### 24 September 2020

1	Thursday, 24 September 2020
2	(10.00 am)
3	SIR BRIAN LANGSTAFF: Yes, Ms Richards.
4	MS RICHARDS: Sir, I should explain for the benefit of
5	those who weren't here yesterday or who are watching
6	remotely, I am still part way through the presentation
7	on the knowledge of risk and we've reached April 1983.
8	That will probably take most of the rest of the
9	morning and then I will turn to the presentation in
10	relation to Professor Bloom and the Cardiff
11	Haemophilia Centre.
12	There won't be any shortening of what is going
13	to be presented in relation to Professor Bloom and
14	Cardiff. We won't finish it today but it will then
15	continue on next Wednesday.
16	So I just wanted to add that reassurance,
17	I understand that there are people watching from
18	Cardiff or from Wales who would obviously want to know
19	those timings.
20	SIR BRIAN LANGSTAFF: So we will start again after today
21	at 10.00 on Wednesday.
22	MS RICHARDS: With Professor Bloom, resuming with
23	SIR BRIAN LANGSTAFF: With the balance of the
24	presentation?
25	MS RICHARDS: Yes, and then we'll finish that on
	1

1	multiple transfusions and then becoming ill with
2	recurrent infections, in the summary.
3	If we could go, please, Henry, to page 3, just
4	a little bit further down thank you.
5	The concluding paragraph of the article reads
6	this:
7	"Although AIDS as a consequence of
8	a transmissible infectious agent cannot be definitely
9	proven in this patient, the evidence strongly suggests
10	such a possibility. Future prospective studies should
11	attempt to determine the incidence of AIDS in
12	transfused patients, especially newborn and premature
13	infants, immuno-suppressed in-patients and patients
14	receiving multiple blood products. As no diagnostic
15	test is available for AIDS, serious consideration
16	should be given to avoiding the use of blood products
17	obtained from individuals with the potential to
18	transmit AIDS. A disturbing observation in this
19	report is that the platelet donor was healthy and did
20	not become ill with AIDS until seven months after
21	donation."
22	SIR BRIAN LANGSTAFF: Now this is the San Francisco baby?
23	MS RICHARDS: Yes, in all likelihood.
24	SIR BRIAN LANGSTAFF: But this is the English or Lancet
25	report of what was reported four months earlier in the
	3

1	Wednesday, and we probably should also finish the
2	material relating to Oxford. If for any reason we
3	don't we will simply carry that over to the following
4	week, when there is next a presentation. We won't be
5	cutting into any of the witnesses.
6	SIR BRIAN LANGSTAFF: It is important, particularly for
7	those who had their treatment at those centres, that
8	we don't cut it any shorter than you had originally
9	planned.
10	Presentation by MS RICHARDS, continued
11	MS RICHARDS: Absolutely, and we won't.
12	Sir, so when we finished yesterday we had
13	broadcast an extract from a BBC documentary called
14	"Killer in the Village" which looked at the developing
15	knowledge in relation to AIDS and the awareness of it
16	affecting haemophiliacs. That was followed by
17	a series of journal and newspaper articles in the
18	United Kingdom.
19	Henry, could we have, please, PRSE0000317.
20	This is one of a series of articles published in
21	The Lancet. I think the date is 30 April 1983. We
22	can see it's called:
23	"Acquired immunodeficiency in an infant,
24	possible transmission by means of blood products."
25	It refers to the case of an infant receiving

2

1	States?
2	MS RICHARDS: Precisely. So whether or not it had been
3	picked up by clinicians based in this country looking
4	at American journals we may not know, but this is The
5	Lancet, obviously one of the leading medical
6	publications in this country, reporting this case in
7	April 1983, only a few days after the BBC have aired
8	a documentary which touched on the topic.
9	SIR BRIAN LANGSTAFF: The importance of this is the
10	comment to which you have drawn our attention?
11	MS RICHARDS: Yes.
12	Then we see the issue being picked up in the
13	mainstream media.
14	Henry, could we have PRSE0000199, please.
15	This is the Mail on Sunday on 1 May 1983,
16	"Hospitals using killer blood":
17	"Blood imported by the NHS from America could be
18	threatening the lives of thousands of British people.
19	A sexually transmitted killer disease which has struck
20	more than 1,300 Americans is present in contaminated
21	blood used in transfusions and operations. Experts
22	revealed exclusively to the Mail on Sunday that two
23	men in hospital in London and Cardiff are suspected to
24	be suffering from the disease after routine
25	transfusions for haemophilia."
	(1) Pares 1 4

