detail in [1] 21/6 detailed [3] 136/20 164/19 165/6 details [9] 11/15 68/16 95/7 114/1 121/23 130/18 147/15 151/1 160/3	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 1777/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficultise [6] 19/16 119/6 128/19 129/3 130/16 137/8 difficulty [9] 33/8 35/4 57/6 96/16 96/24 106/19 108/5 126/12 133/10	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5 discussion [35] 5/21 43/6 100/24 113/5 113/7 130/15 136/3 137/7 137/16 138/19 138/21 139/5 141/13	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6 document [46] 3/12 4/15 4/23 6/16 6/22 13/15 13/17 13/18 14/25 15/22 16/12 17/12 17/25 19/24
dangerous [1] 144/19 Darragh [1] 103/12 data [16] 53/1 72/6 72/15 72/17 72/20 72/25 82/4 110/17 110/18 126/25 127/3 141/14 142/15 142/16 143/16 186/22 date [17] 13/15 30/21 34/25 41/6 51/17 53/4 55/17 58/7 87/6 87/8 89/13 112/3 113/22 115/16 134/7 140/16 153/5 dated [10] 18/13 31/19 39/15 68/3 106/9 108/8 114/25 139/13 153/9 172/2 dated May 1990 [1] 31/19 dates [1] 81/5 day [4] 15/10 42/9 91/11 189/23 days [2] 50/10 59/3 DDAVP [8] 71/11 75/11 78/23 81/22 83/13 83/14 122/15 123/3 deadly [1] 185/18	27/14 decisions [1] 99/11 declared [1] 13/4 declined [1] 35/15 decreased [1] 124/14 decreasing [2] 70/11 169/15 dedicated [3] 4/4 16/8 18/6 dedication [1] 111/25 deep [1] 33/20 defects [1] 176/7 deficiency [5] 14/9 14/9 14/10 18/5 63/11 deficient [1] 18/1 defined [3] 31/23 104/8 146/10 definite [1] 59/20 definitive [1] 36/14 deformities [1] 32/4 degree [6] 18/16 92/5 114/10 121/6 169/19 185/12 degrees [1] 113/20 delays [1] 128/18 delighted [1] 119/21 delivered [1] 99/5 deliveries [2] 107/19	148/4 153/6 167/22 168/10 172/8 172/11 172/18 describing [1] 166/14 designated [5] 6/21 14/1 14/24 15/11 84/21 designed [2] 37/18 63/7 desirable [1] 126/5 desire [2] 85/14 105/7 despatched [2] 110/20 111/3 despite [4] 52/17 91/9 121/8 176/17 detail [20] 2/7 3/2 4/23 21/6 54/6 72/5 88/21 95/13 103/3 114/6 120/12 141/3 148/8 155/9 161/15 166/10 170/11 178/6 180/6 183/21 detail in [1] 21/6 detailed [3] 136/20 164/19 165/6 details [9] 11/15 68/16 95/7 114/1 121/23 130/18 147/15	Diana [1] 93/8 did [13] 27/21 27/24 28/3 28/9 32/2 37/2 37/5 44/15 49/1 50/19 107/23 132/24 173/7 didn't [4] 81/21 179/22 179/23 179/24 died [4] 163/19 163/23 187/9 188/13 difference [1] 47/13 difference [1] 3/4 9/11 23/9 47/12 48/21 49/17 52/12 76/10 109/13 117/7 117/8 126/9 142/7 145/4 162/8 162/9 162/11 1777/18 181/5 182/9 182/20 difficult [7] 50/10 56/23 133/8 146/14 147/24 168/19 169/4 difficult in [1] 50/10 difficultise [6] 19/16 119/6 128/19 129/3 130/16 137/8 difficulty [9] 33/8 35/4 57/6 96/16 96/24 106/19 108/5 126/12	33/13 33/19 38/7 39/1 disadvantages [8] 27/21 33/21 37/9 39/6 39/7 96/13 121/17 123/1 disagree [1] 133/7 discharge [1] 42/14 discipline [1] 59/18 discounts [1] 50/23 discover [1] 140/25 discover [2] 29/24 34/14 discover [2] 29/24 34/14 discovery [2] 148/14 172/22 discuss [4] 8/20 9/6 117/15 158/6 discussed [12] 6/14 9/25 96/8 116/6 116/23 126/3 141/24 146/20 153/6 154/19 181/17 182/12 discusses [1] 103/9 discussing [2] 35/15 182/5 discussion [35] 5/21 43/6 100/24 113/5 113/7 130/15 136/3 137/7 137/16 138/19	distinguish [1] 107/16 distinguishing [1] 137/9 distributed [2] 57/1 94/24 distribution [11] 18/7 18/23 93/25 94/4 94/9 94/13 94/21 95/8 97/1 98/7 107/9 District [1] 14/15 diverted [1] 104/19 divided [1] 14/16 do [28] 1/19 2/22 26/12 42/21 47/22 47/23 53/17 65/15 67/20 72/18 82/4 83/19 85/19 91/10 96/2 105/20 115/3 118/12 119/11 122/11 126/21 127/4 130/18 133/11 134/24 155/20 165/18 179/23 doctor [2] 22/21 25/6 doctors [1] 91/6 document [46] 3/12 4/15 4/23 6/16 6/22 13/15 13/17 13/18 14/25 15/22 16/12

(56) cryoprecipitate... - document

D	119/23 146/21	Dr Craske [21] 136/18	113/1 113/10 113/15	61/17 86/21 95/10	ecstatic [1] 30/6
	done [4] 85/18 97/18	136/19 136/23 136/25	114/21 115/1 116/21	121/9 139/2 139/20	Edinburgh [29] 6/3
document [29]	99/25 133/12	143/19 144/24 145/2	117/12 120/11 122/3	153/20 156/15 162/23	17/22 52/19 69/4
51/20 54/3 57/14	donor [18] 30/3 32/9	147/5 151/16 151/23	122/7 123/20 124/4	163/16	82/15 96/14 96/17
57/25 77/6 84/8 84/11	32/11 33/17 33/23	151/25 152/25 156/4	134/3 134/14 136/12	duly [1] 42/6	98/4 98/11 98/15
86/16 93/19 97/21					
97/23 99/17 99/19	38/2 48/20 49/8 55/24	156/18 156/23 158/9	137/18 138/3 139/5	duration [1] 56/22	101/13 102/3 103/7
100/3 103/12 105/11	55/24 118/5 139/2	158/19 159/2 159/9	139/12 140/6 140/12	during [51] 4/3 4/5	107/11 107/11 107/15
106/2 113/13 121/22	149/25 150/22 160/5	160/4 161/1	140/17 141/5 142/11	4/19 9/19 13/6 17/20	108/21 108/25 110/16
123/24 123/25 140/15	166/21 176/17 184/14	Dr Craske's [3] 150/8	151/10 156/1 156/12	26/9 30/11 36/19	110/24 111/7 116/20
145/6 149/17 164/21	donors [13] 38/13	161/22 166/24	160/21 165/2 166/24	37/14 38/9 50/25 54/6	116/20 119/23 120/3
167/12 171/24 186/7	43/13 46/2 52/11	Dr Dempsey [1] 24/17	167/11 167/13 171/25	61/7 63/6 64/16 64/19	128/22 131/15 131/17
186/16	129/14 130/2 131/19	Dr Diana [1] 93/8	172/3 176/4 178/8	66/7 66/10 66/12	131/19
	135/13 150/3 158/17	Dr E [1] 43/11	178/11 178/14 179/12	67/22 68/19 70/6 70/8	education [1] 31/9
documentary [3] 4/1	158/18 166/2 187/18	Dr El-Agnaf [1] 24/19	181/21 182/16 183/9	71/6 71/9 73/23 73/25	effect [8] 41/20 95/3
131/9 170/8	dosage [1] 33/14	Dr Elizabeth Mayne	186/6 186/19 188/22	77/9 77/14 79/2 79/15	97/2 106/11 141/4
documentation [5]	dose [3] 37/10 59/18	[3] 2/2 22/24 157/24	188/25 189/10	86/10 118/16 118/18	178/22 180/7 181/23
10/6 74/17 89/9 110/4	91/2	Dr Frank Jones [1]	Dr Mayne's [33] 15/12		effective [7] 27/25
166/24	doses [4] 37/3 37/6	25/8	21/12 25/9 28/19	135/25 138/10 139/16	28/9 34/14 37/4
documented [2]	37/7 136/24	Dr Ingram [1] 141/19	31/18 31/20 34/5 38/3	139/21 140/24 161/2	122/12 177/21 180/17
39/25 40/10	double [2] 42/11	Dr J [1] 143/21	41/9 41/12 44/7 49/13	163/7 165/16 170/6	effectively [2] 41/25
documents [31] 1/10					
4/7 4/17 15/15 23/23	50/13	Dr John [2] 36/3 42/2	60/4 60/19 61/4 62/7	170/11 172/8 178/16	155/7
35/3 40/3 41/8 42/19	doubling [1] 37/22	Dr John Craske [1]	62/22 64/13 74/17	183/19	effectiveness [1]
44/8 51/22 53/16	doubt [2] 13/22 35/14	175/18	87/22 89/13 92/16	E	12/12
53/16 53/25 54/25	down [58] 4/15 5/17	Dr Jones [1] 25/13	106/22 112/23 114/24		effects [7] 121/18
74/14 92/22 97/20	6/7 8/5 14/6 16/11	Dr Julia [3] 21/6 25/11		each [18] 9/19 33/17	155/3 155/8 168/6
98/19 100/12 105/19	18/14 22/19 30/25	134/9	133/16 134/8 143/10	49/9 50/17 76/18 91/7	175/1 179/1 179/8
106/1 113/6 114/10	31/20 32/16 39/16	Dr Kernoff [1] 159/18	160/15 165/4	91/11 95/2 95/10	efficacious [1] 121/6
	48/17 50/2 54/12	Dr Kirk [4] 147/13	Dr McClelland [3]	111/3 111/10 126/22	efficacy [3] 33/14
120/22 132/6 153/4	56/19 66/13 67/15	151/15 151/24 153/1	102/4 107/14 119/5	152/7 152/22 158/15	33/23 126/13
155/11 155/17 186/24	67/23 69/13 74/4 74/8	Dr Lane [2] 96/9	Dr McNulty [2] 2/10	181/19 182/6 184/14	efficient [1] 48/19
189/8	76/17 76/19 76/19	132/16	25/5	ear [1] 63/14	eg [2] 99/4 119/1
does [14] 22/8 22/9	76/22 77/17 80/12	Dr Lawson [1] 101/10		earlier [14] 2/5 2/22	eight [3] 71/8 81/14
43/24 47/18 48/1	91/14 92/8 97/12	Dr Ludlam [8] 16/3	Dr Milne's [1] 10/2	13/12 20/18 31/22	188/17
69/21 75/3 75/5 85/4		16/5 107/17 108/9			
101100 100111 1000				4//.34////////.3	eight natients 111
104/13 105/14 106/7	100/24 116/7 120/18		Dr Morris [1] 117/14	41/3 41/21 74/13	eight patients [1]
104/13 105/14 106/7	123/8 124/5 124/13	108/23 108/24 109/17	Dr Nelson [1] 64/13	84/10 84/12 86/3	188/17
	123/8 124/5 124/13 136/8 138/6 144/16	108/23 108/24 109/17 115/1	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17	84/10 84/12 86/3 99/24 129/8 180/14	188/17 Eileen [1] 23/11
125/23 149/23	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16	108/23 108/24 109/17 115/1 <b>Dr Ludlam's [1]</b> 108/7	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11
125/23 149/23 doesn't [18] 10/6	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2]	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 <b>Dr [269]</b>	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 <b>Dr [269]</b>	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Walford [1] 93/8	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1]
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Walford [1] 93/8	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1]
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Walford [1] 93/8 draw [1] 145/3	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Walford [1] 93/8 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Walford [1] 93/8 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24 dried [2] 30/13 189/3	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15	108/23 108/24 109/17 115/1 Dr Ludiam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 93/8 draw [1] 145/3 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24 dried [2] 30/13 189/3 Drs [1] 132/16	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 93/8 draw [1] 145/3 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24 dried [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1]	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 draw [1] 145/3 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24 dried [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs' [1] 141/14	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24 dried [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs' [1] 141/14 Dr Brian [1] 34/16	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 drawn [5] 6/24 7/13 14/13 44/21 156/24 dried [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs' [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19 elsewhere [10] 35/2
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19 elsewhere [10] 35/2 36/20 40/11 51/2
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5 141/20 156/5 171/7 182/3	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs' [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1 Dr Bridges' [2] 65/25	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15 92/3 93/3 93/6 93/11	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16 7/19 8/1 8/16 34/19	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9 economic [2] 124/11	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 electronic [1] 151/19 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19 elsewhere [10] 35/2 36/20 40/11 51/2 54/16 78/8 78/15
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5 141/20 156/5 171/7 182/3 donated [1] 109/7	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson'5 [2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs' [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1 Dr Bridges' [2] 65/25 148/7	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15 92/3 93/3 93/6 93/11 98/25 99/8 99/12	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16 7/19 8/1 8/16 34/19 due [22] 15/1 18/7	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9 economic [2] 124/11 125/6	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19 elsewhere [10] 35/2 36/20 40/11 51/2 54/16 78/8 78/15 115/9 122/4 131/2
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5 141/20 156/5 171/7 182/3 donated [1] 109/7 donation [4] 29/23	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1 Dr Bridges' [2] 65/25 148/7 Dr Chris [1] 117/15	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15 92/3 93/3 93/6 93/11 98/25 99/8 99/12 100/2 103/14 105/4	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16 7/19 8/1 8/16 34/19 due [22] 15/1 18/7 29/15 37/2 37/23 38/8	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9 economic [2] 124/11 125/6 economics [2] 124/3	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19 elsewhere [10] 35/2 36/20 40/11 51/2 54/16 78/8 78/15 115/9 122/4 131/2 Elstree [17] 46/25
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5 141/20 156/5 171/7 182/3 donated [1] 109/7 donation [4] 29/23 32/14 44/17 146/24	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1 Dr Bridges' [2] 65/25 148/7 Dr Chris [1] 117/15 Dr Christopher	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15 92/3 93/3 93/6 93/11 98/25 99/8 99/12 100/2 103/14 105/4 106/5 107/22 108/23	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16 7/19 8/1 8/16 34/19 due [22] 15/1 18/7 29/15 37/2 37/23 38/8 38/12 49/18 51/2	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 easl 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9 economic [2] 124/11 125/6 economics [2] 124/3	188/17         Eileen [1] 23/11         Eileen Trust [1] 23/11         either [4] 5/11 27/14         29/7 29/15         EI [1] 24/19         elaborated [1] 175/2         elbow [1] 170/15         electronic [1] 126/17         electronic [1] 151/19         electronic [1] 162/5         eligible [1] 6/11         eliminate [1] 30/23         Elizabeth [3] 2/2         22/24 157/24         else [3] 27/20 135/7         180/19         elsewhere [10] 35/2         36/20 40/11 51/2         54/16 78/8 78/15         115/9 122/4 131/2         Elstree [17] 46/25         69/6 69/13 69/17
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5 141/20 156/5 171/7 182/3 donated [1] 109/7 donation [4] 29/23	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1 Dr Bridges' [2] 65/25 148/7 Dr Chris [1] 117/15	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15 92/3 93/3 93/6 93/11 98/25 99/8 99/12 100/2 103/14 105/4	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16 7/19 8/1 8/16 34/19 due [22] 15/1 18/7 29/15 37/2 37/23 38/8	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 early 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9 economic [2] 124/11 125/6 economics [2] 124/3	188/17 Eileen [1] 23/11 Eileen Trust [1] 23/11 either [4] 5/11 27/14 29/7 29/15 El [1] 24/19 elaborated [1] 175/2 elbow [1] 170/15 elective [1] 126/17 electronic [1] 151/19 electronically [1] 136/15 element [3] 117/4 117/5 129/5 elevated [1] 162/5 eligible [1] 6/11 eliminate [1] 30/23 Elizabeth [3] 2/2 22/24 157/24 else [3] 27/20 135/7 180/19 elsewhere [10] 35/2 36/20 40/11 51/2 54/16 78/8 78/15 115/9 122/4 131/2 Elstree [17] 46/25
125/23 149/23 doesn't [18] 10/6 29/12 43/21 47/18 47/19 51/16 52/25 54/15 78/6 85/21 85/24 100/3 106/6 106/22 107/3 114/16 117/3 167/14 doing [3] 41/22 131/21 133/10 domain [1] 1/9 domestic [2] 111/12 129/14 don't [28] 6/16 16/17 18/20 19/4 19/17 34/25 41/2 41/4 51/8 59/12 65/17 72/20 83/24 86/13 103/3 106/19 110/1 110/3 112/2 113/5 114/5 117/6 121/22 123/5 141/20 156/5 171/7 182/3 donated [1] 109/7 donation [4] 29/23 32/14 44/17 146/24	123/8 124/5 124/13 136/8 138/6 144/16 145/11 145/25 146/16 147/2 147/18 149/21 151/22 154/10 154/21 157/9 157/11 157/22 158/24 165/22 166/13 183/25 184/7 188/6 Dr [269] Dr Anderson [1] 2/11 Dr Benson [5] 2/17 15/6 21/7 22/16 134/10 Dr Benson's [1] 25/15 Dr Bidwell [2] 63/13 63/15 Dr Biggs [6] 138/7 142/16 143/14 143/16 144/16 146/5 Dr Biggs [1] 141/14 Dr Brian [1] 34/16 Dr Bridges [4] 26/2 93/2 136/9 146/1 Dr Bridges' [2] 65/25 148/7 Dr Chris [1] 117/15 Dr Christopher	108/23 108/24 109/17 115/1 Dr Ludlam's [1] 108/7 Dr Maycock [1] 139/1 Dr Maycock's [1] 43/2 Dr Mayne [123] 3/12 3/20 5/24 6/11 7/25 8/3 8/15 10/16 11/24 12/22 13/19 13/20 17/3 17/12 17/18 19/12 22/11 22/15 22/22 23/8 23/16 24/15 25/25 27/1 29/20 35/3 39/11 39/17 40/11 43/2 43/6 47/17 48/1 54/4 55/18 55/18 58/9 58/12 58/17 59/10 59/22 59/25 60/12 62/4 63/18 64/4 65/3 65/25 68/2 70/3 73/16 76/4 78/7 84/8 84/15 85/12 86/17 87/7 90/7 90/15 92/3 93/3 93/6 93/11 98/25 99/8 99/12 100/2 103/14 105/4 106/5 107/22 108/23	Dr Nelson [1] 64/13 Dr O'Keeffe [1] 25/17 Dr Perry [2] 110/10 113/15 Dr Preston [1] 160/3 Dr Preston's [2] 168/12 168/15 Dr Rizza [2] 5/24 144/4 Dr Waiter [1] 145/12 Dr Waiter [1] 145/12 Dr Waiter [1] 145/3 draw [1] 145/3 draw [1] 145/3 draw [2] 30/13 189/3 Drs [1] 132/16 Drs Bidwell [1] 132/16 drug [2] 135/13 173/2 DRW [2] 58/3 58/7 dry [3] 12/4 110/15 113/19 Dublin [6] 7/1 7/16 7/19 8/1 8/16 34/19 due [22] 15/1 18/7 29/15 37/2 37/23 38/8 38/12 49/18 51/2	84/10 84/12 86/3 99/24 129/8 180/14 earliest [2] 41/7 124/24 early [26] 2/6 6/15 20/25 23/10 23/14 29/5 29/9 36/2 44/4 50/10 56/14 57/22 59/3 61/3 63/6 92/17 108/12 112/22 130/15 133/22 139/5 139/6 165/17 166/21 173/1 175/20 easl 1970s [2] 29/5 175/20 ease [1] 48/15 easier [1] 126/6 East [1] 107/15 Eastern [6] 14/13 102/8 103/13 106/8 115/13 119/8 easy [3] 55/22 144/8 144/9 economic [2] 124/11 125/6 economics [2] 124/3	188/17         Eileen [1] 23/11         Eileen Trust [1] 23/11         either [4] 5/11 27/14         29/7 29/15         EI [1] 24/19         elaborated [1] 175/2         elbow [1] 170/15         electronic [1] 126/17         electronic [1] 151/19         electronic [1] 162/5         eligible [1] 6/11         eliminate [1] 30/23         Elizabeth [3] 2/2         22/24 157/24         else [3] 27/20 135/7         180/19         elsewhere [10] 35/2         36/20 40/11 51/2         54/16 78/8 78/15         115/9 122/4 131/2         Elstree [17] 46/25         69/6 69/13 69/17

(57) document... - Elstree

-	)				
E	176/22	evidence [50] 1/16	expansion [1] 61/20	F	159/17 169/10 170/13
	epidemiological [1]	2/1 2/3 2/13 2/14 4/1	expect [5] 58/25		188/12 189/2 189/3
Elstree [10] 96/17	154/3	15/6 21/9 21/12 28/8	137/23 147/10 182/19	facilities [11] 1/12	Factor VIII: 186,992
98/9 102/7 102/25	episodes [3] 3/23	29/6 29/17 35/9 39/13	183/2	2/25 10/22 15/10	<b>[1]</b> 66/21
127/12 130/17 131/14	126/16 144/5	44/3 47/1 53/12 53/13	expectancy [3] 28/25	15/21 17/23 19/10	Factor X [1] 14/8
132/14 158/13 158/16			29/10 29/13	21/5 25/19 127/16	
eludes [1] 89/25	equal [2] 56/8 185/12	54/7 67/13 78/8 81/6		130/17	Factor XI [1] 14/10
embarked [1] 104/4	equally [1] 14/16	83/4 104/20 123/17	expectations [1]	facility [6] 4/5 18/2	Factor XIII [1] 14/9
emerge [1] 1/25	equals [1] 16/17	131/9 143/6 149/7	112/8	18/10 19/1 19/4 93/13	Factor Z8 [1] 113/22
emergencies [1]	equated [1] 129/24	151/2 154/3 162/9	expected [3] 50/20	fact [12] 28/8 30/14	Factorate [2] 57/12
56/20	equivalent [4] 52/19	162/14 164/5 164/8	96/10 122/22	39/21 47/1 73/17	57/22
emergency [3] 32/6	104/11 111/10 115/14	164/12 164/17 168/3	expenditure [2] 60/22	114/8 144/22 145/5	factors [2] 37/14
55/8 126/16	era [2] 82/21 134/3	168/11 170/7 171/12	124/17	152/11 163/3 171/22	45/23
eminently [1] 48/13	error [1] 51/1	171/13 171/16 171/18	expensive [1] 58/21	181/14	facts [5] 173/15
employment [2] 25/15	es [1] 173/10	173/8 174/19 178/12	experience [3] 26/21	factor [200]	180/21 181/8 182/7
124/16	especially [1] 28/1	178/13 180/12 181/22	32/18 121/3		182/12
	essential [1] 154/25	184/2	expert [3] 23/24 31/18	factor IX [25] 57/25	failed [1] 90/17
enable [4] 48/14 87/3	essentially [7] 27/13	evidenced [2] 70/16	130/4	62/21 63/5 63/10	failure [3] 133/3 135/6
111/15 118/10	35/8 46/4 113/16	185/7	expired [2] 101/12	63/21 64/1 64/4 64/21	148/18
enabled [1] 7/1	116/18 119/14 142/2	evident [1] 169/18	102/19	65/4 65/7 67/1 67/13	fairly [3] 51/18 65/10
enables [1] 7/16	establish [3] 12/11	evolved [2] 169/18	explain [4] 1/9 1/11	70/9 70/23 70/24 71/3	122/6
enclose [1] 8/10	91/23 132/3	182/20	96/2 117/18	75/18 76/5 76/21	fairness [3] 59/9
enclosed [1] 68/11	established [4] 3/5	evolving [1] 184/6	explained [4] 52/5	79/16 81/19 82/1 84/5	99/12 143/3
enclosing [2] 68/3	32/19 168/21 170/22		65/3 101/10 148/19	88/8 98/23	
102/14	1	exact [1] 134/24		factor VIII [126] 13/22	falls [1] 37/19
encourage [1] 91/22	establishment [1]	exactly [1] 119/14	explaining [2] 62/5	30/13 31/25 32/10	false [1] 179/9
encouraged [1] 30/22	175/15	examine [1] 152/14	139/2	32/15 32/24 33/16	familiar [1] 46/5
end [12] 85/3 90/21	estimate [1] 50/10	examined [2] 1/11	explains [7] 14/19	37/12 38/5 39/23 40/1	families [6] 1/22 7/16
90/23 99/24 100/5	estimated [2] 4/12	17/23	38/9 63/12 94/14 98/5	41/24 43/8 46/21	18/8 18/23 23/19
115/21 119/3 124/5	177/1	example [10] 69/2	120/24 126/15	52/17 54/18 58/18	171/17
128/5 128/11 142/21	estimates [6] 33/18	69/12 71/19 71/22	explanation [5] 38/3	60/23 61/11 61/17	family [3] 1/18 54/8
182/17	126/13 127/7 133/3	76/16 82/8 92/10	51/15 67/17 109/1	61/22 64/23 66/19	90/24
endeavoured [1]	133/10 133/13	129/11 137/14 161/24	109/3	66/23 67/8 69/4 69/6	far [14] 1/11 13/12
131/12	estimation [1] 127/9	examples [2] 72/1	explanations [1]	69/14 70/12 71/23	26/12 54/18 89/11
endless [1] 30/24	et [15] 61/18 91/1	82/12	74/17	71/25 74/10 74/15	107/25 109/7 110/4
endorsed [1] 104/8	91/20 91/20 98/24	exams [1] 91/1	explore [1] 101/3	74/19 75/9 77/20	159/21 164/7 164/11
England [6] 63/24	118/18 119/1 121/1	exceeded [1] 46/15	exploring [2] 3/14	77/23 78/10 79/3 79/4	165/25 166/4 177/14
112/18 149/6 149/10	121/4 129/17 149/3	excellent [2] 13/3	96/12	80/4 80/10 80/16	Farrell [1] 10/21
167/25 187/11	150/6 168/8 172/13	132/24	expose [1] 149/23	80/16 80/18 81/15	fashion [1] 91/24
enough [2] 105/12	173/6	except [1] 118/7	exposed [6] 52/10	81/15 81/18 82/15	fast [2] 21/20 22/5
148/22	et cetera [9] 61/18	exception [1] 36/7	118/4 118/8 118/16	83/3 83/7 83/11 84/25	fatalities [1] 163/16
enquired [1] 93/6	91/1 91/20 91/20	exceptional [1] 36/23	169/9 177/2	00,000,100,110,120	
ensure [2] 50/24 94/4				85/6 85/20 87/20	fatality [1] 188/2
	98/24 118/18 119/1	exceptions [1] 45/4	exposure [4] 33/23	85/6 85/20 87/20 87/24 87/25 88/5 88/6	fatality [1] 188/2 fatigue [1] 182/21
entail [1] 151/1	129/17 168/8			87/24 87/25 88/5 88/6	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20
entail [1] 151/1	129/17 168/8 Europe [1] 46/2	exceptions [1] 45/4	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16	87/24 87/25 88/5 88/6 90/24 91/2 91/24	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9
entered [2] 45/5 56/12	129/17 168/8 Europe [1] 46/2 European [7] 47/13	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5
entered [2] 45/5 56/12 enthusiastic [2] 36/6	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3	129/17 168/8 Europe [1] 46/2 European [7] 47/13	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12	129/17 168/8 <b>Europe [1]</b> 46/2 <b>European [7]</b> 47/13 47/14 53/3 57/8 85/6 85/8 85/14 <b>even [5]</b> 36/5 50/14 55/7 91/3 152/11	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1]	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1]
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entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisaged [2] 9/23	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1]
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisaged [2] 9/23 118/25	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24 every [5] 15/17 72/21	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4 existed [1] 30/3	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17 extract [2] 186/5 186/20	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24 137/6 139/22 140/11	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19 February 1981 [1] 93/19
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisaged [2] 9/23 118/25 enzyme [3] 58/23 60/6	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24 every [5] 15/17 72/21 91/11 126/22 142/2	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4 existed [1] 30/3 existent [1] 184/22	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17 extract [2] 186/5 186/20 extraction [1] 30/7	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19 February 1981 [1]
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisage [2] 9/23 118/25 enzyme [3] 58/23 60/6 163/19	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24 every [5] 15/17 72/21 91/11 126/22 142/2 everyday [1] 39/20	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4 existed [1] 30/3 existent [1] 184/22 existing [1] 95/6	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17 extract [2] 186/5 186/20 extraction [1] 30/7 extractions [2] 32/6	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19 February 1981 [1] 93/19 February 1988 [1] 113/14
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisage [2] 9/23 118/25 enzyme [3] 58/23 60/6 163/19 enzymes [1] 139/24	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24 every [5] 15/17 72/21 91/11 126/22 142/2 everyday [1] 39/20 everyone's [1] 105/13	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4 existed [1] 30/3 existent [1] 184/22 existing [1] 95/6 exists [1] 118/3	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17 extract [2] 186/5 186/20 extraction [1] 30/7 extractions [2] 32/6 139/23	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19 February 1981 [1] 93/19 February 1988 [1]
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisage [2] 9/23 118/25 enzyme [3] 58/23 60/6 163/19	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24 every [5] 15/17 72/21 91/11 126/22 142/2 everyday [1] 39/20 everyone's [1] 105/13 everything [3] 100/9	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4 existed [1] 30/3 existent [1] 184/22 existing [1] 95/6	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17 extract [2] 186/5 186/20 extraction [1] 30/7 extractions [2] 32/6 139/23 extraneous [1] 33/4	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19 February 1988 [1] 113/14 February 1997 [1] 134/4
entered [2] 45/5 56/12 enthusiastic [2] 36/6 92/3 entirely [10] 51/16 69/22 76/2 80/14 88/18 89/4 90/2 129/25 160/14 162/12 entitled [3] 96/7 150/10 176/12 entity [1] 181/14 entries [2] 82/9 97/13 entry [1] 71/11 envisage [1] 105/1 envisage [2] 9/23 118/25 enzyme [3] 58/23 60/6 163/19 enzymes [1] 139/24	129/17 168/8 Europe [1] 46/2 European [7] 47/13 47/14 53/3 57/8 85/6 85/8 85/14 even [5] 36/5 50/14 55/7 91/3 152/11 evening [1] 42/12 event [7] 14/3 20/8 60/3 85/17 88/19 90/18 179/11 events [3] 2/21 9/21 137/13 ever [2] 126/14 184/24 every [5] 15/17 72/21 91/11 126/22 142/2 everyday [1] 39/20 everyone's [1] 105/13	exceptions [1] 45/4 exchange [13] 7/25 60/11 70/16 107/12 107/21 108/12 108/14 108/17 114/19 116/20 117/17 118/10 120/3 exchanges [3] 10/4 108/3 108/11 excluding [1] 169/1 exclusion [1] 168/21 exclusively [2] 83/5 98/24 exercise [2] 37/20 189/13 exist [3] 12/10 87/4 182/4 existed [1] 30/3 existent [1] 184/22 existing [1] 95/6 exists [1] 118/3 expand [2] 61/16	exposure [4] 33/23 49/8 52/12 168/18 expressed [3] 18/16 121/19 185/11 expressing [3] 125/21 127/23 152/2 expressions [1] 174/2 extensive [3] 86/21 121/3 122/6 extensive orthopaedic [1] 86/21 extent [8] 49/14 78/2 78/3 100/11 117/6 123/6 152/14 157/17 extract [2] 186/5 186/20 extraction [1] 30/7 extractions [2] 32/6 139/23	87/24 87/25 88/5 88/6 90/24 91/2 91/24 94/10 94/17 94/23 95/10 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 121/15 121/20 121/25 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20	fatality [1] 188/2 fatigue [1] 182/21 favour [1] 109/20 favourably [1] 61/9 fear [2] 32/4 32/5 featuring [1] 122/14 February [15] 5/4 21/13 34/7 39/16 40/2 44/11 62/4 62/9 62/19 93/19 99/17 100/20 113/14 134/4 140/21 February '89 [1] 99/17 February 1970 [1] 40/2 February 1979 [1] 62/19 February 1981 [1] 93/19 February 1988 [1] 113/14 February 1997 [1]

(58) Elstree... - February 2020

	1	1			
F	68/6 123/25 141/23	115/14 119/22 156/24	frequently [6] 22/23	43/8 53/8 62/3 133/4	110/12 117/1 133/11
February 2020 [1]	finding [1] 169/3	156/24 157/13 172/18	50/21 51/10 143/7	146/12	134/11 134/16 137/19
21/13	findings [5] 136/20	formal [2] 22/6 119/10		G	137/20 141/3 144/14
Federation [1] 23/13	159/22 166/17 168/4	format [1] 76/10	fresh [6] 3/24 25/21		151/19 156/2 161/15
feel [6] 90/23 91/6	173/11	formed [1] 166/8	96/6 96/13 101/12	gain [2] 109/17	168/13 189/12
115/9 115/18 119/11	finished [1] 102/22	former [2] 23/18	102/19	109/19	gone [7] 20/16 80/3
129/21	finishing [1] 186/23	180/12	fresh-frozen [1]	gained [1] 13/4	80/4 80/12 80/23
feeling [4] 127/24	firm [1] 61/22	forms [4] 38/24 68/13 74/1 167/6	101/12 fridge [4] 28/22	gainful [1] 124/16 gathering [1] 9/5	135/18 163/4
129/23 173/19 182/23	firms [1] 61/11 first [59] 7/11 13/25	formulating [1] 28/14	fridge [1] 38/23 from [258]	gave [4] 43/11 59/2	<b>good [7]</b> 1/4 46/18 56/5 56/15 60/1
feels [2] 58/21 59/17	19/25 26/6 28/20	forthcoming [1] 61/7	from 1985 [1] 84/9	151/11 160/3	132/15 133/13
Feiba [11] 59/17 67/3	28/22 28/23 34/8	fortunate [1] 63/23	frozen [8] 3/24 25/22	general [12] 23/21	got [8] 9/12 19/3
67/14 71/3 71/20	34/13 39/25 40/9	Fortunately [1] 36/17	28/2 96/6 96/14 96/17	24/13 25/3 33/10	63/14 78/12 89/17
75/10 78/11 78/14	40/12 41/14 41/15	forty [1] 159/20	101/12 102/19	56/24 90/13 124/22	89/19 141/21 155/16
83/12 99/5 122/9	44/6 50/14 55/12	forward [5] 61/25	fulfil [1] 46/20	124/25 126/4 143/22	Government [1]
FEIBA: [1] 79/10	56/11 60/10 64/9	94/11 119/24 126/13	fulfilled [1] 9/7	179/17 189/10	130/23
FEIBA: 3,500 [1]	65/22 69/2 71/12	170/7	full [6] 25/11 53/10	generally [5] 27/15	GP [1] 140/17
79/10	71/19 71/22 77/5	found [14] 40/1 45/21	127/25 146/7 174/23	38/24 101/3 130/22	grade [1] 25/6
Feinstone [1] 149/3	78/24 86/16 86/17	46/16 91/1 93/7 121/5	174/24	133/18	gradually [5] 30/12
fellow [1] 34/16 felt [10] 55/10 56/1	92/19 93/22 97/20	145/5 160/4 160/5	full-blown [1] 53/10	generation [2] 114/9	116/8 169/18 182/20
119/2 144/24 145/13	103/14 108/14 110/14	163/24 164/11 164/17	full-time [1] 25/11	114/16	185/16
146/12 146/13 147/20	110/19 120/8 120/15	169/11 187/7	fully [3] 125/10 133/9	Geraldine [1] 13/7	graduate [1] 183/23
147/22 157/1	123/22 124/5 139/15	four [13] 31/20 37/14	179/20	German [1] 172/6	grant [2] 132/16
female [1] 123/10	154/18 155/3 158/1	52/3 65/14 71/24	function [16] 9/7 9/12	get [5] 19/24 19/25	158/20
fevers [1] 33/6	158/3 159/13 160/15	73/10 81/24 84/4 86/6	140/24 141/5 146/13	61/1 68/14 144/21	grateful [3] 62/16 85/9
few [22] 4/22 5/17	161/25 163/6 166/9	145/10 157/11 158/25	166/16 168/22 169/2	gets [2] 29/12 66/3	85/16
28/21 32/16 50/3 55/3	166/13 167/18 172/5	165/21	174/16 178/21 178/25 179/7 179/13 180/9	getting [1] 159/20 give [4] 9/25 109/11	great [2] 85/7 133/11
61/3 63/17 68/5 93/17	173/6 173/20 176/8 182/17 183/13 186/25	four with [1] 86/6 four-fold [1] 37/14	181/11 185/8	157/7 159/22	greater [5] 70/21 85/14 105/9 135/11
104/1 118/16 121/13	Firstly [2] 37/10 48/12		funded [1] 11/10	given [31] 12/13	146/25
126/20 146/16 161/11	fiscal [1] 129/4	fourth [4] 60/15 69/7	funding [5] 3/14 19/15		greatest [1] 175/21
180/21 181/8 182/11	fit [1] 85/24	84/3 138/4	31/16 98/1 104/18	43/22 55/14 72/13	grew [2] 4/19 4/20
185/21 186/4 186/13	fits [2] 70/17 74/16	Fourthly [1] 38/21	further [81] 2/14 2/14	73/17 79/9 81/1 87/8	grounds [1] 177/24
fewer [2] 13/12 53/9	five [7] 23/17 76/17	Fraction [1] 131/14	9/13 11/10 15/3 16/11	90/14 95/2 95/7 95/13	group [9] 24/4 45/6
FFP [1] 175/11	79/11 79/15 124/6	fractionated [2] 93/14	18/14 19/6 20/12 31/8	117/1 126/22 133/14	45/20 46/9 46/11
fibrinogen [1] 67/24	136/11 166/13	149/25	31/15 32/5 33/18	135/6 139/22 150/23	46/16 49/9 89/24
field [1] 128/19 fifth [1] 39/1	flea [1] 63/14	fractionating [2] 93/7	35/20 46/21 50/2	155/9 164/8 164/24	162/11
figure [9] 20/19 29/12	Fletcher [1] 169/12	93/12	57/24 61/17 61/21	171/13 171/21 178/7	groups [4] 49/10
66/11 75/3 79/14	flow [1] 37/24	fractionation [12]	61/24 62/1 66/13	178/13 180/5 180/12	135/13 162/4 162/8
80/25 84/23 89/20	focus [1] 153/22	94/8 98/4 101/13	67/15 67/16 67/19	187/20	guarantee [1] 36/15
90/3	focusing [1] 185/21	102/3 103/17 107/11		gives [9] 21/19 48/11	guinea [1] 117/6
figure: [1] 80/19	fold [2] 37/14 150/20	108/22 120/20 127/12	82/12 84/8 91/14	81/23 89/21 99/20	Gwyn [1] 31/22
figure: 777,776 [1]	follow [2] 86/11 137/2	128/21 132/3 146/19	95/13 97/10 103/9	129/11 177/5 177/16	Н
80/19	followed [5] 32/10 134/8 136/21 152/5	fractures [1] 86/23 Frank [1] 25/8	109/12 112/14 114/19 116/22 119/24 120/2	186/21 giving [4] 2/3 109/20	had [97] 1/17 1/18 5/8
figures [17] 15/3 52/5	163/18	free [5] 7/21 98/9	120/18 121/3 121/21	138/7 175/20	6/19 6/20 8/6 13/3
68/10 70/20 75/16	following [20] 32/6	159/11 159/20 161/17	123/8 124/5 127/23	Glasgow [7] 6/3 17/4	18/16 18/18 28/2 28/6
79/9 81/12 83/16	44/6 44/20 61/14 73/9	freedom [1] 170/18	128/18 129/7 130/11	17/6 111/7 159/6	30/16 31/2 31/23
85/17 86/18 89/19	76/25 82/17 86/22	freely [1] 63/22	136/8 140/13 141/13	159/23 159/24	34/14 38/11 39/21
89/21 103/4 126/21	96/18 111/8 113/3	freeze [3] 30/13 33/20	141/16 142/14 145/25	glean [1] 105/10	40/19 40/22 41/19
126/25 138/11 177/11	132/19 137/13 143/17	189/3	146/16 154/10 154/19	gleaned [1] 3/3	42/10 44/20 46/5
final [2] 89/24 176/24 finally [4] 161/19	148/19 155/2 165/10	freeze-dried [1] 189/3	154/21 155/9 155/16	go [207]	48/12 48/25 49/24
178/4 183/6 188/21	175/10 177/3 189/23	freeze-dried/lyophilis	157/9 157/22 158/24	goal [3] 31/23 32/3	51/2 54/7 56/6 56/14
finance [3] 8/14 19/20			159/12 159/15 162/19	126/6	56/15 56/22 57/17
104/21	31/5 35/20 44/22 46/8		163/16 163/23 164/3	goes [8] 19/4 57/3	57/18 59/14 61/11
financial [13] 7/24	49/4 110/21	freezers [1] 28/4	164/5 166/10 171/24	57/14 87/10 122/7	69/10 74/14 75/6 79/3
8/18 59/3 59/8 60/22	footnote [1] 167/24	freezing [2] 32/9	172/8 172/13 182/15	150/25 161/7 176/21	79/4 88/10 90/17
88/10 97/25 104/6	forgotten [1] 40/13	96/16	183/25 184/7 186/24	going [30] 2/24 25/18	100/2 101/13 107/2
105/7 119/3 129/2	form [17] 8/17 65/11	frequency [2] 165/10	187/20	34/2 34/9 44/6 44/13	107/21 107/23 109/9
129/7 130/16	65/11 65/16 65/17 67/20 68/14 68/23	175/10 frequent [3] 45/15	Furthermore [3] 49/21 115/22 150/1	52/1 53/15 54/9 63/1 75/4 82/20 89/22	109/17 109/19 112/8 114/8 118/11 122/4
find [5] 11/14 43/15	71/1 74/2 78/25	59/18 147/22	future [7] 6/1 18/12	95/16 95/19 97/2	126/12 129/7 132/15
L	1	L	L		