(1) Pages 1 - 4

		a mqany	
1	Then if we go down it a little further, please,	1	bleeding, which may contain blood pooled from up to
2	Henry, we see a quote from a Dr Tony Pinching, an	2	1,000 donors."
3	immunologist at St Mary's Hospital, London:	3	Then if we scroll down a little further, please,
4	"It seems madness that our blood supplies are	4	Henry:
5	coming from a country suffering from an epidemic of an	5	"The blood theory gained credibility a few
6	incurable killer disease that nobody can even test	6	months ago when a San Franciscan baby boy who rec
7	for. The Swiss Red Cross, chief producer in	7	massive blood transfusions shortly after birth began
8	Switzerland of the anti-clotting factor needed by	8	to show early signs of AIDS four months later."
9	haemophiliacs, said this weekend they would welcome	9	Then there is further reference to the case of
10	requests from Britain for clean plasma."	10	the San Francisco baby.
11	So we've gone from the BBC through to The Lancet	11	So again, mainstream media in the United King
12	through, now, to the Mail on Sunday, and the same	12	picking up the story. There are other articles in The
13	date, 1 May, if we just look at one further example	13	Guardian as well, which I won't go to.
14	there are a number of articles that weekend	14	That was 1 May. We're then going to look at
15	MDIA0000015 please, Henry.	15	some Department of Health documents on 3 May.
16	This is the Observer, the same day, "The	16	Henry, could we have DHSC0001651, please.
17	epidemic spreads", and if we could pick it up at the	17	So we can see from this it's a minute dated
18	bottom of the left-hand column first of all:	18	3 May 1983. It's headed "Acquired Immune Deficiency
19	"However, incidents of the disease over the past	19	Syndrome (AIDS)":
20	18 months among 200 drug abusers and 11 haemophiliacs	20	"You will recall we were asked to providing
21	has strengthened suspicions that AIDS could also be	21	briefing for Prime Minister's Questions on the stories
22	passed on through blood, either via"	22	which appeared over the weekend about AIDS."
23	If we go to the top of the next column:	23	We've just looked at a couple of those stories.
24	" infected needles or through blood products	24	"I attach a copy of the line to take, which went
25	such as those used by haemophiliacs to prevent 5	25	to Number 10, together with a background note written
1	in supplementary question and answer form, both of	1	"I was very concerned to read this weekend's
2	which I'm circulating more widely within the office.	2	press reports and can well understand the anxiety
3	Officials are in touch with representatives of	3	which some sensational reports may have caused. It i
4	directors of haemophilia centres and the Blood	4	important to put this in perspective: there is as yet
5	Transfusion Service as well as the Haemophilia	5	no conclusive proof that AIDS has been transmitted
6	Society. The Haemophilia Society indicate they would	6	from American blood products. The risk that these
7	welcome an opportunity to discuss AIDS with ministers	7	products may transmit the disease must be balanced
8	by the end of the week.	8	against the obvious risks to haemophiliacs of
9	"Whilst one of the main purposes of the	9	withdrawing a major source of supplies. Already in
10	background briefing is to put the problem of AIDS into	10	this country there is a special surveillance system
11	proper perspective, a view shared by The Society, we	11	established by the Communicable Disease Surveillanc
12	think it would be helpful if Mr Finsberg were to offer	12	Centre to monitor the occurrence of AIDS, in
13	to meet representatives of The Society. Meanwhile	13	collaboration with the Centers for Disease Control in
14	there appears to be little to be gained from	14	the USA. Every opportunity is being taken for this
15	ministers issuing statements about a matter which has	15	country to learn from the experience of this disease
16	been sensationalised and, in some cases, distorted by	16	in the USA."
17	the media, and on which, with the present state of	17	Sir, you will see there the formulation that is
18	knowledge, there is no immediate action which	18	then repeated on a number of occasions over the cour
19	ministers could be advised to take. We should,	19	of the year from the department: No conclusive proof
20	however, review this line after official discussions	20	that AIDS has been transmitted from American blood
21	are complete."	21	products.
22	Then there's a reference to whether to have	22	Of course, one question which you will no doub
23	a meeting with The Haemophilia Society.	23	wish to consider in due course is whether that was the
24 25	Could we go to the next page, please. This was "The Line to Take" that was drafted for Number 10:	24 25	right question to be asking.
20	The Line to Take that was draited for Number 10.	20	We will just look at the briefing note that is
			(2) Pages 5

1,000 donors."
Then if we scroll down a little further, please,
Henry:
"The blood theory gained credibility a few
months ago when a San Franciscan baby boy who received
massive blood transfusions shortly after birth began
to show early signs of AIDS four months later."
Then there is further reference to the case of
the San Francisco baby.
So again, mainstream media in the United Kingdom
picking up the story. There are other articles in The
Guardian as well, which I won't go to.
That was 1 May. We're then going to look at
some Department of Health documents on 3 May.
Henry, could we have DHSC0001651, please.
So we can see from this it's a minute dated
3 May 1983. It's headed "Acquired Immune Deficiency
Syndrome (AIDS)":
"You will recall we were asked to providing
briefing for Prime Minister's Questions on the stories
which appeared over the weekend about AIDS."
We've just looked at a couple of those stories.
"I attach a copy of the line to take, which went
to Number 10, together with a background note written

6

(2) Pages 5 - 8

# 24 September 2020

1	also referred to in this minute.	1
2	Henry, could we have DHSC0001654, please.	2
3	We can see here the reference to what is AIDS,	3
4	a reference to the symptoms, and then under the	4
5	heading "Who is at risk from AIDS?":	5
6	"The disease occurred predominantly in	6
7	homosexual males but other groups such as mainline	7
8	drug abusers, Haitian immigrants and haemophiliacs	8
9	requiring treatment with antihaemophilic factor	9
10	concentrates have also been identified as being at	10
11	increased risk.	11
12	"Is it caused by a virus?	12
13	"The cause is unknown. Although medical opinion	13
14	is tending to favour a virus as the agent responsible,	14
15	there is no proof that this is the case. There is no	15
16	means of testing for the presence of AIDS in patients	16
17	or in blood or blood products such as Factor VIII."	17
18	Then there is a reference to laboratory tests	18
19	for AIDS.	19
20	Then if we go down to "Mortality":	20
21	"The mortality from the established disease is	21
22	high. At least 40 per cent of cases die after	22
23	a variable period of months or years after contracting	23
24	the disease."	24
25	Then if we just go on to the question:	25
	9	
1	them to have that information.	1
2	"This would not exonerate American Factor VIII	2
3	because of the long incubation period which there may	3
4	be between exposure to the agent and the manifestation	4
5	of the disease. On the other hand, the patient, who	5
6	is a severe haemophiliac, has received since 1980	6
7	a great deal of British-made Factor VIII concentrate,	7
8	and it is not possible to know whether British	8
9	concentrate may contain the AIDS agent.	9
10	"Should a ban be placed on imports of US	10
11	Factor VIII concentrate?	11
12	"At present, haemophilia experts in this country	12
13	take the view that to ban the imports of US	13
14	Factor VIII would be to place haemophiliacs at greater	14
15	risk from bleeding than they would be from acquiring	15
16	AIDS.	16
17	"Should we switch to European countries'	17
18	concentrates?	18
19	"AIDS has been reported in some European	19
20	countries so that European plasma may not be free of	20
21	the agent. Moreover, there is evidence that some	21
22	European manufacturers may use plasma which comes not	22
23	from Europe but from Latin America.	23
24	"What action are we taking?"	24
25	Then there's a reference to discussions from the	25
	11	