(59) February 2020... - had

Н	155/13 156/1 156/7	hand: [1] 182/11	116/5 116/19 116/25	27/6 27/11 27/12	114/9
	156/10 157/13 157/19	hand: it's [1] 182/11	117/15 118/4 118/5	27/13 27/17 27/23	heated [7] 110/15
had [39] 132/17	158/2 161/3 161/20	handful [1] 97/20	118/12 118/17 118/22	28/12 28/12 34/18	111/8 111/10 111/15
132/25 133/5 136/21	163/12 164/23 164/25	handling [1] 138/25	119/19 129/8 129/17	39/21 41/19 55/7	111/20 113/3 113/19
137/3 137/3 143/24	165/12 165/15 167/14	handwriting [1] 67/17	133/12 133/20 133/24	58/12 60/5 60/14	heavy [1] 56/2
144/5 144/6 144/7	168/2 171/4 175/12	happened [3] 53/2	135/1 135/1 137/25	60/16 60/17 87/19	held [7] 14/22 15/16
144/8 145/16 145/19	175/13 175/15 177/2	99/21 109/4	139/6 143/2 143/9	91/4 93/3 102/14	42/24 84/19 138/5
147/6 154/12 156/23	182/24	happening [1] 119/15	143/11 148/5 150/20	104/23 109/7 110/25	163/7 181/19
156/25 158/10 159/2	haemophilia A [24]	happy [5] 36/4 61/21	151/9 151/20 154/12	134/20 134/21 135/9	help [7] 12/25 47/23
159/8 159/16 160/11	3/19 14/7 20/9 20/11	116/3 118/12 118/18	154/17 155/12 156/5	135/19 135/20 135/22	56/7 59/3 59/9 84/25
161/4 161/5 163/17	67/8 71/14 72/12	hard [2] 21/20 22/5	156/14 156/20 159/4	136/25 137/12 137/15	91/25
164/9 170/2 170/12	73/22 74/2 74/3 76/5	harder [1] 76/12	160/10 162/16 162/19	139/18 139/20 140/2	Hemofil [49] 42/16
170/14 177/2 177/17	77/8 77/12 77/15	has [55] 1/15 1/21	163/4 163/17 163/25	144/24 147/5 158/13	42/20 45/2 46/5 46/11
178/13 179/6 179/19	78/17 79/24 80/1	4/12 4/23 8/11 10/16	164/11 164/11 164/17	159/5 159/5 159/9	48/25 49/6 56/10
180/23 182/22 184/3	80/21 81/11 82/8	11/12 11/16 12/3	165/25 168/15 169/10	161/6 163/19 170/12	56/11 56/24 57/4
188/3 188/17	82/24 83/1 83/17	12/13 13/6 17/25 18/9	171/16 171/23 173/8	170/13 170/14 170/14	58/18 59/2 64/24 65/2
hadn't [1] 114/9	84/22	37/12 51/11 59/14	173/19 174/8 179/9	173/16	66/25 67/10 69/5 69/7
haematologist [4]	haemophilia B [14]	59/20 59/25 65/3 67/1	181/4 181/22 187/7	he's [2] 87/18 93/2	69/8 69/9 69/14 69/17
23/3 25/1 35/14 36/3	3/20 14/7 20/9 63/8	72/6 74/8 77/16 78/7	haven't [4] 72/16	headed [4] 13/20	69/18 70/20 70/22
Haematologists [1]	64/5 75/17 76/1 76/3	80/4 80/12 80/23 87/2	85/18 89/17 105/3	110/13 165/5 187/3	71/3 71/20 71/23
10/15	79/15 81/23 84/3 84/4	90/24 91/8 96/7 98/11	having [17] 13/4	heading [37] 5/5 7/10	71/25 74/21 77/25
haematology [10] 9/6	84/22 86/6	100/20 102/9 104/1	16/19 25/18 26/12	10/12 12/22 17/17	79/6 80/12 83/8
10/18 20/25 22/25	haemophiliac [7]	104/18 106/11 108/16	41/21 41/23 64/12	26/4 27/3 29/20 36/25	136/21 137/3 147/7
24/9 24/20 25/4 29/25	15/13 15/16 28/25	117/19 119/7 122/18	91/9 117/7 117/8	43/7 43/7 54/12 58/9	147/9 147/11 153/15
140/21 183/16	31/23 129/20 188/4	123/14 140/1 140/20	119/24 125/9 125/10	68/18 93/25 97/5 98/2	153/17 153/20 154/4
haemophilia [151] 1/5	188/24	148/12 150/5 150/16	126/3 144/2 154/22	98/21 100/25 124/3	154/6 154/13 154/16
1/6 1/8 2/18 2/19 3/10	haemophiliacs [23]	166/4 169/11 172/19	163/7	138/19 146/2 147/3	154/18 161/14
3/14 3/19 3/20 4/5 4/8	58/22 86/13 94/18	174/7 181/23 183/12	Hay [1] 168/12	151/22 154/10 154/14	Hemofil and [1] 70/20
4/25 5/3 5/5 5/9 5/20	95/2 95/4 123/15	185/18 185/23	hazard [1] 140/3	154/21 154/24 156/17	hemorrhagic [1]
6/6 6/21 6/23 7/7 7/12	127/1 129/15 141/18	hasn't [1] 59/11	HCDO000054 [1]	160/23 161/25 162/1	17/16
9/19 10/23 11/2 11/3 11/11 12/10 12/18	142/19 152/6 152/12	have [160] 1/10 1/23	64/10	163/14 172/3 173/5	hence [1] 109/10
	1010 10110 10010	04 04 00 47 440			
	161/9 161/10 162/13	2/1 2/4 2/9 4/7 4/18	HCDO00001017 [1]	187/14 188/7	hepatitis [192]
12/24 13/21 14/7 14/7	161/9 161/10 162/13	5/16 9/4 9/6 11/21	HCDO00001017 [1] 142/21	187/14 188/7 health [29] 3/13 6/3	hepatitis [192] hepatitis The [1]
12/24 13/21 14/7 14/7 15/23 17/17 17/19					
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11	164/5 166/16 168/10	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21	142/21 HCDO0000135 [1] 163/5	health [29] 3/13 6/3	hepatitis The [1]
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21]	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9	hepatitis The [1] 160/10
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18	<b>hepatitis The [1]</b> 160/10 <b>hepatitis B [35]</b> 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13	hepatitis         The [1]           160/10           hepatitis B [35]         30/5           73/1 73/6 136/22           137/9 139/7 139/10           140/10 144/2 145/21           150/12 152/1 154/5
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1]	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1]	health [29]         3/13 6/3           14/13         14/16 24/1 93/9           93/19         94/5 94/8 95/10           95/20         96/19 96/23           100/21         101/20 101/23           102/8         103/13 103/18           106/8         115/12 115/13           119/8         127/25 129/7           130/5         130/24 143/21           158/20         healthy [1]	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1	health [29]         3/13 6/3           14/13         14/16 24/1 93/9           93/19         94/5 94/8 95/10           95/20         96/19 96/23           100/21         101/20 101/23           102/8         103/13 103/18           106/8         115/12 115/13           119/8         127/25 129/7           130/5         130/24 143/21           158/20         healthy [1] 108/2           hear [1]         2/13	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1]	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0000406 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001015 [1] 157/20 HCDO0001015 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 175/8
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001015 [1] 157/20 HCDO0001015 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 175/8 hepatitis' [1] 173/12
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO00001015 [1] 157/20 HCDO0001015 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 175/8 hepatitis' [1] 173/12 hepatitis-free [1]
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO00001015 [1] 157/20 HCDO0001017 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 175/8 hepatitis '[1] 173/12 hepatitis-free [1] 161/17
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO00001015 [1] 157/20 HCDO0001017 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1]	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO00001015 [1] 157/20 HCDO0001017 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 23/4 23/7
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 50/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001015 [1] 157/20 HCDO0001015 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18]	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 23/4 23/7 23/19 23/21 23/23
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22 131/1 133/15 134/14	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6 149/21 151/22 169/15	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 50/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7 103/16 103/22 104/20	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001015 [1] 157/20 HCDO0001015 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16 12/1 12/3 12/4 17/25	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18] 82/22 83/4 83/9 84/2	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 23/4 23/7 23/19 23/21 23/23 28/21 31/14 34/6 35/2
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22 131/1 133/15 134/14 136/6 137/24 138/5	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorrhage [1] 163/20 haemostasis [1] 9/3 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6 149/21 151/22 169/15 188/6	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7 103/16 103/22 104/20 106/19 109/4 109/15	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO00001015 [1] 157/20 HCDO0001017 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16 12/1 12/3 12/4 17/25 17/25 21/19 21/21	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 heard [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18] 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/1 87/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis J [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 23/4 23/7 23/19 23/21 23/23 28/21 31/14 34/6 35/2 35/20 36/20 37/8 38/7
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22 131/1 133/15 134/14 136/6 137/24 138/5 140/19 141/8 142/8	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorthage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6 149/21 151/22 169/15 188/6 hand [8] 9/22 68/18	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7 103/16 103/22 104/20 106/19 109/4 109/15 109/19 110/14 110/19	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001015 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16 12/1 12/3 12/4 17/25 17/25 21/19 21/21 22/8 22/9 22/12 22/13	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 hear [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18] 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 103/20	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 23/4 23/7 23/19 23/21 23/23 28/21 31/14 34/6 35/2 35/20 36/20 37/8 38/7 39/1 39/5 40/11 41/13
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22 131/1 133/15 134/14 136/6 137/24 138/5 140/19 141/8 142/8	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorthage [1] 163/20 haemostasis [1] 9/3 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6 149/21 151/22 169/15 188/6 hand [8] 9/22 68/18 73/2 90/13 91/13	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7 103/16 103/22 104/20 106/19 109/4 109/15 109/19 110/14 110/19 111/24 112/5 112/15	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001014 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16 12/1 12/3 12/4 17/25 17/25 21/19 21/21 22/8 22/9 22/12 22/13 24/3 24/9 24/11 24/14	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 hear [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18] 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 103/20 110/8 110/12 110/24	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/1 87/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis J [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 13/23 28/21 31/14 34/6 35/2 35/20 36/20 37/8 38/7 39/1 39/5 40/11 41/13 43/25 44/9 44/10 46/1
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22 131/1 133/15 134/14 136/6 137/24 138/5 140/19 141/8 142/8 142/12 142/22 145/23 147/15 151/6 153/1	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorthage [1] 163/20 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6 149/21 151/22 169/15 188/6 hand [8] 9/22 68/18	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7 103/16 103/22 104/20 106/19 109/4 109/15 109/19 110/14 110/19	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001015 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16 12/1 12/3 12/4 17/25 17/25 21/19 21/21 22/8 22/9 22/12 22/13	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 hear [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18] 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 103/20	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/1 87/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis J [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 13/23 28/21 31/14 34/6 35/2 35/20 36/20 37/8 38/7 39/1 39/5 40/11 41/13 43/25 44/9 44/10 46/1
12/24 13/21 14/7 14/7 15/23 17/17 17/19 17/21 20/9 20/9 20/11 21/24 22/2 22/7 23/13 24/14 25/5 25/9 25/12 26/10 26/17 26/22 32/2 34/13 42/23 43/3 44/21 52/6 54/4 54/14 56/13 57/11 58/14 63/8 64/5 64/12 67/8 71/6 71/14 72/12 73/19 73/22 74/2 74/3 75/17 76/1 76/3 76/5 77/6 77/8 77/12 77/15 78/17 79/15 79/22 79/24 80/1 80/21 81/11 81/23 82/8 82/24 82/24 83/1 83/17 84/3 84/4 84/22 84/22 86/6 87/17 90/11 92/25 98/16 98/21 98/24 99/6 122/19 124/21 126/1 127/3 127/22 130/22 131/1 133/15 134/14 136/6 137/24 138/5 140/19 141/8 142/8 142/12 142/22 145/23 147/15 151/6 153/1	164/5 166/16 168/10 169/8 176/13 184/21 187/25 188/9 haemophilic [21] 10/17 11/9 13/5 41/16 56/3 60/24 64/15 66/6 70/5 87/5 91/3 91/7 136/17 138/9 138/22 143/23 145/9 147/4 157/3 157/5 189/1 Haemophilics [1] 18/6 haemorthage [1] 163/20 haemostasis [1] 9/3 haemostasis [1] 9/3 haemostatic [1] 3/22 half [20] 44/12 84/14 86/9 90/19 93/4 95/17 95/19 110/17 111/13 120/8 141/13 142/14 142/17 143/13 147/2 151/8 166/23 168/17 169/13 183/8 halfway [8] 54/12 76/19 100/23 138/6 149/21 151/22 169/15 188/6 hand [8] 9/22 68/18 73/2 90/13 91/13	5/16 9/4 9/6 11/21 12/16 15/3 17/3 18/23 19/3 19/7 19/13 19/21 22/2 22/10 23/16 23/22 23/22 25/2 25/14 26/6 26/13 26/18 26/24 28/3 28/6 28/10 29/3 32/11 34/25 36/14 39/9 40/13 40/15 40/18 40/23 41/3 44/3 44/15 47/22 54/25 55/2 58/11 58/16 58/25 60/5 61/11 62/10 62/13 64/8 64/9 65/12 65/17 67/4 67/6 67/20 69/21 71/8 72/17 72/18 72/20 72/21 72/24 73/13 74/2 74/21 76/2 77/4 79/14 79/19 79/20 81/20 82/4 83/16 83/24 86/19 88/10 91/1 91/18 92/15 94/8 97/2 99/23 102/1 102/7 103/16 103/22 104/20 106/19 109/4 109/15 109/19 110/14 110/19 111/24 112/5 112/15	142/21 HCDO0000135 [1] 163/5 HCDO0000153 [3] 77/5 79/1 79/14 HCDO0000362 [1] 82/23 HCDO0000405 [1] 5/2 HCDO0001014 [1] 157/20 HCDO0001014 [1] 138/1 HCDO0001015 [1] 141/8 HCDO0001017 [1] 142/21 HCDO0001231 [1] 65/21 HCDO0001300 [1] 70/1 HCDO0001394 [1] 73/14 HCDO0001789 [1] 79/20 he [71] 2/21 8/11 9/16 12/1 12/3 12/4 17/25 17/25 21/19 21/21 22/8 22/9 22/12 22/13 24/3 24/9 24/11 24/14	health [29] 3/13 6/3 14/13 14/16 24/1 93/9 93/19 94/5 94/8 95/10 95/20 96/19 96/23 100/21 101/20 101/23 102/8 103/13 103/18 106/8 115/12 115/13 119/8 127/25 129/7 130/5 130/24 143/21 158/20 healthy [1] 108/2 hear [1] 2/13 hear [6] 1/16 2/19 9/9 149/7 171/17 181/22 hearing [2] 2/16 62/1 hearings [1] 54/7 heat [22] 46/23 47/2 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 89/1 103/20 110/8 110/12 110/13 110/24 112/3 112/6 112/25 114/9 heat-treated [18] 82/22 83/4 83/9 84/2 87/14 87/20 88/4 88/6 88/9 88/15 103/20 110/8 110/12 110/24	hepatitis The [1] 160/10 hepatitis B [35] 30/5 73/1 73/6 136/22 137/9 139/7 139/10 140/10 144/2 145/21 150/12 152/1 154/5 154/10 154/11 155/4 164/1 166/20 167/4 169/14 172/17 172/21 173/2 174/10 175/20 176/16 176/20 181/10 184/20 187/1 187/3 187/7 187/10 187/16 187/23 hepatitis C [6] 175/5 179/19 181/13 182/18 185/17 189/15 hepatitis D [1] 173/12 hepatitis-free [1] 161/17 her [75] 2/4 11/12 13/9 23/2 23/4 23/7

(60) had... - her

	1				
Н	historical [2] 172/3	75/19 78/2 78/20	l am [6] 102/12	41/1 55/16 81/20 82/3	154/1 156/2 161/15
	181/9	79/17 80/3 80/7 80/11	102/23 108/4 108/6	84/9 90/10 123/20	168/13 173/17 173/17
her [46] 58/17 59/2	history [3] 120/17	80/13 80/22 80/24	116/3 119/11	135/16 143/3 163/3	180/1 189/12
59/6 59/7 59/19 60/14					
60/15 62/2 62/11	162/9 162/12	82/2 83/2 84/6 98/22		I stop [1] 185/13	l've [6] 24/2 78/12
63/12 63/14 63/15	HIV [26] 16/20 16/24	98/25 114/3 124/9	I arranged [1] 42/6	I suggested [1] 118/9	99/19 141/21 155/16
	18/5 23/25 31/19 45/8	136/10 139/13 139/17	I became [1] 134/22	I suppose [2] 8/11	176/2
65/3 65/8 74/17 78/8	51/25 81/5 81/7 89/21	143/22 159/11 181/18		19/18	I've referred [1] 99/19
89/15 90/1 90/15	112/7 120/11 128/9		I can [5] 26/12 72/19	I think [47] 20/14	idea [1] 5/25
92/13 99/13 121/19	1				
123/22 128/24 129/11	129/12 130/5 130/13	hospital's [1] 3/7	131/21 141/23 187/4	20/18 23/14 31/14	ideal [1] 45/22
129/19 130/7 130/7	133/5 134/15 165/3	hospital: [2] 79/5 79/6		34/25 35/7 40/10	identical [1] 42/10
130/11 133/6 138/12	171/9 177/6 183/4	hospital: 166,503 [1]	173/17	50/25 52/16 58/4 61/8	identification [1]
	186/9 186/12 189/13	79/5	I cannot [1] 26/14	67/4 75/23 78/15 81/8	185/10
151/11 151/11 156/13	189/15	hospital: 56,000 [1]	I considered [2] 26/23	86/4 88/22 89/4 91/3	identified [15] 11/15
158/3 165/3 167/15	HIV counselling [1]	79/6	45/17	91/17 103/11 105/4	19/11 38/7 39/1 41/7
171/25 177/16 178/9	16/20	hospitalisation [1]	I contrived [1] 63/9	105/10 110/9 113/13	69/7 69/13 75/14
179/13 179/20 181/21					
185/3 186/19 187/2	HIV litigation [2]	124/15	I could [1] 179/8	113/20 120/14 123/23	106/13 127/10 145/15
here [23] 19/11 30/21	31/19 183/4	hospitals [5] 14/23	I did [2] 27/24 107/23	124/1 130/9 133/7	182/19 182/21 185/17
	hoc [1] 117/16	24/5 68/6 68/8 84/20	I didn't [1] 179/24	133/25 134/20 135/16	185/18
34/10 58/24 68/15	holiday [2] 7/21 8/8	hour [1] 56/7	I disagree [1] 133/7	141/23 149/6 151/13	identifies [1] 115/7
74/2 83/14 85/12	home [76] 12/6 18/11	hours [2] 38/20	I do [6] 1/19 26/12	151/18 154/6 164/22	identify [3] 39/5 51/16
100/4 101/2 115/13	19/15 28/1 28/15 29/4	113/20			144/8
116/4 118/14 119/9			115/3 130/18 133/11	167/1 175/7 179/8	
119/19 125/20 141/20	29/7 30/22 31/4 35/21	house [2] 34/23	134/24	179/16 183/6 186/23	identifying [1] 137/8
150/14 152/25 153/22	36/12 36/21 42/1	141/17	I don't [15] 16/17	188/19	ie [3] 79/3 118/20
	44/18 44/23 45/6	house' [3] 34/17	18/20 19/4 19/17 41/2	I think, need [1] 113/6	128/24
167/11 177/16 180/7	45/20 46/9 46/11	104/5 104/18	41/4 51/8 103/3 110/1	I took [2] 34/19	if [258]
hereditary [1] 17/16	46/16 48/9 48/25	household [2] 142/19	113/5 114/5 121/22	185/13	ii [1] 45/1
hers [1] 21/13		145/9			
herself [2] 106/24	50/12 51/8 51/12 52/7		141/20 171/7 182/3		<b>iii [2]</b> 45/3 112/7
165/2	52/8 52/24 54/19	how [12] 7/23 43/9	I duly [1] 42/6	I understand [3]	ill [3] 140/9 167/7
hesitate [1] 61/1	54/20 55/6 55/21 56/4	74/16 85/18 89/21	I enclose [1] 8/10	108/18 109/4 117/14	179/8
	56/6 56/9 57/1 58/19	95/9 95/16 95/19	I endeavoured [1]	I understood [2]	illustrate [1] 127/4
high [9] 32/22 41/19	61/15 74/4 74/9 74/12	101/1 101/15 120/1	131/12	99/23 118/23	immediately [1]
120/25 121/6 122/4	1		1 1-1 541 447/40		
1	1 /4/23 /4/25 /5/4 /5//	10/10		Lused 11 45/1/	1 1/0/14
133/21 166/15 169/10	74/23 74/25 75/4 75/7	182/3	l explain [1] 117/18	l used [1] 45/17	170/14
133/21 166/15 169/10 177/10	75/19 77/21 77/22	however [19] 13/6	I feel [4] 90/23 115/9	I want [5] 25/24 28/22	immuno [17] 44/24
177/10	75/19 77/21 77/22 77/24 78/3 78/5 78/20	however [19] 13/6 25/2 36/7 45/24 46/15	I feel [4] 90/23 115/9 115/18 119/11	l want [5] 25/24 28/22 64/6 97/19 178/4	immuno [17] 44/24 46/10 46/19 47/11
177/10 higher [5] 30/16 52/13	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9	75/19 77/21 77/22 77/24 78/3 78/5 78/20	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4	I feel [4] 90/23 115/9 115/18 119/11	l want [5] 25/24 28/22 64/6 97/19 178/4	immuno [17] 44/24 46/10 46/19 47/11
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1]	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1]	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1]	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1]	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1]
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1]	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1 Immunology [2]
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1 Immunology [2] 149/15 150/18
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1 Immunology [2] 149/15 150/18
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 human [6] 58/18	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunodeficiency [1] 53/10 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC22947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 human [6] 58/18 59/15 59/18 121/8	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1]
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/3 21/4 21/17 21/22	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 human [6] 58/18 59/15 59/18 121/8 172/5 172/7	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 53/10 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/3 21/4 21/17 21/22 21/23 22/3 22/4 22/5	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 58/18 59/15 59/18 121/8 172/5 172/7 Hyate [1] 99/5	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/2 Hyate [1] 99/5 Hyate:C [4] 59/23	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 138/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implication [1] 47/14
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/3 21/4 21/17 21/22 21/23 22/3 22/4 22/5	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/2 Hyate [1] 99/5 Hyate: C [4] 59/23 79/8 79/12 92/12	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/2 Hyate [1] 99/5 Hyate: C [4] 59/23 79/8 79/12 92/12	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 138/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implication [1] 47/14
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 58/18 59/15 59/18 121/8 172/5 172/7 Hyate [1] 99/5 Hyate: C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implications [2] 85/7 128/1
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/3 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate: [4] 99/5 Hyate: [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mane [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 implementation [1] 63/17 implicated [1] 169/19 implication [1] 47/14 implications [2] 85/7 128/1 implicit [2] 104/10
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate [1] 99/5 Hyate:C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22 hypotheses [1]	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mane [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 implementation [1] 63/17 implicated [1] 169/19 implication [1] 47/14 implications [2] 85/7 128/1 implicit [2] 104/10 116/24
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13 170/21	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9 30/24 31/6 34/18 46/4	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate: [4] 99/5 Hyate: [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12 I see [1] 19/7	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22 106/6 115/2 119/5	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 implementation [1] 63/17 implicated [1] 169/19 implication [1] 47/14 implications [2] 85/7 128/1 implicit [2] 104/10 116/24 implies [1] 84/24
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13 170/21 histological [2] 168/3 168/9	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9 30/24 31/6 34/18 46/4 56/16 57/12 58/10	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate [1] 99/5 Hyate:C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22 hypotheses [1]	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12 I see [1] 19/7 I selected [1] 45/20	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22 106/6 115/2 119/5 125/13 125/15 125/23	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 implementation [1] 63/17 implicated [1] 169/19 implication [1] 47/14 implications [2] 85/7 128/1 implicit [2] 104/10 116/24 implies [1] 84/24 importance [2] 39/19
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13 170/21 histological [2] 168/3 168/9 histology [2] 162/17	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9 30/24 31/6 34/18 46/4	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate:C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22 hypotheses [1] 148/20 I	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12 I see [1] 19/7 I selected [1] 45/20 I shall [1] 60/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22 106/6 115/2 119/5 125/13 125/15 125/23 133/23 134/11 134/15	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implications [2] 85/7 128/1 implicit [2] 104/10 116/24 importance [2] 39/19 170/19
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13 170/21 histological [2] 168/3 168/9	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9 30/24 31/6 34/18 46/4 56/16 57/12 58/10	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate [1] 99/5 Hyate:C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22 hypotheses [1]	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12 I see [1] 19/7 I selected [1] 45/20	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22 106/6 115/2 119/5 125/13 125/15 125/23	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implications [2] 85/7 128/1 implicit [2] 104/10 116/24 implies [1] 84/24 importance [2] 39/19
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighted [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13 170/21 histological [2] 168/3 168/9 histology [2] 162/17	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9 30/24 31/6 34/18 46/4 56/16 57/12 58/10	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate:C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22 hypotheses [1] 148/20 I	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12 I see [1] 19/7 I selected [1] 45/20 I shall [1] 60/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22 106/6 115/2 119/5 125/13 125/15 125/23 133/23 134/11 134/15	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implications [2] 85/7 128/1 implicit [2] 104/10 116/24 importance [2] 39/19 170/19
177/10 higher [5] 30/16 52/13 135/13 150/20 184/9 highlight [1] 1/14 highlighte [1] 128/19 highly [1] 75/8 him [8] 2/22 5/9 39/23 139/22 140/6 140/7 140/8 156/21 him infecting [1] 140/8 his [38] 4/12 9/15 9/16 12/4 16/6 17/24 21/8 24/10 24/11 24/14 24/16 25/2 26/3 27/12 34/19 36/4 41/20 50/19 54/7 109/7 109/10 134/19 134/19 135/9 135/15 137/1 137/13 139/19 139/23 140/1 140/24 147/5 150/8 156/18 163/21 163/22 170/13 170/21 histological [2] 168/3 168/9 histology [2] 162/17	75/19 77/21 77/22 77/24 78/3 78/5 78/20 78/21 79/17 80/8 80/11 80/14 80/15 80/24 82/2 84/6 84/23 89/11 89/20 90/2 90/4 92/1 92/4 92/6 101/23 116/8 121/15 147/23 169/9 170/24 178/17 homologous [1] 172/19 hope [3] 61/25 103/5 103/6 hoped [3] 18/11 144/21 147/5 hopefully [1] 53/7 hoping [1] 59/5 hospital [71] 4/10 6/20 12/5 21/1 21/2 21/23 22/3 22/4 22/5 23/1 23/4 24/6 24/12 24/16 24/21 24/23 24/25 25/2 26/6 26/9 26/25 27/7 27/12 27/18 28/18 30/1 30/9 30/24 31/6 34/18 46/4 56/16 57/12 58/10	however [19] 13/6 25/2 36/7 45/24 46/15 59/19 61/11 96/4 115/18 119/18 121/14 125/19 127/4 128/13 130/21 132/11 133/6 149/22 184/24 HSOC0022869 [1] 90/9 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [2] 7/6 10/8 HSOC0022947 [1] 10/8 HT [9] 44/19 44/23 45/1 45/6 46/3 46/9 49/6 49/7 89/24 HTLV [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 112/7 HTLV-III [1] 99/5 Hyate:C [4] 59/23 79/8 79/12 92/12 Hyland [4] 67/11 76/17 76/20 76/22 hypotheses [1] 148/20 I	I feel [4] 90/23 115/9 115/18 119/11 I find [1] 68/6 I first [1] 183/13 I found [2] 45/21 145/5 I had [6] 46/5 49/24 107/2 132/15 179/6 182/22 I have [8] 61/11 62/13 91/1 102/7 116/5 118/17 173/19 181/4 I haven't [3] 72/16 85/18 89/17 I just [2] 52/2 92/21 I know [2] 27/24 107/25 I look [2] 119/24 171/25 I make [1] 67/25 I mean [1] 19/13 I omitted [1] 163/4 I raise [1] 39/25 I read [1] 84/16 I say [3] 31/15 51/17 53/12 I see [1] 19/7 I selected [1] 45/20 I shall [1] 60/25	I want [5] 25/24 28/22 64/6 97/19 178/4 I was [10] 9/2 21/23 27/7 27/18 35/22 107/20 119/12 135/23 135/25 184/9 I will [2] 42/19 52/15 I won't [7] 10/2 15/8 69/11 72/5 76/24 165/6 176/13 I would [7] 19/13 62/15 111/21 118/12 132/23 135/1 135/1 I'll [21] 1/14 1/24 2/6 3/11 4/22 13/22 14/25 14/25 22/8 45/8 47/2 80/6 84/16 103/11 109/11 141/22 165/13 176/22 177/6 180/4 185/2 I'm [39] 2/24 20/7 25/18 34/1 34/9 41/2 44/6 44/13 51/18 52/1 53/15 54/9 62/23 66/15 75/22 82/20 89/4 89/16 89/22 106/6 115/2 119/5 125/13 125/15 125/23 133/23 134/11 134/15	immuno [17] 44/24 46/10 46/19 47/11 55/20 58/19 67/24 71/7 75/10 76/17 76/22 82/11 82/14 85/5 85/13 122/9 140/9 immuno-suppressed [1] 140/9 immunological [1] 118/1 Immunological [1] 118/1 Immunology [2] 149/15 150/18 impact [2] 95/16 176/22 impacts [1] 101/2 implementation [1] 63/17 implicated [1] 169/19 implications [2] 85/7 128/1 implicit [2] 104/10 116/24 importance [2] 39/19 170/19