24 September 2020
"Is it transmitted in blood or blood products? "As yet there is no conclusive proof that AIDS is transmitted by blood as well as by homosexual contact, but the evidence is suggestive that this is
likely to be the case. The evidence relates to some 11 haemophiliacs in the USA and 3 in Spain, in whom the most likely explanation for the development of
AIDS was their exposure to American Factor VIII
concentrates. There is also some evidence that AIDS
has been transmitted to babies in blood transfusions. "Are there any cases of AIDS in UK
haemophiliacs?
"As far as can be established, there are no proven cases of AIDS in UK haemophiliacs. There is
a suspect case in Cardiff of whom we have details" Of course that will be of particular
significance when you come to consider the decisions and actions of Professor Bloom.
" but the reported in the Sunday Mail case
has not yet been traced. The case in Cardiff has not received any American Factor VIII concentrate
since 1980."
Pausing there, sir, that would suggest there had been some form of communication between the Department
of Health and Professor Bloom or Cardiff in order for 10
Blood Transfusion directors. Then:
"All Haemophilia Centre directors have received
instructions to report any suspect case of AIDS both to a monitoring centre for AIDS at the Oxford
Haemophilia Centre and to the Communicable Disease
Surveillance Centre, Colindale."
There's reference to the Blood Transfusion
Research Committee of the Central Blood Laboratories
Authority considering the problems. Then there's a:
"What are the controls on importing blood products?"
Reference to the Medicines Act.
Then this is again further questions and
answers:
"Is it true that if the Government had put more
money into the blood products laboratory at an earlier
stage, this problem would not now be with us?
"No. The agent of AIDS is already present in
this country, since a number of cases of AIDS have been diagnosed in homosexuals who have not received
any blood or blood products.
"When will this country be self-sufficient in
blood products?
"The Central Blood Laboratories Authority is

'The Central Blood Laboratories Authority is about to embark on a £21 million scheme to build a new 12 (3) Pages 9 - 12

1	blood products laboratory at Elstree. This should be	1	report in relation to the week ending 6 May 1983, and
2	completed in three to four years will be of a	2	you will see the heading, "Acquired Immune Deficiency
3	size capable of making this country self-sufficient in	3	Syndrome, Cardiff":
4	blood products."	4	"Acquired Immune Deficiency Syndrome has been
5	Henry, is there anything further on that page?	5	reported in a 20-year old man with haemophilia in
6	I don't think there is, no. Thank you.	6	Cardiff."
7	Again, sir, one of the questions you will no	7	Then there's a reference to the infections that
8	doubt wish to be considering in due course is whether	8	he had had for three months:
9	what is said there about the causal connection with	9	" a low T helper/suppressor ratio, known
10	blood products was sufficiently reflected in the	10	underlying cause of immunosuppression.
11	public statements that were being made by the	11	"This is the first report of AIDS in a patient
12	department or in the approach being taken by	12	with haemophilia in the United Kingdom known to CDSC."
13	Haemophilia Centre Directors, such as Professor Bloom.	13	So, again, a key fact in the chronology in the
14	Sir, I ask you to note that the following day,	14	course of 1983.
15	4 May 1983, The Haemophilia Society published to its	15	That is also immediately notified to the
16	members a document containing Professor Bloom's advice	16	Department of Health, although the documents we've
17	on AIDS. I am going to come on to that this afternoon	17	already looked at suggest that the Department of
18	when looking at Professor Bloom's actions and	18	Health or some within the Department of Health were
19	decisions in more focus. But that's where it fits	19	already aware of it.
20	into the chronology. It is 4 May 1983.	20	If we have please, Henry, DHSC0002227_021,
21	If we could then, please, have on screen, Henry,	21	please.
22	DHS0002227_020, please.	22	This is an internal DHSS minute dated
23	This is a document you may recall seeing last	23	6 May 1983. "AIDS, American Factor VIII" is the
24	year during the evidence of one of the witnesses who	24	heading:
25	gave evidence in Cardiff. It's a communicable disease	25	"Dr Spence Galbraith telephoned from CDSC this
	13		
1	morning with the following information:	1	Department of Health of not only the Cardiff case but
2	"The male patient aged 23 years in Cardiff who	2	also the cases in Spain.
3	is a known haemophiliac now appears to have the right	3	If we then go, please, to CBLA0000043_040,
4	symptoms and signs for a diagnosis of AIDS."	4	please, Henry.
5	And reference there to opportunistic infection	5	This is a letter from Dr Spence Galbraith, who
6	and so on.	6	we've just seen referred to in the communication with
7	"He has been ill for a month he has been	7	the DHSS. It's dated 9 May, so three days later, and
8	treated with American Factor VIII no further news	8	it's addressed to Dr Field at the Department of Health
9	of the haemophiliac patient in London.	9	and Social Security:
10	"Dr Galbraith last night received information	10	"Dear lan,
11	from Spain that three haemophiliac patients there are	11	"Last week while you were away in Geneva a case
12	thought to have AIDS and have also been treated with	12	of AIDS in a haemophiliac in Cardiff who had received
13	American Factor VIII. Dr Galbraith asks that the	13	USA Factor VIII concentrate was reported. The case
14	Department should consider the matter as a priority	14	fits the recognised criteria for the diagnosis
15	and asks that any top level meeting should include	15	of AIDS.
16	CDSC who are collecting all data on AIDS cases for us.	16	"In The Lancet of 30 April three cases in
17	I assured him we would liaise with CDSC and also told	17	haemophiliacs in Spain are reported; I have confirmed
18	him that we had already met Dr Gunson, CA in blood	18	that they received USA Factor VIII concentrates.
19	transfusion, and he was in touch with regional	19	"In the same issue of The Lancet, the tally of
20	transfusion directors and that alternative supplies of	20	11 reported cases in haemophiliacs in the USA is
21	Factor VIII are being considered but are not going to	21	recorded and a paper describes a case in a multiply
22	be easy to come by. The matter is under active	22	transfused child in the USA."
23	consideration. Swiss supplies are considered	23	Then he says this:
24	doubtful. Is Germany a possibility?"	24	"I have reviewed the literature and come to the
25	So, again, direct communication to the	25	conclusion that all blood products made from blood