(61) her... - important

	,				
1	increasing [4] 61/18	135/23 151/25 154/9	23/22 72/6 172/1	inviting [1] 60/14	157/18 165/1
	165/10 175/10 184/2	157/6 159/3 159/7	178/13 186/18	involve [1] 8/14	issuing [1] 12/6
important [9] 18/2	incubation [5] 144/10	172/10 178/6 180/5	Inquiry's [1] 101/4	involved [8] 13/8	it's [113] 3/11 7/10 8/6
51/21 55/10 91/9	167/4 172/20 174/7	181/24 182/20 186/22	inroads [1] 85/7	16/15 26/22 27/13	13/15 13/20 15/23
147/21 152/16 157/2	174/8	187/20 188/8 188/23	instance [2] 55/12	28/13 38/10 133/8	15/25 17/13 17/14
184/5 184/13	indeed [11] 1/19 12/8	189/18	137/16	135/23	18/13 18/25 19/2
imported [3] 40/18	19/10 81/8 82/15	information: [1] 81/24		involved providing [1]	
85/3 94/20	107/20 108/1 115/23	information: four [1]	Instinctively [1]	135/23	25/23 39/15 39/16
impossible [2] 41/18	118/25 126/25 137/19	81/24	129/20	involvement [3] 12/20	
68/6	indefinitely [1] 121/0	informed [5] 152/9	instituted [1] 175/16	24/14 35/15	44/10 47/20 51/1
impractical [1] 170/24		171/19 171/21 181/1		IPCN0000332 [1] 61/2	
impressed [1] 41/25	indicate [4] 22/8	189/16			
improve [1] 127/15	22/10 111/1 154/25			IPSN0000332 [5] 58/2	
improved [2] 31/7	indicated [2] 17/25	informing [1] 62/11	insulin' [1] 31/25	60/9 60/10 60/19 62/8	64/11 65/5 66/1 66/17
108/16	117/21	infrequently [4] 123/4	intelligence [1] 56/5	Ireland [96] 3/10 3/13	67/11 70/1 74/9 75/25
improvement [1]	indicates [1] 24/11	143/7 174/11 176/13	intended [5] 1/7 94/3	3/15 5/6 5/10 5/12	76/2 77/21 84/3 84/9
128/19	indirectly [2] 162/20	infused [2] 33/10	101/11 101/16 113/8	5/18 5/19 5/21 5/23	84/10 87/17 90/2
inability [2] 37/10	163/21	33/14	intention [1] 1/8	6/5 6/18 6/23 6/25 7/2	91/15 95/17 95/18
57/20	individual [12] 14/24	infusion [3] 33/18	interactions [1] 60/8	7/12 7/20 7/21 9/24	95/19 97/22 97/24
inaccuracy [1] 68/9	23/18 27/15 34/4	183/11 183/12	interest [4] 12/25 13/2		97/24 97/24 99/19
	35/11 38/5 39/15	infusions [4] 3/24	59/6 147/11	15/24 17/15 18/9	100/7 100/12 103/12
inadequacy [1]	68/16 82/5 84/21	32/21 110/14 172/15	interested [2] 61/6	18/22 18/25 27/10	105/3 106/7 106/8
189/17	109/14 114/6	Ingles [1] 12/13	164/3	34/21 44/14 44/21	108/7 108/8 109/3
inadequate [2] 16/24	individually [1] 152/8	Ingram [3] 42/9	interesting [4] 17/2	45/8 46/14 46/18	109/18 110/10 110/10
86/23	individuals [3] 1/17	141/19 146/20	17/11 47/16 116/11	46/20 47/5 49/2 52/18	110/13 120/13 122/1
inadvisable [1] 140/7	105/1 181/22	inherited [2] 14/5	interim [2] 102/25	52/23 54/13 56/13	123/2 123/24 123/24
incidence [19] 137/4	induced [1] 183/20	20/11	117/16	58/15 63/21 63/23	124/1 125/11 125/17
138/8 138/21 141/15	ineffective [1] 41/18	inhibitor [13] 40/6	interlude [1] 25/16	87/5 88/14 93/8 93/13	125/21 125/22 130/1
145/3 146/7 147/14	inevitably [2] 126/23	41/19 67/18 71/2	internal [2] 58/3 93/19		130/9 134/19 134/20
153/18 155/5 155/6	133/14	75/24 78/25 81/20	international [2]	95/24 96/5 96/9 96/15	135/17 138/4 139/13
157/2 157/4 157/16	inexhaustible [1]	120/25 121/7 122/2	94/16 95/9	96/20 96/22 97/2 97/9	139/14 140/16 140/17
162/22 169/14 177/9	130/2	122/3 140/20 178/20	interpret [1] 146/14	98/14 99/3 100/22	141/23 141/24 142/7
177/10 187/1 187/10					
incident [1] 40/14	infected [11] 1/17	inhibitors [12] 58/16	interpreting [1] 160/9	101/5 101/10 101/11	142/23 147/16 148/9
incidental [1] 38/9	1/18 1/22 47/15 52/1	59/19 67/5 67/9 76/6	intervals [1] 45/15	101/25 102/4 102/6	150/9 151/13 151/18
Incidentally [1] 45/25	81/4 139/21 145/20	78/16 79/3 83/11	interviewing [1] 140/6		151/19 152/18 153/6
include [5] 17/7 65/15	146/24 176/18 187/23	87/11 91/22 122/5	intestinal [1] 41/17	106/14 107/10 107/17	153/10 154/24 160/14
137/2 146/12 153/13	intecting [1] 140/8	138/8	into [15] 1/9 45/5	108/20 109/9 109/14	161/21 161/22 163/4
included [6] 5/19 33/5	infection [25] 39/3	initial [2] 111/8	45/15 74/4 82/21 85/8	115/6 115/11 118/7	164/1 165/6 172/1
56/8 89/24 154/2	129/12 134/12 133/12	111/25	93/10 114/6 127/19	118/20 120/6 131/19	172/1 182/11 186/20
155/15	135/21 138/24 139/4	initially [6] 11/9 29/25	158/25 170/15 172/5	131/25 132/4 132/10	187/2
includes [2] 86/5	140/3 168/22 169/5	34/17 34/23 63/13	172/15 175/22 179/9	132/17 133/19 134/5	it's 71,370 [1] 74/9
141/11	169/10 169/14 169/18	131/22	intravenous [5] 35/25	134/13 158/2 176/25	italic [1] 186/11
including [7] 77/2	174/11 174/14 175/20	initials [1] 58/6	45/15 122/21 139/21	177/1 184/22 187/4	itchy [1] 38/17
97/7 135/13 138/11	176/17 181/17 182/4	initiated [1] 44/18	150/11	187/11	item [1] 130/21
138/16 146/24 153/4	183/20 184/10 184/12	inject [1] 84/25	introduce [2] 94/3	Irish [4] 7/17 9/5 9/5	its [27] 2/25 7/13
	185/23 187/3 187/10	injecting [2] 35/23	127/19	93/12	11/25 13/19 32/10
incomplete [1] 184/19	infections [6] 45/10	45/14	introduced [7] 29/7	Islands [1] 95/21	38/21 38/21 55/21
inconvenient [1]	165/6 177/3 181/9	injection [4] 48/14	51/2 57/10 57/18	Isley [1] 42/9	56/18 93/16 96/10
38/23	188/10 188/16	122/21 150/11 170/23	57/22 62/20 64/2	isn't [3] 1/7 51/18	100/20 101/16 102/11
incorrect [2] 14/3	infective [2] 141/1	injections [1] 49/25	introducing [2]	100/6	102/18 119/1 121/16
65/9	177/19	injuries [1] 36/13	112/18 147/13	isolation [1] 175/4	121/17 121/17 121/21
increase [8] 37/13	infectivity [1] 112/8	injury [1] 32/5	introduction [12] 2/24		122/6 141/4 148/11
49/1 50/20 51/11	infer [1] 143/11	inmates [1] 173/3	26/17 44/4 74/14	38/8 40/7 92/20 95/15	168/20 175/1 175/5
86/23 96/10 127/20	inferring [1] 156/14	innate [1] 45/13	87/14 107/9 133/23	105/19 106/7 117/12	185/19
176/6	Infirmary [1] 17/22	innovation [1] 29/4	148/10 165/11 166/21	124/22 125/5 125/6	its long [1] 185/19
increased [12] 29/10	influence [1] 146/18	inoculated [1] 172/9	172/4 172/23	131/5 134/17 142/2	itself [6] 73/19 74/6
37/16 37/23 46/19	inform [1] 61/8	inpatient [3] 11/2 55/8		145/18 149/19 152/16	139/25 156/5 174/24
50/23 51/3 57/7 86/19	informal [1] 183/23	85/11	144/23	181/25 186/24	175/5
131/24 132/19 172/14					
173/2	information [32] 3/17	inpatients [1] 52/24	investigated [1] 175/2	<b>issued [2]</b> 14/22 84/19	IV [2] 49/25 178/22
increased demands	6/13 9/13 10/10 13/24		investigations [1]		IX [32] 57/25 62/21
<b>[1]</b> 51/3	21/8 42/1 42/3 43/18	16/10 129/2	162/7	issues [10] 3/14 16/7	63/5 63/10 63/21 64/1
increases [1] 15/4	49/15 60/1 67/7 71/16	Inquiry [11] 1/11 1/15	invite [1] 84/9	104/5 133/17 139/9	64/4 64/21 65/4 65/7
	72/23 76/11 135/19	1/20 1/23 2/4 2/15	invited [1] 151/11	147/10 149/19 155/17	67/1 67/11 67/13 70/9
L		L	L		(62) immentant IV

(62) important... - IX

1	91/14 92/21 97/10	183/4 183/13	83/14 133/22 175/3	levels [3] 32/11 36/16	31/19 120/10 120/11
	97/10 97/23 98/18	knows [1] 58/25	183/2 184/1	163/19	123/23 128/10 130/6
IX [18] 70/23 70/24	99/15 99/20 103/19	Koate [8] 60/15 61/7	late 1980s [1] 175/3	Levine [1] 166/14	130/13 133/5 165/3
71/3 75/18 76/5 76/21					
79/16 81/19 82/1 84/5	106/2 107/5 107/18	62/3 62/6 62/19 70/14	late-1970s [1] 184/1	Lewis [1] 168/1	165/5 171/9 183/4
87/20 88/8 88/9 88/16	108/17 110/6 114/22	74/19 92/12	later [19] 9/2 36/4	LFT [3] 146/12 146/14	
88/23 89/2 94/10	123/20 123/25 125/1	KRYOBULIN [34]	46/23 53/3 59/24 61/3	147/20	litres [2] 146/23 150/2
1	125/2 125/15 125/16	44/24 45/20 46/9 47/9	65/20 81/4 93/18	LFTs [2] 146/15 159/8	little [22] 10/10 16/11
98/23	135/16 136/7 137/14	47/11 48/7 49/7 51/3	97/23 99/19 99/20	Liberton [3] 102/7	18/13 22/9 22/20
J	139/8 146/16 147/8	55/20 56/16 56/25	113/8 114/5 114/7	102/19 103/2	24/21 28/16 45/12
5	148/3 148/16 160/18	57/5 57/8 57/20 64/25	114/15 134/10 141/25	lies [1] 96/16	59/17 59/24 73/15
January [10] 15/23					
24/25 42/25 108/8	161/24 166/8 168/13	65/2 66/25 69/8 69/10	172/8	life [7] 28/24 29/10	76/19 88/21 91/14
119/2 136/7 139/14	173/14 176/2 178/13	70/21 70/23 71/25	latest [1] 86/4	29/13 39/20 110/17	136/8 137/20 145/25
142/4 142/9 144/4	182/2 185/21 186/3	74/23 78/1 78/6 80/13	latter [8] 40/16 48/17	167/9 167/17	154/10 157/22 158/24
	186/23	80/15 83/20 83/21	56/25 111/13 121/11	life-threatening [2]	180/6 184/7
January 1974 [2]		83/23 153/19 154/4	165/23 176/17 184/11	167/9 167/17	liver [38] 58/23 60/6
142/4 144/4	K	154/7 161/14	laureates [1] 173/16	lifesaving [1] 56/15	139/24 140/24 141/2
January 1977 [1]	keel [1] 91/3	Kryobulin: [1] 79/7	Lawson [2] 100/21	lifestyle [3] 46/17	141/4 146/13 152/6
136/7					
January 1988 [1]	keen [2] 59/16 109/6	Kryobulin: 13,434 [1]	101/10	50/19 91/23	152/12 157/6 161/11
24/25	keep [6] 43/14 49/13	79/7	leaflet [1] 5/14	light [3] 19/6 130/12	162/5 162/15 162/17
January 1989 [1]	60/1 61/25 63/1 91/3	1	learn [3] 11/7 30/22	189/9	162/17 162/20 163/12
119/2	keeper [1] 12/3	L	119/5	like [16] 5/25 13/20	163/24 164/4 164/6
	keeping [6] 43/19	Lab [1] 62/13	learned [1] 183/13	39/2 43/23 45/21	164/8 164/12 164/18
January 1992 [1]	69/20 96/16 114/4	laboratories [3] 42/7	learnt [2] 110/14	48/19 59/20 76/4	166/15 167/22 168/2
15/23	133/10 185/19	45/2 145/14	115/20	77/11 88/17 89/2	168/7 168/22 169/2
jaundice [14] 114/3	keeps [1] 11/1	laboratory [11] 11/20	least [13] 15/12 18/17	102/16 119/7 126/17	174/16 178/20 178/25
137/5 138/8 138/17	kept [3] 115/19	12/11 12/14 29/25	29/14 39/22 58/24	136/25 156/24	
139/18 141/15 142/15					179/6 179/13 180/8
143/15 143/17 144/9	116/20 138/16	61/12 94/7 138/25	66/25 81/9 105/5	likeliest [1] 89/13	181/11 185/7 185/16
146/3 166/7 172/4	Kernoff [2] 121/4	141/21 143/21 145/6	105/17 110/3 112/24	likelihood [1] 37/4	local [6] 44/16 52/20
172/19	159/18	187/17	155/13 183/6	likely [20] 37/23 43/9	104/12 106/16 106/21
	Kerr [1] 13/7	lack [9] 18/2 18/5 18/9	leave [2] 13/3 14/25	47/15 50/15 53/4	108/5
jaundice' [1] 172/12	kind [4] 8/13 8/17 9/4	19/1 19/9 85/12	lecture [1] 90/14	56/21 61/15 75/8	locally [5] 11/23
Jersey [1] 97/14	10/5	100/11 121/16 185/10	led [2] 32/21 48/5	105/2 112/19 115/21	55/11 63/10 92/2
job [2] 12/8 132/24	Kingdom [5] 56/12	Lancet [3] 149/9	left [3] 63/13 116/15	129/21 129/23 129/24	109/7
John [5] 36/3 42/2	165/16 166/25 175/15	150/8 170/21	151/9	135/6 144/25 145/14	located [1] 3/6
62/13 116/6 175/18	177/10	Lane [2] 96/9 132/16			
joint [5] 15/16 39/19			left with [1] 63/13	153/4 160/7 177/19	location [1] 4/6
42/22 142/7 170/15	Kirk [4] 147/13 151/15		left-hand [1] 151/9	Likewise [1] 37/15	logic [3] 19/5 51/8
Jones [2] 25/8 25/13	151/24 153/1	37/3 37/7 56/23	legal [2] 186/6 186/20	limited [13] 26/18	125/16
journal [6] 149/6	knee [1] 39/19	136/24 149/20 150/2	lengthier [1] 23/24	36/8 44/25 46/22	logically [2] 29/13
	knew [4] 180/24	173/6 177/18	less [7] 33/12 47/15	55/20 56/11 57/13	45/19
149/10 149/15 167/25	182/19 183/2 185/8	largely [2] 82/21	56/15 77/25 109/18	85/10 107/13 121/17	London [4] 9/3 42/10
185/2 186/25 journey [2] 7/19 96/17	know [22] 2/3 4/17	132/15	121/7 125/7	132/13 132/25 144/23	102/23 117/21
journey [2] 7/19 96/17	16/17 19/17 19/23	larger [6] 34/22 37/6	lesser [1] 149/15	limiting [1] 167/16	long [16] 7/19 23/20
juagment [1] 135/5	27/24 47/10 47/16	74/25 81/17 83/3		line [12] 20/2 28/24	61/11 63/1 87/3
Julia [3] 21/6 25/11		149/23	let [4] 19/24 72/19		
134/9	59/12 72/19 93/24		118/12 123/25	39/18 44/13 72/16	113/13 116/4 123/24
July [5] 18/14 24/22	94/2 107/23 107/25	largest [3] 77/21 79/7	let's [1] 155/20	72/16 141/10 169/7	124/6 169/17 172/19
113/16 113/22 143/5	110/1 110/3 112/3	121/24	letter [31] 8/5 8/24	175/23 179/4 181/7	179/7 183/13 185/19
July '83 [1] 24/22	125/15 135/7 141/20	last [34] 1/7 8/23	10/2 40/22 41/3 62/9	182/17	185/23 186/11
	159/24 171/16	12/21 16/12 21/14	62/10 68/2 87/16	lines [20] 5/17 30/25	longer [5] 10/5 30/8
July 1975 [1] 143/5	knowing [1] 154/1	52/3 59/15 63/17 69/9	101/19 103/9 105/3	31/20 32/16 52/3	96/12 97/2 174/8
July 1987 [1] 113/16	knowledge [11] 27/9	69/16 73/11 79/19	105/16 107/14 108/8	63/17 76/17 93/5	look [74] 3/2 4/22 7/9
juniors [1] 16/24	46/18 134/12 135/7	82/20 87/4 89/5 89/23	108/10 110/9 113/14	124/6 124/13 126/20	8/18 8/23 10/12 13/19
just [77] 8/23 15/20	155/18 178/5 178/8	91/15 91/15 97/13	114/24 114/25 116/1		
17/1 18/13 19/24				144/16 145/11 146/16	13/23 16/2 16/4 16/11
19/25 22/20 24/21	184/17 185/16 189/9	103/11 104/1 104/23	116/22 117/10 117/11	146/17 147/18 157/11	21/12 21/14 25/24
32/16 34/9 41/2 43/5	189/13	105/25 113/22 115/3	119/8 139/12 140/13	158/25 165/21 166/13	27/2 30/14 34/5 42/19
47/8 49/22 50/2 50/3	knowledgeable [1]	124/6 126/20 158/11	140/17 188/22 188/23	linked [1] 148/12	44/6 44/7 45/9 49/17
50/3 51/20 52/2 52/15	130/25	159/1 160/18 161/2	189/7	list [8] 6/5 16/2 16/5	50/2 51/22 53/1 55/3
	known [19] 4/3 59/9	172/24 179/3 185/21	letters [2] 114/5 114/7	93/2 136/8 141/9	57/24 58/5 59/16
54/12 54/24 58/5 60/7	73/3 121/16 135/25	lasting [1] 38/19	leukaemia [1] 22/1	145/25 151/8	61/25 63/4 64/10
62/10 65/13 67/15	137/25 148/23 149/15	late [16] 2/6 10/11	leukemia [1] 24/13	listed [5] 69/9 69/17	64/22 65/13 66/13
69/15 71/21 72/23	150/13 154/12 162/13	11/22 29/2 34/12	level [8] 28/7 28/9	71/19 138/4 142/11	68/17 69/16 70/10
73/15 76/19 76/23					
79/13 82/3 83/19 86/2	174/17 174/18 174/22	47/10 50/25 51/17	33/16 37/19 107/25	Lister [1] 41/1	72/19 74/6 77/15 78/9
	176/4 179/19 179/19	57/6 57/17 63/16	111/11 122/22 122/23	litigation [15] 23/25	80/17 81/4 82/5 82/8
					(63) IX look

(63) IX... - look

	1				
L	31/22	manufacturing [1]	40/17 52/5 55/2 60/21	31/18 31/20 34/5 38/3	member [2] 23/8
	Macfarlane Trust [1]	127/16	61/17 68/9 74/20 80/5	41/9 41/12 44/7 49/13	152/21
look [28] 84/9 84/14	23/11	many [15] 11/3 30/4	84/1 89/24 101/21	60/4 60/19 61/4 62/7	members [7] 1/18
85/22 88/20 89/15	MacFarlane's [1] 32/3		103/14 103/19 104/2	62/22 64/13 74/17	11/2 11/4 13/13 93/24
90/12 90/18 97/19	MacPherson [1]	89/21 95/9 113/23	104/3 104/4 105/6	87/22 89/13 92/16	94/2 101/7
98/18 105/19 114/23	101/22	121/11 122/11 139/25	108/5 109/4 113/10	106/22 112/23 114/24	membership [1]
119/24 138/13 139/8	made [27] 16/4 24/2	147/21 148/13 171/4	114/8 114/22 115/22	121/19 125/13 130/3	10/24
141/6 142/13 145/24	36/7 42/6 51/4 59/23	177/18	115/23 117/18 119/6	133/16 134/8 143/10	memo [1] 106/9
148/3 153/23 155/17	70/15 80/6 85/7	March [10] 1/1 3/9	121/20 122/5 126/25	160/15 165/4	memory [1] 89/25
161/24 171/25 176/22	107/21 110/19 111/16	15/17 28/22 31/14	135/5 136/24 139/18	McAfee [1] 10/25	Men [1] 48/17
178/5 178/13 180/13	112/8 118/2 119/17	51/23 102/21 140/14	139/22 140/11 141/25	McClelland [6] 102/4	menstrual [2] 37/17
188/19 188/22	133/5 143/22 145/15	140/16 188/22	143/9 143/10 148/19	106/17 107/14 108/9	37/20
looked [22] 22/2 26/6	146/11 150/2 152/23	March 1984 [1]	156/13 174/15	117/14 119/5	mentioned [4] 62/11
28/21 51/23 54/6	158/16 158/17 160/2	188/22	May 1972 [1] 139/22	McGuigan [1] 11/1	101/2 117/25 123/4
54/25 66/22 84/10	178/11 178/11 183/3	March 1988 [4] 3/9	May 1984 [1] 103/19	McNulty [2] 2/10 25/5	merely [1] 45/13
84/12 89/11 90/6	magazine [1] 90/11	28/22 31/14 51/23	May 1990 [1] 121/20	me [12] 19/24 50/4	met [3] 57/9 94/18
93/10 100/16 132/6	main [5] 26/10 76/3	mark [1] 13/9		59/7 89/25 91/8	115/20
142/6 159/25 173/24	120/15 147/9 167/18	marked [1] 182/22	maybe [2] 19/18 183/1	107/18 109/10 117/22	method [1] 8/12
180/19 181/3 186/4					
186/7 186/12	mainly [2] 26/22 95/1	markedly [1] 108/16	Maycock [1] 139/1	119/7 123/25 125/16	methodology [2]
looking [11] 1/5 41/2	maintain [6] 12/7	marker [1] 168/20	Maycock's [1] 43/2	130/22	29/24 32/9
47/21 53/25 81/2	12/12 31/8 56/23	Mary [1] 11/1	Mayne [129] 2/2 3/12	mean [3] 19/13 117/6	methods [2] 148/21
89/16 125/4 146/5	109/6 184/25	material [68] 12/6	3/20 5/24 6/11 7/25	125/13	187/15
155/7 169/1 180/14	maintained [1] 54/23	22/22 22/23 35/23	8/3 8/15 10/16 11/24	means [3] 31/11	mid [11] 26/15 29/8
looks [8] 43/23 51/25	Maintenance [1]	38/9 40/11 43/9 43/12	12/22 13/19 13/20	129/22 140/2	37/17 44/18 64/2
74/19 75/25 76/4	33/17	45/14 49/25 52/20	17/3 17/12 17/18	meantime [3] 102/23	89/12 130/15 135/3
77/11 88/17 89/2	major [7] 26/16 30/8	54/13 54/18 56/8	19/12 22/11 22/15	116/6 139/3	170/6 175/2 184/1
loss [2] 96/11 127/3	33/13 36/14 104/6	56/21 56/24 56/25	22/22 22/24 23/8	measure [1] 29/14	mid-'70s [1] 89/12
lot [3] 51/21 90/24	167/10 167/17	57/10 57/12 57/19	23/16 24/15 25/25	measures [1] 26/19	mid-1960s [1] 26/15
109/23	majority [8] 73/3 73/4	59/21 62/1 63/23	27/1 29/20 35/3 39/11	Med [1] 62/13	mid-1970s [3] 44/18
LOTH0000005 [2]	81/6 118/19 170/17	64/22 67/7 67/16		medical [5] 10/14	130/15 170/6
107/7 108/8	170/22 171/11 181/23	68/19 71/18 76/14	43/11 47/17 48/1 54/4	61/12 91/17 185/2	mid-1980s [3] 64/2
LOTH0000012 [1]	make [15] 7/19 9/24	76/16 82/18 82/19	55/18 55/18 58/9	186/25	135/3 184/1
160/20	37/10 67/25 92/16	85/3 85/9 85/11 85/15	58/12 58/17 59/10	Medicine [3] 149/6	mid-cycle [1] 37/17
LOTH0000051 [1]	96/11 103/6 103/11	85/16 86/19 86/20	59/15 59/22 59/25	149/11 167/25	middle [3] 90/19
15/22	111/21 118/18 125/24	86/23 87/1 87/2 88/22	60/12 62/4 63/18 64/4	Medicines [1] 23/15	114/14 114/15
Lothian [1] 115/12	143/16 168/25 171/7	89/1 89/2 102/21	65/3 65/25 68/2 70/3	medico [2] 186/6	might [20] 8/20 9/25
lotions [1] 38/14	171/21	108/16 108/16 111/22	73/16 76/4 78/7 84/8	186/20	12/2 20/19 22/10
lots [2] 151/20 170/1	makes [5] 35/3 47/8	116/7 117/22 118/16	84/15 85/12 86/17	meet [7] 8/20 50/21	22/12 26/23 38/4
low [4] 33/23 59/18	83/14 88/12 171/6	119/20 119/22 120/4	87/7 90/7 90/15 92/3	51/9 91/23 131/11	38/12 39/8 45/25
107/25 130/23	making [7] 11/4 13/9	120/5 121/5 144/8	93/3 93/6 93/11 98/25	132/13 152/20	49/23 56/1 66/18
lower [1] 59/5	17/9 27/14 119/9	144/21 146/19 147/24	99/8 99/12 100/2	meeting [46] 5/3 6/17	77/11 88/24 109/19
lowering [1] 33/8	126/12 179/16	158/16 158/17 165/2	103/14 105/4 106/5	9/3 42/22 58/9 58/24	118/9 144/13 147/10
loyalty [1] 59/1	Malachy [1] 54/5	167/13 173/24 176/3	107/22 108/23 108/25	90/13 93/1 100/19	mild [11] 38/17 86/13
Ltd [2] 42/7 46/12	man [1] 42/5	178/2	108/25 109/19 113/1	115/4 117/21 136/6	121/11 122/19 123/14
Ludiam [16] 16/3 16/5	managed [2] 3/23	materials [14] 64/11	113/10 113/15 114/21	136/13 136/20 137/14	139/24 160/11 161/4
17/2 17/9 17/21	90/24	66/22 68/7 69/8 69/10	115/1 116/21 117/12	138/4 141/9 141/24	174/10 176/7 189/1
107/17 108/9 108/23	management [3] 3/10	69/14 76/11 89/10	120/11 121/1 122/3	142/3 142/6 142/7	mildly [6] 30/19 33/10
108/24 109/6 109/17	11/17 43/13	90/6 92/5 144/12	122/7 123/20 124/4	142/20 142/22 142/25	158/21 171/2 188/24
112/12 114/22 115/1	Manchester [2] 90/14	163/1 176/2 187/14	134/3 134/14 136/12	143/8 145/13 145/17	189/5
117/15 117/21	159/18	maths [1] 85/18	137/18 138/3 139/5	145/23 148/5 148/8	milestone [1] 29/21
	manifested [1] 185/24		139/12 140/6 140/12	151/3 151/6 152/18	million [4] 7/13 94/16
Ludiam's [1] 108/7	Mannucci [1] 166/14	matter [6] 109/15	140/17 141/5 142/11	153/6 155/14 155/15	115/6 115/11
lulled [1] 179/9	Mannucci's [1]	131/9 135/5 178/1	151/10 156/1 156/12	156/2 156/11 157/21	Milne [1] 92/10
lunch [1] 105/20	175/24	180/20 181/14	157/24 160/21 165/2	157/25 159/6 159/23	Milne's [1] 10/2
Luncheon [1] 105/23	mantle [2] 25/14	matters [7] 9/6 97/6	166/24 167/11 167/13	160/16 160/20 161/21	min [1] 111/11
lymph [1] 172/7	34/20	120/17 133/21 148/15	171/25 172/3 176/4	164/22	min/max [1] 111/11
lymph-derived [1]	manufacture [3]	171/6 171/22	178/8 178/11 178/14	meetings [14] 6/1	mind [2] 46/1 107/3
172/7	11/25 33/24 44/15	max [1] 111/11	179/12 181/21 182/16	6/12 6/14 124/22	mine [1] 109/11
Lynne [1] 11/12	manufactured [7]	may [52] 9/6 9/10	183/9 186/6 186/19	124/25 126/4 137/19	minimise [1] 49/8
lyophilised [1] 30/13	42/7 46/13 47/11	9/10 9/11 16/23 19/20	188/22 188/25 189/10	137/21 160/19 163/7	minimised [1] 49/22
M	56/10 63/24 67/12	19/21 21/7 28/10	Mayne's [33] 15/12	164/25 181/18 181/20	minor [2] 33/6 122/24
	94/19	31/19 40/13 40/15	21/12 25/9 28/19	182/6	minority [1] 126/24
Macfarlane [2] 23/11					
L	4	L			L

(64) look ... - minority

	1				
M	180/6 182/21	60/1 99/5 106/13	negotiated [1] 106/16	86/19 86/23 87/2	123/19 124/15 128/1
	morning [3] 1/4 132/7	119/19 152/7	negotiations [2]	92/24 96/3 98/15	134/25 134/25 135/2
minutes [21] 5/3 6/17	142/6	my [23] 10/8 26/4	108/15 128/14	101/17 103/23 104/3	135/2 137/9 150/4
14/2 28/21 42/22 55/4	Morris [2] 117/14	26/9 26/21 27/9 34/16	Neither [1] 144/9	104/10 104/13 104/25	150/13 150/13 150/13
136/6 141/8 143/2					
143/6 143/11 145/23	119/7	36/19 42/2 42/4 45/13	NEJM [1] 149/5	105/9 105/13 109/20	150/20 150/21 150/21
151/5 152/23 153/11	Mortality [1] 163/15	60/9 60/25 61/12 68/1	Nelson [16] 3/6 23/7	114/20 116/7 116/18	154/8 154/14 154/15
156/3 156/10 156/14	mortem [3] 163/20	89/25 109/11 118/12	43/3 64/13 65/25 70/4	117/17 117/22 118/5	154/15 154/16 155/5
156/16 186/4 186/13	163/24 164/4	135/18 178/21 183/19	137/18 140/5 140/12	118/11 118/13 119/13	160/6 160/6 160/9
1	most [17] 18/1 23/19	184/17 184/19 184/23	141/11 142/12 143/1	120/4 131/12 131/14	160/9 160/11 160/11
miscellaneous [1]	34/6 41/24 45/19 48/3	My pagination's [1]	145/17 145/19 151/9	131/20 131/22 132/1	162/10 162/10 162/13
23/23	48/9 49/10 61/6 98/7	135/18	155/15	132/12 132/18 132/19	162/18 163/18 163/18
mishap [1] 49/23	119/18 129/6 149/7	myself [4] 35/10 36/6	Nelson's [1] 143/9	132/22 132/24 137/5	164/20 164/20 167/5
Miss [1] 13/7	161/4 162/11 163/9	44/22 61/20	Netherlands [1]	144/7 144/23 144/25	167/5 168/11 168/11
Miss Geraldine [1]	174/16		129/12		
13/7		N		146/20 162/23 184/11	
Mister [1] 48/17	motivating [1] 46/1		never [9] 12/3 35/3	189/2	168/25 169/3 169/3
mix [1] 65/1	move [3] 21/4 104/9	name [5] 43/2 64/13	36/17 36/18 118/5	NHS concentrate [1]	169/5 169/5 169/17
MLSO [5] 11/20 12/13	105/7	65/25 142/11 144/22	118/11 118/15 132/1	92/24	169/18 169/23 173/5
	moved [1] 21/3	named [2] 40/19	132/12	NHS Factor VIII [1]	173/5 173/12 174/4
99/7 115/8 116/16	moving [1] 110/7	40/22	new [13] 12/15 29/2	96/3	174/4 174/6 174/7
moderate [3] 65/10	Mr [19] 11/20 54/5	namely [4] 45/4 45/19	30/6 41/24 42/4	NHS plasma [1]	174/9 174/9 174/21
72/11 122/19	51/7 57/1 57/11 58/1	85/6 118/15	111/19 120/20 147/25	101/17	174/21 176/6 176/6
moderately [1] 123/15	60/3 60/8 60/12 61/4	names [3] 22/21	149/6 149/10 156/24	NIBS0001721 [1]	176/16 176/16 181/24
moderates [1] 72/12	00/3 00/0 00/12 01/4	104/24 136/11			
modern [1] 15/5	61/19 62/4 62/10		157/13 167/25	103/11	181/24 184/2 184/2
modest [2] 80/12	62/13 70/17 74/20	naming [1] 175/5	New England [3]	NIBS0001762 [1]	184/10 184/10 184/18
170/1	75/6 92/11 99/7	nation [1] 125/7	149/6 149/10 167/25	114/25	184/18 184/22 185/5
	Mr Carville [3] 11/20	National [3] 93/21	Newcastle [1] 147/16	NIBS0001767 [1]	185/5 188/4 189/4
modifications [1]	61/19 99/7	100/17 104/8	newly [1] 36/4	117/13	189/5 189/6 189/7
127/19	Mr Devlin [2] 54/7	natural [1] 162/12	next [87] 8/19 8/20	NIBTS [1] 183/23	non A [1] 167/5
moment [7] 42/20	57/4	nature [6] 135/24	11/8 11/14 12/17	NIHC [1] 54/13	non B [1] 167/5
58/6 125/1 125/23	Mr Devlin's [1] 57/14	139/24 157/17 168/5	12/20 13/17 26/20	nine [1] 79/2	non-'B' [2] 150/4
155/19 185/2 186/7		174/3 174/4			
moments [2] 4/22	Mr Malachy [1] 54/5		27/6 27/16 30/10 33/1	no [79] 3/22 4/4 4/4	150/20
50/4	Mr Williams [9] 58/4	NB [1] 75/21	36/10 39/13 42/17	4/6 5/11 10/3 12/10	non-A [28] 114/4
money [1] 125/10	60/8 60/12 61/4 62/4	NBTS [1] 93/20	43/1 48/11 48/23 54/2	13/22 18/10 19/1 19/3	134/25 135/2 150/13
monitoring [2] 12/12	62/10 70/17 74/20	near [2] 18/12 89/8	55/16 62/25 63/3	20/18 20/19 21/20	150/21 154/15 160/6
103/16	92/11	necessarily [3] 83/5	63/25 64/6 68/24	22/5 22/6 26/11 30/3	160/9 160/11 162/10
	Mr Williams' [2] 60/3	86/13 107/3	69/25 71/7 71/15 73/7	30/7 35/10 35/14	163/18 164/20 168/11
month [5] 9/2 17/20	75/6	necessary [16] 12/9	75/22 76/9 76/14	36/23 39/21 40/21	168/25 169/3 173/5
31/3 41/21 102/20	MRCPath [2] 23/2	14/21 38/23 50/21	76/18 77/4 81/13	45/7 47/4 47/19 48/20	174/4 174/6 174/9
month's [1] 111/2	183/16	51/9 61/20 61/23	81/23 82/3 82/12	48/25 49/9 50/5 52/21	174/21 176/6 176/16
monthly [3] 97/12	Mrs [1] 11/12	84/18 86/21 91/2	88/16 90/18 95/7 97/4	55/23 63/6 65/11	181/24 184/2 184/10
97/14 115/25					
months [11] 15/17	Mrs Lynne [1] 11/12	108/4 117/23 127/15	98/18 101/4 111/18	70/24 73/3 73/3 74/19	184/18 185/5 189/6
35/24 93/17 104/1	Ms [1] 68/2	127/16 128/15 184/25	112/13 122/9 122/15	75/11 78/11 78/23	non-achievement [1]
112/18 113/4 113/4	Ms Spooner [1] 68/2	necessitating [1] 30/8		81/22 83/19 83/21	128/1
139/25 143/8 159/8	much [20] 15/14	necessity [1] 33/19	127/8 127/18 129/1	86/1 86/10 87/24 88/1	non-B [35] 114/4
	27/25 27/25 29/18	need [20] 6/16 7/18	131/16 132/5 133/1	88/7 88/8 88/9 88/11	134/25 135/2 137/9
172/20	43/9 43/23 56/25	10/3 16/9 22/12 45/19	135/9 136/12 137/1	90/20 91/9 93/13	150/13 150/13 150/21
monumental [1]	74/24 81/17 83/2 91/6	49/22 91/18 91/18	138/15 140/5 140/14	96/24 97/2 112/8	154/8 154/14 154/15
133/9	91/8 92/16 99/11	103/3 105/2 111/11	140/23 142/4 142/13	117/5 118/24 125/9	154/16 155/5 160/6
more [48] 2/16 3/2	131/12 144/19 149/23	113/6 124/16 126/13	143/15 144/2 145/10	125/13 125/15 129/21	160/9 160/11 162/10
4/23 7/3 10/1 10/10		127/9 127/19 131/11			
12/14 12/15 16/9	156/6 157/3 189/19		146/6 149/18 150/15	136/2 136/12 154/1	163/18 164/20 168/11
22/20 25/3 27/25 28/1	multi [5] 118/2 166/16		152/4 154/23 157/10	156/11 160/6 161/4	168/25 169/3 173/5
33/6 36/5 38/18 42/19	168/5 172/9 174/19	need/use [1] 45/19	165/13 165/19 166/22	162/19 163/16 167/12	173/12 174/4 174/7
47/14 54/10 56/16	multi-shared [1]	needed [6] 22/14 28/2		168/20 171/13 182/19	174/9 174/21 176/6
	172/9	28/7 32/19 43/10	175/22 175/24 176/24	183/2 186/11	176/16 181/24 184/2
56/24 69/1 71/18 72/2	multi-transfused [4]	56/21	185/15 186/3 188/6	no-one [2] 156/11	184/10 184/18 185/5
72/13 76/15 77/1 77/2	118/2 166/16 168/5	needing [2] 51/18	NHS [64] 43/22 64/3	183/2	189/7
88/21 91/8 101/3	174/19	129/16	65/4 66/20 66/23	Nobel [1] 173/15	non-blood [1] 123/19
115/25 120/12 128/12	multiple [5] 135/12	needs [7] 17/7 61/16	67/10 70/12 70/23	nobody [2] 142/24	non-existent [1]
130/7 133/13 133/18		86/24 105/13 117/24			
134/7 144/19 146/10	154/21 188/3 188/14		71/3 74/10 75/18	152/21	184/22
154/22 159/8 164/19	188/17	118/13 188/19	77/17 79/16 80/4	non [89] 45/1 46/3	non-haemophiliac [1]
177/19 178/5 179/17	multiply [1] 126/14	negated [1] 41/20	80/16 81/15 81/19	46/11 49/6 56/9	188/4
	1 marca 171 00/44 40/00	negative [1] 164/2	82/1 83/3 84/5 85/20	111/20 114/4 114/4	non-haemophiliacs
	must [7] 29/14 40/23	negauve [1] 104/2	02/1 00/0 01/0 00/20		
	must[/] 29/14 40/23	negauve [1] 104/2			<b>[1]</b> 162/13

(65) minutes - non-haemophiliacs

		-			
N	59/9 61/1 61/9 62/23	143/14 151/16 152/21	171/22 178/1 181/15	82/18 84/8 84/22	82/7 82/19 89/8 89/25
	63/22 64/2 64/20	155/25 156/11	occasion [3] 39/24	89/13 104/6 106/2	96/14 96/17 99/3
non-heated [1]	65/15 66/15 69/21	number [69] 1/21 2/5	107/21 148/7	107/21 109/17 110/17	100/12 105/15 105/16
111/20	71/13 73/3 75/22	3/3 4/2 5/1 7/16 11/10	occasionally [4] 13/2	113/24 116/22 118/14	106/15 110/2 111/5
non-home [1] 56/9	75/25 76/2 77/10	14/4 14/12 16/18	88/2 88/5 121/12	118/25 119/19 119/21	113/4 113/4 115/23
non-payment [1]	77/17 78/8 80/24 83/5	16/21 16/22 20/14	occasions [5] 33/6	126/23 128/8 133/4	118/14 119/19 119/21
124/15	85/4 86/11 88/15	23/8 37/6 47/22 49/16	51/24 113/23 127/1	137/14 137/22 139/5	120/8 121/10 121/12
non-treatment [1]	88/18 89/4 90/2 91/10	49/21 52/11 53/5 56/9	173/25	141/25 143/24 147/9	121/14 122/19 122/24
169/23	93/2 96/7 103/19	62/24 64/8 64/15	occupied [1] 15/13	149/7 154/22 156/11	124/6 125/12 133/12
non-viral [1] 162/18	104/3 104/13 104/25	64/17 64/18 64/21	occur [3] 49/24 50/19	157/17 161/9 163/3	134/4 135/4 140/9
none [6] 45/23 64/21	106/20 107/23 108/6	66/6 66/8 66/9 69/23	154/17	163/17 170/12 171/14	143/10 148/11 159/8
70/8 74/9 74/11	109/3 109/8 110/2	70/5 72/1 72/4 73/22	occurred [10] 29/21	171/24 172/18 173/16	160/8 161/17 162/19
106/15	110/3 111/24 115/2	73/24 75/4 75/7 76/15	33/3 33/7 33/9 38/16	177/15 177/24 181/21	165/5 166/2 167/4
Nonetheless [2] 30/5	116/25 118/24 119/16	77/1 77/8 77/11 79/22	50/16 56/20 57/6	182/11 182/19 183/2	167/10 167/17 169/25
59/4					
normal [2] 32/12	121/9 122/12 123/2	82/13 84/13 86/2 86/7	137/21 188/10	185/8 186/14 186/17	170/2 174/3 174/5
46/17	125/9 125/11 125/17	89/17 89/24 90/11	occurrence [4]	187/11 188/12 188/19	178/12 180/11 183/6
normalised [1] 30/7	126/21 126/21 127/1	91/7 95/1 97/6 104/5	121/10 121/18 166/7	ones [1] 141/25	183/11 186/6 186/22
north [4] 8/8 8/11 9/20	129/24 130/2 130/18	105/18 114/12 115/14	172/4	ongoing [2] 19/9	188/12 189/2 189/17
14/14	133/8 133/11 133/23	116/5 116/13 120/17	occurring [2] 50/17	185/9	oral [5] 1/16 2/3 2/13
Northern [96] 3/10	134/24 134/24 135/4	122/5 123/25 128/6	154/12	only [35] 5/20 6/22	37/16 38/12
3/13 3/15 5/6 5/10	135/23 135/25 139/25	137/13 155/4 155/16	occurs [1] 85/1	22/13 24/14 29/3	orally [1] 133/24
5/12 5/18 5/19 5/21	141/3 141/24 143/7	173/24 177/5 188/1	October [10] 9/17	42/16 44/24 48/24	ordeal [1] 30/8
5/23 6/5 6/18 6/23	143/9 144/8 144/14	numbered [1] 63/2	58/5 58/7 58/10 60/5	51/7 52/20 56/2 56/4	order [11] 14/20 61/21
6/24 7/12 7/20 9/5	144/18 144/21 146/15	numbers [16] 3/1 3/17	102/20 106/9 141/9	58/14 68/22 68/23	62/14 62/17 62/19
9/23 12/1 12/24 13/21	148/22 152/25 156/2	3/25 4/18 13/25 15/4	151/7 161/21	69/21 72/8 72/21	63/8 84/17 87/9
14/17 15/24 17/15	160/14 161/15 162/13	20/1 20/6 52/1 78/12	October 10th [1]	75/14 76/13 78/19	131/11 131/23 140/15
18/8 18/22 18/24	166/17 170/25 171/18	81/4 90/1 104/13	58/10	80/24 82/18 85/20	ordered [2] 87/2 87/7
27/10 34/21 44/14	172/2 173/8 173/16	128/7 129/15 151/20	October 1978 [1] 60/5	113/24 118/4 136/22	ordering [3] 99/9
44/21 45/8 46/14	175/1 179/10 179/20	nurse [2] 4/21 10/25	October 1981 [1]	156/3 159/17 164/10	99/14 99/25
46/18 46/20 49/2	181/13 181/25 184/3	nurses [1] 11/4	102/20	164/14 174/15 177/15	orders [4] 46/20 50/22
52/18 52/23 54/13	185/11 189/3	Nurses' [2] 10/23 11/3		177/20 184/23	51/11 57/9
56/13 58/15 63/20	note [17] 34/1 34/3	nursing [3] 11/6	off [2] 74/21 171/12	onset [1] 37/20	ordinary [1] 9/21
63/22 87/5 88/14 93/7	40/2 58/3 59/10 66/1	139/16 140/8	off'[1] 170/13	onwards [7] 6/15	organisation [2]
93/12 93/13 93/15	75/11 78/23 102/14	0	offer [2] 51/15 90/24	124/25 127/7 135/3	10/24 163/10
95/17 95/23 95/24	114/11 121/23 122/1		offering [1] 47/11	165/17 175/14 179/1	organisational [2]
96/4 96/9 96/15 96/20	133/20 134/1 141/21	o'clock [1] 105/21	Office [1] 6/18	open [1] 59/25	127/17 129/3
96/21 97/2 97/8 98/14	142/24 152/18	O'Keeffe [1] 25/17	Officer [2] 61/13	opening [1] 153/15	organisations [1]
99/3 100/22 101/5	noted [3] 79/10 172/5	object [1] 155/1	62/14	operate [1] 92/1	23/9
101/10 101/11 101/25	173/6	observation [5] 45/7	officers [1] 8/14	operated [2] 7/15 52/6	
102/4 102/5 102/11	notes [2] 6/17 129/13	68/1 167/15 179/17	official [3] 5/11 102/7	operation [1] 128/18	162/18 167/3
102/17 103/5 106/14	nothing [2] 27/20	180/8	145/12	operational [1]	originate [1] 14/14
107/10 107/16 108/20	97/16	observations [3]	officials [1] 96/18	128/16	originated [1] 85/4
109/8 109/14 115/6	noticing [1] 38/11	31/21 130/3 150/8	often [4] 38/19 91/6	operations [2] 58/19	orthopaedic [4] 12/21
115/11 118/6 118/20	November [12] 40/12	observe [1] 57/3	146/14 146/22	61/18	15/16 61/18 86/21
120/6 131/19 131/25	41/16 55/17 60/13	observed [3] 81/21	oh [2] 20/19 32/23	opinion [2] 170/18	other [74] 1/21 2/12
132/4 132/10 132/17	113/11 117/11 142/23	162/4 179/6	older [2] 114/8 123/2	171/11	9/19 9/22 11/3 14/16
133/19 134/5 134/13	156/2 156/11 164/22	observers [1] 100/20	ominous [1] 182/22	opposed [3] 28/14	14/23 19/10 22/1 24/2
158/1 176/25 177/1	181/19 182/6	observes [1] 166/6	omit [1] 164/14	72/11 169/24	28/16 35/10 36/23
184/22 187/3 187/11	November 1971 [2]	observing [1] 179/12	omitted [1] 163/4	opposite [1] 185/14	37/14 38/24 40/2
Northern Ireland [2]	40/12 41/16	obtain [5] 2/15 50/23	once [2] 2/14 131/6	optimism [1] 18/16	42/20 47/10 47/13
18/22 134/13	November 1979 [1]	57/20 68/6 104/21	one [91] 3/19 6/9 6/22	or [97] 1/11 1/11 1/17	51/20 52/13 53/15
1	164/22	obtained [9] 46/22	7/10 10/6 10/15 13/3	1/22 2/6 4/5 5/12 9/7	54/24 60/23 66/22
not [131] 2/3 4/25 9/1	November 1986 [1]	99/2 99/4 106/13	14/9 14/9 18/23 39/22	9/11 9/20 10/6 12/25	68/25 69/8 69/10
9/12 12/25 16/21	113/11	106/15 129/14 158/10	44/9 44/24 47/12 48/6	19/16 22/5 22/22	69/14 69/18 74/13
18/18 20/5 20/8 26/12	November 1988 [1]	158/15 164/4	49/13 50/6 51/7 51/20	23/18 25/10 27/15	74/16 76/19 78/13
27/8 27/13 27/19	117/11	obtaining [2] 35/4	56/1 56/2 57/24 59/6	27/21 28/14 29/8 30/5	84/20 86/12 92/5
27/21 27/24 28/3 28/5	now [24] 13/8 14/25	115/25	59/14 62/22 67/18	30/23 32/6 36/13	94/23 95/18 101/3
28/6 28/10 29/3 29/15	25/18 34/2 44/3 50/6	obviously [16] 2/21	68/22 68/23 69/1	37/22 38/13 43/22	105/18 107/13 116/5
32/2 34/1 37/2 39/8	61/3 70/3 77/21 78/4	13/12 18/21 28/10	69/17 69/20 71/18	48/21 49/14 49/23	118/4 118/11 118/23
43/18 44/15 47/23	82/21 84/14 101/15	35/17 59/2 101/1	72/2 72/8 73/11 74/21	50/13 52/2 55/8 55/24	120/7 121/13 122/8
48/1 49/1 49/14 51/1	103/22 108/18 133/24	108/4 114/16 122/1	76/12 76/15 76/23	63/7 64/12 65/11	123/18 123/18 125/9
55/2 56/3 58/17 59/6	134/11 137/12 142/23	130/4 137/12 159/12	77/2 77/2 80/21 81/9	66/15 73/3 81/8 81/8	127/9 127/11 128/19
L	L	L	٠		L

(66) non-heated - other

0	76/25 82/16 86/15	41/11 135/17 180/13	127/8 127/18 127/22	Paragraph 9d [1]	129/9 139/15 140/18
	91/25 95/15 95/25	page 12 [1] 48/4	128/6 128/7 129/1	101/6	149/23 163/17 163/23
other [19] 131/8	103/3 104/1 110/2	page 14 [2] 54/11	131/4 131/16 132/5	paragraphs [2] 63/2	170/3 170/12 171/14
133/12 140/3 141/6	111/18 112/13 113/3	165/4	132/9 135/9 139/15	148/16	181/18 182/6 188/13
144/20 148/23 149/1	115/3 116/1 116/8	page 15 [1] 35/17	140/5 140/23 144/3	paramount [1] 170/18	
149/8 160/1 165/5	116/12 119/4 124/20	page 18 [2] 72/25	146/6 149/18 149/21	paraphrasing [2]	54/22 114/6 141/1
168/21 169/1 170/2	125/2 125/25 126/23	156/16	150/15 152/4 153/16	180/2 180/3	patients [285]
171/13 172/11 173/9	127/21 131/23 136/10	page 19 [1] 151/19	157/23 159/1 163/6	parents [1] 136/3	patients had [1]
177/12 181/21 182/12	137/1 138/6 138/15	page 2 [1] 87/21	165/14 165/24 166/13	part [13] 4/21 11/8	164/9
others [8] 13/4 38/18	141/12 142/10 144/15	page 20 [2] 124/1	167/19 169/15 175/19	22/9 49/12 78/24 83/6	patients with [1] 76/6
82/18 134/14 135/14	147/18 154/14 158/10	183/8	175/22 175/25 176/12	108/14 112/22 125/24	patients' [2] 57/1
146/13 168/1 182/22	161/14 161/22 165/13	page 3 [3] 26/4 75/16	176/14 176/25 178/15	134/13 157/13 166/8	94/25
otherwise [2] 7/18		151/7	179/4 180/13 182/16	173/23	
82/7	166/12 167/18 169/6 169/21 172/6 173/4		183/9 184/8 184/16		patients: [1] 81/20 patients: 202,300 [1]
Otridge [1] 34/16	175/7 176/11 179/12	page 39 [1] 113/13	185/15 186/5 188/25	partially [1] 177/21	81/20
our [23] 8/13 8/14		page 4 [3] 51/25		participated [1] 23/14	
34/1 59/5 59/16 60/24	180/9 184/15	143/13 146/2	paragraph 1 [1]	particular [30] 8/4	pattern [4] 50/18
61/10 61/15 61/16	overall [6] 10/16	page 5 [5] 21/14 26/3	157/23	27/4 31/6 40/4 40/14	76/24 76/25 82/16
63/19 102/8 107/25	68/13 97/22 107/7	51/24 158/5 163/14	paragraph 10 [1] 97/5		pause [1] 125/1
108/5 110/15 111/1	125/8 129/12	page 59 [1] 130/9	paragraph 10.1 [1]	53/16 57/7 57/23 60/5	pausing [7] 29/6 47/8
114/11 115/7 115/15	overarching [1]	page 6 [6] 5/4 17/17	35/8	92/9 92/15 95/15	50/3 52/25 54/24
115/18 116/7 121/23	108/20	31/19 34/8 43/5 71/5	paragraph 10.2 [1]	114/1 130/12 130/23	103/19 147/8
133/20 133/25	overlapped [1] 9/7	page 65 [1] 132/8	41/12	134/13 139/14 141/19	pay [1] 98/12
out [65] 9/21 14/7	overnight [2] 72/19	page 7 [5] 65/22 93/4	paragraph 10.8 [1]	143/24 145/18 147/11	payment [3] 8/12 8/17
14/12 16/1 17/13	82/6	134/21 151/13 160/23	49/20	149/19 152/8 170/9	124/15
17/20 18/11 20/13	overview [4] 2/25	page 8 [1] 10/9	paragraph 10.9 [1]	171/7 189/11	PE [1] 59/21
21/6 31/6 32/13 32/13	15/20 25/19 47/20	page 9 [2] 7/9 147/2	50/9	particularly [9] 18/4	penultimate [1] 79/19
33/2 37/8 39/6 48/13	overwhelmed [1]	pages [13] 62/25	paragraph 104.1 [1]	35/24 37/21 50/11	people [9] 14/4 19/18
50/6 55/3 56/17 60/16	12/25	67/19 68/1 69/15 71/1	132/9	81/3 87/10 123/16	28/3 75/4 91/4 104/13
60/17 61/19 64/19	ovulation [2] 37/17	72/5 77/1 82/17 97/10	paragraph 13 [1]	147/23 159/16	115/8 140/4 180/23
73/1 79/18 81/17	37/19	141/15 151/18 151/21	179/4	partly [1] 99/20	per [12] 24/11 36/16
81/18 85/5 85/17	own [8] 57/1 57/14	182/15	paragraph 16 [1]	parts [1] 78/7	52/18 52/18 115/6
88/13 90/16 91/5	63/21 84/24 93/16	pagination's [1]	165/24	party [25] 139/6	129/13 131/23 160/5
93/22 94/21 95/18	128/24 133/11 167/15	135/18	paragraph 2 [2] 94/14		164/16 167/7 177/9
97/11 107/18 109/2	Oxford [29] 5/19	paid [1] 150/3	178/15	152/22 152/24 153/2	177/11
110/11 119/2 119/6	12/10 53/1 63/13	pain [3] 26/19 32/4	paragraph 22 [1]	153/7 156/4 156/17	perceive [1] 104/12
119/11 120/16 121/23	63/20 64/4 65/5 68/17	170/18	21/14	156/23 157/1 157/8	perceived [1] 123/1
123/1 124/4 125/20	73/1 76/21 126/19	painful [1] 170/15	paragraph 22.1 [1]	157/12 158/7 158/8	perceives [1] 60/17
125/25 133/20 133/25	127/12 130/17 131/14	paper [10] 28/24	183/9	158/10 160/24 161/23	percentage [1] 52/19
138/11 141/2 143/4	132/14 138/5 138/16	94/11 146/5 147/14	paragraph 24.1 [1]	163/2 163/5 163/7	perception [2] 37/8
143/7 146/15 147/16	142/17 142/23 144/5	148/4 148/5 149/14	184/8	175/16 176/1 181/13	48/21
148/15 164/9 164/14	147/17 158/13 158/17	150/25 155/11 169/12	paragraph 26.1 [1]	Party's [2] 161/2	performance [2] 9/12
165/19 167/2 167/6	158/21 159/16 159/17	paragraph [109] 7/11	184/16	176/9	122/24
167/11 176/14 179/22	163/12 163/23 164/7	8/6 8/9 8/19 8/23 11/8	paragraph 26.6 [1]	pass [1] 17/1	performed [1] 178/21
out: [1] 95/21	OXUH0003735 [1]	11/14 12/20 12/22	186/5	passages [1] 178/14	perhaps [9] 8/20 9/25
out: Channel [1]	145/22	14/4 14/11 21/14 26/6	Paragraph 3 [1] 94/21		53/17 62/22 105/20
95/21	P	26/8 26/20 28/12	paragraph 3.3 [1]	passing [1] 25/20	135/16 149/14 155/18
outbreak [6] 143/20		28/23 34/3 34/10	62/24	past [4] 12/24 13/6	174/24
	pack [1] 33/17	34/11 35/8 36/10	paragraph 3.3.3 [2]	118/16 162/20	period [20] 4/6 20/18
150/3 150/10 166/25	package [1] 49/1	41/12 44/12 45/11	63/16 63/18	pathologist [1] 24/4	23/11 24/21 24/24
167/1 170/9	packaging [3] 45/22	48/11 48/23 49/20	paragraph 30 [1] 34/3		37/18 47/17 56/7
outlay [2] 104/6	48/12 62/7	50/9 52/15 60/14	paragraph 5 [1] 44/12		56/22 100/13 102/20
124/19	packs [2] 38/11 62/15	60/20 61/5 62/24	paragraph 5.2 [1]	8/4 8/6 15/4 15/11	102/25 112/13 172/20
outlined [1] 136/20	paediatric [9] 4/9	63/16 63/18 63/25	180/13	16/13 16/16 33/16	174/8 174/9 179/12
outlining [1] 158/9	10/20 21/11 22/18	86/17 89/16 89/17	paragraph 5.3 [1]	36/8 40/4 40/19 40/22	180/14 182/9 185/23
outpatient [1] 10/22	24/7 28/11 35/14 36/3	89/19 89/23 90/20	34/10	40/22 41/4 42/13	periodically [1] 127/2
outside [1] 127/2	36/12	90/20 91/15 91/16	paragraph 6 [1] 45/11	50/17 52/18 55/6 69/2	periods [4] 35/24
over [68] 6/24 7/14	paediatrician [1] 4/11	93/23 94/14 94/21	paragraph 6.2 [1]	69/5 69/7 69/9 69/13	91/25 144/10 180/9
15/5 23/6 27/2 29/19	page [221]	95/7 97/5 101/6	182/16	71/19 71/22 71/23	peripatetic [2] 18/10
30/2 34/19 34/24	page 1 [1] 68/14	103/15 104/23 110/25	paragraph 8 [3] 89/17		19/2
35/24 44/5 48/6 49/9	nage 10 [3] 120/13	120/15 122/9 122/15	89/19 89/23	76/21 77/20 77/23	peripheral [1] 68/5
54/12 67/6 69/12 70/3	136/14 151/19	123/7 123/9 123/12	paragraph 96.3 [1]	78/1 80/21 86/10 91/8	
1 / 1/1 / 1//1 / R/W / K/10					
71/1 71/21 73/9 76/19	page 11 [4] 35/7	124/6 124/7 124/12	131/4	114/8 120/24 125/5	12/18 91/19 118/25
	page 11 [4] 35/7	124/6 124/7 124/12	131/4	114/8 120/24 125/5	12/18 91/19 118/25

(67) other ... - permanent

Р	picking [14] 5/17	pm [4] 105/22 155/22	55/6 55/9 56/3 60/21	9/13 10/23 11/5 13/23	97/1 97/15 98/6 107/9
	32/17 39/17 124/13	155/24 189/22	68/12 72/7 92/2 94/12	33/4 43/7 43/15 58/17	probability [1] 146/24
perplexing [1] 185/6	127/21 139/6 145/10	point [11] 6/10 19/7	111/22 115/10 128/18	61/10 94/21 108/2	probable [1] 52/11
Perry [2] 110/10	149/21 155/25 157/11	37/17 49/10 66/1 87/8	131/13 147/21 157/5	117/16 136/12 137/15	probably [12] 20/14
113/15	165/21 175/23 179/4	125/24 143/4 143/12	159/7 163/21 167/20	145/17 146/1 156/1	33/3 37/18 100/13
persistence [3] 62/17	182/16	144/19 183/3	168/6 177/14 183/10	160/22 161/19 187/9	105/10 124/1 129/9
168/7 185/7		1			
persistent [3] 163/18	picks [4] 12/22 16/18	pointed [1] 107/18	possibly [5] 19/16	presentation [1]	135/17 136/14 139/21
164/10 184/4	97/23 113/16	points [1] 133/5	122/3 136/22 185/19	146/4	140/17 179/16
persistently [1]	picture [15] 13/6	policies [5] 1/12 3/3	185/22	presentations [1] 1/6	problem [10] 8/21
174/17	13/11 15/5 15/5 47/24	54/1 54/10 128/17	post [9] 34/19 148/18	presented [6] 48/16	37/11 42/10 93/9
person [3] 99/14	60/7 79/13 87/13	policy [24] 28/14	149/2 150/20 163/20	136/19 156/4 158/9	127/10 129/6 146/8
106/25 138/4	93/17 99/15 110/6	44/20 45/13 49/3	163/24 164/4 173/7	161/1 184/12	165/16 170/11 175/14
personal [2] 56/1	113/16 155/25 174/9	49/13 49/19 52/3 52/6	183/22	presenting [5] 143/14	problems [11] 11/2
128/24	184/6	53/14 54/14 54/22	post-transfusion [1]	151/15 151/24 151/24	13/5 37/6 91/5 126/9
	pieces [2] 33/25	55/1 58/18 58/21	173/7	156/18	127/11 129/4 131/1
personality [1] 59/25	139/9	60/25 69/20 72/8	postulated [1] 173/9	president [1] 23/13	144/11 160/9 161/11
personnel [1] 48/18	pigs [1] 117/6	74/18 104/8 104/17	potency [1] 30/17	pressure [1] 33/9	procedure [1] 189/16
persons [1] 14/6	Pilgrimage [1] 95/22	106/25 171/3 177/13	potential [4] 114/20	Preston [1] 160/3	proceedings [1]
perspective [5] 2/17	pill [2] 37/16 38/13	177/23	140/3 174/3 184/13	Preston's [3] 159/13	90/17
28/19 99/20 126/1	pilot [1] 147/3	polyelectrolyte [1]	powerful [1] 1/16	168/12 168/15	process [9] 16/16
134/19	place [18] 9/9 12/16	120/20	practicable [1] 1/10		22/6 30/1 97/16
persuade [1] 60/15	56/3 59/20 61/21	pool [8] 34/14 43/20	practical [3] 54/18	40/23 70/15 83/8	102/21 107/24 120/21
pertain [1] 133/19				83/10 143/2 160/13	
pertinent [1] 129/6	62/14 81/8 84/1 88/17	43/21 146/18 146/19	130/16 170/24		187/21 189/14
Peter [2] 2/20 107/18	89/3 99/21 118/23	149/20 158/12 158/13	practice [4] 24/12	presumptive [1]	process' [1] 120/22
PFC [7] 96/14 107/20	123/14 131/17 132/2	pool sizes [1] 43/20	126/7 127/20 178/18	174/18	processed [1] 149/25
108/21 108/25 111/19	159/25 161/18 188/16	Poole [2] 29/24	practices [1] 1/12	prevalence [4] 164/6	procure [1] 131/12
132/18 132/19	placed [3] 31/4 52/23	143/22	pre [3] 47/2 100/5	166/15 173/2 184/9	procured [1] 42/5
PFC's [1] 113/7	62/19	pooling [1] 172/14	100/9	prevent [3] 50/17	procurement [1]
PFCE [2] 98/10 99/2	places [3] 19/3 19/4	pools [8] 55/24	pre-1984 [1] 100/9	138/24 148/18	92/18
PFL [1] 92/14	87/9	146/21 146/23 149/25	pre-heat [1] 47/2	previous [8] 40/5	prodromal [1] 185/19
	plain [1] 35/3	150/2 158/15 158/18	precaution [1] 189/4	70/21 71/16 74/8	produce [5] 32/14
Pharmaceutical [2]	plainly [1] 85/24	177/19	precautions [2]	77/18 80/3 81/19	63/9 93/16 119/17
46/22 85/10	plan [4] 50/22 51/10	poor [1] 159/2	138/23 141/22	81/21	157/13
Pharmaceuticals [1] 51/4	112/2 145/3	population [7] 7/13	preceding [1] 45/13	previously [6] 48/25	1 1 1 1 1 1 0/5
1 :11/4	112/2 110/0	population [1] 1110	preceding[1] +0/10	pieviously [0] 40/20	produced [13] 2/5
		32/12 87/5 118/5		107/23 134/4 154/12	23/24 29/22 30/12
pharmacy [1] 62/15	planned [1] 55/8		precise [4] 112/3 127/1 130/18 131/25		23/24 29/22 30/12
pharmacy [1] 62/15 phase [2] 111/12	planned [1] 55/8 planning [1] 35/21	32/12 87/5 118/5 138/23 160/6 184/14	precise [4] 112/3 127/1 130/18 131/25	107/23 134/4 154/12 165/23 170/25	23/24 29/22 30/12 31/14 34/23 57/12
pharmacy [1] 62/15 phase [2] 111/12 185/20	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9
pharmacy [1]         62/15           phase [2]         111/12           185/20         phone [1]         63/19	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10	107/23 134/4 154/12 165/23 170/25 <b>price [5]</b> 59/5 59/7 60/16 62/5 62/11	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plasma [48]         3/24           25/22         29/23         32/9           32/11         32/14         47/10           47/12         47/12         47/13	32/12 87/5 118/5 138/23 160/6 184/14 <b>porcine [18]</b> 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2]	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plasma [48]         3/24           25/22         29/23         32/9           32/11         32/14         47/10           47/12         47/12         47/13           47/14         63/24         93/7	32/12 87/5 118/5 138/23 160/6 184/14 <b>porcine [18]</b> 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plasma [48]         3/24           25/22         29/23         32/9           32/11         32/14         47/10           47/12         47/12         47/13           47/14         63/24         93/7           93/12         93/14         94/6	32/12 87/5 118/5 138/23 160/6 184/14 <b>porcine [18]</b> 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1]	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2]	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapy [2]	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posted [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posted [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1]	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posted [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1]	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 porat [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physical [2] 4/6 15/9 physical [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiological [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19 183/11 183/12	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5 114/7 134/2 134/7	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 16/7 18/3	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physical [2] 4/6 15/9 physical [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiological [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19 183/11 183/12 plasters [1] 48/17	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/8 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 16/7 18/3 privy [2] 6/13 12/3	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physical [2] 4/6 15/9 physical [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19 183/11 183/12 plasters [1] 48/17 platelet [1] 20/11 please [15] 3/8 5/2	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/8 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15 positivities [1] 53/5	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 16/7 18/3 privacy [2] 6/13 12/3 prize [1] 173/15	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physical [2] 4/6 15/9 physical [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8 137/21 142/20 160/18	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plasma [48]         3/24           25/22         29/23         32/9           32/11         32/14         47/10           47/12         47/12         47/13           47/14         63/24         93/7           93/12         93/14         94/6           95/12         96/6         96/14           96/16         101/12         101/17           102/15         102/18         107/10           108/21         122/25         127/12           127/13         127/20         128/21           128/21         129/3         131/18           132/3         146/23         150/3           158/15         158/18         165/11           165/11         169/20         172/5           172/14         175/11         177/19           183/11         183/12         183/12           plasters [1]         48/17           platelet [1]         20/11           please [15]         3/8           3/2         54/11         58/2	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11 58/17 93/15 120/11 130/4 166/1 177/18	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 6/13 12/3 privacy [2] 6/13 12/3 prize [1] 173/15 pro [16] 93/25 94/3 94/9 95/8 96/6 96/21	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5 85/13 87/14 89/10
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8 137/21 142/20 160/18 165/7 166/23 187/4	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plasma [48]         3/24           25/22         29/23         32/9           32/11         32/14         47/10           47/12         47/12         47/13           47/14         63/24         93/7           93/12         93/14         94/6           95/12         96/6         96/14           96/16         101/12         101/17           102/15         102/18         107/10           108/21         122/25         127/12           127/13         127/20         128/21           128/21         129/3         131/18           132/3         146/23         150/3           158/15         158/18         165/11           165/11         169/20         172/5           172/14         175/11         177/19           183/11         183/12         plasters [1]           plasters [1]         48/17           platelet [1]         20/11           plase [15]         3/8           3/2         54/11           58/2         62/24	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15 positivites [1] 53/5 positivity [2] 52/13 52/18	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11 58/17 93/15 120/11 130/4 166/1 177/18 preparing [1] 34/17	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 16/7 18/3 privacy [2] 6/13 12/3 prize [1] 173/15 pro [16] 93/25 94/3	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5 85/13 87/14 89/10 98/15 103/2 103/20
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8 137/21 142/20 160/18 165/7 166/23 187/4 picked [4] 16/6 16/25	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plass [1]         111/9           plass [1]         3/24           25/22         29/23           32/11         32/14           47/12         47/10           47/12         47/12           47/14         63/24           93/12         93/14           93/12         93/14           93/12         93/14           93/12         93/14           93/12         93/14           96/16         101/12           102/15         102/18           108/21         122/25           127/13         127/20           128/21         129/3           128/21         129/3           128/21         129/3           132/3         146/23           158/15         158/18           152/11         169/20           172/14         175/11           177/19         183/11           183/11         183/12           plasters [1]         48/17           plasters [1]         48/17           plase [15]	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/8 100/8 100/9 102/18 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15 positivities [1] 53/5 positivity [2] 52/13 52/18 possibility [3] 62/3	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11 58/17 93/15 120/11 130/4 166/1 177/18 preparing [1] 34/17 presence [2] 38/8	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 6/13 12/3 privacy [2] 6/13 12/3 prize [1] 173/15 pro [16] 93/25 94/3 94/9 95/8 96/6 96/21 97/1 97/8 97/15 98/6 100/18 100/25 101/9	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5 85/13 87/14 89/10 98/15 103/2 103/20 103/23 104/3 104/10
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8 137/21 142/20 160/18 165/7 166/23 187/4	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19 183/11 183/12 plasters [1] 48/17 platelet [1] 20/11 please [15] 3/8 5/2 8/2 54/11 58/2 62/24 65/15 68/20 69/15 93/4 104/24 156/9 166/22 180/13 188/21	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15 positivities [1] 53/5 positivity [2] 52/13 52/18 possibility [3] 62/3 139/4 177/3	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11 58/17 93/15 120/11 130/4 166/1 177/18 preparing [1] 34/17 presence [2] 38/8 178/20	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 6/13 12/3 privacy [2] 6/13 12/3 prize [1] 173/15 pro [16] 93/25 94/3 94/9 95/8 96/6 96/21 97/1 97/8 97/15 98/6 100/18 100/25 101/9 101/15 103/7 107/9	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5 85/13 87/14 89/10 98/15 103/2 103/20 103/23 104/3 104/10 104/13 104/25 105/2
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8 137/21 142/20 160/18 165/7 166/23 187/4 picked [4] 16/6 16/25	planned [1]         55/8           planning [1]         35/21           plans [1]         111/9           plass [1]         111/9           plass [1]         3/24           25/22         29/23           32/11         32/14           47/12         47/10           47/12         47/12           47/14         63/24           93/12         93/14           93/12         93/14           93/12         93/14           93/12         93/14           93/12         93/14           96/16         101/12           102/15         102/18           108/21         122/25           127/13         127/20           128/21         129/3           128/21         129/3           128/21         129/3           132/3         146/23           158/15         158/18           152/11         169/20           172/14         175/11           177/19         183/11           183/11         183/12           plasters [1]         48/17           plasters [1]         48/17           plase [15]	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/8 100/8 100/9 102/18 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15 positivities [1] 53/5 positivity [2] 52/13 52/18 possibility [3] 62/3	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11 58/17 93/15 120/11 130/4 166/1 177/18 preparing [1] 34/17 presence [2] 38/8	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 6/13 12/3 privacy [2] 6/13 12/3 prize [1] 173/15 pro [16] 93/25 94/3 94/9 95/8 96/6 96/21 97/1 97/8 97/15 98/6 100/18 100/25 101/9 101/15 103/7 107/9	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5 85/13 87/14 89/10 98/15 103/2 103/20 103/23 104/3 104/10
pharmacy [1] 62/15 phase [2] 111/12 185/20 phone [1] 63/19 physical [2] 4/6 15/9 physically [2] 142/25 156/12 physicians [2] 165/15 175/13 physiological [1] 37/13 physiologically [1] 37/18 physiotherapist [2] 4/21 11/9 physiotherapist [2] 4/21 11/9 physiotherapy [2] 11/7 16/10 pick [24] 3/17 10/9 15/4 28/22 29/19 31/20 34/9 41/12 44/12 44/13 52/3 61/2 62/22 84/16 92/21 93/17 123/22 132/8 137/21 142/20 160/18 165/7 166/23 187/4 picked [4] 16/6 16/25	planned [1] 55/8 planning [1] 35/21 plans [1] 111/9 plasma [48] 3/24 25/22 29/23 32/9 32/11 32/14 47/10 47/12 47/12 47/13 47/14 63/24 93/7 93/12 93/14 94/6 95/12 96/6 96/14 96/16 101/12 101/17 102/15 102/18 107/10 108/21 122/25 127/12 127/13 127/20 128/21 128/21 129/3 131/18 132/3 146/23 150/3 158/15 158/18 165/11 165/11 169/20 172/5 172/14 175/11 177/19 183/11 183/12 plasters [1] 48/17 platelet [1] 20/11 please [15] 3/8 5/2 8/2 54/11 58/2 62/24 65/15 68/20 69/15 93/4 104/24 156/9 166/22 180/13 188/21	32/12 87/5 118/5 138/23 160/6 184/14 porcine [18] 59/23 62/1 75/1 75/9 78/10 79/8 79/11 80/18 81/18 83/11 120/10 120/12 120/23 121/5 121/7 121/15 121/20 121/25 portal [1] 163/25 posed [3] 23/21 39/4 171/19 posited [1] 169/24 position [19] 2/21 10/13 18/18 22/17 25/21 27/11 63/4 94/15 97/22 97/25 100/6 100/6 100/8 100/9 102/18 107/5 114/7 134/2 134/7 positive [5] 18/5 45/8 89/21 140/1 145/15 positivities [1] 53/5 positivity [2] 52/13 52/18 possibility [3] 62/3 139/4 177/3	precise [4] 112/3 127/1 130/18 131/25 precisely [2] 44/2 146/10 precluded [1] 33/18 predictable [1] 30/16 predominantly [2] 25/3 122/2 prefer [1] 38/24 preference [2] 119/13 119/20 pregnancy [1] 37/15 preliminary [4] 102/2 139/19 159/22 164/6 preparation [7] 34/20 35/1 38/10 38/21 55/22 56/18 111/23 preparations [1] 144/20 prepared [13] 11/23 29/23 29/25 32/8 43/12 48/15 55/11 58/17 93/15 120/11 130/4 166/1 177/18 preparing [1] 34/17 presence [2] 38/8 178/20	107/23 134/4 154/12 165/23 170/25 price [5] 59/5 59/7 60/16 62/5 62/11 prices [1] 61/6 primarily [2] 24/13 106/25 primary [3] 11/16 46/1 71/10 Prince [4] 149/14 150/16 173/6 173/23 principle [3] 94/9 96/21 102/13 prior [10] 4/14 25/22 26/17 33/18 37/20 87/6 98/6 98/6 168/19 171/20 priority [1] 130/23 prison [1] 173/3 privacy [2] 6/13 12/3 privacy [2] 6/13 12/3 prize [1] 173/15 pro [16] 93/25 94/3 94/9 95/8 96/6 96/21 97/1 97/8 97/15 98/6 100/18 100/25 101/9 101/15 103/7 107/9	23/24 29/22 30/12 31/14 34/23 57/12 86/19 90/15 169/9 175/11 186/18 186/22 producers [2] 126/10 127/11 producing [2] 94/15 94/16 product [94] 11/21 13/23 25/23 28/17 33/20 40/24 41/1 42/11 44/24 45/18 46/3 46/23 48/6 48/9 49/13 51/2 51/6 52/8 52/9 52/24 53/2 54/1 56/2 56/12 57/18 59/16 59/23 63/7 63/10 64/7 65/5 68/23 69/21 72/13 75/2 75/10 75/14 75/18 76/23 78/19 79/5 79/8 80/2 80/10 81/25 82/22 83/5 84/2 84/5 85/13 87/14 89/10 98/15 103/2 103/20 103/23 104/3 104/10 104/13 104/25 105/2