ion that all blood products made from blood 16 (4) Pages 13 - 16

14

### 24 September 2020

1	donated in the USA in 1978 should be withdrawn from
2	use until the risk of AIDS transmission by these
3	products has been clarified. Attached is a paper in
4	which I set out my reasons for making this proposal.
5	Perhaps the subject could be discussed at an early
6	meeting with haematologists, virologists and others
7	concerns so that a decision may be made as soon as
8	possible."
9	We can see if we go over the page, we see his
10	paper setting out his reasons. So reasons for
11	withdrawal of USA blood products:
12	"1. The AIDS epidemic in the USA is probably due
13	to a transmissible agent.
14	"2. The agent is probably transmitted by blood
15	and blood products."
16	Then he sets out his reasons for reaching that
17	conclusion and just picking it up towards the bottom
18	of that paragraph:
19	"One of these cases, Professor Bloom's case in
20	Cardiff, fits the accepted criteria of AIDS.
21	"3. Although this number of cases of AIDS
22	associated with the administration of Factor VIII
23	concentrate is very small in relation to the number of
24	individuals receiving the product, this may not
25	indicate that the risk is small because (a) the
	17
1	donations before 1978 are very unlikely to have been
2	contaminated. But he then goes on to say there's an
3	incubation period of seven months or so, if one allows

donations before 1516 are very unintely to have been
contaminated. But he then goes on to say there's an
incubation period of seven months or so, if one allows
a year or so, he ought to have been saying '76 or '77,
oughtn't he?
MS RICHARDS: Yes, that last part of that sentence may not
follow from what he sets out elsewhere in the
paragraph.
SIR BRIAN LANGSTAFF: He is being cautious but he may not
be cautious enough.
MS RICHARDS: Yes, but he is certainly identifying the
currently known number of cases may not be an accurate
reflection of the true extent of risk.
SIR BRIAN LANGSTAFF: It is what is coming out of the tap,
not what is in the pipeline.
MS RICHARDS: Then he goes on to say:
"4. Factor VIII concentrate of pooled products
would appear to have a high risk of being contaminated
with AIDS agent because homosexuals and drug abusers
are known to be frequent blood donors and each plasma
pool from which it is manufactured is collected from
as many as 1,000 donors."
He refers to the possibility that the AIDS agent
being present in the blood of healthy persons for
several months before the onset of symptoms.

24

25

liry	24 September 2020
1	earliest cases of AIDS reported in the USA developed
2	symptoms in 1978 and, therefore, USA blood products
3	manufactured from donations before 1978 are very
4	unlikely to have been contaminated. Indeed, the
5	earliest reported date of onset of AIDS in
6	
	a haemophiliac is October 1980. (b) Most of the
7	reported cases of AIDS had been diagnosed in 1981 and
8	1982", and he sets out various numbers:
9	"(c) The incubation period is long, between
10	several months and two years, maybe as long as four
11	years, and therefore one would not expect to see many
12	cases due to USA blood products until a year or more
13	after 1981/82 donated blood products had been given."
14	Pausing there, sir, you will have seen in
15	a number of documents and indeed will see it in some
16	further documents today reference made to the
17	incidence, to the number of cases and the number of
18	cases being small, and that effectively being
19	conflated with the risk. Here Dr Galbraith is not
20	falling into that error of conflating the two
21	concepts.
22	SIR BRIAN LANGSTAFF: He might to this extent. If you go
23	back to the previous page, he says the earliest cases
24	of AIDS reported developed symptoms in 1978.
25	Therefore, USA blood products manufactured from
	18
1	"5. There is apparently no known means of
2	ensuring that blood or blood products are free of the
3	AIDS agent."
4	Again, he refers to the San Francisco baby case.
5	"6. The mortality rate of AIDS exceeds
6	60 per cent one year after diagnosis and is expected
7	to reach 70 per cent."
8	So those are his reasons for suggesting that
9	action should be taken now to prevent the further use
10	of American imported Factor VIII concentrate which of
11	course we know did not as a matter of fact happen.
12	We go from Dr Galbraith to a pharmaceutical
13	company communication to the Department. PRSE0004496.
14	This is a letter of the same date, 9 May 1983, from
15	Travenol to the DHSS:
16	"I want to advise you of important developments
17	and actions being taken by Hyland Therapeutics and
18	Travenol Laboratories in connection with the risks of
19	AIDS. While the causative agent of this disease
20	remains to be identified, some evidence suggests it is
21	caused by a virus that can be transmitted by blood and
22	certain blood products."
23	Then there's a reference to the March 24
20	

Then there's a reference to the March 24 directive from the FDA in the States and in the second paragraph Hyland having become aware that one of its

20 (5) Pages 17 - 20

# 24 September 2020

1	plasma donors had been identified as a possible victim	1	
2	of AIDS and it sets out a number of steps that Hyland	2	
3	was proposing and drawing to the attention of the	3	
4	DHSS. For present purposes, sir, in terms of looking	4	
5	at knowledge of risk it's really what is said in the	5	
6	first paragraph that I draw to your attention.	6	
7	On 13 May there was a special meeting of the	7	
8	Haemophilia Reference Centre directors, the purpose of	8	
9	which was to discuss recent publicity about AIDS. I'm	9	
10	going to come back to that when we look at	10	
11	Professor Bloom later on because he was chair of the	11	
12	Haemophilia Centre Directors Organisation at the time	12	
13	and it fits neatly into the account of what he was	13	
14	doing, but that was happening at the same time as the	14	
15	correspondence that we're seeing.	15	
16	Then if we could please have, Henry,	16	
17	NHBT0017430, please. This is a report by Dr Gunson on	17	
18	proceedings in Lisbon that had taken place between 16	18	
19	and 19 May 1983 in the Committee of Experts on blood	19	
20	transfusion and immuno-haematology. You can see under	20	
21	the heading of "Acquired Immune Deficiency Syndrome",	21	
22	he says this:	22	
23	"There is no doubt that this subject dominated	23	S
24	the meeting and a report is to be submitted to	24	
25	a meeting of ministers in June, 1983." 21	25	М
1	we'll come to that. Recommendations were made on	1	
2	23 June 1983 so I will get to that shortly.	2	
3	Around this time we have Montagnier's report in	3	
4	the Journal of Science of a possible link between AIDS	4	
5	and the virus referred to by him as LAV. I don't have	5	
6	any particular documentation that I am proposing to	6	
7	show you in relation to that.	7	
8	DHSC0003824_164, please, Henry. This is	8	
9	a letter dated 20 May 1983. It is from	9	
10	Dr Richard Tedder of the School of Pathology at the	10	
11	Middlesex Hospital Medical School to Dr Walford of the	11	
12	DHSS. You will see it is essentially a recommendation	12	
13	for there to be research but in the second paragraph	13	
14	he says this:	14	
15	"This condition [i.e. AIDS] is likely to be	15	
16	caused by an infectious agent or agents. It's	16	
17	epidemiology bears a striking similarity to	17	
18	hepatitis B", which was of course known and had been	18	
19	known for decades to be transmissible by blood and	19	
20	blood products.	20	
21	Henry, could we then have PRSE0000984. If we	21	
22	turn it round, thank you.	22	
23	This is a document dated May 1983. I think we	23	
24	have established it's likely to be towards the end	24	
25	of May of 1983. It's headed, "AIDS and blood	25	
	23		