(68) perplexing - product

Р	157/24 159/13 159/21	prophylactically [1]	150/7 150/17 159/13	74/16 75/22 77/10	realistically [1]
	Professor Bloom [5]	90/6	published [3] 127/6	88/15 104/15 109/22	137/23
product [30] 107/12	5/15 6/19 87/16	prophylaxis [4] 46/17	149/11 168/14	182/3	reality [1] 184/21
109/8 110/2 110/13	112/24 157/24	50/18 90/22 92/6	purchase [9] 27/4	quits [1] 108/18	really [8] 34/13 87/12
111/9 111/10 111/16	Professor Bridges [9]	Proplex [2] 67/4 67/12		quote [1] 176/14	106/6 109/3 125/17
111/20 112/4 112/5	2/9 4/11 24/3 24/17	proportion [4] 94/6	74/20 86/20 88/11	quotes [1] 176/11	135/3 182/19 183/2
112/12 112/14 112/16	25/25 39/11 73/17	132/21 173/7 176/6	124/9 124/19	quoting [2] 59/4 61/7	reason [7] 19/21
112/18 113/3 113/8	134/18 135/15	proposal [5] 102/11	purchased [2] 106/15		51/11 55/14 108/3
114/9 114/21 115/23	Professor Bridges' [4]		107/23	R	150/23 178/3 178/24
115/23 117/8 117/24	21/18 35/9 136/4	158/19	purchasing [2] 62/3	raise [1] 39/25	reasonable [1] 56/5
125/12 125/12 127/15	137/11	propose [2] 114/5	106/4	raised [10] 5/7 5/9	reasonably [1] 137/23
129/13 147/9 149/25	Professor Cash [1]	121/22	pure [1] 120/23	9/14 37/15 106/3	reasoning [3] 18/21
177/15 177/24	117/12	proposed [6] 59/16	purely [1] 119/17	139/10 145/16 145/19	19/14 51/17
product: [1] 79/9	Professor Ingram [1]	95/8 120/2 147/3	purity [5] 30/16 38/7	163/18 174/17	reasons [6] 38/4 48/5
product: 609,935 [1]	146/20	155/10 159/5	38/8 127/15 133/21	raising [1] 93/11	48/10 48/11 104/25
79/9	Professor Ludlam [5]	proposing [1] 133/23	purposes [8] 3/16	range [4] 23/17 32/11	105/7
production [8] 34/22	17/2 17/9 109/6	prospective [4] 148/9		32/13 49/17	recall [10] 1/16 2/18
96/10 96/25 104/5	112/12 114/22	150/24 158/21 176/12	142/7 161/19 164/22	rapidly [3] 13/8 32/9	26/12 54/5 100/16
113/8 120/22 128/3	Professor Nelson [13]		182/4	129/18	104/4 112/10 112/23
129/17	3/6 23/7 43/3 65/25	protein [5] 32/22 33/4	purse' [1] 12/3	rare [1] 181/10	131/22 134/24
products [63] 3/2	70/4 137/18 140/5	98/4 101/13 102/3	purse [1] 12/3 pursue [1] 102/11	rarity [1] 31/7	recalled [1] 111/22
12/4 14/21 15/1 25/20	140/12 141/11 142/12	protocol [1] 148/9	put [9] 1/9 6/3 67/1	rash [2] 38/18 121/12	recalling [2] 42/3
27/4 27/14 35/16 39/2	140/12 141/11 142/12		76/7 109/18 131/17	rashes [1] 33/6	180/24
42/20 46/7 49/11	Professor Nelson	proved [3] 139/20 144/18 185/18	132/2 156/3 171/12	rata [16] 93/25 94/3	
49/17 52/12 53/4			puts [2] 94/11 170/7	94/9 95/8 96/6 96/21	recalls [1] 89/14
58/25 64/1 64/1 69/18	from [1] 151/9 Professor Nelson's	proven [3] 11/12 56/14 122/18		97/1 97/8 97/15 98/6	receded [1] 32/7
78/5 84/18 92/10 94/1			putting [1] 125/19		receipt [4] 62/17
94/4 94/5 94/7 94/10	[1] 143/9	provide [12] 21/7	puzzling [1] 125/2	100/18 100/25 101/9 101/15 103/7 107/9	103/1 113/21 177/4
94/13 94/20 94/23	Professor Peter [1]	24/15 28/9 91/18	Q		receive [21] 7/4 63/23
98/2 98/3 98/7 98/12	2/20	102/15 103/2 104/24		rate [4] 109/6 118/6	69/1 72/3 82/18 82/19
100/25 101/25 102/6	Professor Preston's	111/2 116/21 133/3	quality [3] 94/6 95/11 127/14	167/7 169/10	85/9 85/16 94/5 97/16
102/22 104/7 104/18	[1] 159/13	150/25 167/15		rates [3] 52/13 129/12	
104/22 105/9 106/10		provided [7] 11/16	quantities [12] 35/5	157/10	103/6 107/11 107/19
106/12 109/9 110/8	9/10	44/16 88/15 98/7	50/11 50/23 56/21	rather [16] 1/8 8/14	110/16 115/13 119/23
120/7 122/8 122/13	Professor Temperley	129/7 135/20 189/18	65/10 79/18 81/17	8/17 9/18 19/19 29/8	136/24 177/15
122/25 123/18 123/19	[3] 8/1 8/4 9/15	provider [1] 51/5	81/18 102/15 111/2	40/6 40/7 57/4 57/16	received [29] 1/10
133/22 134/23 135/11	Profilate [11] 83/7	provides [3] 13/24	111/9 132/13	66/4 77/25 98/15	1/21 8/11 16/13 16/18
153/21 161/17 162/11	99/5 115/15 115/20	166/10 188/23	quantity [8] 32/21	101/17 119/22 181/5	39/21 46/24 47/2 47/4
165/11 169/19 171/20	115/25 116/9 116/21	provides further [1]	52/17 62/16 70/11	ratio [1] 169/22	49/17 68/16 68/19
183/12 188/7	117/18 117/25 118/17	166/10	94/6 95/11 127/14	rationale [3] 177/11	86/10 92/24 98/3
products' [1] 137/6	119/22	providing [3] 125/7	127/20	177/16 177/20	102/7 103/21 103/22
Prof [1] 42/9	profile [1] 3/9	133/9 135/23	quarter [4] 15/12	raw [1] 102/21	118/5 118/11 132/13
profession [2] 91/17		province [7] 7/14		ray [1] 61/24	143/1 143/24 144/6
104/9	programme [14] 29/4	10/17 14/23 18/7 53/6	Queen's [1] 24/10	re [1] 54/5	147/6 153/24 159/17
professionals [1]	30/3 31/3 44/18 61/16	57/2 84/20	query [1] 106/3	reached [1] 102/17	188/3 188/17
56/17	74/23 89/11 92/1	province-wide [1]	question [22] 5/7 5/9	reaction [3] 113/25	receives [4] 71/19
professor [55] 2/9	111/23 128/13 163/11	10/17	7/23 9/25 12/23 16/22	114/2 117/2	71/22 71/24 95/25
2/20 3/6 4/11 5/8 5/15	170/10 171/15 180/23	provision [3] 11/22	19/14 19/15 27/21	reactions [10] 33/2	receiving [29] 46/4
6/19 8/1 8/4 9/10 9/15	programmes [2]	18/16 19/10	39/4 39/5 93/12 101/7	33/3 33/5 33/9 37/5	68/23 69/6 69/8 69/13
10/18 10/18 12/21	126/17 170/23	PRSE0000129 [1]	106/4 106/7 112/15	38/16 38/17 40/5	69/17 69/18 69/24
17/2 17/9 21/18 23/7	progress [7] 141/17	113/12	125/9 133/1 157/16	116/11 121/11	71/18 72/2 76/13
24/3 24/17 25/25	142/18 146/3 151/17	PRSE0001002 [1]	162/3 173/14 180/4	reactive [1] 121/7	76/15 76/17 76/20
31/22 35/9 35/14	153/14 174/22 184/4	151/5	questioning [1]	read [8] 1/23 52/15	76/22 76/23 77/1
39/11 43/3 65/25 70/4	progressed [1]	PRSE0002268 [1]	112/11	76/12 84/16 88/12	80/15 81/16 82/11
73/17 87/16 109/6	185/16	136/5	questionnaire [3]	149/8 171/17 176/13	97/3 98/15 134/5
112/12 112/24 114/22	projects [2] 155/9	PRSE0002675 [1]	16/16 87/18 87/22	reading [1] 125/13	136/21 147/11 154/17
117/12 134/18 135/15	163/10	110/9	questionnaires [1]	ready [1] 55/22	158/22 176/8 188/11
136/4 137/11 137/18	prolonged [5] 9/22	PRSE0003946 [1]	16/14	realise [3] 91/9	recent [9] 2/17 15/6
140/5 140/12 141/11	128/13 178/22 179/12	92/25	questions [6] 19/20	127/25 179/24	23/20 34/6 41/13 48/3
142/12 143/1 143/9	180/9	prudent [1] 56/2	23/21 107/4 130/11	realised [1] 177/17	130/7 149/3 161/5
145/16 145/19 146/9	promotion [1] 13/4	public [2] 1/9 143/21	155/2 161/8	realises [2] 58/20	recently [4] 12/15
146/20 151/9 155/15	prophylactic [3]	publication [7] 7/8	quite [12] 18/20 20/8	91/4	103/16 108/17 150/5
1-10/20 101/0 100/10	90/23 91/12 91/24	138/14 149/5 149/14	51/21 54/15 61/9	realistic [1] 110/18	recipient [1] 110/17
					(69) product , recipient

(69) product... - recipient

ecopients [3]         94/19 90/5 98/3 103/1         region [1]         50/5         233 29/17 35/13         153/14         rest [5]         26/19 30/2           150/19 150/22         11/022 111/6 116/14         region [4]         50/2 111/6 116/14         52/9 150/25 158/25           7/14 131/20         128/2 139/1 140/22         139/24 140/1 176/15         137/15         137/16         137/16         137/16         137/16         137/16         137/16         137/16         137/16         137/16         137/16	R	78/23 81/22 83/13	regards [1] 165/20	remained [12] 4/2	representatives [1]	106/25 148/24
Preprints [3]         944         Partial State         Partial State         Partial State         Partial State           11702						
150/19         150/19         150/24<						
Technologia         Calibration         Calibration <thcalibration< th=""> <thcalibration< th=""></thcalibration<></thcalibration<>				139/24 140/1 176/15		
1/14 13/202       1/14 12/21 14/11 14/22       1/12 12/24 2/24 8/38 8/419 4/25       remaining [1] 14/15       republic [6] 2/21       requit [4] 12/31 6         0/23 12/21 13/01       14/55 14/51 11/14/13       9/59 8/52 8/52       13/018 13/918 173/17       7/17 7/17 21 9/23 47/4       requit [4] 12/91 6         0/21 12/21 13/72 14/72       15/83 15/86 10/2       rejuit [1] 20/11       11/91 11/						
Production and product set of product set o			17/21 42/24 87/3 87/4	remaining [1] 14/15		
16/10         12/14         13/16 <th< td=""><td></td><td>145/5 145/11 147/13</td><td>94/5 94/8 94/19 94/25</td><td></td><td>Republic [6] 7/2 7/5</td><td></td></th<>		145/5 145/11 147/13	94/5 94/8 94/19 94/25		Republic [6] 7/2 7/5	
181/13         181/2         182/2 <t< td=""><td></td><td>149/13 150/7 151/15</td><td>95/10 95/20 96/23</td><td></td><td>7/17 7/21 9/23 47/4</td><td>137/16 140/10 161/11</td></t<>		149/13 150/7 151/15	95/10 95/20 96/23		7/17 7/21 9/23 47/4	137/16 140/10 161/11
recollection [9] 41/3] 19/21 15/21 15/21 15/21 11/21 1						
66/8 (90) 190/16 (336)         199/12 (19/13)         reduser (1) (1) (12/013)         reduser (1) (1) (10/023)         reduser (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)						
1366         1374/2         184/23         100/16 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
103.5         recollections [2]         reculter [6]         22/24         require [6]         22/24         33/1         14/4         14/2         14/2           12/26/24         12/26/24         12/26/24         12/26/24         12/26/24         12/26/24         12/26         13/26         14/27         14/27         14/27         14/27         14/27         13/26         13/26         13/26         13/26         13/26         13/26         13/26         13/26         13/26         13/26         13/26         13/26         13/26         14/27         14/27         14/27         14/27         14/26         14/26         14/26         14/26         14/26         14/26         14/26						
reconsections [4]         172/22 175/23 175/25         2/20 3/16         4/6/4         37/6 50/13 6/14         14/74         14/74           recombinant [3]         133/23 13/42 13/46         referenced [2] 114/10         regular [5] 15/18         52/10 8/51         15/18         16/14         16/20 <t< td=""><td>185/3</td><td></td><td></td><td></td><td></td><td></td></t<>	185/3					
126/24 (2024) recombinant [3] (33/23 134/2 134/6 recombinant [3] (33/23 134/2 134/6 recombinant [3] (33/23 134/2 134/6 (13/2)         128/15 138/14 repered [2] (11/2) (11/23 118/17 176/19)         104/20 replace [1] (11/12) (11/23 118/17 176/19)         104/20 (12/22 13/2)         154/25 158/10 158/94 (12/22 152/7)           13/23 134/2 134/6 recombinant [3] (13/2)         134/2 136/14 (12/2)         154/25 158/10 158/94 (12/22 152/7)         154/25 158/71 158/94 (12/22 152/7)         158/25 158/71 158/94 (12/22 152/7)         158/25 158/71 158/94 (13/9)         156/25 158/71 (12/22 158/71 1	recollections [2]					
referenced [2]         111/20         regulate [1]         16/21         required [1]         16/21 <th16 21<="" th=""> <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td></th<></th16>						
13.32 39.47 (3.46)         181/20         52/10 85/11 152/20         172/14         172/20         124/14         172/20         124/14         172/20         124/14         172/20         124/14         172/20         124/14         172/20         124/14         172/20         124/14         126/27         124/14         124/14         126/27         124/14<						
recommendation [1]         references [4] 34/2         f3/22         f3/24         f3/24 <thf3 24<="" th="">         f5/24         <thf3 24<="" th="">         &lt;</thf3></thf3>						
107/10         349         1288         13225         regular (1]         1316         13774         13375         13774         13375         13774         13375         13774         retine (1]         13275         13774         retine (1]         13375         13774         retine (1]         13375         13774         retine (1]         12275         13774         13774         retine (1]         13371         13774         retine (1]         13774         retine (1]						
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10-4         28/25 34/1 43/17 86/3         related [6] 2/25 33/1         139/9         162/10 43/10         16/18 16/19 16/21         183/16         retured [2] 32/5 24/1           170/19 171/4         126/25 34/1 43/17 86/3         139/9 162/10 163/10         16/18 16/19 16/21         require ments [3]         32/24 48/14 94/25         23/24 48/14 94/25         25/5 13/84 13/14         retured [2] 23/5 24/17         23/17 13/21 166/1         retured [2] 23/5 24/17         23/17 13/21 166/1         retured [2] 23/5 24/17         23/17 13/21 166/1         reture [4] 23/7         25/5 13/84 13/714         163/16         reture [5] 1/19/14         7/14 71/37         163/17         163			• • • • •			
like         like <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td></th<>						
reconcile [1] 181/4       120/1 149/16 193/10       160/2       20/2 130/16 130/16       160/2       20/2 130/16 130/16         recordel [10] 60/2       recordel [10] 67/2       20/2 10/15/3       160/2       retors [15] 12/2       163/19       retors [16] 12/12       163/19         recordel [10] 67/2       retring [5] 21/2 02 0/8       133/17 133/21 165/1       171/14 17/24 180/13       165/9       163/19 <td< td=""><td></td><td></td><td>139/9 162/10 163/10</td><td></td><td>requirements [3]</td><td>retirement [4] 23/7</td></td<>			139/9 162/10 163/10		requirements [3]	retirement [4] 23/7
reconsidering [1] 60/22 record [2] 76/4 121/24 60/13 62/10 128/3 ferring [5] 27/4 70/15 60/13 62/10 128/3 ferring [5] 27/4 70/15 812/2 20/8 812/2 126/14 106/1 17/14 17/24 18/13 812/8 20/7 129/9 record [2] 76/4 121/24 812/8 20/7 129/9 record [2] 76/4 121/24 102/14 120/16 120/16 102/14 120/16 120/16 102/14 120/16 120/16 127/22 131/16 120/16 127/22 131/16 120/16 127/22 131/16 132/5 50/12 60/7 62/22 63/5 127/22 131/16 132/5 50/12 60/7 62/2 127/22 131/16 132/5 50/12 60/7 62/2 127/2 131/16 132/5 50/12 60/7 62/2 127/2 132/16 131/1 138/8 138/14 141/16 138/8 138/14 141/16 138/14 138/14 13/17 138/8 138/14 138/8 138/14 141/16						
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record [2]         764         12/12         60/13         22/2         10/14         10/14         report [62]         39/15/25         63/12         23/15         retrospectively [1]           recorde [10]         6/22         27/14         20/24         20/14         10/24         20/14         10/24         20/14         10/24         20/14         10/24         20/14         10/24         20/14         10/24         20/14         10/24         20/14         10/24         20/14         10/24						
recording [1] 6/22 43/10 58/24 74/10 73/12 58/17 140/6 12/21						
43/10 58/24 74/10       27/11 20/24 12/16       12/14 12/16 12/078       return [23] 7/1943/1         81/25 89/17 14/06       12/2/14 12/16 12/078       relation [56] 2/19 5/76       54/10 55/14 55/17       reserve[1] 82/16       66/2 66/5 68/25 70/2         90/17       12/2/1 12/16 11/18 12/6       39/7 39/8 40/3 49/25       93/20 100/16 120/10       resolve[1] 17/12       71/16 73/18 73/21         90/17       12/2/2 12/16 18 12/76       39/7 39/8 40/3 49/25       93/20 100/16 120/10       resolve[1] 17/12       71/16 73/18 73/21         90/17       12/2/2 12/16 18 12/76       59/12 60/7 62/2 63/3       12/10 12/27 123/23       resolve[1] 17/14       71/16 73/18 73/21         90/17       12/2/2 13/16 132/5       59/12 60/7 62/2 63/8       13/16 13/36 136/19       resolve[1] 17/14       71/16 73/18 73/21         12/2/2 12/16       12/2/2 13/16 132/5       13/12       71/18 73/14 71/3       13/12       resolve[1] 12/11       returns[3] 12/25       returns[3] 12/25       returns[3] 12/25       returns[3] 12/25       returns[3] 12/2						
61/2 s91/1 [4/06]       122/8 122/15 123/7       15/3 25/3 27/18 29/6       54/10 55/14 55/17       167/9       66/2 66/5 69/25 70/2         90/17       123/12 126/18 127/6       139/7 39/8 40/3 49/25       93/20 100/16 120/10       residential [1] 14/13       71/16 73/18 73/21         90/17       123/21 12/21 13/16 132/5       59/12 60/7 62/2 63/3       121/20 122/1 13/21       residential [1] 12/01       79/19 83/24 86/4 86/4         122/4 127/1 138/15       156/9 156/05       138/16       138/16       resort [1] 12/01       resort [1] 12/01       79/19 83/24 86/4 86/4         122/24       121/10 12/17       156/3 166/12       71/8 71/13 71/13 71/13       138/16 38/14 141/16       resort [1] 12/01       resort [1] 12/01       resort [1] 12/01       resort [1] 12/01       151/21 453/17       resort [1] 12/01       resort [2] 16/16 71/09       returning [1] 107/5       returing [1] 12/2/1       returning [1] 12/2/1 <td>43/10 58/24 74/10</td> <td></td> <td></td> <td></td> <td></td> <td></td>	43/10 58/24 74/10					
142/11 16 /116 /16 /16 /16 /16 /16 /16 /16	81/25 89/17 140/6					
records [6]       12//2						
90/17 records [6] 127/ 68/7 122/4 127/4 138/15 138/16         146/6 154/9 154/11 168/19 163/6 166/12         64/2 3 65/4 67/4 68/22 77/8 71/13 71/13 77/6         130/13 133/5 130/4 130/13 133/5 130/4         resolved [1] 120/1 resourcs [1] 121/2         79/19 83/24 86/4 86/4 98/16 99/15 107/12           138/16         169/2 169/12 176/5 169/2 169/12 176/5         176/9 181/11 182/24         130/13 133/5 130/4         173/8 133/5 130/4         resourcs [1] 122/5 176/9 181/11 182/24         171/8 71/13 71/13 77/6 183/22 185/1 87/14         133/8 133/4 141/16         resourcs [1] 122/25 176/9 181/11 182/24         171/8 71/13 71/13 77/6 183/12 182/25         171/13 122/55         171/13 122/55         171/12 122/51         171/12 122/51         171/12 122/51         171/13 122/51         171/12 122/51						
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138/16       160/24 160/9 160/12       76/23 61/14 61/21       130/14 61/21       130/14 61/21       150/24 161/21 12/21       110/12 142/16 17/01         122/25       122/25       110/12 176/5       30/10 87/11 87/13       142/16 17/14 81/31       142/16 17/14 81/31       142/16 17/14 17/15       respect [5] 36/8       113/12 142/16 17/16 13/14         recovery [1] 110/16       169/2 169/12 176/5       30/10 87/11 87/13       142/16 150/21 151/16 151/16       127/13 129/15 139/14       131/21         recovery [1] 110/16       183/22 185/1 187/1       98/20 107/6 110/6       151/24 153/15 166/5       185/5       respect [2] 8/14       131/21         reduce [3] 30/23       reflect [1] 12/3       145/19 148/15 150/9       165/3 163/5 163/3 163/4       132/16       respect [1] 12/2       respect [1] 12/2       respect [1] 12/2       72/17 72/24 73/13         reduce [3] 37/4       reflect [3] 70/15       177/5 177/23 178/4       165/17 165/176/9       respect [1] 12/2       respond [1] 79/11       85/19 85/23 85/25       85/19 85/23 85/25       85/19 85/23 85/25       85/19 85/23 85/25       85/19 85/23 85/25       85/19 85/23 85/25       85/19 85/23 85/25       85/19 85/23 85/25       121/21 122/14 123/3       response [1] 79/11       response [1] 79/11 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
recourse [2]       112/16       169/2 17/6/3       83/10 8/11 8/13       142/18 143/11 143/19       respect [5]       50/8       returned [2]       113/12         122/25       169/2 18/11 18/24       94/15 95/13 95/16       143/22 15/115 151/16       127/13 129/15 139/14       131/21         recovery [1]       110/16       reflect [2]       84/1 8/14       151/24 153/5 156/5       185/5       respective [2]       8/14         Red [1]       111/4       reflect [2]       84/1 122/6       132/1 126/2 134/15       159/22 161/120 161/22       101/20       respective [2]       8/14         Red [1]       111/4       reflection [1]       17/13       139/1 18/11       150/21 61/120 161/22       101/20       respective [2]       8/14       7/14 7/16       132/16       returned [2]       101/20       132/16       returned [2]       132/16       returned [2]       101/20       132/16       returned [2]       131/14       161/2       132/15       132/15       refuect [2]       131/1		166/24 168/9 168/12	78/25 81/14 81/21	138/8 138/14 141/16	resources [1] 132/25	115/12 142/16 170/19
122/25       176/9 18/171 16/22 4       94/15 95/15 95/16       14/3/22 15/15 15/16       12/11 5 12/16       12/11 5 12/16       15/12       15/12         recovery [1] 110/16       183/22 185/1 187/1       98/15 95/15 95/16       16/5       185/5       185/5       185/5       returing [1] 107/5         rectified [1] 18/12       reflecting [1] 73/17       139/7 139/10 142/15       156/5 156/18 157/14       159/22 161/20 161/22       101/20       respective [2] 8/14       64/6 64/8 66/4 68/3         reduce [3] 30/23       reflecting [1] 73/17       139/7 139/10 142/15       161/3 163/3 163/4       respective [2] 8/14       132/16       72/17 72/24 73/13         reduce [3] 30/23       reflecting [1] 70/15       177/5 177/23 178/4       166/3 165/5 174/5       132/16       respective [1] 12/2       73/14 76/6 79/21         112/11       130/6 153/07       160/16 161/14 166/11       176/15 18/1/8 18/17       respond [1] 12/2/11       82/10 82/23 85/25       respond [1] 12/2/11       82/10 82/23 85/25       185/5       respond [5] 23/17       86/7 96/3 120/9         reducing [1] 106/23       refigerators [1] 57/2       refigerators [1] 57/2       relative [1] 158/11       reports [7] 2/5 44/7       respons [1] 23/7       12/12 122/14 123/3       12/12 122/14 123/3       12/12 122/14 123/3       12/12 122/14 123/2       revewel [1] 14/17       revewel [1] 14		169/2 169/12 176/5		142/18 143/17 143/19		
recovery [1] 110/16       183/22 185/1 18/17       199/20 107/6 110/6       151/24 153/5 156/5       185/5       185/5       reflective [2] 8/14         rectified [1] 18/12       reflect [2] 8/14 122/6       123/21 122/1 123/16 123/17       156/5 156/18 157/14       respective [2] 8/14       30/24         reduce [3] 30/23       reflecting [1] 73/17       139/71 139/10 142/15       165/3 165/5 174/5       132/16       72/17 72/24 73/13         reduce [3] 30/23       reflecting [1] 71/13       151/74 155/17       165/3 165/5 174/5       132/16       72/17 72/24 73/13         reducing [1] 112/2       reflects [3] 70/15       151/74 155/17       165/3 165/5 174/5       132/16       73/14 76/6 79/21         reducing [1] 112/2       reflects [3] 70/15       150/15 177/12 177/21 77/21 77/21 77/21 78/178/1       186/1 186/14       respond [1] 12/2       82/20 82/23 84/7 85/5         ferf restors [1] 12/2       refractoriness [1]       121/10       relative [1] 158/13       report confirmed [1]       17/14       128/12       86/7 96/3 120/9         refore [3] 1/24 75/4       refractoriness [1] 57/2       refractorines [1] 57/1       relative [1] 158/13       report confirmed [1] 153/9       respontel [2] 9/16       121/14 123/3       121/14 123/3         refier [3] 1/24 75/4       refractorines [1] 57/2       refractorines [3] 5/22       refractorines [3] 5/22 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
recruitment [1] 19/17 reflectid [1] 12/3 reflectid [1] 12/3 reflectid [1] 12/3 reflectid [1] 12/3 reflectid [1] 12/3 reflectid [1] 17/13 reflectid [1] 12/2 reflectid [1] 16/2 reflectid [1] 12/2 reflectid [1] 12/						
rectified [1] 18/12       reflecting [1] 73/17       123/7 120/2 13/43/15       153/7 24/15       151/2 161						
Red [1]       111/4 reflecting [1]       reflecting [1]       13/17       reflecting [1]       13/17       reflecting [1]       17/13       reflecting [2]       130/17       135/16       165/3       165/3       165/3       165/3       165/3       132/16       72/17       72/17       72/14       73/14       76/6       72/17       72/14       73/14       76/6       72/17       72/14       73/14       76/6       72/17       72/14       73/14       76/6       72/17       72/14       73/14       76/6       72/17       72/14       73/14       76/6       72/17       72/14       76/6       72/17       72/14       76/6       72/17       73/14       76/6       72/17       73/14       76/6       72/17       73/14       76/6       72/17       73/14       76/6       76/3       120/2       responding [5]       23/17       86/7       96/3       120/2       responding [5]       23/17       86/7       96/3       120/2       121/21       121/21       123/15       121/1       123/15       121/1       123/15       121/1       121/1       <						
reduce [o] 30/23 112/19 112/20 reduced [3] 37/4       reflections [2] 130/7 133/16       151/17 155/14 155/17 133/16       151/17 155/14 155/17 160/16 161/14 166/11       176/1 176/5 176/9 176/15 181/3 183/4       respects [1] 12/2 respond [1] 122/11       73/14 76/6 79/21         116/13 161/16       100/8 112/24       189/13       186/1 186/12 186/20       respond [1] 122/11       82/20 82/23 84/7 85/5         reduction [2] 62/5 62/11       refractoriness [1] 121/10       refractoriness [1] 121/10       relationship [1] 132/15       report confirmed [1] 132/15       176/1 176/5 176/9       respond [1] 122/11       86/7 96/3 120/9         refractoriness [1] 121/10       refrigerators [1] 57/2       refative [1] 158/13       report confirmed [1] 176/15       176/15       report confirmed [1] 176/15       179/21       121/21 122/14 123/3         refrigerators [1] 57/2       refative [1] 163/20       repart confirmed [1] 161/2 163/20       report's [1] 153/9       response [12] 9/16       reveue [1] 1/11         refrigerators [1] 57/2       reflatives [3] 84/25       relatives [3] 84/25       176/7       133/6 159/3 178/11       reveue [1] 124/17         refrigerators [1] 57/2       regard [3] 5/22       18/11 152/16       relatives [3] 84/25       176/7       133/6 159/3 178/11       review [3] 115/19         response [1] 12/2       18/11 152/16       regard [3] 5/22       18/11 152/16       reports [7] 2/5	Red [1] 111/4					
112/19       112/20       133/16       160/16       161/14       160/16       161/14       160/16       176/15       181/3       183/4       respond [1]       122/11       82/20       82/20       84/7       85/5         reducing [1]       112/24       189/13       180/16       186/14       186/12       186/14						
reduced [3] 3/14 116/13 161/16       reflects [3] 70/15 10/8 112/24       177/5 177/23 178/4 189/13       186/3 186/6 186/9 186/11 186/12 186/20       responded [1] 79/11 responding [5] 23/17 41/19 120/25 126/15 179/21       85/19 85/23 85/25 86/7 96/3 120/9 121/21 122/14 123/3 123/5 143/16 153/24         62/11 redundant [1] 106/23 refrigerators [1] 57/2 refused [1] 163/20 refrigerators [1] 57/2 refused [1] 163/20 regard [5] 33/15 70/18       relationship [1] relatively [4] 38/22 refactor [1] 58/13 relatively [4] 38/22       report confirmed [1] reports [1] 153/9 reports [1] 153/17 reports [1] 153/9 reports [1] 153/17 reports [1] 153/17 reports [1] 153/17 reports [1] 153/17 reports [1] 25/2 151/1 133/6 159/3 178/11 response [1] 33/7 represent [2] 14/17 reports [1] 25/2 158/14 reparde [3] 5/22 117/17 13/21 11/19 12/17 13/21 11/17 118/1 127/24 152/1 157/1 158/12 152/1 157/1 158/12 152/1 157/1 158/12 161/9 181/8 regardles [2] 169/19 172/13 represent [2] 11/17 126/2 132/22       reports [1] 13/7 represent [2] 11/17 126/2 represent [2] 11/17 126/2 represent [2] 11/17 126/2 represent [2] 11/17 126/2 represent [2] 11/17 126/2 reports [1] 12/5 8/12       reports [1] 12/5 revolutionary [1] 29/21 rewarde [1] 62/18 RHSC0000066 [1]						
110/13/16/17/16       100/8 112/24       189/13       refucting [1] 112/9       refucting [1] 12/9       189/13       refuction [2] 62/5       refractoriness [1]       189/13       relationship [1]       132/15       refactoriness [1]       132/15       relationship [1]       132/15       report confirmed [1]       14/19 120/25 126/15       121/21 122/14 123/3         62/11       refrigerators [1] 57/2       refrigerators [1] 57/2       refused [1] 163/20       relatively [4] 38/22       report s [1] 153/9       reports [1] 153/9       reports [1] 153/9       reports [1] 140/15         75/16       97/20 106/24 159/16       relatives [3] 84/25       176/7       133/6 159/3 178/11       reveuse [1] 140/15         75/23 6/1 6/4 6/5 6/8       6/11 6/12 6/21 8/24       regarding [12] 28/15       141/18 178/12       relevant [5] 9/6 18/4       167/12 173/23       reports [7] 2/5 44/7       178/12 180/11       reviewe [2] 172/10         15/18 20/12 24/3       13/18 49/24 60/22       111/17 118/1 127/24       reliable [1] 37/10       represent [2] 114/17       represent [2] 114/17       responsibility [4]       10/210       172/13         15/18 20/12 24/3       15/14 5/21       16/19 181/8       regardless [2] 169/19       reliable [1] 36/1       representative [1]       10/17 10/19 102/10       172/13       revolutionary [1] 29/21         59/8 73/19 75/1 75/						
reducting [1]       11/29 reduction [2]       refractoriness [1] 121/10       relationship [1] 132/15       report confirmed [1] 132/15       41/19       120/25       126/15       121/21       121/21       122/14       123/3         62/11       refrigerators [1]       57/2       refrigerators [1]       57/2       relative [1]       158/13       reports [1]       176/15       response [12]       9/16       121/21       122/14       123/3         76/14       124/75/4       refactoriness [1]       163/20       relative [1]       158/13       reports [1]       150/5       161/3       163/17       105/4       105/4       106/3       122/23       123/5       143/16       153/24         75/5       5/9       5/11       5/14       5/2       141/18       178/12       reports [7]       2/5       4/1       10/5/3       106/3       122/23       review [3]       11/9/1       review [3]       11/9/1       review [3]       11/9/1       review [3]       11/9/1       review [4]       10/17       10/17       10/17       10/17       10/17       10/17       10/17       10/17       10/17       10/17       10/17       121/21       121/21       121/21       121/21       121/21       121/21       121/21       121/21						
121/10       121/10       132/15       176/15       179/21       123/5 143/16 153/24         62/11       refrigerators [1] 57/2       refrigerators [1] 57/2       relative [1] 158/13       report's [1] 153/9       179/21       response [12] 9/16         refrigerators [1] 163/20       regard [5] 33/15 70/18       relatively [4] 38/22       report's [1] 153/9       reported [5] 121/3       105/4 106/3 122/23       reveue [1] 124/17         135/16       97/20 106/24 159/16       regard [5] 5/2       70/14 122/4 166/2       176/7       105/4 106/3 122/23       reveue [1] 124/17         7/2 0 106/24 159/16       regard [5] 5/2       70/14 122/4 166/2       176/7       133/6 159/3 178/11       reveue [1] 124/17         7/2 0 106/24 159/16       regard [5] 9/6 18/4       149/10 133/25 158/14       167/12 173/23       reports [7] 2/5 44/7       178/12 180/11       reviewe [2] 172/10         11/19 12/17 13/21       11/1 14/22 15/15       31/18 49/24 60/22       reliable [1] 37/10       represent [2] 114/17       represent [2] 114/17       responsibilities [1]       172/13       reviewig [1] 104/11         11/1 14/22 15/15       152/1 157/4 158/21       reliable [1] 37/10       represent [2] 114/17       represent [2] 10/17       represent [2] 10/17       106/4       reviewig [1] 104/11         12/2 0 48/20 55/23       59/8 73/19 75/1 75/11			relationship [1]			
redundant [1] 106/23 refer [3] 1/24 75/4 135/16       refingerators [1] 57/2 refused [1] 163/20 regard [5] 33/15 70/18       relative [1] 158/13 relative [4] 38/22       reports [1] 153/3       response [12] 9/16 23/20 62/8 104/5       reveal [1] 17/1 revenue [1] 124/17 reverue [1] 124/17         135/16       reference [80] 5/1 5/3 5/5 5/9 5/11 5/14 5/15       97/20 106/24 159/16 regarde [3] 5/22       70/14 122/4 166/2 relatives [3] 84/25       150/5 161/3 163/17       105/4 106/3 122/23       105/4 106/3 122/23         5/5 5/9 5/11 5/14 5/15       regarde [3] 5/22       141/18 178/12       reports [7] 2/5 44/7       178/12 180/11       review [3] 115/19         5/23 6/1 6/4 6/5 6/8       regarding [12] 28/15       149/10 133/25 158/14       167/12 173/23       responses [1] 33/7       reviewed [2] 172/10         11/19 12/17 13/21       11/17/1 118/1 127/24       reliable [1] 37/10       represent [2] 114/17       responsibilities [1]       172/13         15/18 20/12 24/3       152/1 157/4 158/21       reliable [1] 36/1       represent [2] 114/17       represent [2] 114/17       represent [2] 10/17 10/19 102/10       172/13         161/9 181/8       regardless [2] 169/19       remainder [2] 36/22       representative's [1]       100/17 10/19 102/10       revolutionary [1]         132/22       132/22       132/22       58/12       1/24 24/7 34/17 99/9       RHSC0000066 [1]		121/10		176/15	179/21	
refer [3]       1/24 75/4       refused [1]       163/20       relatively [4]       53/22       reported [5]       12/15       23/20       62/8       104/5       revenue [1]       124/17         135/16       regard [5]       33/15       70/14       122/14       150/5       161/3       163/17       105/4       105/4       106/3       122/23       reverse [1]       140/15         5/5       5/9       5/1       5/1       5/1       5/22       141/18       178/12       reports [7]       2/5       44/7       reverse [1]       140/15         5/5       5/9       5/1       5/1       5/2       16/4       6/6       8       15/2       141/18       178/12       reports [7]       2/5       44/7       review [3]       115/19       119/1       119/1       review [2]       172/10       172/10       172/13       19/1       19/1       172/13       reviewd [2]       172/10       172/13       172/13       172/13       126/22       reviewing [1]       104/11       Revised [1]       143/5       reviewing [1]       104/11       Revised [1]       143/5       reviewing [1]       104/11       reviewing [1]       104/11       Revised [1]       143/5       reviewing [1]       104/11       172						
135/16       regard [5] 33/15 70/18       70/14 122/4 166/2       150/5 161/3 163/17       105/4 106/3 122/23       reverse [1] 140/15         135/16       97/20 106/24 159/16       relatives [3] 84/25       176/7       133/6 159/3 178/11       119/1 178/19         5/5 5/9 5/11 5/14 5/15       5/23 6/1 6/4 6/5 6/8       regarding [12] 28/15       141/18 178/12       relevant [5] 9/6 18/4       149/8 152/23 158/6       176/7       133/6 159/3 178/11       119/1 178/19         1/19 12/17 13/21       11/18 49/24 60/22       131/18 49/24 60/22       reliable [1] 37/10       represent [2] 114/17       responsibilities [1]       172/13         1/1/19 12/17 13/21       11/17/17 118/1 127/24       relief [1] 26/19       reluctant [1] 19/11       represent [2] 114/17       responsibility [4]       reviewing [1] 104/11         1/5/18 20/12 24/3       161/9 181/8       regardless [2] 169/19       reluctant [1] 19/11       representative [1]       10/17 10/19 102/10       106/4       29/21         59/8 73/19 75/1 75/11       regardless [2] 169/19       132/22       58/12       58/12       10/4       21/24 24/7 34/17 99/9       RHSC0000066 [1]						
reference [80] 5/1 5/3       97/20 106/24 159/16       relatives [3] 84/25       176/7       133/6 159/3 1/8/11       review [3] 115/19         5/5 5/9 5/11 5/14 5/15       5/23 6/1 6/4 6/5 6/8       regarding [12] 28/15       141/18 178/12       relevant [5] 9/6 18/4       149/8 152/23 158/6       176/17       178/12 180/11       199/3 1/8/11       199/3 1/8/11       199/1 178/19         5/5 5/9 5/11 5/14 5/15       15/12 15/12       18/1 152/16       regarding [12] 28/15       31/18 49/24 60/22       141/18 178/12       reports [7] 2/5 44/7       responsibilities [1]       172/10         11/19 12/17 13/21       31/18 49/24 60/22       11/1/17 118/1 127/24       reliable [1] 37/10       represent [2] 114/17       responsibilities [1]       172/13         15/18 20/12 24/3       152/1 157/4 158/21       reliable [1] 36/1       represent [2] 114/17       responsibility [4]       reviewing [1] 104/11         remainder [2] 36/2       regardless [2] 169/19       remainder [2] 36/22       representative's [1]       10/17 10/19 102/10       106/4       29/21         59/8 73/19 75/1 75/11       regardless [2] 169/19       132/22       58/12       58/12       21/24 24/7 34/17 99/9       RHSC0000066 [1]						
5/5 5/9 5/11 5/14 5/15       regarded [3] 5/22       141/18 1/8/12       reports [7] 2/3 44/7       178/12 180/11       119/11/8/19         5/5 5/9 5/11 5/14 5/15       18/1 152/16       relevant [5] 9/6 18/4       149/8 152/23 158/6       responses [1] 33/7       reviewed [2] 172/10         11/19 12/17 13/21       11/18 49/24 60/22       11/18 1/18/12/24       reliable [1] 37/10       represent [2] 114/17       responsibilities [1]       72/13         14/1 14/22 15/15       11/18 49/24 60/22       117/17 118/1 127/24       relief [1] 26/19       126/22       represent [2] 114/17       responsibilities [1]       10/17 10/19 102/10       172/13         15/18 20/12 24/3       152/1 157/4 158/21       161/9 181/8       regardless [2] 169/19       remainder [2] 36/22       representative [1]       10/17 10/19 102/10       106/4       29/21         59/8 73/19 75/1 75/11       regardless [2] 169/19       132/22       58/12       58/12       21/24 24/7 34/17 99/9       RHSC0000066 [1]						
5/23 6/1 6/4 6/5 6/8       18/1 152/16       relevant [5] 9/6 16/4       149/8 152/23 158/6       responses [1] 33/7       reviewed [2] 17/2/10         6/11 6/12 6/21 8/24       11/19 12/17 13/21       31/18 49/24 60/22       13/148 49/24 60/22       167/12 173/23       represent [2] 114/17       responsibilities [1]       172/13         14/1 14/22 15/15       15/18 20/12 24/3       152/1 157/4 158/21       relief [1] 26/19       126/22       represent [2] 114/17       responsibilities [1]       10/17 10/19 102/10       reviewing [1] 143/5         55/20 48/20 55/23       regardless [2] 169/19       remainder [2] 36/22       representative [1]       10/17 10/19 102/10       106/4       29/21         176/18       176/18       132/22       58/12       58/12       Fereviewide [2] 12/5       RHSC0000066 [1]						
6/11 6/12 6/21 8/24       31/18 49/24 60/22         11/19 12/17 13/21       31/18 49/24 60/22         14/1 14/22 15/15       17/17 118/1 127/24         15/18 20/12 24/3       152/1 157/4 158/21         25/20 48/20 55/23       161/9 181/8         59/8 73/19 75/1 75/11       regardless [2] 169/19         176/18       132/22             remainder [2] 36/22       132/22       representative [1]         132/22       132/22						
11/19       12/17       13/21       117/17       118/1       127/24       relief [1]       26/19       responsibility [4]       Revised [1]       143/5         14/1       14/22       15/15       15/14       152/11       157/4       158/21       relief [1]       26/19       representative [1]       10/17       10/19       102/10       106/4       revolutionary [1]       29/21         25/20       48/20       55/23       regardless [2]       169/19       remainder [2]       36/22       130/24       representative's [1]       106/4       rewarded [1]       62/18         59/8       73/19       75/1       75/11       176/18       132/22       58/12       58/12       21/24       24/7       34/17       99/9       RHSC0000066 [1]	6/11 6/12 6/21 8/24					
14/1 14/22 15/15       152/1 157/4 158/21       reluctant [1] 119/11       representative [1]       10/17 10/19 102/10       revolutionary [1]         15/18 20/12 24/3       152/2 14/3       161/9 181/8       remain [1] 36/1       remainder [2] 36/22       130/24       10/17 10/19 102/10       revolutionary [1]         25/20 48/20 55/23       regardless [2] 169/19       169/19       remainder [2] 36/22       132/22       132/22       132/22       representative's [1]       10/17 10/19 102/10       rewarded [1] 62/18         10/17 10/19 102/10						
13/16 20/12 24/3       161/9 181/8       remain [1] 36/1       130/24       106/4       29/21         25/20 48/20 55/23       regardless [2] 169/19       remainder [2] 36/22       130/24       representative's [1]       106/4       29/21         59/8 73/19 75/1 75/11       176/18       132/22       58/12       106/4       29/21         RHSC0000066 [1]						
regardless [2]         169/19         remainder [2]         36/22         representative's [1]         responsible [7]         12/5         rewarded [1]         62/18           59/8         73/19         75/1         75/1         176/18         132/22         58/12         21/24         24/7         34/17         99/9         RHSC0000066 [1]						
39/8 73/19 73/11     176/18     132/22     58/12     21/24 24/7 34/17 99/9     RHSC0000066 [1]						
	59/8/3/19/5/1/5/11					