1	In the next paragraph he sets out some of what
2	has been observed and concludes the disease carries
3	a high mortality rate. There is then a reference to
4	reports by members of the incidence of AIDS:
5	"Within the European countries, with one
6	exception, there were less than ten cases of AIDS
7	reported from each country. The exception was Belgium
8	where 15 had been found", and then this:
9	"The significance of AIDS to the committee was
10	in relation to the effects with respect to the
11	transfusion of blood and blood products, particularly
12	with coagulation factor concentrates given to patients
13	suffering from haemophilia. Absolute proof that AIDS
14	is caused by a transmissible infectious agent is not
15	yet available but the consensus in the Committee was
16	that it should be regarded as such and that
17	a recommendation should be made to the Council of
18	Ministers at the meeting in June to take necessary
19	steps to minimise the transmission of AIDS by the
20	transfusion of blood products."
21	There, sir, we see what is being said at
22	a European level. We don't yet have
23	SIR BRIAN LANGSTAFF: What were the recommendations it
24	went on to make?
25	MS RICHARDS: We'll come to that I think, sir yes,

22

I	transfusion, some background to the recent publicity".
2	It's produced by Dr A Smith, I understand from the
3	South East Scotland Blood Transfusion Service. He
1	refers to, in the first paragraph:
5	"There has been a lot of publicity about AIDS in
6	the media recently and we thought we should explain
7	something about the disease for donors who are worried
3	about it."
)	Then further down there's a question:
0	"Who can get the disease? AIDS has been
1	occurring particularly in the USA in certain people
2	who are apparently susceptible to the disease"
3	Then we have a number listed and the fifth is
4	haemophiliacs, this is the top of the middle column:
5	" who may be more susceptible or may become
6	infected by their use of blood products which may have
7	come from a blood donor with AIDS. Has AIDS occurred
8	in the UK? The answer is yes. Does this mean the UK
9	is relatively safe? We do not know. Can it be
0	transmitted by blood transfusion? It appears it can.
1	This might produce the disease in people who are not
2	normally at risk. It may have infected clotting
3	factors that cause AIDS in haemophiliac men in USA.
4	We have not had any definite cases of AIDS in
5	haemophiliacs in the UK."
	2

24 (6) Pages 21 - 24

1	Then this:	1	BPL might be at greater risk than those receiving
2	"The disease cannot be taken lightly. Those	2	single donor cryoprecipitate or small pool products."
3	getting AIDS may die because they are more susceptible	3	Reference is made there to the Council of Europe
4	to serious infections and cancer due to their impaired	4	meeting.
5	immune system."	5	Henry, if we then have please PRSE0002741.
6	Could we then please, Henry, have	6	Sorry, I think I may have given you the wrong
7	DHSC0002231_051. We can see again this is part of an	7	reference. Don't worry I may come back to that.
8	internal DHSS communication in relation to AIDS.	8	That's another version of Dr Gunson's report. It's an
9	There's reference to there having been a meeting on	9	updated version of Dr Gunson's report.
10	3 June. The document itself or the minute itself is	10	If we have please no, I think I might in fact
11	dated 6 June 1983.	11	have given you the right one, sorry, PRSE0002741.
12	If we look in paragraph 3 of that, it says:	12	Thank you, it was the right one. This is the CBLA
13	"Dr Walford who is the author of this minute has	13	meeting, 21 June 1983. We can see attendees include
14	written a paper for Dr Harris to accompany an agenda	14	Dr Gunson, Professor Bloom, Dr Rizza and
15	item for the CBLA, see attached sheet B."	15	representative Dr Bell from the Scottish Home and
16	If we could go please Henry to the third page of	16	Health Department, Dr Gibson from the Medical Research
10	this document, we can see the paper authored by	17	Council, Dr Walford from the DHSS.
18	Dr Walford:	18	If we just go to the bottom of that page,
10	"Possible implications of AIDS for plasma supply	10	please, under the heading "AIDS":
20	and manufacture at BPL. There are increasing	20	"The Chairman outlined the problems caused by
	-		
21	indications that the acquired immune deficiency	21	AIDS. Since it appeared to be transmitted through
22	syndrome may be transmitted by blood and blood	22	blood and blood products, then it should be considered
23	products. Because of the number of donations to which	23	by the committee."
24	they are exposed haemophiliacs receiving large pool	24	SIR BRIAN LANGSTAFF: I think we may not be in the same
25	Factor VIII concentrate such as that manufactured at 25	25	part of the page, not on the screen. Can we just 26
4		4	
1	Henry, can we check that we are in the right place	1	to take all necessary steps and measures with respect
2 3	please. MS RICHARDS: I think we are. It was the very bottom of	2	to AIDS and, in particular, to avoid wherever possible
		3	the use of coagulation factor products prepared from large plasma pools. This is especially important for
4	the first page, the very last line of the first page.	4	those countries where self-sufficiency in the
5	SIR BRIAN LANGSTAFF: Thank you.	5	-
6	MS RICHARDS: "The Chairman outlined the problems caused	6	production of such products has not been achieved, to
7	by AIDS. Since it appeared [then we go to the next	7	inform attending physicians and selected recipients
8	page] to be transmitted through blood and blood	8	such as haemophiliacs of the potential health hazards
9	products, then it should be considered by the	9	of haemotherapy and the possibilities of minimising
10	Committee", and then there are various discussions	10	these risks", and then, thirdly, "to provide all blood
11	about research and consideration by the transfusion	11	donors with information on AIDS so that those in risk
12	committee. But then you will see there, sir, the CBLA	12	groups will refrain from donating."
13	seemingly accepting the causal connection between	13	SIR BRIAN LANGSTAFF: Does it give a definition of what
14	blood and blood products and AIDS and certainly not	14	large plasma pools are?
15	advancing any alternative cause.	15	MS RICHARDS: Certainly not in this document. I haven't
16	Then, Henry, if we could have PRSE0000372. This	16	put before you, sir, all the material relating to the
17	is the Council of Europe Committee of Ministers'	17	Council of Europe meeting. There were reports from
18	recommendations, 23 June 1983.	18	a number of different European countries. We do
19	If we go down to the third paragraph:	19	I think have much of the material so we can check what
20	"Considering the growing importance of a new	20	the position was there.
21	severe health hazard, AIDS, that may be caused by an	21	But you'll see there, sir, in relation to the
22	infectious agent transmissible by blood and blood	22	first two recommendations the overall arching
23	products", and then if we go to the next page, please,	23	recommendation is take all necessary steps and
24	Henry:	24	measures but, in particular, the (2) is to avoid
25	"Recommends the Governments of Member States (1) 27	25	wherever possible the use of factor products prepared
	Ζι		(7) Pages 25 - 28

(7) Pages 25 - 28

our organisation [that is presumably the Cardiff case]. This patient conforms to the definition published by the CDC but cannot be considered as a definite case, not aware of any other definable patients amongst the UK haemophilic population."

or von Willebrand's disease and minor lesions,

benefits of therapy but the situation will be

patients with haemophilia B where it's said:

Then it goes on to deal with treatment of

constantly reviewed."

agreed on 13 May:

Then it refers to the general recommendations

"For mildly affected patients with haemophilia A

treatment with DDAVP should be considered. Because of the increased risk of transmitting hepatitis by means of large pool concentrates in such patients this is in any case the usual practice of many directors. "2. For treatment of children and mildly affected patients or patients unexposed to imported concentrates, many directors already reserve supplies of NHS concentrates (cryoprecipitate or freeze-dried) and it would be circumspect to continue this policy. It was agreed that there is as yet insufficient evidence to warrant restriction of the use of imported concentrates in other patients in view of the immense

2       recipients, in other words, patients, of the potential       2         3       health hazards and the possibilities of minimising the       3         4       risks.       4         5       Again, one of the key questions for you, sir,       5         6       will be in particular evaluating the evidence you have       6         7       heard from individuals whether clinicians did provide       7         8       information or warnings about the risk of AIDS to       9         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       12         13       a further MWWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       16         16       USA and its territories.       16         17       We then get to HCDO0000270_004, Again, this is       17         18       a document we will no doubt come back to possibly in       18         20       and Dr Rizza.       Its alted 24			
3       health hazards and the possibilities of minimising the       3         4       risks.       4         5       Again, one of the key questions for you, sir,       5         6       will be in particular evaluating the evidence you have       6         7       heard from individuals whether clinicians did provide       7         8       information or warnings about the risk of AIDS to       8         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       12         13       a further MMWR publication from the Centers for       13         14       Disease Control in Altanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       15         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       12         21       "Dear blank" but we know from other materi	1		1
4       risks.       4         5       Again, one of the key questions for you, sir,       5         6       will be in particular evaluating the evidence you have       6         7       heard from individuals whether clinicians did provide       7         8       information or warnings about the risk of AIDS to       8         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       11         13       a further MMWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       15         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       18         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it			2
5       Again, one of the key questions for you, sir,       5         6       will be in particular evaluating the evidence you have       60         7       heard from individuals whether clinicians did provide       7         8       information or warnings about the risk of AIDS to       8         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       17         12       Without going to it, sir, 24 June 1983, there's       13         13       a further MMWR publication from the Centers for       16         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       16         16       USA and its territories.       16         17       We then get to HCD00000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blark" but we know from other material It was       22         22 <td< td=""><td>3</td><td>health hazards and the possibilities of minimising the</td><td>3</td></td<>	3	health hazards and the possibilities of minimising the	3
6       will be in particular evaluating the evidence you have       6         7       heard from individuals whether clinicians did provide       7         8       information or warnings about the risk of AIDS to       8         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       12         13       a further MMWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       13         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blark" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23	4	risks.	4
7       heard from individuals whether clinicians did provide       7         8       information or warnings about the risk of ADS to       8         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       12         13       a further MMWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of ALDS, 1,641 now reported in the       16         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24	5	Again, one of the key questions for you, sir,	5
8       information or warnings about the risk of AIDS to       8         9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       11         13       a further MMWR publication from the Centers for       12         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       15         16       USA and its territories.       16         17       We then get to HCD00000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24       13 May 1983. It says:       24         3       Then it looks at prop			6
9       their patients and no doubt you will be assisted too       9         10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       12         13       a further MMWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       15         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       16         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       5         26       "Consider in due cours		-	7
10       by the evidence you will hear from clinicians on that       10         11       issue in the coming months.       11         12       Without going to it, sir, 24 June 1983, there's       11         13       a further MMWR publication from the Centers for       11         14       Disease Control in Atlanta updating the increasing       11         15       numbers of cases of AIDS, 1,641 now reported in the       11         16       USA and its territories.       116         17       We then get to HCDD0000270_004. Again, this is       117         18       a document we will no doubt come back to possibly in       118         19       relation to Professor Bloom or in relation to Oxford       116         20       and Dr Rizza. It is dated 24 June 1983. It says       221         21       "Dear blank" but we know from other material it was       222         22       sent to the haemophila centre directors held on       223         23       meeting of reference centre directors held on       226         24       13 May 1983. It says:       229         25       "So far one possible case has been reported to       29         26       consider in due course is whether this was an adequate       66         26       consider in due cours			8
1       issue in the coming months.       1         12       Without going to it, sir, 24 June 1983, there's       12         13       a further MMWR publication from the Centers for       12         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       14         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       16         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       29         21       "It seems logical to continue to use our normal			9
12       Without going to it, sir, 24 June 1983, there's       13         13       a further MMWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       15         16       USA and its territories.       16         17       We then get to HCDD0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       19         20       and DT Rizza. It is dated 24 June 1983. It says       20         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       26         26       "So far one possible case has been reported to       26         26       "So far one possible case has been reported to       27         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduc			10
13       a further MMWR publication from the Centers for       13         14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       16         16       USA and its territories.       16         17       We then get to HCD00000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       19         20       and Dr Rizza. It is dated 24 June 1983. It says       20         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "So far one possible case has been reported to       24         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider i		-	11
14       Disease Control in Atlanta updating the increasing       14         15       numbers of cases of AIDS, 1,641 now reported in the       15         16       USA and its territories.       16         17       We then get to HCDD0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       18         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       23         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       22         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether t			12
15       numbers of cases of AIDS, 1,641 now reported in the       14         16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       16         18       a document we will no doubt come back to possibly in       16         19       relation to Professor Bloom or in relation to Oxford       16         20       and Dr Rizza. It is dated 24 June 1983. It says       26         21       "Dear blank" but we know from other material it was       27         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       23         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the de			13
16       USA and its territories.       16         17       We then get to HCDO0000270_004. Again, this is       17         18       a document we will no doubt come back to possibly in       18         19       relation to Professor Bloom or in relation to Oxford       19         20       and Dr Rizza. It is dated 24 June 1983. It says       20         21       "Dear blank" but we know from other material it was       27         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       22         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophili			14