(70) recipients - RHSC0000066

R	21/1 21/3 21/17 21/23	47/18 51/17 53/12	scene [1] 104/12	75/8 86/11 112/21	66/5 67/20
RHSC000066 [1]	22/4 23/1 23/3 24/4	55/16 59/12 59/13	SCGV0000104 [1]	114/12 169/8	separately [1] 134/16
97/22	24/5 24/20 24/25	67/25 82/3 90/10	101/18	seemed [3] 50/15	September [14] 6/17
RHSC000067 [3] 3/8	27/11 30/1 57/11 58/9	132/20 133/6 173/18	schedule [2] 106/13	130/21 131/1	8/3 93/1 114/25
28/20 51/22	98/21 98/25 136/9	186/14	106/19	seems [6] 25/14	117/11 117/20 118/22
right [31] 16/23 17/10	139/12 159/11 159/20	saying [8] 19/2 55/18	scheme [3] 98/7	61/15 89/12 91/8	139/17 145/24 151/3
20/19 40/2 41/6 48/2	Royal Free [1] 159/11	109/10 144/17 179/23	101/9 101/15	135/5 153/4	153/9 157/21 159/25
48/17 51/16 52/25	RTC [1] 111/10	180/23 183/1 188/25	Schimpf [1] 125/4	seen [24] 2/14 14/2	160/21
66/1 68/14 68/18 73/2	RTCs [2] 110/20	says [146] 8/9 8/19	school [1] 31/8	15/17 18/3 20/3 20/6	September 1975 [1]
77/16 80/12 83/21	111/20	8/25 9/16 12/23 15/1	scientific [4] 45/12	23/22 24/6 25/20	151/3
88/24 89/7 90/13	rules [2] 21/20 22/5	16/12 17/18 20/1 20/6	50/5 61/13 62/14	26/25 40/9 41/23	September 1981 [2]
91/13 91/16 107/3	run [2] 12/4 116/7	21/15 21/20 21/21	scientist [1] 12/19	54/16 86/12 89/10	6/17 160/21
112/10 122/1 123/25	running [1] 37/21	24/15 26/8 26/20 27/6	Scotland [32] 5/6 5/10		September 1984 [1]
135/4 142/24 152/18	runs [1] 11/16	27/13 27/17 28/23	5/12 5/16 15/24 80/6	110/4 115/8 120/9	8/3
168/13 171/20 180/7	S	29/1 29/20 30/10	88/16 88/20 89/2	122/13 123/3 147/8	September 1988 [1]
right-hand [5] 68/18		30/25 31/10 31/21	92/20 92/24 97/19	sees [1] 143/14	117/11
73/2 90/13 91/13	sad [2] 18/9 19/1	32/23 35/9 35/18	101/17 101/19 105/5	selected [2] 45/20	September 5 [1]
91/16	safe [4] 38/23 180/17	35/20 36/10 37/1	105/20 106/1 107/6	55/21	117/20
rightly [1] 35/15	182/7 182/11	38/15 39/18 41/14	107/15 109/5 110/7	selection [4] 27/3	sequelae [2] 137/4
rigidly [1] 55/1	safeguarded [1]	41/25 42/15 45/24	112/14 113/2 117/23	35/11 35/16 176/17	155/6
rigors [1] 38/19	116/5	48/6 48/23 49/19 50/9	118/3 118/15 118/21	self [24] 38/13 104/9	sequence [1] 160/19
rise [2] 122/21 175/20	safer [2] 115/23	51/1 52/3 54/10 54/15	119/9 120/3 120/5	123/21 124/4 124/8	series [1] 86/22
rises [1] 38/19		57/5 61/5 62/12 63/5	127/13 128/12	124/12 124/18 124/23	serious [3] 59/14
risk [31] 39/3 49/25	safest [1] 45/18 safety [5] 23/15 33/24	63/14 63/18 63/25 64/4 65/13 68/4 68/10	Scots [1] 112/17	125/6 125/12 126/2	174/3 179/22
112/9 112/20 134/12	45/23 48/22 177/24	85/20 86/17 86/25	Scottish [14] 6/4 83/4 98/20 99/15 101/23	126/5 126/16 127/24 128/1 128/13 129/5	seriously [2] 140/8 152/16
135/2 135/11 135/13	said [40] 5/8 5/16				
135/24 140/8 145/20	11/21 18/25 33/21	88/17 89/4 89/20 89/22 90/21 90/21	103/18 105/15 105/15 111/4 112/3 115/5	130/12 130/20 130/22 132/1 132/10 133/18	seroconversion [2] 81/5 81/7
149/19 149/24 150/12	43/12 50/4 53/7 55/9	91/16 91/21 93/5	116/18 119/20 120/4	170/22	seroconverted [1]
150/20 155/18 165/20	58/20 63/15 78/7 93/9	94/22 99/13 102/16	screen [2] 141/11	self-sufficiency [16]	81/7
168/18 169/4 169/22	97/11 97/15 98/22	103/14 103/25 104/23	156/3	104/9 123/21 124/4	serum [3] 140/1
171/1 172/14 174/21	99/22 100/2 100/3	105/12 106/9 107/17	screened [1] 139/3	124/12 124/23 125/6	172/12 172/19
176/16 178/5 178/8	104/15 119/19 128/23	110/25 113/17 115/1	screening [3] 30/3	126/2 126/5 127/24	served [1] 6/24
184/12 184/21 189/6		110,20 110,11 110,1	eeneening [e] ooke		
10010 100110	130/13 136/25 144/4	115/17 116/10 117/13	155/4 170/12	128/1 128/13 129/5	serves [1] 7/12
189/9 189/13	130/13 136/25 144/4 144/24 145/13 146/20	115/17 116/10 117/13	155/4 170/12 second [40] 3/16 7/10	128/1 128/13 129/5 130/12 130/20 130/22	serves [1] 7/12 service [36] 12/1 22/7
risks [21] 134/22		115/17 116/10 117/13 122/10 122/16 123/2 123/21 124/7 124/12	second [40] 3/16 7/10	130/12 130/20 130/22	serves [1] 7/12 service [36] 12/1 22/7 24/24 27/10 30/2
risks [21] 134/22 134/25 135/20 136/3	144/24 145/13 146/20	122/10 122/16 123/2		130/12 130/20 130/22 133/18	service [36] 12/1 22/7
<b>risks [21]</b> 134/22 134/25 135/20 136/3 139/7 145/16 152/13	144/24 145/13 146/20 147/5 154/24 156/23	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8	second [40] 3/16 7/10 8/6 8/8 13/16 14/4	130/12 130/20 130/22 133/18 self-sufficient [3]	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9	122/10 122/16 123/2 123/21 124/7 124/12	<b>second [40]</b> 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10	130/12 130/20 130/22 133/18	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1]	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1]	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1]	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10 saving [1] 53/7	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221]	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10 saving [1] 53/7 savings [2] 124/10	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15 route [3] 30/17 146/15 170/20	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10 saving [1] 53/7 savings [2] 124/10 124/14	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9 scaled [1] 30/1	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24 seek [2] 91/18 102/12	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20 12/17 13/25 21/15	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20 85/17 88/13 90/16
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15 route [3] 30/17 146/15 170/20 routinely [1] 171/19	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10 saving [1] 53/7 savings [2] 124/10 124/14 saw [3] 71/16 92/10	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9 scaled [1] 30/1 scaling [2] 128/2	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24 seeking [2] 2/11	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20 12/17 13/25 21/15 32/17 60/20 84/16	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20 85/17 88/13 90/16 93/22 95/18 95/21
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15 routed [1] 99/2 routine [3] 30/17 146/15 170/20 routinely [1] 171/19 rows [1] 71/24	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saving [1] 53/7 savings [2] 124/10 124/14 saw [3] 71/16 92/10 121/20	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9 scaled [1] 30/1 scaling [2] 128/2 129/16	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24 seeking [2] 2/11 102/23	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20 12/17 13/25 21/15 32/17 60/20 84/16 89/23 113/17 165/13	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20 85/17 88/13 90/16 93/22 95/18 95/21 109/2 121/23 129/4
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15 routed [1] 99/2 routine [3] 30/17 146/15 170/20 routinely [1] 171/19	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10 saving [1] 53/7 savings [2] 124/10 124/14 saw [3] 71/16 92/10 121/20 say [19] 25/25 29/12	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9 scaled [1] 30/1 scaling [2] 128/2 129/16	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24 seeking [2] 2/11 102/23 seeking [2] 2/11	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20 12/17 13/25 21/15 32/17 60/20 84/16 89/23 113/17 165/13 172/24 180/15	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20 85/17 88/13 90/16 93/22 95/18 95/21 109/2 121/23 129/4 133/20 133/25 138/10
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15 routed [1] 99/2 routine [3] 30/17 146/15 170/20 routinely [1] 171/19 rows [1] 71/24	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saving [1] 53/7 savings [2] 124/10 124/14 saw [3] 71/16 92/10 121/20	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9 scaled [1] 30/1 scaling [2] 128/2 129/16	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24 seeking [2] 2/11 102/23	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20 12/17 13/25 21/15 32/17 60/20 84/16 89/23 113/17 165/13	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20 85/17 88/13 90/16 93/22 95/18 95/21 109/2 121/23 129/4
risks [21] 134/22 134/25 135/20 136/3 139/7 145/16 152/13 166/1 166/5 169/17 170/6 171/19 177/25 180/20 180/24 180/25 181/17 181/24 182/3 182/12 183/4 Rizza [2] 5/24 144/4 Rizza's [1] 59/18 road [1] 86/22 role [4] 24/16 25/2 92/16 106/23 Roles [1] 26/5 rooms [2] 16/9 17/7 rotated [1] 130/15 roughly [2] 86/9 112/17 round [3] 68/15 78/12 78/13 route [2] 35/25 45/15 routed [1] 99/2 routine [3] 30/17 146/15 170/20 routinely [1] 171/19 rows [1] 71/24	144/24 145/13 146/20 147/5 154/24 156/23 159/2 159/5 159/9 159/19 160/4 175/7 177/22 180/7 181/3 same [21] 8/13 9/10 10/9 12/7 19/24 42/9 51/23 52/17 55/7 76/10 88/17 89/3 89/6 96/22 109/8 114/10 117/12 118/15 170/17 180/22 183/3 samples [2] 138/25 147/20 satisfactorily [1] 18/18 satisfactory [1] 104/3 save [1] 125/10 saved [2] 125/11 147/24 Savidge [1] 9/10 saving [1] 53/7 savings [2] 124/10 124/14 saw [3] 71/16 92/10 121/20 say [19] 25/25 29/12	122/10 122/16 123/2 123/21 124/7 124/12 124/24 126/4 126/8 126/19 128/4 128/10 129/2 130/1 130/14 130/19 131/4 131/7 131/10 132/9 134/18 134/20 134/21 135/9 135/20 135/22 144/3 147/18 148/10 148/16 149/21 150/15 157/22 165/8 165/21 167/19 168/2 168/17 169/3 169/6 169/16 169/21 171/25 172/3 172/17 173/5 174/20 175/8 176/25 178/9 178/15 178/24 179/5 180/14 182/16 183/9 183/18 184/8 184/15 185/3 185/4 185/15 scale [3] 34/22 43/22 45/9 scaled [1] 30/1 scaling [2] 128/2 129/16	second [40] 3/16 7/10 8/6 8/8 13/16 14/4 18/5 26/7 28/24 34/10 38/7 39/18 44/11 44/13 46/3 52/9 54/3 54/20 56/10 60/14 60/20 60/20 61/5 84/11 86/16 90/12 90/20 98/1 100/23 113/17 127/22 142/10 142/17 155/4 169/7 172/8 179/4 180/15 187/25 188/25 secretary [3] 4/21 10/24 12/18 section [3] 16/12 161/25 165/4 secure [1] 31/15 secure further [1] 31/15 security [1] 179/9 see [221] see the [1] 54/24 seeking [2] 2/11 102/23 seeking [2] 2/11	130/12 130/20 130/22 133/18 self-sufficient [3] 125/12 132/1 132/10 self-tanning [1] 38/13 self-treatment [1] 126/16 send [8] 8/13 63/20 101/12 102/18 107/10 109/10 138/11 159/6 senior [5] 11/20 22/25 42/2 61/12 99/7 sense [6] 88/12 106/23 117/7 117/8 171/7 179/9 sensitive [2] 148/22 160/7 sent [14] 8/16 42/8 72/24 73/1 94/6 108/24 108/25 110/2 116/19 119/8 131/19 138/16 143/7 156/12 sentence [12] 3/20 12/17 13/25 21/15 32/17 60/20 84/16 89/23 113/17 165/13 172/24 180/15	service [36] 12/1 22/7 24/24 27/10 30/2 34/21 34/24 35/2 35/6 44/14 46/14 52/21 87/3 87/10 93/21 95/25 96/4 96/5 96/22 97/25 98/8 98/10 98/11 98/14 99/3 100/1 100/17 101/11 102/5 102/10 103/5 106/6 106/14 106/18 107/16 183/17 Service's [2] 96/8 96/15 services [11] 15/21 21/1 22/18 96/19 100/22 102/9 103/13 103/18 106/9 119/9 124/15 sessions [1] 91/19 set [25] 14/7 20/13 21/5 39/6 63/1 79/18 81/17 81/18 82/20 85/17 88/13 90/16 93/22 95/18 95/21 109/2 121/23 129/4 133/20 133/25 138/10

(71) RHSC0000066... - set

S	111/15 112/15 113/13	168/14 171/10 171/16	7/1 8/17 9/4 12/2 13/1	55/24 60/1 89/6 102/6	51/11 57/9
	115/13 115/18 123/20	173/18 176/2 178/1	13/2 14/14 21/6 21/8	127/13 140/3 169/20	Star [1] 111/4
set [1] 159/13	135/16 138/23 143/3	180/7 180/20 181/6	23/12 23/22 27/12	176/18 177/15 177/24	
sets [18] 15/25 17/13	145/15 146/10 146/12	189/8	30/15 38/16 39/9	sourced [1] 135/12	44/9 64/8 114/24
31/6 32/13 32/13 33/2	147/24 152/9 156/21	Sister [3] 10/20 10/21	40/23 41/22 42/19	sources [5] 3/4 47/10	134/16 138/1 141/7
37/8 60/16 60/17	163/3 167/8 177/14	11/1	54/6 59/1 60/15 63/21	47/12 99/4 131/13	158/7 165/2 178/10
94/21 97/11 110/11	189/1	site [1] 61/19	66/24 67/3 67/12 68/9	South [2] 9/20 107/15	
120/16 123/1 124/4	show [5] 30/14 34/3	situation [8] 36/17	69/1 70/12 71/17	southern [3] 7/4 7/22	109/23
125/25 152/23 165/19	72/6 86/7 92/21	54/22 63/9 108/1	72/21 73/4 75/1 76/13	14/18	starting [2] 122/23
setting [4] 50/6 73/1	showed [2] 13/2 86/5	108/6 115/18 117/18	76/22 78/7 79/5 82/4	space [2] 19/3 28/2	185/22
159/18 167/11	showing [1] 50/4	185/5	82/15 82/17 83/23	speak [1] 42/3	state [2] 125/7 131/25
seven [4] 11/4 20/23	shown [6] 20/7 68/21	situations [2] 90/25	84/21 90/6 91/5 91/12	speaking [1] 166/2	stated [1] 165/25
67/21 73/8		118/20	91/18 98/19 106/21		
Seventy [1] 177/8	99/24 112/19 159/8	six [7] 23/16 124/6	107/22 108/2 108/5	special [3] 34/12 136/23 171/1	statement [43] 2/9 2/10 2/10 4/1 4/13
Seventy-six [1] 177/8	shows [5] 15/9 92/13	146/17 159/8 172/20	109/11 109/11 112/11	specialist [1] 25/7	21/6 21/13 21/18 22/9
several [9] 2/1 38/19		177/8 187/9			23/20 23/20 24/10
46/5 75/23 75/24	107/13 113/15 151/2	1	113/22 116/15 116/18	specific [5] 4/6 40/7	
161/8 162/4 174/6	Sick [3] 21/23 24/6	sixth [1] 23/19	118/18 120/21 121/14	78/25 95/21 108/3	26/3 34/5 34/7 35/20
179/20	139/13	size [4] 37/2 43/21	123/1 133/16 139/8	specifically [7] 14/23	40/11 41/9 44/10 47/6
severe [6] 28/25 33/7	side [4] 68/18 91/13	146/19 184/14	143/3 143/6 143/7	43/17 63/7 67/7 71/12	48/3 57/17 89/15
41/16 58/16 72/11	91/16 121/18	sizes [4] 43/20 146/18		74/2 84/20	99/13 128/9 130/8
140/18	signed [1] 17/24	158/12 158/13	147/19 150/2 152/2	specimens [2] 145/14	
severely [7] 30/17	significance [7] 81/2	skin [2] 33/5 121/12	156/19 160/3 162/14	164/4	134/9 134/19 135/15
32/20 36/11 44/19	162/3 166/17 167/20	skip [2] 165/13 175/7	162/14 163/1 169/19	speculation [1]	165/14 165/25 166/3
45/5 52/22 72/13	174/23 174/25 179/18	slight [1] 121/12	171/6 174/8 176/2	109/15	171/8 178/11 179/3
severity [1] 82/7	significant [11] 6/9	slightly [4] 76/10	177/9 178/6 179/22	speedily [1] 143/10	180/11 180/18 182/16
shall [1] 60/25	37/11 51/4 77/19 78/3	76/12 85/15 177/12	182/22 189/8	spell [1] 179/22	186/19 187/2
Shannon [1] 34/15	88/10 123/6 129/8	slow [3] 32/10 122/21	Somehow [1] 181/4	spend [2] 137/20	statements [21] 1/21
shared [4] 155/12	133/2 149/2 184/12	127/25	someone [7] 19/4	183/17	1/25 2/2 2/11 2/15
155/12 172/9 181/25	significantly [4] 18/1	sludge [1] 116/14	56/6 101/23 114/2	spending [1] 19/19	4/18 23/16 23/17
she [218]	70/21 80/5 131/24	small [13] 7/16 33/9	125/10 139/16 152/24	spent [3] 24/11 27/12	23/18 35/2 36/21
she'd [1] 130/13	silly [1] 9/18	65/6 67/10 67/24	something [4] 9/11	41/22	41/13 44/7 44/10
sneu[i] 100/10	aimilar [40] 2/20 0/7	70/14 78/2 78/17 83/1	0/11 50/00 150/15	Spero [1] 168/1	62/22 65/3 89/13
abo'a [12] 18/1 50/6	similar [10] 2/20 9/7	10/14/0/2/0/17/00/1	9/11 58/22 152/15	Shero [1] 100/1	02/22 00/0 09/10
she's [13] 48/4 50/6	9/12 17/8 71/15	91/2 105/18 116/5	sometimes [1] 82/19	Speywood [8] 58/4	172/1 178/9 181/21
70/3 76/7 79/10 87/8					
70/3 76/7 79/10 87/8 125/3 125/19 127/9	9/12 17/8 71/15	91/2 105/18 116/5	sometimes [1] 82/19	Speywood [8] 58/4	172/1 178/9 181/21
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17	9/12 17/8 71/15 129/18 159/18 162/17	91/2 105/18 116/5 166/2	sometimes [1] 82/19 somewhat [2] 105/3	Speywood [8] 58/4 58/11 61/4 70/17	172/1 178/9 181/21 183/7
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24	sometimes [1] 82/19 somewhat [2] 105/3 117/16	<b>Speywood [8]</b> 58/4 58/11 61/4 70/17 74/20 79/8 92/11	172/1 178/9 181/21 183/7 <b>States [1]</b> 41/22
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6	<b>Speywood [8]</b> 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1]	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262]	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 13/7 15/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shiff [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shiff [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shiff [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 172/9	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shiff [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 7/7	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shiff [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shorty [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 81/25 solely [5] 29/15 70/3	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shiff [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9 61/20 67/25 81/20	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19 105/18 112/10 125/14	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 71/2 sole [1] 81/25 sole [1] 81/25	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15 151/12 151/18	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3 160/13	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13 stopped [1] 42/13
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9 61/20 67/25 81/20 82/3 84/9 86/19 90/10	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19 105/18 112/10 125/14 128/6 131/7 133/20	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 71/2 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15 151/12 151/18 sound [1] 177/20	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3 160/13 stages [3] 1/14 3/11	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13 stopped [1] 42/13 storage [2] 33/19
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9 61/20 67/25 81/20 82/3 84/9 86/19 90/10 101/9 102/18 106/15	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19 105/18 112/10 125/14 128/6 131/7 133/20	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 71/7 soldiers [1] 71/3 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 29/15 70/3 105/15 119/17 122/3 solubility [2] 55/22 56/15	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15 151/12 151/18 sound [1] 177/20 sounds [1] 13/20	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3 160/13 stages [3] 1/14 3/11 13/12	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13 stopped [1] 42/13 storage [2] 33/19 38/24
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9 61/20 67/25 81/20 82/3 84/9 86/19 90/10	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19 105/18 112/10 125/14 128/6 131/7 133/20 134/11 135/4 137/20	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 71/7 soldiers [1] 71/3 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 1/24 2/7	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15 151/12 151/18 sound [1] 177/20 sounds [1] 13/20 source [15] 41/5 46/2	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3 160/13 stages [3] 1/14 3/11 13/12 stance [1] 124/20	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13 stopped [1] 42/13 storage [2] 33/19 38/24 store [1] 28/3
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9 61/20 67/25 81/20 82/3 84/9 86/19 90/10 101/9 102/18 106/15	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19 105/18 112/10 125/14 128/6 131/7 133/20	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 71/7 soldiers [1] 71/3 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 29/15 70/3 105/15 119/17 122/3 solubility [2] 55/22 56/15	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15 151/12 151/18 sound [1] 177/20 sounds [1] 13/20	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3 160/13 stages [3] 1/14 3/11 13/12	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13 stopped [1] 42/13 storage [2] 33/19 38/24
70/3 76/7 79/10 87/8 125/3 125/19 127/9 128/10 138/3 178/17 179/23 Sheffield [4] 42/25 159/11 159/19 160/4 Sheuer [1] 159/21 shift [4] 83/22 84/1 126/15 128/14 shipyard [1] 172/6 short [12] 9/19 10/1 10/3 15/22 53/23 108/14 115/10 138/7 155/23 167/4 172/16 174/7 shortage [3] 51/4 109/5 109/5 shortfall [2] 115/21 117/22 shortly [3] 108/15 113/21 139/19 should [47] 5/22 5/24 6/3 6/8 7/24 9/20 9/24 36/1 36/7 36/14 39/4 41/1 55/7 55/16 59/9 61/20 67/25 81/20 82/3 84/9 86/19 90/10 101/9 102/18 106/15	9/12 17/8 71/15 129/18 159/18 162/17 168/9 189/12 Similarly [1] 154/5 simple [2] 30/7 32/9 simplest [1] 8/12 simplicity [1] 33/24 simplify [2] 14/20 84/17 simply [3] 20/5 71/18 125/13 since [9] 11/22 13/7 52/7 98/9 104/17 115/19 118/22 144/4 149/24 single [9] 29/23 32/14 44/17 52/7 66/2 73/18 76/13 76/23 166/2 sir [48] 1/4 1/16 2/3 2/12 17/10 19/6 20/14 20/19 41/6 51/15 51/20 53/17 53/21 53/25 54/5 64/6 68/15 72/19 78/23 89/7 90/10 96/24 103/19 105/18 112/10 125/14 128/6 131/7 133/20 134/11 135/4 137/20	91/2 105/18 116/5 166/2 smaller [5] 53/5 74/24 81/17 165/25 166/5 snapshot [2] 3/25 84/12 SNBTS [9] 46/24 47/2 108/1 108/13 108/15 113/15 131/15 131/19 132/18 so [262] So that's [1] 123/17 so-called [1] 161/16 social [16] 4/22 12/23 13/1 13/8 16/9 18/6 18/10 18/17 19/2 96/19 100/21 102/8 103/13 106/8 119/8 124/15 Society [2] 11/11 90/11 Society's [1] 7/7 soldiers [1] 7/7 soldiers [1] 71/7 soldiers [1] 71/3 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 81/25 sole [1] 1/24 2/7	sometimes [1] 82/19 somewhat [2] 105/3 117/16 somewhere [1] 76/6 soon [4] 85/1 119/25 130/23 159/7 sorry [29] 8/19 9/1 10/8 19/23 26/4 41/10 51/25 58/5 60/9 63/1 68/1 78/12 82/3 86/15 89/16 89/18 90/20 93/25 119/5 123/18 135/16 136/12 140/14 142/21 143/7 151/12 151/24 160/2 174/13 sorts [1] 91/5 sought [1] 97/6 Soumik [27] 3/8 4/16 7/9 8/2 10/7 34/8 58/2 60/9 62/24 65/21 67/19 68/1 68/15 69/16 72/25 79/20 89/16 91/14 93/4 113/12 120/14 124/1 130/9 135/17 136/15 151/12 151/18 sound [1] 177/20 sounds [1] 13/20 source [15] 41/5 46/2	Speywood [8] 58/4 58/11 61/4 70/17 74/20 79/8 92/11 121/22 Speywood's [1] 121/24 spleen [1] 37/24 Spooner [1] 68/2 sprays [1] 38/13 spread [3] 95/4 109/13 138/24 Spurling [1] 172/13 St [1] 42/9 staff [20] 4/4 4/19 10/12 10/14 10/25 11/6 11/7 11/20 12/5 12/16 12/22 13/12 16/9 25/6 91/19 138/25 141/22 145/6 145/15 145/20 staffing [6] 3/1 4/23 10/10 13/11 25/19 128/15 stage [6] 3/7 18/17 23/12 59/11 143/3 160/13 stages [3] 1/14 3/11 13/12 stance [1] 124/20	172/1 178/9 181/21 183/7 States [1] 41/22 statistics [4] 43/11 126/19 146/5 146/12 status [5] 5/7 38/1 73/1 73/6 124/18 sterility [1] 33/17 Stewart [1] 146/9 sticking [3] 15/20 72/23 122/7 still [20] 19/21 36/9 70/10 78/1 82/17 87/23 87/25 105/6 108/4 126/5 127/2 148/22 155/16 156/6 161/8 162/6 162/12 162/13 168/25 182/2 stock [6] 43/14 43/19 56/25 107/25 108/1 111/11 stocks [5] 12/4 56/23 62/6 62/12 111/12 stop [4] 41/18 50/16 162/25 185/13 stopped [1] 42/13 storage [2] 33/19 38/24 store [1] 28/3

(72) set... - straightforward

	400/44 400/00 400/40	L. 1471 40/04	400/45	4004	40/44 40/40 40/0 40/7
S	122/11 122/23 128/16	supplies [17] 46/24	128/15	183/1	13/11 13/16 16/3 19/7
straightforward [1]	135/13 152/9 166/8	47/1 47/4 61/22 64/3	Т	term [4] 96/12 115/10	19/22 21/10 21/22
45/21	175/5	84/24 85/8 85/11		169/17 173/12	29/13 30/21 31/12
stress [1] 184/5	suddenly [1] 125/16	96/11 98/21 99/1	table [13] 3/18 3/21	termed [1] 172/20	31/14 38/3 39/11 40/9
	suffered [1] 160/11	99/10 99/14 111/15	65/13 66/14 70/10	terms [55] 2/1 4/8 4/9	41/7 44/3 47/6 49/19
stressful [2] 90/25	suffering [4] 14/5	115/20 115/25 132/12	74/4 74/6 76/4 77/15	7/24 11/7 13/1 13/11	55/3 55/14 58/4 58/23
91/25	30/19 171/2 172/11	supply [26] 43/8	97/11 156/20 156/21	13/19 15/5 21/10	62/2 63/15 64/20
strong [2] 119/20	suffers [1] 140/18	46/15 46/21 92/10	187/22	22/17 24/2 26/7 28/19	64/20 65/21 66/15
162/9	sufficiency [18]	92/20 96/6 100/25	tables [1] 158/9	35/4 41/5 41/8 44/5	69/25 71/11 72/18
struck [1] 125/16	103/23 104/9 123/21	101/25 102/6 106/10	take [9] 4/15 6/7	48/22 51/17 51/18	74/11 74/22 75/15
structural [2] 167/21	124/4 124/12 124/18	108/5 108/14 108/21	22/19 53/19 92/8 95/3	55/4 62/5 62/21 65/2	76/16 77/4 77/20
168/2	124/23 125/6 126/2	110/7 110/23 111/2	105/21 111/11 155/19	70/23 73/6 74/22	78/24 79/1 79/20 80/3
struggling [1] 125/23	126/5 127/24 128/1	111/8 111/9 128/12	taken [12] 12/16	80/18 82/4 82/7 84/2	80/25 82/16 83/6
studied [2] 159/21			24/16 25/14 30/2		
164/7	128/13 129/5 130/12	129/4 130/2 131/5	34/24 55/25 70/3	84/3 84/5 90/4 92/6	83/21 84/7 84/23
studies [11] 139/16	130/20 130/22 133/18	131/22 132/11 132/18		92/9 96/25 97/14	86/11 87/8 88/22 89/8
155/1 159/10 159/14	sufficient [7] 35/4	144/23	118/22 138/23 141/22	97/17 101/5 103/20	90/1 90/7 92/4 93/8
159/15 159/18 159/19	57/20 122/23 125/12	supplying [1] 98/16	152/16 178/19	110/12 120/7 120/17	93/11 96/4 98/11
161/13 161/25 164/20	132/1 132/10 132/12	support [1] 129/7	takes [2] 138/2	124/9 130/7 134/2	100/2 101/15 103/8
176/12	sufficiently [2] 59/5	supported [2] 10/25	161/17	134/3 150/12 160/19	103/10 105/10 110/21
study [25] 59/21	129/17	149/3	taking [6] 9/9 23/6	176/1 177/25 178/24	112/10 113/19 121/19
125/4 136/17 136/23	suggest [15] 1/12	suppose [2] 8/11	37/15 50/16 84/1	183/7	123/17 125/19 128/23
137/1 137/2 137/4	40/3 45/25 54/25	19/18	181/1	territory [1] 103/20	135/4 135/15 136/1
	66/23 72/20 74/15	suppressed [1] 140/9	talk [2] 87/10 122/8	Terry [1] 12/13	141/18 142/1 142/3
141/19 143/15 145/3	85/15 114/7 123/5	supra [1] 5/20	talking [3] 47/17	test [8] 146/13 147/25	142/4 145/12 148/2
146/3 147/3 147/6	143/6 152/13 155/12	supra-region [1] 5/20	178/17 179/15	160/7 168/20 169/2	150/7 150/17 150/23
147/14 148/10 150/24	162/14 179/11	sure [8] 20/8 62/23	talks [9] 35/19 124/20	174/16 178/19 179/13	150/23 151/21 152/18
151/1 151/14 151/17	suggested [16] 5/22	66/15 75/22 88/15	126/2 127/8 127/18	testimony [3] 1/15	154/6 155/11 160/13
153/14 153/17 153/18	16/19 42/3 57/17	115/2 134/24 179/10	148/14 149/18 173/20	1/20 2/4	160/15 161/6 162/25
153/22 158/21 163/11	63/20 74/14 96/20	surface [2] 187/7	175/19	testing [10] 147/20	164/10 164/16 165/23
style [2] 13/20 62/7	100/7 103/4 115/16	187/16	tanning [1] 38/13	147/22 147/25 166/21	165/24 167/1 168/13
sub [2] 63/2 184/23	118/9 119/7 128/11	surgery [14] 12/21	tape [1] 90/17	178/7 184/25 185/13	169/23 169/24 170/21
sub-clinical [1]	136/23 150/16 185/12	28/6 28/9 32/6 36/14	tardy [1] 126/24	187/16 187/21 189/14	171/20 178/16 186/7
184/23	suggesting [5] 31/13	55/8 85/11 86/21	task [2] 133/9 181/6	tests [12] 12/11	186/14 186/16 186/17
sub-paragraphs [1]	85/12 124/11 168/24	118/18 122/24 126/17	teaching [1] 31/3	147/21 166/16 168/23	186/18 188/1 188/19
63/2	179/18	167/10 167/17 188/18		172/23 174/15 175/6	thawing [1] 32/10
subclinical [1] 30/5	suggestion [9] 16/8		technicians [1] 38/11	178/21 178/25 179/7	their [29] 1/22 19/19
subheading [1] 43/9	40/21 116/24 117/4	163/11	technology [1] 127/14		23/19 37/2 43/14
subject [2] 102/17	118/3 128/16 151/25	survey [6] 112/23	tedious [1] 7/19	text [3] 8/5 186/11	45/22 46/2 49/2 50/14
112/11	1				
submitted [4] 53/1	167/12 185/22	141/14 141/17 142/18	telephone [1] 16/7	188/23	63/21 84/24 91/10
68/17 76/11 126/25	suggestive [2] 164/12		television [1] 170/10	than [39] 8/14 8/17	102/24 113/8 117/2
submitting [1] 126/25	164/18	Sustaining [1] 124/8	tell [7] 10/6 22/16	12/15 19/19 28/17	120/17 124/21 124/24
subscribe [1] 104/17	suggests [14] 4/2	swap [1] 116/18	59/6 64/7 84/7 151/10	29/8 36/6 40/6 40/7	137/19 143/12 160/5
subsequent [2] 10/2	13/25 15/12 16/17	switch [4] 83/22 99/21		56/15 56/25 57/4	162/8 166/17 171/17
128/14	29/17 38/12 40/12	100/18 114/20	telling [1] 49/11	57/16 66/4 69/1 70/21	171/20 176/19 181/2
subsequently [2]	49/16 55/1 57/19 81/6	sympathetic [1]	tells [6] 3/20 28/16	71/18 72/2 72/13	187/8 189/16
90/15 112/1	83/4 123/13 131/9	130/25	41/4 71/7 89/9 186/19		them [16] 31/6 34/1
substance [1] 174/16	suit [1] 50/19	symposium [1]	temperature [1] 38/19		34/2 47/23 69/11 72/5
substantial [6] 80/10	suitability [2] 121/8	159/24	Temperley [3] 8/1 8/4	118/11 119/23 121/7	82/15 91/23 117/1
80/19 104/12 104/20	121/18	symptomatic [1]	9/15	125/8 126/6 144/20	118/12 141/3 144/7
107/19 124/10	suitable [4] 9/24 48/9	20/10	temporary [1] 37/23	149/8 150/21 154/22	170/19 171/8 181/25
substitute [1] 104/11	48/13 56/16	symptomless [2]	ten [7] 4/13 31/1	162/16 171/13 177/12	189/18
subtypes [1] 182/20	suits [1] 91/23	162/12 174/15	31/10 70/7 93/5	182/22	theme [1] 51/21
	summarised [1]	symptoms [3] 160/12	144/16 150/20	thank [13] 4/15 22/19	themes [1] 1/24
success [1] 103/16	149/16	182/21 185/24	ten-fold [1] 150/20	47/25 53/18 53/21	themselves [4] 30/23
successful [4] 49/14	summarises [1] 97/21	syndrome [6] 33/1	tend [4] 45/25 72/12	63/3 65/23 73/15	85/1 90/5 170/5
51/5 69/22 110/15	summary [5] 46/7	33/12 53/11 122/20	152/13 155/12	91/16 92/8 108/10	then [327]
successfully [1] 31/3	91/17 97/5 138/7	123/11 171/3	tended [2] 15/13	115/2 189/19	theory [1] 126/6
successor [1] 36/5	187/5	synopsis [1] 54/4	54/25	Thankfully [1] 184/21	
such [18] 2/14 2/14	supplied [6] 27/9	syringes [1] 172/10	tender [1] 51/5	that [540]	104/11 119/18 144/12
15/10 19/10 26/19	88/19 95/12 110/12	system [10] 87/4 94/3		that she [1] 59/10	147/24
38/17 40/24 63/23	111/7 113/1	95/3 95/6 95/8 96/7	174/10	that's [115] 2/24 3/25	therapy [2] 118/17
68/7 94/5 121/11	suppliers [1] 132/24	97/1 100/18 107/9	tension [2] 182/13	4/8 7/11 10/16 11/6	147/23
L			L	(70)	traightforward therapy