17       We then get to HCDO0000270_004. Again, this is       11         18       a document we will no doubt come back to possibly in       113         19       relation to Professor Bloom or in relation to Oxford       113         20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors following the       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       26         26       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       29         3       Then it looks at proposed trials in relation to       33         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       w			15
18       a document we will no doubt come back to possibly in       19         19       relation to Professor Bloom or in relation to Oxford       19         20       and Dr Rizza. It is dated 24 June 1983. It says       20         21       "Dear blank" but we know from other material it was       21         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "So far one possible case has been reported to       29         29       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       22         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether th			16
19       relation to Professor Bloom or in relation to Oxford       14         20       and Dr Rizza. It is dated 24 June 1983. It says       20         21       "Dear blank" but we know from other material it was       21         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       29         3       Then it looks at proposed trials in relation to       33         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres acr			17
20       and Dr Rizza. It is dated 24 June 1983. It says       22         21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       23         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         26       "So far one possible case has been reported to       29         29       29       29         1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10			18
21       "Dear blank" but we know from other material it was       22         22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       23         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       29         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for			19
22       sent to the haemophilia centre directors following the       22         23       meeting of reference centre directors held on       23         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       29         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of t			
23       meeting of reference centre directors held on       22         24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         29       29         1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       17         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15<			
24       13 May 1983. It says:       24         25       "So far one possible case has been reported to       29         1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       17         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's s			
25       "So far one possible case has been reported to       29         1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the		-	
1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommitt			
1       "It seems logical to continue to use our normal       1         2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       15         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommitt	25		25
2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether			
2       supplies of NHS concentrate."       2         3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether			4
3       Then it looks at proposed trials in relation to       3         4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       15         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether any action is needed and, if so, what action       19         2		-	
4       hepatitis reduced Factor VIII concentrates. Again,       4         5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether any action is needed and, if so, what action       19         20       in respect of AIDS and blood products licensed under       22			
5       sir, one of the many questions that you will need to       5         6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       17         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether any action is needed and, if so, what action       15         20       in respect of AIDS and blood products licensed under       20         21       the Medicines Act."       22         22       We ca			
6       consider in due course is whether this was an adequate       6         7       and appropriate response to the developing knowledge       7         8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether any action is needed and, if so, what action       12         20       in respect of AIDS and blood products licensed under       22         21       the Medicines Act."       22         22       We can see at (2) that there have been a number       23         23       invited			
7and appropriate response to the developing knowledge78of the risk of AIDS for haemophiliacs and, indeed,89whether the advice that was set out here, in such910terms as it is, was implemented by clinicians in1011centres across the country.1112Could we then please have DHSC0001209, please,1213Henry. This is a document prepared for a key meeting1314on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1616for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2222We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			
8       of the risk of AIDS for haemophiliacs and, indeed,       8         9       whether the advice that was set out here, in such       9         10       terms as it is, was implemented by clinicians in       10         11       centres across the country.       11         12       Could we then please have DHSC0001209, please,       12         13       Henry. This is a document prepared for a key meeting       13         14       on 13 July 1983 of a subcommittee of the Committee on       14         15       the Safety of Medicines. This is a suggested agenda       16         16       for the meeting. You'll see it's said at:       16         17       "(1) that the aim of the discussion is to help       17         18       the subcommittee to formulate advice to the CSM and       18         19       whether any action is needed and, if so, what action       19         20       in respect of AIDS and blood products licensed under       20         21       the Medicines Act."       22         22       We can see at (2) that there have been a number       23         23       invited to attend the subcommittee, including       23         24       Professor Bloom but also Dr Craske, Dr Galbraith       24         25       Dr Gunson and Dr			
9whether the advice that was set out here, in such910terms as it is, was implemented by clinicians in1011centres across the country.1112Could we then please have DHSC0001209, please,1213Henry. This is a document prepared for a key meeting1314on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1616for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2222We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			
10terms as it is, was implemented by clinicians in1011centres across the country.1112Could we then please have DHSC0001209, please,1213Henry. This is a document prepared for a key meeting1314on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1616for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2222We can see at (2) that there have been a number2323invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			
11centres across the country.1112Could we then please have DHSC0001209, please,1213Henry. This is a document prepared for a key meeting1314on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1616for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2222We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			
12Could we then please have DHSC0001209, please,1213Henry. This is a document prepared for a key meeting1314on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1616for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2222We can see at (2) that there have been a number2323invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			
13Henry. This is a document prepared for a key meeting1314on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1616for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2222We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25		•	12
14on 13 July 1983 of a subcommittee of the Committee on1415the Safety of Medicines. This is a suggested agenda1516for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2122We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			12
15the Safety of Medicines. This is a suggested agenda1816for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1820in respect of AIDS and blood products licensed under2021the Medicines Act."2722We can see at (2) that there have been a number2723invited to attend the subcommittee, including2724Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			13
16for the meeting. You'll see it's said at:1617"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2722We can see at (2) that there have been a number2723invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25		-	15
17"(1) that the aim of the discussion is to help1718the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2122We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			16
18the subcommittee to formulate advice to the CSM and1819whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2122We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25		-	17
19whether any action is needed and, if so, what action1920in respect of AIDS and blood products licensed under2021the Medicines Act."2122We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			18
20in respect of AIDS and blood products licensed under2021the Medicines Act."2122We can see at (2) that there have been a number2223invited to attend the subcommittee, including2224Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			19
21the Medicines Act."2222We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25		-	20
22We can see at (2) that there have been a number2223invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			20
23invited to attend the subcommittee, including2324Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			22
24Professor Bloom but also Dr Craske, Dr Galbraith2425Dr Gunson and Dr Mortimer. Then at (4) it says:25			23
25 Dr Gunson and Dr Mortimer. Then at (4) it says: 25			24
			25
	-		