(73) straightforward... - therapy

T	they [43] 7/18 12/7	134/16 137/23 138/16	135/25 137/20 139/21	123/13	120/24
there [215]	22/12 27/25 27/25	147/23 155/13 171/2	154/18 158/1 161/12	transaminase [2]	treated [66] 7/21
there's [96] 3/18 5/14	43/12 43/14 43/15	171/22 177/5 180/23	166/18 170/21 176/4	174/17 174/18	22/12 33/12 44/24
7/8 10/3 11/19 16/8	47/23 61/8 61/9 64/7	181/5 181/20 182/14	176/8 179/13 180/9	transaminases [1]	45/1 45/3 46/23 56/9
18/25 19/3 24/19 28/8	68/22 79/4 84/24	185/21 189/8	180/16 180/22 181/9	162/6	57/4 64/15 64/19 66/6
38/8 40/21 43/18 45/7	85/10 85/18 88/19	though [3] 75/25	181/14 182/10 183/3	transaminitis [1]	66/10 67/21 68/5 70/5
47/1 60/11 65/11 66/2	91/10 102/15 102/16	146/13 162/14	183/13 183/17 183/19	164/10	70/8 71/6 71/9 73/22
66/11 67/3 67/16	103/6 117/1 118/5	thought [16] 10/1	time-expired [2]	transfer [4] 11/25	73/25 75/17 77/8
67/23 68/2 68/9 68/18	119/20 126/21 127/4	19/13 22/12 39/9	101/12 102/19	21/16 26/7 102/5	77/13 79/2 79/4 79/15
69/2 69/3 73/2 73/7	127/13 128/8 131/1	48/12 59/22 112/19	timely [1] 133/3	transferred [6] 21/11	79/22 81/14 81/24
75/1 75/20 76/12	131/6 132/25 133/13	133/2 135/1 146/9	times [5] 43/16 43/17	22/11 34/20 35/1	82/22 82/24 83/4 83/9
76/20 77/25 78/25	133/18 135/12 156/24	158/14 159/4 160/10	72/9 132/11 169/22	98/10 106/5	83/18 84/2 84/5 86/8
80/9 83/19 84/8	158/7 165/17 171/1	168/5 182/7 184/3	timing [1] 70/17	transferring [2] 22/4	87/14 87/20 88/4 88/6
100/11 103/1 103/9	171/11 173/8 174/2	thoughts [1] 165/20	to [1135]	22/6	88/9 88/15 89/1 90/2
105/12 106/2 107/12	180/24	threatening [2] 167/9	to 12 [1] 53/20	transformed [1] 32/1	95/2 103/20 110/8
110/23 113/6 113/9	they're [1] 185/24	167/17	today [7] 1/4 1/24 2/8	transfused [4] 118/2	110/12 110/13 110/24
113/24 114/1 115/16	thing [1] 59/6	three [10] 10/15 15/17	110/14 165/18 183/6	166/16 168/5 174/19	112/3 112/6 112/25
116/14 116/22 116/24	think [60] 9/18 20/14	42/17 82/19 115/7	186/24	transfusion [54] 12/1	113/23 114/9 114/13
117/5 117/10 117/11	20/18 23/14 31/12	124/13 131/13 147/18	today's [1] 54/9	24/23 27/10 30/2	125/5 127/2 138/9
121/21 125/8 137/7	31/14 34/25 35/7	161/2 163/7	told [1] 1/15	34/21 34/24 35/2 35/5	166/8 170/25 176/13
138/14 138/19 139/1	40/10 41/2 41/4 50/25	through [26] 37/24	tolerance [1] 118/2	42/23 42/24 44/14	185/8 189/2
139/5 140/10 140/13	52/16 58/4 61/8 66/17	62/14 69/11 72/5	tomorrow [10] 1/4 2/8	46/14 52/6 52/20 87/3	treaters [3] 126/9
141/13 143/18 144/1	66/18 67/4 75/5 75/23	72/16 74/20 76/24	52/2 72/19 176/23	87/9 93/21 94/19	126/12 129/20
144/11 145/2 145/7	78/15 81/8 86/4 88/22	82/6 87/2 87/9 98/8	177/7 178/6 180/6	95/24 96/5 96/15	treating [6] 26/21
146/4 147/13 149/13	89/4 89/7 91/3 91/17	99/2 99/25 100/13	189/12 189/21	96/22 97/25 98/8	32/25 72/8 90/5
151/12 154/20 156/18	100/11 103/11 105/4	104/17 126/16 137/20	too [2] 63/16 91/6	98/11 98/14 99/3	122/19 135/25
157/9 158/12 161/13	105/10 110/9 113/13	144/14 148/7 148/8	took [8] 34/18 34/19	99/25 100/17 101/11	treatment [174] 3/3
161/16 161/24 162/22	113/20 115/3 120/14	152/22 161/15 163/1	63/12 81/8 99/21	102/5 102/10 103/5	3/22 7/3 7/4 8/7 9/19
166/20 167/12 169/13	121/2 123/23 124/1	165/6 169/15 183/11	159/25 185/13 188/16	106/5 106/14 106/17	9/22 12/6 12/8 12/13
171/24 172/16 172/22	130/9 133/7 133/25	throughout [8] 23/4	top [26] 3/18 27/5	107/16 110/11 110/21	14/20 14/22 18/24
175/23 176/20 183/15	134/20 135/16 141/23	28/18 56/6 57/2 57/7	27/6 27/17 33/1 43/1	127/19 142/8 148/11	22/14 25/21 26/10
186/11 188/3 188/7	149/6 151/13 151/18	95/4 128/8 137/21	48/8 58/8 64/10 65/23	149/2 149/15 149/24	26/16 26/18 26/22
188/14	154/6 164/22 167/1	throw [1] 189/8	70/2 90/19 95/18	150/17 150/21 162/8	26/24 28/1 28/15 29/2
There's rather [1]	171/7 175/7 179/8	thrust [1] 171/18	108/19 117/23 124/13	165/9 173/7 173/10	29/7 29/20 30/6 30/17
77/25	179/16 181/20 183/6	Thursday [3] 2/16	130/14 134/21 138/15	175/9 183/11 183/17	30/22 31/4 31/23
there: [1] 71/3	186/23 188/19	15/7 21/9	142/14 143/4 143/5	transfusion-transmitt	31/25 32/2 32/20 33/2
there: Hemofil [1]	think, [1] 113/6	thus [8] 6/13 37/24	143/15 144/16 157/10	ed [1] 173/10	33/3 34/14 35/13
71/3	third [19] 20/2 21/19	42/2 52/10 56/16	186/3	transfusions [7]	35/21 36/1 36/12
thereabouts [1] 25/11	37/14 51/2 51/6 57/10	124/14 127/3 128/18	topic [3] 123/21	153/19 154/13 188/4	36/22 38/25 39/6
thereafter [6] 24/11	57/12 57/18 57/21	tick [6] 68/20 68/22	145/16 183/19	188/5 188/12 188/15	41/20 42/12 44/18
24/15 30/20 37/19	69/5 69/12 70/18	69/3 69/3 69/4 82/13	total [15] 8/10 11/4	188/18	44/23 45/6 45/20 46/4
42/16 85/6	87/15 90/19 115/8	ticked [1] 82/11		transition [1] 22/17	46/9 46/11 46/16 47/2
thereby [2] 49/8	155/6 175/23 181/7	ticks [1] 76/18	66/6 66/11 70/5 73/22	transmission [13]	48/10 49/1 49/3 50/12
106/23	187/22	time [79] 4/21 8/22	73/24 77/8 77/24	121/17 148/12 148/18	50/14 50/16 50/17
therefore [14] 35/25	Thirdly [1] 38/16	8/22 11/5 11/8 11/12	79/22 108/1 167/6	166/1 166/5 177/25	51/8 51/12 52/7 52/8
44/17 46/21 49/3	thirds [1] 80/20	11/13 15/14 19/19	totally [1] 174/14	181/10 183/10 183/20	52/24 53/13 54/1
50/21 61/19 85/8	this [280]	19/23 22/21 22/21	touch [4] 60/2 61/1 61/25 123/20	184/13 184/17 184/20	54/10 54/19 54/21
85/16 102/12 115/24	Thomas's [1] 42/9	23/12 24/11 24/24		188/8 transmitted [2] 50/1	55/6 55/21 56/4 56/9
118/8 134/11 136/2	Thornton [1] 6/18	25/11 26/9 27/12	tour [1] 162/25	transmitted [2] 50/1	56/22 57/1 57/15
160/8	those [56] 1/22 1/25	32/18 34/12 36/19 38/10 38/22 40/24	towards [15] 78/9	173/10 transpired [2] 10/4	58/19 58/21 61/15
therein [1] 136/20	2/7 2/13 6/14 15/13		82/9 104/9 105/8	transpired [2] 10/4 128/14	64/5 69/2 71/10 72/8
these [28] 5/2 14/14	16/19 18/4 24/7 30/19 33/21 36/13 36/18	41/22 44/1 45/12 45/17 47/17 52/21	122/16 124/5 124/22	transport [1] 128/20	73/20 74/4 74/5 74/7 74/9 74/11 74/12
14/20 42/21 50/13	38/12 45/18 45/23	55/25 56/14 56/20	128/5 128/11 130/25 131/3 138/13 138/18	transport [1] 120/20 transporting [1] 96/13	
66/4 66/12 68/8 79/21	47/24 52/1 54/20 56/4	56/20 57/19 60/8	142/20 182/17		74/18 74/22 74/23
84/17 86/18 90/25	64/5 68/13 68/21	63/22 66/2 71/12 83/9	trace [2] 82/6 152/22	travel [1] 7/18	77/21 77/21 77/22
94/13 111/1 136/6	72/11 73/13 76/18	83/23 87/8 88/19		travelling [1] 19/19	
144/6 145/22 151/5	78/12 78/15 80/15	91/18 91/25 101/12	traced [1] 105/4 trade [1] 128/17	Travenol [6] 42/7 45/2 46/12 56/10 81/16	78/20 78/21 79/6 80/8
154/25 155/1 156/9	81/7 81/11 86/13 89/5	102/19 104/7 107/13	traffic [1] 86/22	83/8	80/11 80/14 80/15
156/16 164/11 167/11	103/4 105/1 114/10	108/13 108/15 128/25	trained [1] 22/24	treat [9] 30/23 39/23	80/25 82/2 84/6 84/17
173/11 176/1 177/11	118/15 122/13 130/3	129/8 130/20 131/24	training [1] 139/19	55/11 60/23 63/8	84/19 84/23 85/2
179/6	133/8 133/16 133/24	132/20 133/8 134/24	tranexamic [2] 123/7	64/12 66/12 75/21	86/10 86/14 89/11
			a anovanno [2] 120/1		00/10/00/11
L	I	L	L	L	(74) there treatment

(74) there - treatment

[					
T	82/10 82/19 82/24	183/14	unsuitable [1] 54/20	56/11 57/13	87/25 88/2 88/4 88/6
	83/14 89/5 97/10	underlying [1] 177/23	until [22] 4/12 23/4	usage [32] 13/22	113/1 117/5 151/19
treatment [51]	97/13 101/21 118/14	understand [8] 18/20	23/7 24/8 25/13 25/15	13/23 30/15 40/1	170/13 171/12 172/9
89/20 90/4 90/23	119/19 119/21 132/5	19/5 51/8 102/1	34/20 42/13 53/19	40/12 41/7 49/9 54/1	177/18
91/12 92/1 92/4 92/7		108/18 109/4 117/14			
94/17 94/25 106/25	137/1 141/15 151/18		62/17 64/2 65/9 85/1	54/13 54/17 55/15	usual [1] 174/16
112/7 113/18 113/21	153/21 154/11 157/13	172/2	85/3 105/21 112/13	56/17 66/2 66/20	usually [2] 62/17
116/4 116/8 117/7	159/12 160/8 167/5	understandably [1]	118/7 119/3 175/2	67/13 67/24 69/23	152/25
	178/16 181/5 182/14	40/13	182/18 189/20 189/23	70/11 70/12 76/3 76/5	
121/8 121/16 122/11	182/15 184/23 186/24	understanding [5]	Until 10.00 [1] 189/20	78/23 79/16 80/10	V
124/8 125/9 126/13	two patients [1] 83/14	43/25 60/4 75/6 135/9	untreated [2] 39/2	80/12 87/10 89/10	vaccinated [1] 172/7
126/16 126/23 126/24	two years [1] 159/12	189/6	134/4	116/7 120/18 122/6	vaccination [1]
127/5 129/16 133/15					176/21
143/18 149/22 165/12	two-part [1] 157/13	understood [3] 99/23	unwise [1] 115/24	133/21 137/17	
165/17 167/9 169/23	two-thirds [1] 80/20	118/23 137/25		use [46] 25/20 27/4	vaccine [1] 172/7
169/23 169/24 169/25	type [16] 8/21 68/19	undertake [2] 158/20	12/23 15/4 16/6 16/18	27/14 27/24 28/13	valid [1] 125/24
	69/1 69/20 71/18 72/2	189/12	16/25 20/16 22/3	29/18 38/21 39/12	value [3] 59/17
170/1 170/1 170/20	72/9 76/13 76/15 77/2	undertaken [3]	22/21 22/23 25/14	39/13 40/10 41/14	122/18 157/5
170/24 170/25 175/12	82/18 150/5 157/6	141/19 159/10 178/7	28/22 29/19 30/2	41/15 42/17 43/12	variable [1] 32/11
176/19 177/4 177/23	173/10 174/7 189/1		31/20 32/17 34/9	44/4 45/19 48/24	variables [1] 133/14
178/18 178/23 179/2		undertaking [2] 145/3 178/25			variation [2] 37/13
180/16 181/2	types [7] 82/19 145/4		34/18 39/17 41/12	50/24 59/23 60/15	
treatment: [1] 78/5	147/25 155/5 162/10	underway [2] 159/15	44/12 44/13 44/21	64/7 67/3 67/17 74/15	37/25
treatment: Factor VIII	174/6 175/12	159/20	47/23 51/16 52/3 60/6	77/24 86/19 91/24	variations [1] 38/4
		underwrite [1] 104/19	61/3 62/22 66/4 68/25	92/19 104/18 104/21	variety [3] 48/10
[1] 78/5	U	undoubtedly [1]	71/24 80/3 80/4 80/24	105/8 105/9 115/15	72/13 109/9
treatments [2] 121/13	UK [12] 6/5 42/11	182/13	82/9 84/16 85/1 85/3	120/9 120/12 121/15	various [23] 1/14 3/11
123/18	46/17 64/2 124/21	unfamiliar [1] 167/14	91/1 92/21 93/5 93/17	121/21 123/13 134/23	4/17 11/19 15/3 22/20
treble [1] 50/14	129/16 166/9 169/8	unforeseen [1] 57/6	96/11 97/24 109/20	144/12 147/9 153/21	23/23 53/15 92/21
trebling [1] 37/22					
Treloars [2] 101/2	170/10 171/4 175/13	unfortunately [4]	113/16 117/23 118/7	170/20 171/20 175/10	111/4 118/22 127/6
147/16	177/12	83/25 111/24 140/1	123/22 124/13 127/21	177/24	128/7 133/21 137/20
trends [1] 127/5	UKHCDO [9] 6/17	170/23	128/2 129/16 132/8	used [90] 3/2 22/13	137/22 138/10 141/6
	14/2 23/10 126/4	unheated [5] 87/23	134/7 134/9 136/2	27/8 27/8 27/19 28/6	144/13 145/4 153/4
trimester [1] 37/15	141/6 142/3 142/20	87/25 88/8 88/16 89/2	136/11 136/21 137/2	28/8 34/4 36/18 41/24	164/20 167/11
trivial [1] 32/5	160/19 176/1	union [1] 128/17	137/21 139/6 142/20	44/5 44/20 45/17 46/7	vast [1] 181/23
troubled [2] 43/16	Ulster [2] 185/1	unit [6] 15/11 33/20	145/3 145/10 146/17	49/12 51/7 52/8 52/9	vein [1] 31/2
43/17	186/25	126/22 132/3 140/21	149/21 150/8 155/25	52/20 52/21 54/19	veins [1] 56/5
true [5] 3/22 18/21	ultimately [2] 98/13				
109/8 131/25 169/4		187/18	156/3 156/24 157/11	56/12 59/1 64/4 64/12	version [2] 128/9
trust [4] 23/11 23/11	112/20	United [6] 41/22 56/12		64/22 65/9 65/10	156/21
61/25 95/22	UMG [2] 106/15	165/15 166/25 175/15	165/21 166/23 172/20	66/11 66/15 67/7	versus [4] 162/23
trustee [1] 23/10	106/20	177/10	175/23 179/4 182/17	67/10 68/8 70/14	169/23 169/25 170/1
	unable [8] 46/20 57/9	United Kingdom [3]	182/18 187/4	70/18 70/25 71/3 71/3	very [37] 1/16 5/13
try [6] 55/10 91/23	64/3 96/5 103/2	56/12 166/25 177/10	up-to-date [1] 134/7	71/4 74/8 74/9 74/10	17/8 27/2 36/8 37/11
116/3 119/2 119/17	131/24 132/20 145/17	United States [1]	update [2] 13/24 20/1	74/24 74/25 75/2 75/9	42/8 43/23 47/20
140/25	unacceptable [1]	41/22	updates [1] 153/12	75/12 75/14 75/18	58/23 59/15 59/25
trying [2] 31/15	128/17				60/1 63/1 77/19 80/9
177/23		units [28] 32/15 59/15		75/21 76/11 77/20	
Tuesday [1] 1/1	unanswered [1] 162/6		upgrading [1] 130/17	77/22 77/25 78/1 78/5	80/19 83/1 92/15
turn [17] 3/1 13/14	unclear [7] 49/15	64/25 65/5 66/19 67/3	upon [12] 16/19 25/9	78/10 78/19 78/21	99/11 108/2 108/13
25/18 31/19 39/13	74/18 104/16 105/16	67/14 67/16 67/22	54/21 95/1 95/11	80/2 80/7 80/13 80/20	115/4 133/4 143/4
	105/16 113/4 120/1	70/22 70/22 71/10	95/16 101/2 107/8	81/3 81/19 83/2 83/5	150/2 152/11 152/20
42/20 57/25 64/6	undated [1] 186/15	74/18 75/21 79/5 80/7	112/3 123/20 128/24	83/7 83/8 83/13 94/17	153/15 156/6 160/11
65/19 68/25 98/19	under [40] 5/5 9/9	80/13 80/14 80/22	141/4	109/10 109/13 109/24	174/11 174/12 174/14
130/8 134/11 156/9	12/22 14/18 17/17	94/17 95/10 115/6	upsetting [1] 185/13	112/13 118/17 120/6	182/9 185/23 189/19
157/20 165/1 189/14	24/21 26/4 26/13	115/11 115/14 116/13	urging [2] 142/16	120/8 120/24 121/2	via [1] 35/24
Turning [2] 9/14					
137/18	29/19 36/25 43/7 43/8	University [2] 24/10	143/16	122/2 123/5 129/13	vials [3] 95/25 97/15
twenty [1] 185/6	54/11 68/12 77/10	41/23	us [23] 3/20 10/6	131/23 132/21 146/19	110/23
twenty years [1]	96/6 97/4 97/15 98/2	unknown [2] 50/1	22/16 28/16 41/4	164/11 170/14 173/13	vice [1] 23/13
185/6	98/20 98/25 99/8	149/1	49/11 62/16 63/20	174/18	vice president [1]
	99/11 100/24 115/19	unless [1] 171/7	64/7 71/7 81/23 84/7	useful [1] 155/19	23/13
twice [1] 111/10	124/3 138/19 151/22	unnecessarily [1]	87/2 89/9 99/24	users [1] 56/2	Victoria [16] 6/20 21/1
two [42] 36/11 36/21	154/10 154/23 156/6	144/22	104/24 115/19 116/3	users' [1] 101/7	21/3 21/17 22/4 23/1
47/12 51/24 61/10	157/18 160/23 161/25	unpredictability [1]	138/2 151/10 156/4	uses [1] 58/18	23/4 24/20 24/25
65/19 67/19 68/1	1				
69/15 69/16 71/1 73/7	162/1 163/14 172/3	33/14	186/19 186/21	using [20] 32/18 36/6	27/12 30/1 57/11
76/18 78/4 80/20	175/17 181/12 187/14	unrealistic [1] 132/3	USA [7] 42/4 45/2	37/7 38/13 40/4 46/16	58/10 98/22 98/25
	undergraduate [1]	unrelated [1] 163/24	46/12 46/22 47/12	50/15 52/17 87/23	136/10
					(75) treatment Victoria

(75) treatment... - Victoria

17/12 5/17/20       volumes [1] 33/10       9/12 14/2 15/17 24/6       17/1/1 17/1/8 176/18       whereby [1] 108/24       14/0/20 143/24 146/17         77/23 78/5 78/10 79/3       78/10 79/3       78/10 79/3       78/10 79/3       78/10 79/3       14/16 15/21 156/20         79/4 80/4 80/10 80/16       51/25 54/15 66/22       15/25 54/15 66/22       15/25 14/17 179/24       10/4 16/17 72/24       10/4 16/17 43/22       15/25 15/725 158/22         80/6 80/16 80/16       15/25 54/17 24/8       15/25 54/17 24/8       15/25 14/17 17/17       17/11 17/1/8 17/17       16/14 66/15 72/18       15/9/21 15/71/4       15/25 14/71/2       15/25 14/71/4       15/25 14/71/4       15/21 15/71/4       15/21 15/71/4       15/21 15/71/4       15/21 11/1/1       17/11 17/1/8 17/71       17/12 17/12       13/81/1       15/21 15/71/4       15/21 11/1/1       13/1/1       15/21 15/71/4       15/21 11/1/1       15/21 11/1/1       13/1/1       15/21 11/1/1       13/1/1       15/21 11/1/1       13/1/1       15/21 11/1/1       13/1/1       15/21 11/1/1       13/1/1       15/21 11/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       13/1/1       <				1		
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viewpolit [1]         123/22         Viewp [1]         Viemp [1]         <		virtually [1] 85/2	watched [1] 180/23	64/3 80/6 85/8 85/10	whatever [2] 52/22	22/9 144/23
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View (a)         (a)         (b)         (b)         (c)         (c		147/20 147/25 154/5	36/6 68/15 68/25	108/19 110/15 112/17	when [33] 6/6 7/4 8/20	
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Viguant         11         12/16	130/12 181/5					
NIII 143         101 13/22         117/3         117/3         112/3         127/3	vigilant [1] 184/25					
30/13/12/4 31/26         16/73         16/73         16/74	VIII [143] 8/10 13/22					
32/10         32/16 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td></th<>						
33/16 36/16 36/16         Write B (1 30/2 40/2 40/13 40/2 40/2 40/2 40/2 40/13 40/2 40/2 40/2 40/2 40/2 40/2 40/2 40/2				129/4 130/3 131/6	46/23 50/16 51/11	22/14 24/8 24/19
37/12         37/12 <td< td=""><td></td><td>viruses [3] 50/1</td><td>we'll [18] 15/22 26/2</td><td>131/13 132/2 132/12</td><td>53/1 54/7 56/17 56/20</td><td>26/13 26/23 31/2</td></td<>		viruses [3] 50/1	we'll [18] 15/22 26/2	131/13 132/2 132/12	53/1 54/7 56/17 56/20	26/13 26/23 31/2
3/12/3/12/3/12         4/16         5/11/2         1/12/3/12         4/16         5/31/2         4/16         5/31/2         4/16         5/31/2         4/16         5/31/2         4/16         5/31/2         4/16         5/31/2         4/17         5/31/2         5/31/2         4/17         5/31/2         5/31/2         4/17         5/31/2         5/31/2         4/17         5/31/2         5/31/2         5/31/2         5/31/2         5/31/2         4/17         5/31/2         5/31/2         4/17         5/31/2 <t< td=""><td></td><td>144/13 149/1</td><td>30/14 35/17 49/17</td><td>133/13 134/5 135/12</td><td>64/2 81/4 85/22 87/8</td><td>36/13 37/5 45/5 45/18</td></t<>		144/13 149/1	30/14 35/17 49/17	133/13 134/5 135/12	64/2 81/4 85/22 87/8	36/13 37/5 45/5 45/18
3/3/3/23/24/01         41/12		vis [2] 117/17 117/17	53/19 68/25 69/12			
4/36/402132/1         60/13         79/3 826 1052/1         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 29/312         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 27/17 20/21 30/3         71/17 20/17 10/22 31/17         71/17 10/22 11/11         158/17         71/17 20/17 30/11 40/20         13/22 4 15/17 30/11 40/20         13/22 4 15/17 30/11 40/20         13/22 4 15/17 30/11 40/20         13/22 4 15/17 30/11 40/20         13/22 4 15/17 30/11 40/20         13/22 1 10/21 11/11         13/22 1 10/21 11/11         13/22 1 10/21 11/11         13/22 1 10/21 11/11         13/22 1 10/21 11/11         13/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22 1 10/21 11/11         15/22				1		
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01/1 01/1 01/2 64/23 66/3 66/3         103 1 05 16/1 18/11         178/5         160/6 160/8 16/10         86/2 90/2 93/11         99/14 105/1 11/2           66/23 66/3 66/3         05/7 6 6/9 46/01         7/17 77/7 70/7 80/23 8/3         106/2 12/21         106/1 10/2         10/1 10/2         11/1 10/	54/18 58/18 60/23			1		
64/23 66/8 66/19         1/03 100 16/1 18/11         1/73						
66/23 67/8 69/4 69/6         Volume [0] 22/1         Were [4] 62/2 11/0319         16/16 169/2 11/0319         17/17 17/04 160/2         17/17 17/02 169/16         17/17 17/02 169/16         17/17 17/02 169/16         17/17 17/02 17/17         17/17 17/12 11/17/16         17/17 17/02 17/17         17/17 17/02 17/17         17/17 17/02 17/17         17/17 17/02 17/17         17/17 17/02 17/17         17/17 17/02 17/17         17/17 17/12 11/17/17						
69/14 7012 71/23 71/25 74/10 74/15       17/17 19/1 60/23 60/3 71/25 74/10 74/15       106/22 16/32 16/37       Where [32] (1 49/2)       113/21 15/24 15/7         71/25 74/10 74/15       volumes [1] 33/10       wike [32] (9/8 9/8       17/17 17/02 12 17/11       15/817       16/82 17/102 (1 7/11)       15/817       13/817 13/916 14/018         71/25 74/10 74/15       63/24 129/14 1302       53/04 71/17 71/817 107/22 17/11       15/817 17/02 12 17/11       15/817       14/71 16 22/1       13/817 13/916 14/018         71/25 74/10 74/15       63/24 129/14 13/16       55/0 85/10 87/20       63/24 129/14 13/16       55/0 85/10 87/20       15/917 16/16 16/010       16/82 137/21 15/22       15/917 16 16/010       16/82 137/21 15/22       15/917 16/16 16/010       16/82 137/21 15/22       15/917 16/16 16/010       16/82 137/21 15/21       15/917 16/16 16/010       16/82 137/21 15/21 15/16 15/21       15/917 16/21       14/71 16/21 14/72       15/917 16/92 14/72       15/917 16/92 14/72       15/917 16/92 14/72       15/917 16/92 14/72       15/917 16/92 14/72       15/917 16/92 14/72       15/917 16/91 14/72       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       15/91 14/912 14/91       1						
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7/125 / 4/10 (4/15)       volumes [1] 33/10       9/12 14/2 15/17 24/6       7/1/1 17/1/18 176/18       whereby [1] 108/24       140/20 143/24 445/17         7/123 78/5 78/10 79/3       volumer [5] 44/16       25/20 33/25 40/9 41/7       7/7/19 177/20 178/17       10/4 16/17 42/21 22/2       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       176/21       136/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21       156/21			we've [32] 9/8 9/8	170/17 170/22 171/1		138/17 139/16 140/18
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87/24 87/25 88/5 88/6       67/20 F1/8 71/13       147/8 149/ 149/1       147/8 149/ 149/1         88/15 89/1 90/24 91/10       71/24 74/3 75/13 77/7       159/25 173/24 180/15/13       171/13		65/12 65/15 65/18	122/13 123/3 132/6	187/7	113/2 125/6 129/23	188/17
61/2 61/2 61/2 61/2 61/2 61/2 61/2 61/2		67/20 71/8 71/13	147/8 149/7 154/1	weren't [2] 171/12	131/8 133/1 135/4	who's [1] 76/21
Bol 13 69/1 90/24 91/10         77/13 78/18 78/22         week [3] 111/13 115/3         West [1] 14/15         178/2         wholly [1] 144/25           94/10 91/24 94/10         79/24 80/23 81/12         134/10         West [1] 14/15         178/2         wholly [1] 144/25           96/3 96/7 96/11 98/23         123/10 123/14 171/3         123/10 123/14 171/3         West [1] 14/15         178/2         wholly [1] 144/25           100/11 199/23 109/23         123/10 123/14 171/3         week [3] 30/9 35/24         5/15 12/2 15/1 16/5         17/8 17/8 17/8 17/11 77/13         18/17 18/7/8         17/13 78/18 17/8         17/13 78/18 17/8         17/13 78/18 17/17         14/19 16/2/1         11/18/11         11/18         11/18         11/18         11/18         11/18         17/14 78/18         18/11         11/18         <						
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103/24 10//2010/122       von Willebrand [6]       61/3       16/3       16/25 19/7 19/22 20/8       17/25 20/3 25/16 27/9       whose [4] 1/18 121/6         109/1 109/13 109/23       33/12 78/22 122/20       weighted [1] 55/3       22/16 25/24 27/14       29/2 30/14 34/3 37/5       140/19 162/17         10/24 112/25 113/19       von Willebrand's [21]       weighted [1] 55/3       28/23 31/12 32/13       38/11 43/15 44/5       why [8] 36/25 38/4         110/24 112/25 113/19       von Willebrand's [21]       39/20 40/13 42/13       41/5 43/17 45/17       49/14 50/4 50/5 52/19       104/25 108/3 109/4         111/17 117/12 4118/8       39/20 40/13 42/13       41/5 43/17 45/17       49/14 50/4 50/5 52/19       104/25 108/3 109/4         111/17 117/12 417/3       32/26 65/12 65/12       65/18 67/20 71/8       66/18 69/23 72/3 78/6       52/3 54/9 54/15 55/3       58/25 64/9 66/2 66/12       77/13 77/13 77/13 71/2 37/12 37/24 46/18         111/12 113/13 120/16 120/23 121/7       75/13 77/7 77/13       109/10 123/15 125/22       59/25 59/8 59/12       67/4 70/1 72/6 72/17       wride [3] 54/10       111/22 135/25         121/8 121/15 121/20       71/13 73/24 40/23       149/15 166/19 70/22       60/16 60/17 64/4 64/7       97/11 97/13 97/23       wride [3] 54/10       111/22 135/25       wride [3] 37/2 32/2       111/2 12/2 13/2       101/2 102/9 103/2       101/2 102/9 103/2       10	91/10 91/24 94/10	77/13 78/18 78/22 79/24 80/23 81/12	week [3] 111/13 115/3 134/10	West [1] 14/15 Western [1] 14/17	178/2 which [106] 1/23 4/23	wholly [1] 144/25 whom [6] 59/14 73/5
108/11         108/13         108/13         108/13         108/12         108/13         108/22         108/14         108/22         108/14         108/22         108/14         108/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         109/23         20/16         25/23         20/14         24/14         29/23         20/17         28/25         23/21         65/15         65/15         66/16         69/23         21/25         21/25         26/25	91/10 91/24 94/10 94/17 94/23 95/10	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20	week [3] 111/13 115/3 134/10 weekend [1] 182/24	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13
109/1 109/23 109/23       33/12 70/22 12/20       weigned [1] 97/3       22/16 2/2/24 /1/4       29/2 30/14 34/3 37/5       140/19 162/17         110/24 112/25 113/19       123/10 123/14 171/3       weigned [1] 157/24       28/23 31/12 32/13       38/11 43/15 44/5       why [8] 36/25 38/4         110/24 112/25 113/19       vielomed [1] 157/24       28/23 31/12 32/13       38/11 43/15 44/5       why [8] 36/25 38/4         115/5 115/14 116/19       14/8 20/10 30/20       39/20 40/13 42/13       41/5 43/17 45/17       49/14 50/4 50/5 52/19       140/25 108/3 109/4         115/5 115/14 116/19       32/25 65/12 65/15       48/12 53/19 66/3       47/17 48/34/19 191/1       53/35 4/15 56/12       wide [5] 101/17 32/11         119/13 120/10 120/12       71/13 37/27 77/13       109/10 123/15 125/22       58/25 59/8 59/12       67/4 70/1 72/67 72/17       widespread [4] 18/7         120/16 120/23 121/7       76/18 79/24 80/23       149/15 166/19 170/22       60/16 60/16 64/64/64       101/2 10/29 103/2       111/22 13/2/2         121/12 136/24       14/12 82/27       14/17 13/3 12/2 173/19       66/16 56/16 72/20       101/2 10/29 103/2       111/22 13/2/3       14/2 8/2/2         121/12 136/24       149/15       14/14 12/1 18/4       14/14 12/1 18/4       14/14 12/1 18/4       101/5 10/17 07/17       102/2 10/8 3/15 44/5       111/22 11/2 11/2       111/2 21/2 2	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8
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110/24 112/25 113/19       Von Willebrand's [21]       Weil [23]       2/2 / 21/2 5       33/2 3/8 3/8 4/9       45/2 5/05 4/05 4/12 4/11       74/16 9/6/2 104/15         115/5 115/14 116/19       14/8 20/10 30/20       39/20 40/13 42/13       41/5 43/17 45/17       49/14 50/4 50/5 52/19       104/25 108/3 109/4         115/5 115/14 116/19       32/25 65/12 65/12 65/12       65/15 67/12 07/18       66/18 69/23 72/3 78/6       52/3 54/9 54/15 55/3       58/25 64/9 66/2 66/12       37/12 37/24 46/18         119/13 120/10 120/12       120/16 120/23 121/7       75/13 37/7 77/13       79/11 92/23 107/7       58/25 59/8 59/12       67/4 70/1 72/6 72/17       wide [5] 10/17 32/11         111/22 11/5 121/20       75/13 77/7 77/13       79/11 92/23 107/7       58/25 59/8 59/12       60/16 60/17 64/4 64/7       77/11 97/13 97/23       widespread [4] 18/7       111/22 135/25         12/2/2 12/21 20/22       12/21 20/22       83/17 11       71/13 77/23       78/18 79/24 80/23       149/15 166/19 170/22       60/16 60/17 64/4 64/7       77/11 97/13 97/23       widespread [4] 18/7       111/22 135/25       widespread [4] 18/7       111/2 13/2       widespread [4] 18/7       111/2 13/2       weit [1] 13/2       84/18 43/7 84/15 86/12       106/3 107/8 107/13       2/12 2/16 2/18 3/1 5/6         12/2/2 140/21       14/2/2       14/2/2       14/2/2       14/2/2       13/2 3/2 3/23	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6]	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6
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113/17       111/17/17       111/17       111/17 <td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20</td> <td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3</td> <td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24</td> <td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13</td> <td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5</td> <td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4</td>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4
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116/11 116/13 119/12       71/13 73/24 74/3       79/11 92/23 107/7       58/25 59/8 59/12       67/4 70/1 72/6 72/17       widely [3] 54/10         120/16 120/12 312/17       75/13 77/7 77/13       109/10 123/15 125/22       59/22 59/23 60/3       78/6 80/6 86/16 92/13       111/22 135/25         121/8 121/15 121/20       121/15 122/22 126/22       78/18 79/24 80/23       149/15 166/19 170/22       60/16 60/17 64/4 64/7       97/11 97/13 97/23       widespread [4] 18/7         121/25 122/22 126/22       121/25 122/22 126/22       111/22 135/25       149/15 166/19 170/22       60/16 60/17 64/4 64/7       97/11 97/13 97/23       widespread [4] 18/7         137/6 139/22 140/11       146/22 146/25       149/15 166/19 170/22       60/16 60/17 64/4 64/7       97/11 97/13 97/23       widespread [4] 18/7         144/19 146/4 146/20       146/22 146/25 149/24       181/14 181/21 183/4       75/6 75/22 77/10 78/7       103/9 104/6 104/17       will [77] 1/5 1/16 2/3         146/22 146/25 149/22       181/14 181/21 183/4       18/3 183/15 89/4 89/8       107/22 108/6 112/3       8/21 8/24 9/1 13/14         146/22 146/25 149/24       146/11 16/15 13/5       99/19 99/21 99/23 100/2       115/1 116/15 116/19       52/15 53/9 54/5 54/24         150/1 150/11 150/14       138/12 189/2       13/8 81/2 89/8       100/15 102/15 103/4       116/22 118/19 119/14       55/3 58/6 58/7 59/4 <td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19</td> <td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20</td> <td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13</td> <td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17</td> <td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19</td> <td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4</td>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4
119/13       120/10       120/12       17/13       73/24       74/3       79/11       92/25       109/17       53/25       59/25	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 weli [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11
120/16       120/23       121/7       76/15       7/17/17       109/10       122/15       152/22       39/22       39/22       39/22       30/3       76/6       60/6       60/16       92/11       111/22       133/25         121/15       121/25       122/22       126/22       149/15       166/19       70/22       60/16       60/17       64/17       97/11       97/13       97/23       148/29       132/22       131/12       132/22       131/12       132/22       131/12       132/22       131/12       132/22       131/12       132/22       131/12       132/22       101/2       102/9       103/2       132/22       131/12       132/22       131/12       132/2       131/12	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 weli [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18
121/8       121/15       121/2 <t< td=""><td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12</td><td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3</td><td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7</td><td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12</td><td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17</td><td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10</td></t<>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10
121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11       81/12 82/25 83/17 vW [1] 59/14       171/13 17/25 173/19 181/14 181/21 183/4       68/15 68/16 7/2/20 75/6 75/22 77/10 78/7       103/9 104/6 104/17 103/9 104/6 104/17       will [77] 1/5 1/6 2/3 vill [77] 1/5 1/6 2/3         137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8       W       111/1 117/2 Waite [1] 145/12       84/1 84/7 84/15 86/12 106/3 107/8 107/13       103/9 104/6 104/17       will [77] 1/5 1/6 2/3         14/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8       111/2       111/2       84/1 84/7 84/15 86/12       106/3 107/8 107/13       2/12 2/16 2/18 3/1 5/6         150/1 150/11 153/8 159/17 167/3 169/10       wait [1] 187/12       were [13] 3/2 3/23       90/16 94/15 97/11       112/6 112/19 113/9       18/12 18/22 22/16         170/13 188/12 189/2       Walford [2] 93/8 93/8       16/6 16/13 16/18       101/5 102/15 103/4       116/22 118/19 119/14       55/3 58/6 58/7 59/4         170/13 188/12 189/2       Walford [2] 93/8 93/8       16/6 16/13 16/18       101/5 102/15 103/4       116/22 118/19 119/14       55/3 58/6 58/7 59/4         18/23 162/18 165/5       Wall [7] 25/24 28/22       21/8 27/19 27/25       103/3 130/13 131/8       124/4 12/146/11       96/2 96/7 97/16 97/16         18/23 162/18 165/5       166/1 166/5 1777/25       Walford [2] 76/4 106/2       31/5 32/19 33/10       130/3 130/13 131/8	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25
128/12 131/12 136/24       VW [1] 59/14       181/14 181/21 183/4       73/6 73/22 77/10 78/7       103/9 104/6 104/17       Will [7] 1/5 1/16 2/3         137/6 139/22 140/11       140/20 143/18 143/25       183/14 181/21 183/4       138/14 181/21 183/4       106/3 107/8 107/13       2/12 2/16 2/18 3/1 5/6         144/19 146/4 146/20       146/22 146/25 149/22       115/1 116/25 149/22       115/1 116/14       8/13 88/15 89/4 89/8       107/22 108/6 112/3       8/21 8/24 9/1 13/14         150/1 150/11 153/8       159/17 167/3 169/10       115/1 116/11       111/5 13/5       99/21 99/23 100/2       115/1 116/15 116/19       52/15 53/9 54/5 54/24         159/17 167/3 169/10       170/13 188/12 189/2       Wallace [1] 39/17       17/23 20/3 20/20 21/1       103/6 103/21 106/20       120/4 120/5 121/23       59/5 59/22 60/21         189/3       Vill: [1] 66/21       want [7] 25/24 28/22       21/10 22/5 22/10 24/8       109/1 109/17 109/19       125/22 127/9 128/10       61/16 61/21 61/23         121/16 134/12 148/12       148/23 162/18 165/5       166/1 166/5 177/25       21/12 21/14 10/2       31/5 32/19 33/10       130/3 130/13 131/8       144/8 144/12 146/11       96/2 96/7 97/16 97/16         148/23 162/18 165/5       166/1 166/5 177/25       11/1 11/4       38/18 41/17 44/5 45/4       137/22 151/1 152/14       155/14 156/24 157/6       102/21 104/19 104/24	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7
12012 13776 139/22 140/11       183/12       84/1 84/7 84/15 86/12       106/3 107/8 107/13       2/12 2/16 2/18 3/1 5/6         140/20 143/18 143/25       wait [1] 117/2       went [1] 13/2       88/13 88/15 89/4 89/8       107/22 108/6 112/3       8/21 8/24 9/1 13/14         146/22 146/25 149/22       146/22 146/25 149/22       146/22 146/25 149/22       111/1 11/2       112/6 112/19 113/9       18/12 18/22 22/16         150/1 150/11 153/8       159/17 167/3 169/10       17/23 20/3 20/20 21/1       97/18 98/13 99/13       113/19 114/2 114/7       32/14 42/19 47/24         170/13 188/12 189/2       Waifer [1] 39/17       17/23 20/3 20/20 21/1       103/6 103/21 106/20       120/4 120/5 121/23       59/5 59/22 60/21         189/3       want [7] 25/24 28/22       21/20 22/5 22/10 24/8       109/1 109/17 109/19       125/22 127/9 128/10       61/16 61/21 61/23         170/13 188/12 189/2       17/8/4       27/25 30/6 30/22 31/3       123/20 125/3 125/19       138/23 139/5 140/2       59/5 59/22 60/21         17/14 134/12 148/12       148/23 162/18 165/5       16/6 1 106/2       131/5 32/19 33/10       130/3 130/13 131/8       144/8 144/12 146/11       96/2 96/7 97/16 97/16         148/23 162/18 165/5       166/1 166/5 1777/25       111/1 11/4       38/18 41/17 44/5 45/4       137/22 151/1 152/14       155/14 156/24 157/6       102/21 104/19 104/24	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7
W       went [1]       13/2       88/13       88/15       89/4       99/8       107/22       107/22       108/12/3       82/18/24       9/1       13/14         140/20       143/18       143/25       wait [1]       117/2       113/2       88/13       88/13       88/15       89/4       89/8       107/22       108/6       112/3       8/21       8/24       9/1       13/14         140/20       143/18       146/2       146/22       146/25       149/22       146/25       149/22       14/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       10/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2       11/2 <td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22</td> <td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17</td> <td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19</td> <td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20</td> <td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2</td> <td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25</td>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 <b>von Willebrand [6]</b> 33/12 78/22 122/20 123/10 123/14 171/3 <b>von Willebrand's [21]</b> 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25
140/20 143/16 143/25       wait [1] 117/2       were [133] 3/2 3/23       90/16 94/15 97/11       112/6 112/19 113/9       18/12 18/22 22/16         144/19 146/4 146/20       Waiter [1] 145/12       Waiter [1] 145/12       4/4 4/10 4/13 5/10       97/18 98/13 99/13       113/19 114/2 114/7       32/14 42/19 47/24         150/1 150/11 153/8       159/17 167/3 169/10       Walford [2] 93/8 93/8       16/6 16/13 16/18       101/5 102/15 103/4       116/22 118/19 119/14       55/3 58/6 58/7 59/4         189/3       Wallace [1] 39/17       17/23 20/3 20/20 21/1       103/6 103/21 106/20       120/4 120/5 121/23       59/5 59/22 60/21         189/3       want [7] 25/24 28/22       21/20 22/5 22/10 24/8       109/1 109/17 109/19       125/22 127/9 128/10       61/16 61/25 61/25 61/25         18/2       13/4 2 148/12       52/2 64/6 92/21 97/19       27/8 27/19 27/25       111/6 117/2 119/14       132/6 137/15 137/15       61/25 74/1 75/11         178/4       27/25 30/6 30/22 31/3       123/20 125/3 125/19       138/23 139/5 140/2       75/13 81/3 88/20 95/9         148/23 162/18 165/5       166/1 166/5 177/25       16/21 11/1 11/4       36/21 37/5 38/17       137/22 151/1 152/14       155/14 156/24 157/6       102/21 104/19 104/24         100/15 101/1 101/16       38/18 41/17 44/5 45/4       171/25 172/11 178/8       157/13 158/10 159/10       110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25
144/19       146/21       146/20       Waiter [1]       145/12       4/4       4/10       4/13       5/10       97/18       98/13       99/13       113/19       113/19       114/17       32/14       42/19       47/24         146/22       146/25       149/22       146/25       149/22       146/25       149/22       146/25       149/22       146/25       146/25       149/22       142/19       4/4       4/10       4/13       5/10       97/18       98/13       99/13       113/19       114/17       32/14       42/19       47/24         150/1       150/11       150/11       150/11       150/11       150/11       150/11       150/11       150/11       150/11       150/11       16/6       16/13       16/18       101/5       102/15       103/4       116/22       118/19       19/14       55/3       58/6       58/7       59/4       59/5       59/22       60/21       120/4       120/2       120/4       120/5       121/23       59/5       59/22       60/21       59/5       59/22       60/21       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79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12</td> <td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12</td> <td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13</td> <td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 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172/5 173/19 181/14 181/21 183/4 183/12	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6
146/22 146/25 149/22       Wales [1] 187/12       5/12 6/11 10/5 13/5       99/21 99/23 100/2       115/1 116/15 116/19       52/15 53/9 54/5 54/24         159/17 167/3 169/10       Walford [2] 93/8 93/8       16/6 16/13 16/18       101/5 102/15 103/4       116/2 118/19 119/14       55/3 58/6 58/7 59/4         189/3       Wallace [1] 39/17       17/23 20/3 20/20 21/1       103/6 103/21 106/20       120/4 120/5 121/23       59/5 59/22 60/21         189/3       want [7] 25/24 28/22       21/20 22/5 22/10 24/8       109/1 109/17 109/19       125/22 127/9 128/10       61/16 61/21 61/23         viral [17] 30/4 39/3       178/4       27/25 30/6 30/22 31/3       123/20 125/3 125/19       138/23 139/5 140/2       75/13 81/3 88/20 95/9         121/16 134/12 148/12       wants [1] 87/19       33/12 33/23 36/18       132/20 134/18 135/19       144/8 144/12 146/11       96/2 96/7 97/16 97/16         146/1 166/5 177/25       11/1 11/4       38/18 41/17 44/5 45/4       171/25 172/11 178/8       155/14 156/24 157/6       102/21 104/19 104/24         110/18 111/2 111/3       38/18 41/17 44/5 45/4       171/25 172/11 178/8       157/13 158/10 159/10       110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14
150/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1       120/2       120/2       120/2       120/2       120/2       120/2       120/2       120/2       120/2       120/2       120/2       120/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1       100/1 <td< td=""><td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25</td><td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2</td><td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23</td><td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11</td><td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9</td><td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16</td></td<>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16
159/17 167/3 169/10       Walking [2] 93/8 93/8       16/6 16/13 16/18       10/15 102/15 103/4       116/22 118/19 119/14       55/3 58/6 58/7 59/4         170/13 188/12 189/2       Walking [1] 39/17       17/23 20/3 20/20 21/1       103/6 103/21 106/20       120/4 120/5 121/23       59/5 59/22 60/21         189/3       VIII: [1] 66/21       viral [17] 30/4 39/3       21/20 22/5 22/10 24/8       109/1 109/17 109/19       125/22 127/9 128/10       61/16 61/21 61/23         121/16 134/12 148/12       178/4       27/25 30/6 30/22 31/3       123/20 125/3 125/19       138/23 139/5 140/2       75/13 81/3 88/20 95/9         148/23 162/18 165/5       166/1 166/5 177/25       31/5 32/19 33/10       130/3 130/13 131/8       144/8 144/12 146/11       96/2 96/7 97/16 97/16         148/23 162/18 165/5       166/1 177/25       36/21 37/5 38/17       137/22 151/1 152/14       155/14 156/24 157/6       100/15 101/1 101/16         166/1 166/5 177/25       38/18 41/17 44/5 45/4       171/25 172/11 178/8       157/13 158/10 159/10       110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24
170/13 188/12 189/2 189/3       Walkace [1] 39/17       17/23 20/3 20/20 21/1       103/6 103/21 106/20       120/4 120/5 121/23       59/5 59/22 60/21         189/3       want [7] 25/24 28/22       21/20 22/5 22/10 24/8       109/1 109/17 109/19       125/22 127/9 128/10       61/16 61/21 61/23         VIII: [1] 66/21       52/2 64/6 92/21 97/19       27/8 27/19 27/25       111/6 117/2 119/14       132/6 137/15 137/15       61/25 74/1 75/11         121/16 134/12 148/12       178/4       27/25 30/6 30/22 31/3       123/20 125/3 125/19       138/23 139/5 140/2       75/13 81/3 88/20 95/9         121/16 134/12 148/12       wante [1] 87/19       33/12 33/23 36/18       132/20 134/18 135/19       144/8 144/12 146/11       96/2 96/7 97/16 97/16         148/23 162/18 165/5       166/1 166/5 177/25       36/21 37/5 38/17       137/22 151/1 152/14       155/14 156/24 157/6       100/15 101/1 101/16         106/1 166/5 177/25       ward [2] 11/1 11/4       38/18 41/17 44/5 45/4       171/25 172/11 178/8       157/13 158/10 159/10       110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Wales [1] 187/12	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24
189/3       Want [7] 25/24 26/22       21/20 22/3 22/10 24/8       109/1 109/17 109/17 109/19       125/22 12/19 128/10       61/16 61/21 61/23         VIII: [1] 66/21       52/2 64/6 92/21 97/19       27/8 27/19 27/25       111/6 117/2 119/14       132/6 137/15 137/15       61/25 74/1 75/11         viral [17] 30/4 39/3       178/4       27/25 30/6 30/22 31/3       123/20 125/3 125/19       138/23 139/5 140/2       76/3 88/20 95/9         121/16 134/12 148/12       wante [2] 76/4 106/2       31/5 32/19 33/10       130/3 130/13 131/8       144/8 144/12 146/11       96/2 96/7 97/16 97/16         148/23 162/18 165/5       166/1 166/5 177/25       111/1 11/2       33/12 33/23 36/18       132/20 134/18 135/19       149/3 149/6 155/11       100/15 101/1 101/16         Wart [1] 172/8       36/21 37/5 38/17       137/22 151/1 152/14       155/14 156/24 157/6       102/21 104/19 104/24         ward [2] 11/1 11/4       38/18 41/17 44/5 45/4       171/25 172/11 178/8       157/13 158/10 159/10       110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Wales [1] 187/12 Walford [2] 93/8 93/8	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24
189/3 VIII: [1]         52/2         64/6         92/21         97/19         27/8         27/19         27/25         111/6         117/2         119/14         132/6         137/15         61/25         61/25         74/1         75/13         81/3         88/20         95/9         95/9         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         96/2         96/7         97/16         97/16         96/2         96/7         97/16         97/16         96/2         96/7         97/16         97/16         97/16         96/2         96/7         97/16         97/16         96/2         96/7         97/16         97/16         97/16         96/2         96/7         97/16 <th< td=""><td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10</td><td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Walter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17</td><td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18</td><td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4</td><td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14</td><td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24</td></th<>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Walter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24
Viii:         11         66/21         178/4         27/25         30/6         30/22         31/3         123/20         125/3         123/20         138/23         139/5         140/2         75/13         81/3         88/20         95/9         96/2 <td>91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2</td> <td>77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Walter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17</td> <td>week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1</td> <td>West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20</td> <td>178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 53/3 54/15 56/12 53/2 56/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23</td> <td>wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21</td>	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Walter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 53/3 54/15 56/12 53/2 56/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21
Viral [17]         30/4         39/3           121/16         134/12         148/12         148/12         148/12         144/8         144/12         146/11         96/2         96/7         97/16         97/16           148/23         162/18         165/5         166/1         166/5         177/25         36/12         33/12         33/12         33/12         38/18         132/20         134/18         135/19         149/3         149/6         155/11         100/15         101/1         101/16           166/1         166/5         1777/25         War [1]         172/8         36/21         37/5         38/17         137/22         151/1         155/14         156/24         157/6         102/21         104/19         104/24           166/1         166/5         1777/25         Wart [2]         11/1         11/4         38/18         41/17         44/5         45/4         171/25         172/11         178/8         157/13         158/10         159/10         110/18         111/2         111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Walse [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23
121/16       134/12       148/12       wants [1]       87/19         148/23       162/18       165/5       165/5       166/1       166/5       177/25       17/2       17/2       100/15       101/1       101/16         148/23       166/1       166/5       177/25       17/2       17/2       13/12       33/12       33/23       36/18       132/20       134/18       135/19       149/3       149/6       155/11       100/15       101/1       101/16         166/1       166/5       177/25       War [1]       172/8       36/21       37/5       38/17       137/22       151/1       155/14       156/24       157/6       102/21       104/19       104/24         38/18       41/17       44/5       45/4       171/25       172/11       178/8       157/13       158/10       159/10       110/18       111/2       111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 <b>VIII: [1]</b> 66/21	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11
148/23         165/5         War [1]         172/8         36/21         37/5         38/17         137/22         151/1         155/14         156/24         157/6         102/21         104/19         104/24           166/1         166/5         177/25         ward [2]         11/1         11/4         38/18         41/17         44/5         45/4         171/25         172/11         178/8         157/13         158/10         159/10         110/18         111/2         111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 VIII: [1] 66/21 viral [17] 30/4 39/3	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 145/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19 178/4	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25 27/25 30/6 30/22 31/3	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14 123/20 125/3 125/19	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15 138/23 139/5 140/2	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11 75/13 81/3 88/20 95/9
166/1 166/5 177/25       ward [2] 11/1 11/4       36/21 37/5 36/17       137/22 151/1 152/14       155/14 156/24 157/6       102/21 104/19 104/24         166/1 166/5 177/25       ward [2] 11/1 11/4       38/18 41/17 44/5 45/4       171/25 172/11 178/8       157/13 158/10 159/10       110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 VIII: [1] 66/21 viral [17] 30/4 39/3	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 145/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19 178/4 wanted [2] 76/4 106/2	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25 27/25 30/6 30/22 31/3 31/5 32/19 33/10	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14 123/20 125/3 125/19 130/3 130/13 131/8	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15 138/23 139/5 140/2 144/8 144/12 146/11	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11 75/13 81/3 88/20 95/9 96/2 96/7 97/16 97/16
ward [z] 11/1 11/4 38/18 41/17 44/5 45/4 171/25 172/11 178/8 157/13 158/10 159/10 110/18 111/2 111/3	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 <b>VIII: [1]</b> 66/21 <b>viral [17]</b> 30/4 39/3 121/16 134/12 148/12	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 145/12 Waiter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19 178/4 wanted [2] 76/4 106/2 wants [1] 87/19	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 were [133] 3/2 3/23 4/4 4/10 4/13 5/10 5/12 6/11 10/5 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25 27/25 30/6 30/22 31/3 31/5 32/19 33/10 33/12 33/23 36/18	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14 123/20 125/3 125/19 130/3 130/13 131/8 132/20 134/18 135/19	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15 138/23 139/5 140/2 144/8 144/12 146/11 149/3 149/6 155/11	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 52/15 53/9 54/5 54/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11 75/13 81/3 88/20 95/9 96/2 96/7 97/16 97/16 100/15 101/1 101/16
	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 <b>VIII: [1]</b> 66/21 <b>viral [17]</b> 30/4 39/3 121/16 134/12 148/12 148/23 162/18 165/5	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 145/12 Waiter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19 178/4 wanted [2] 76/4 106/2 wants [1] 87/19 War [1] 172/8	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25 27/25 30/6 30/22 31/3 31/5 32/19 33/10 33/12 33/23 36/18 36/21 37/5 38/17	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14 123/20 125/3 125/19 130/3 130/13 131/8 132/20 134/18 135/19	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15 138/23 139/5 140/2 144/8 144/12 146/11 149/3 149/6 155/11 155/14 156/24 157/6	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11 75/13 81/3 88/20 95/9 96/2 96/7 97/16 97/16 100/15 101/1 101/16 102/21 104/19 104/24
	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 <b>VIII: [1]</b> 66/21 <b>viral [17]</b> 30/4 39/3 121/16 134/12 148/12 148/23 162/18 165/5	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 145/12 Waiter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19 178/4 wanted [2] 76/4 106/2 wants [1] 87/19 War [1] 172/8	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25 27/25 30/6 30/22 31/3 31/5 32/19 33/10 33/12 33/23 36/18 36/21 37/5 38/17	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14 123/20 125/3 125/19 130/3 130/13 131/8 132/20 134/18 135/19	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15 138/23 139/5 140/2 144/8 144/12 146/11 149/3 149/6 155/11 155/14 156/24 157/6	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11 75/13 81/3 88/20 95/9 96/2 96/7 97/16 97/16 100/15 101/1 101/16 102/21 104/19 104/24
	91/10 91/24 94/10 94/17 94/23 95/10 96/3 96/7 96/11 98/23 103/24 107/20 107/22 108/11 108/13 108/24 109/1 109/23 109/23 110/13 110/15 110/20 110/24 112/25 113/19 115/5 115/14 116/19 117/17 117/24 118/8 118/11 118/13 119/12 119/13 120/10 120/12 120/16 120/23 121/7 121/8 121/15 121/20 121/25 122/22 126/22 128/12 131/12 136/24 137/6 139/22 140/11 140/20 143/18 143/25 144/19 146/4 146/20 146/22 146/25 149/22 150/1 150/11 153/8 159/17 167/3 169/10 170/13 188/12 189/2 189/3 <b>VIII: [1]</b> 66/21 <b>viral [17]</b> 30/4 39/3 121/16 134/12 148/12 148/23 162/18 165/5	77/13 78/18 78/22 79/24 80/23 81/12 82/25 83/17 122/20 123/10 123/14 171/3 von Willebrand [6] 33/12 78/22 122/20 123/10 123/14 171/3 von Willebrand's [21] 14/8 20/10 30/20 32/25 65/12 65/15 65/18 67/20 71/8 71/13 73/24 74/3 75/13 77/7 77/13 78/18 79/24 80/23 81/12 82/25 83/17 vW [1] 59/14 W wait [1] 117/2 Waiter [1] 145/12 Waiter [1] 145/12 Waiter [1] 187/12 Walford [2] 93/8 93/8 Wallace [1] 39/17 want [7] 25/24 28/22 52/2 64/6 92/21 97/19 178/4 wanted [2] 76/4 106/2 wants [1] 87/19 War [1] 172/8	week [3] 111/13 115/3 134/10 weekend [1] 182/24 weeks [3] 30/9 35/24 61/3 weighted [1] 95/3 welcomed [1] 157/24 well [28] 2/4 21/25 39/20 40/13 42/13 48/12 53/19 66/3 66/18 69/23 72/3 78/6 79/11 92/23 107/7 109/10 123/15 125/22 149/15 166/19 170/22 171/13 172/5 173/19 181/14 181/21 183/4 183/12 went [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/2 wert [1] 13/5 16/6 16/13 16/18 17/23 20/3 20/20 21/1 21/20 22/5 22/10 24/8 27/8 27/19 27/25 27/25 30/6 30/22 31/3 31/5 32/19 33/10 33/12 33/23 36/18 36/21 37/5 38/17	West [1] 14/15 Western [1] 14/17 what [98] 1/9 1/15 5/15 12/2 15/1 16/5 16/25 19/7 19/22 20/8 22/16 25/24 27/14 28/23 31/12 32/13 33/21 35/18 39/8 40/9 41/5 43/17 45/17 47/17 48/5 49/19 51/1 52/3 54/9 54/15 55/3 58/25 59/8 59/12 59/22 59/23 60/3 60/16 60/17 64/4 64/7 68/15 68/16 72/20 75/6 75/22 77/10 78/7 84/1 84/7 84/15 86/12 88/13 88/15 89/4 89/8 90/16 94/15 97/11 97/18 98/13 99/13 99/21 99/23 100/2 101/5 102/15 103/4 103/6 103/21 106/20 109/1 109/17 109/19 111/6 117/2 119/14 123/20 125/3 125/19 130/3 130/13 131/8 132/20 134/18 135/19	178/2 which [106] 1/23 4/23 6/10 7/1 9/8 9/8 13/17 17/8 17/8 17/11 17/13 17/25 20/3 25/16 27/9 29/2 30/14 34/3 37/5 38/11 43/15 44/5 45/25 46/5 47/2 49/11 49/14 50/4 50/5 52/19 53/3 54/15 56/12 58/25 64/9 66/2 66/12 67/4 70/1 72/6 72/17 78/6 80/6 86/16 92/13 97/11 97/13 97/23 101/2 102/9 103/2 103/9 104/6 104/17 106/3 107/8 107/13 107/22 108/6 112/3 112/6 112/19 113/9 113/19 114/2 114/7 115/1 116/15 116/19 116/22 118/19 119/14 120/4 120/5 121/23 125/22 127/9 128/10 132/6 137/15 137/15 138/23 139/5 140/2 144/8 144/12 146/11 149/3 149/6 155/11 155/14 156/24 157/6	wholly [1] 144/25 whom [6] 59/14 73/5 82/13 104/3 104/13 115/8 whose [4] 1/18 121/6 140/19 162/17 why [8] 36/25 38/4 74/16 96/2 104/15 104/25 108/3 109/4 wide [5] 10/17 32/11 37/12 37/24 46/18 widely [3] 54/10 111/22 135/25 widespread [4] 18/7 18/22 92/1 117/25 will [77] 1/5 1/16 2/3 2/12 2/16 2/18 3/1 5/6 8/21 8/24 9/1 13/14 18/12 18/22 22/16 32/14 42/19 47/24 55/3 58/6 58/7 59/4 59/5 59/22 60/21 61/16 61/21 61/23 61/25 74/1 75/11 75/13 81/3 88/20 95/9 96/2 96/7 97/16 97/16 100/15 101/1 101/16 102/21 104/19 104/24

(76) Vienna - will

					,
w	187/2	41/6 44/23 45/1 45/3	year: [5] 66/7 66/10	73/15 74/1 75/11	
	WITN4569001 [3]	45/19 45/23 47/16	70/6 70/22 75/17	75/13 84/9 87/23	
will [25] 111/13	21/18 26/3 134/20	49/12 49/22 50/13	year: 4 [2] 66/10	87/25 88/2 88/4 88/6	
111/19 112/1 112/10	witness [19] 1/15 2/2	50/15 50/18 54/22	75/17	88/10 88/24 91/16	
	1/1 22/16 22/19 21/19	55/6 59/6 59/12 59/20	year: 51 [1] 66/7	92/8 92/21 99/23	
116/19 116/20 116/25	34/5 41/9 41/13 44/9	60/17 62/15 62/16	year: 557,655 [1]	100/15 102/1 104/4	
128/6 130/14 136/5	47/6 57/17 99/13	63/20 65/8 66/23 67/4	70/22	104/24 105/1 106/3	
136/11 151/1 151/7	130/8 178/9 179/23	72/15 74/15 75/8	year: 63 [1] 70/6	107/21 107/22 108/10	
153/12 154/20 164/3	183/7 186/19 187/2	86/11 87/6 92/3 96/24		109/10 109/11 111/21	
171/16 171/23 178/1	witnesses [1] 160/1	102/16 102/22 104/10	12/15 15/6 20/23	112/10 112/22 115/2	
180/20 181/25 182/1	won't [10] 2/22 10/2	111/6 111/21 112/5	21/17 29/10 31/1	117/15 117/18 119/7	
Willebrand [6] 33/12	15/8 19/14 69/11 72/5	112/7 112/21 114/12	31/10 42/18 44/6 46/6	119/25 124/4 125/10	
78/22 122/20 123/10	76/24 148/8 165/6	115/9 115/24 116/11	46/23 59/1 65/20	128/6 128/23 130/14	
123/14 171/3	176/13	116/19 117/22 117/23	72/22 77/18 86/14	131/9 136/5 139/18	
Willebrand's [21] 14/8	wonder [1] 108/2	118/12 118/19 119/7	92/17 92/19 118/17	143/4 143/10 143/11	
20/10 30/20 32/25	word [7] 1/7 75/22	119/11 120/4 120/5	126/23 132/20 134/7	154/20 156/13 168/24	
65/12 65/15 65/18	88/16 88/22 164/10	128/15 129/8 129/21	137/1 137/13 148/13	171/16 171/16 171/22	
67/20 71/8 71/13	164/14 174/24	131/21 132/23 135/1	159/12 161/2 161/5	176/2 178/1 178/2	
73/24 74/3 75/13 77/7	wording [1] 85/15	135/1 135/4 136/25	165/17 172/6 179/20	180/6 180/20 181/6	
77/13 78/18 79/24	words [5] 89/5 125/10		185/6 187/6 188/13	181/22 182/1 186/14	
80/23 81/12 82/25	125/14 143/5 185/22	140/7 143/2 143/11	years' [1] 161/11	189/19	
83/17	work [13] 1/22 12/23	144/21 147/11 148/5		you may [1] 16/23	
Williams [9] 58/4 60/8	16/9 18/17 95/19	152/12 153/13 155/11		you'll [13] 5/2 7/7	
60/12 61/4 62/4 62/10	101/4 133/11 149/3	155/12 156/14 156/24	17/10 19/8 19/16	27/3 54/3 57/16 68/15	
70/17 74/20 92/11	153/2 166/13 168/12	157/7 157/12 159/21	19/16 19/25 20/19	73/2 78/23 85/17	
Williams' [2] 60/3	168/16 175/24	161/10 167/13 169/8	20/24 31/12 31/13	85/20 153/10 171/10	
75/6	workability [1] 119/1	169/10 176/3 177/22	40/20 40/25 41/2	186/4	
willing [1] 157/7	worked [6] 22/25	179/11 188/4		you're [3] 48/1 89/7	
wise [1] 91/24	24/12 24/19 24/22	write [3] 5/24 150/8	50/8 51/13 51/14 63/2	107/3	
wish [4] 49/1 102/11	24/23 25/5	156/21		you've [1] 2/14	
143/10 156/13	worker [4] 13/8 18/6	write-up [1] 150/8		young [2] 42/5 45/16	
wished [2] 92/18 156/20	18/10 19/2	writes [1] 60/20		younger [1] 22/11	
	workers [3] 13/1	writing [6] 8/3 60/12		your [8] 8/12 19/7	
with [247] within [19] 3/7 18/8	162/4 172/6	61/4 84/15 102/12	90/10 99/19 100/2	61/21 62/1 102/12	
18/12 31/1 31/10	working [29] 19/20	102/23	100/10 100/14 105/14	108/10 133/11 135/5	
32/12 33/20 34/18	125/11 137/24 151/23	writing's [1] 88/18	105/14 109/12 109/22	Z	
46/2 46/7 46/15 95/2	152/9 152/20 152/22	written [8] 2/4 6/19	109/25 110/5 112/17		
108/1 114/17 122/6	152/24 153/2 153/7	47/20 77/10 117/10	112/21 113/14 114/15		
125/7 168/7 177/13	156/4 156/17 156/23	133/20 134/1 136/19	117/3 117/9 120/14	113/22 114/13	
183/17	157/1 157/7 157/12	wrong [2] 67/2 78/12		zero [1] 97/16	
without [3] 12/10	158/7 158/8 158/10	wrote [4] 62/4 115/1	125/22 130/10 135/18	zoom [2] 65/22 73/15	
122/25 179/7	160/24 161/1 161/23	186/6 186/20	136/15 149/10 149/12		
WITN0198002 [1]	163/2 163/5 163/7	wrote to [1] 62/4	155/20 164/17 168/14		
188/21	175/16 175/25 176/9		173/22 174/1 174/13		
		Y			
WIINU/36003111	181/13	X	179/17 179/25 180/2		
WITN0736001 [1] 180/10	181/13 World [5] 23/13 170/8	<b>XI [1]</b> 14/10	179/17 179/25 180/2 180/4 181/1 181/2		
180/10	181/13 World [5] 23/13 170/8 170/10 171/14 172/8		179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11		
180/10 WITN0736005 [1]	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8	<b>XI [1]</b> 14/10 <b>XIII [1]</b> 14/9	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2		
180/10 WITN0736005 [1] 62/23	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9	XI [1] 14/10 XIII [1] 14/9 Y	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3]	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13	XI [1] 14/10 XIII [1] 14/9 Y year [38] 13/6 24/22	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 yet [6] 50/1 96/5		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11	XI [1] 14/10 XIII [1] 14/9 Y year [38] 13/6 24/22 39/22 50/14 52/18	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 yet [6] 50/1 96/5 103/20 110/16 144/18		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3]	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24	XI [1] 14/10 XIII [1] 14/9 Y year [38] 13/6 24/22 39/22 50/14 52/18 59/15 61/7 64/16	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12	XI [1] 14/10 XIII [1] 14/9 Y year [38] 13/6 24/22 39/22 50/14 52/18 59/15 61/7 64/16 64/19 66/12 67/22	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10 WITN0736009 [6] 34/6	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12 worthwhile [2] 115/4	XI [1]         14/10           XIII [1]         14/9           Y         year [38]         13/6 24/22           39/22         50/14         52/18           59/15         61/7         64/16           64/19         66/12         67/22           70/8         71/6         71/9         72/21	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12 2/18 4/15 8/24 9/25		
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180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10 WITN0736009 [6] 34/6 41/10 41/11 48/4 130/8 183/7 WITN0736010 [1]	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12 worthwhile [2] 115/4 118/9 would [110] 5/24 5/25 6/13 7/18 8/7 8/12	XI [1]         14/10           XIII [1]         14/9           Y         year [38]         13/6 24/22           39/22         50/14         52/18           59/15         61/7 64/16         64/19         66/12 67/22           70/8         71/6         71/9         72/21           73/23         73/25         74/8         74/19         77/14           79/16         80/3         81/25         82/4	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12 2/18 4/15 8/24 9/25 13/14 16/23 17/1 17/10 18/23 19/2 20/19 22/19 23/22		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10 WITN0736009 [6] 34/6 41/10 41/11 48/4 130/8 183/7 WITN0736010 [1] 17/14	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12 worthwhile [2] 115/4 118/9 would [110] 5/24 5/25 6/13 7/18 8/7 8/12 8/15 8/16 9/18 13/18	XI [1]         14/10           XIII [1]         14/9           Y         year [38]         13/6 24/22           39/22         50/14         52/18           59/15         61/7 64/16         64/19         66/12 67/22           70/8         71/6         71/9         72/21           73/23         73/25         74/8         74/19         77/14           79/16         80/3         81/25         82/4         86/10         95/3         95/25	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12 2/18 4/15 8/24 9/25 13/14 16/23 17/1 17/10 18/23 19/2 20/19 22/19 23/22 28/2 28/6 47/25 50/4		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10 WITN0736009 [6] 34/6 41/10 41/11 48/4 130/8 183/7 WITN0736010 [1] 17/14 WITN0736011 [2]	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12 worthwhile [2] 115/4 118/9 would [110] 5/24 5/25 6/13 7/18 8/7 8/12 8/15 8/16 9/18 13/18 14/3 16/15 18/17	XI [1]         14/10           XIII [1]         14/9           Y         year [38]         13/6 24/22           39/22         50/14         52/18           59/15         61/7 64/16         64/19         66/12         67/22           70/8         71/6         71/9         72/21         73/23         73/25         74/8           74/19         77/9         77/14         79/16         80/3         81/25         82/4           86/10         95/3         95/25         109/22         111/19         113/22	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12 2/18 4/15 8/24 9/25 13/14 16/23 17/1 17/10 18/23 19/2 20/19 22/19 23/22 28/2 28/6 47/25 50/4 51/15 53/18 53/21		
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180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10 WITN0736009 [6] 34/6 41/10 41/11 48/4 130/8 183/7 WITN0736010 [1] 17/14 WITN0736011 [2]	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12 worthwhile [2] 115/4 118/9 would [110] 5/24 5/25 6/13 7/18 8/7 8/12 8/15 8/16 9/18 13/18 14/3 16/15 18/17 19/13 22/2 22/15 26/13 26/18 26/24	XI [1]         14/10           XIII [1]         14/9           Y         year [38]         13/6 24/22           39/22         50/14 52/18         59/15 61/7 64/16           64/19         66/12 67/22         70/8 71/6 71/9 72/21           73/23         73/25 74/8         74/19 77/9 77/14           79/16         80/3 81/25 82/4         86/10 95/3 95/25           109/22         111/19 113/22         115/22         115/22           158/11         160/8 162/21         160/8         162/21	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12 2/18 4/15 8/24 9/25 13/14 16/23 17/1 17/10 18/23 19/2 20/19 22/19 23/22 28/2 28/6 47/25 50/4 51/15 53/18 53/21 54/5 54/24 58/6 61/1 61/6 61/8 61/25 62/16		
180/10 WITN0736005 [1] 62/23 WITN0736006 [3] 21/12 44/10 89/15 WITN0736007 [1] 178/10 WITN0736009 [6] 34/6 41/10 41/11 48/4 130/8 183/7 WITN0736010 [1] 17/14 WITN0736011 [2] 172/1 186/13 WITN2658002 [1] 54/2	181/13 World [5] 23/13 170/8 170/10 171/14 172/8 worldwide [2] 57/8 185/9 worried [1] 5/13 worry [2] 91/6 185/11 worse [1] 185/24 worth [1] 11/12 worthwhile [2] 115/4 118/9 would [110] 5/24 5/25 6/13 7/18 8/7 8/12 8/15 8/16 9/18 13/18 14/3 16/15 18/17 19/13 22/2 22/15	XI [1]         14/10           XIII [1]         14/9           Y         year [38]         13/6 24/22           39/22         50/14         52/18           59/15         61/7 64/16         64/19         66/12         67/22           70/8         71/6         71/9         72/21         73/23         73/25         74/8           74/19         77/9         77/14         79/16         80/3         81/25         82/4           86/10         95/3         95/25         109/22         111/19         113/22         115/22         119/3         126/23	179/17 179/25 180/2 180/4 181/1 181/2 181/4 181/6 182/11 182/11 186/1 186/2 186/14 186/16 189/19 <b>yet [6]</b> 50/1 96/5 103/20 110/16 144/18 149/1 <b>you [96]</b> 1/15 2/2 2/12 2/18 4/15 8/24 9/25 13/14 16/23 17/1 17/10 18/23 19/2 20/19 22/19 23/22 28/2 28/6 47/25 50/4 51/15 53/18 53/21 54/5 54/24 58/6 61/1		
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