"This agenda suggests heading for the
discussion", and a suggested first speaker is given.
"As a target for discussion, brief possible
conclusions are indicated doubtless these will be
changed radically."
It is a somewhat unusual document because under
the heading "agenda" it sets out suggested
conclusions.
If we go down the page we see under the heading,
"Factor VIII and other clotting factors:
"Aetiology, current possibilities, conclusion
and infectious cause seems likely and a single new
agent could be responsible, repeated exposure to or
reactivation of known viruses cannot be excluded.
Although possible agents have been proposed their
relationship to the disease remains very uncertain.
The infectivity of the supposed agent appears to be
low, requiring for transmission intimate contact or
introduction into the body tissues."
Then epidemiology:
"Current position, assessment of risk from
Factor VIII", if we go over the page.
"Conclusion. Recipients of clotting factor
concentrates are at risk. The degree of risk cannot
yet be quantified. The risk is likely to be greatest
(8) Pages 29 - 32

### 24 September 2020

1	from products derived from the blood of homosexuals	1	"Wit
2	and IV drug abusers resident in areas of high	2	Conclusion
3	incidence, and in those who repeatedly receive	3	The
4	concentrates in high dosage."	4	"Use
5	Then the next part goes on to look at possible	5	Note: this p
6	approaches to avoiding or reducing the presence of	6	physicians
7	viruses in clotting factor preparation, including	7	be decided
8	screening of donors, screening of donor blood, and	8	in children
9	a number of other matters one of which is and this	9	Aga
10	is on the third page, please, Henry:	10	a matter on
11	"4. Consideration of the different operational	11	to advise th
12	possibilities for reducing the risks from clotting	12	"Coi
13	factor preparations. Withdraw Factor VIII and IX	13	risk/benefit
14	concentrates, i.e. use only cryoprecipitate for	14	patient are
15	treatment", and it looks like it's suggesting	15	licensing.
16	Professor Bloom will be the one to address the	16	judgment."
17	committee on that.	17	So t
18	"Conclusion. This step cannot at present be	18	We
19	recommended: (a) it is probably impossible to satisfy	19	itself, this d
20	UK needs in this way; (b) even if needs could be	20	28 June of
21	satisfied it would involve a major rethink of UK	21	place on 13
22	policy for preparing blood products; (c) the perceived	22	chronologic
23	level of risk at present does not justify serious	23	29 June a r
24	consideration of this solution."	24	Haemophili
25	Then the next suggestion is:	25	Hen
	33		
1	If we go to the third page, the recommendations	1	"(7)
2	here are set out there.	2	cases in the
3	"The Medical Board reached agreement on two	3	Wales; 1 C
4	issues and wish to advise the Council and General	4	l am
5	Assembly accordingly. There is insufficient evidence	5	in Europe.
6	to recommend at the present any change in treatment.	6	"Oth
7	Therefore, present treatment of haemophilia should	7	cases than
8	continue with whatever blood products are available	8	Israel, Swe
9	according to the judgment of the individual physician.	9	haemophilia
10	(2) Longitudinal studies are urgently needed on the	10	York blood.
11	questions already mentioned"	11	and severe
12	So that was the recommendation being made by the	12	Go t
13	Medical Board to the Council and General Assembly of	13	"AIC
14	the World Federation of Haemophilia at the end of	14	in the USA
15	June.	15	generally lo
16	There is an interesting reflection on that	16	evidence fo
17	meeting. If we go to ARCH0002544, please. This is	17	Para
18	a note from Dr Foster 15 July 1983 it might be helpful	18	"The
19	if I summarise the key points concerning AIDS from the	19	products fro
20	World Federation for haemophilia and ISTH Stockholm	20	suspected
21	meetings. Most of the information was presented by	21	Hyland and
22	Dr Evatt. We can skip down the next few paragraphs.	22	The
23	We can see:	23	"My
24	"(6) Haemophiliacs are in a group which develops	24	a concentra
25	opportunistic infections.	25	the situation
	35		

ithdraw US preparations from the UK market. n. Impracticable on grounds of supply." en the next suggestion is: se US blood products as sparingly as possible. possibility is largely a matter for s treating haemophilia but it could in theory d to modify product licences, eg not for use with mild haemophilia." ain, it looks like that is going to be on which Professor Bloom is going to be asked the committee. onclusion. The uncertain balance of it considerations in various categories of e too finely balanced to justify action via The matter should be left to clinical that's the agenda with suggested conclusions. e then -- before we get to the CSM meeting document I think is produced -- it's f 1983 for a meeting that was going to take 13 July. So dealing with matters in strict ical order the next relevant event is on meeting of the World Federation of ilia General Assembly. nry, could we have PRSE0001351 please. 34

) For haemophiliacs there are 16 confirmed he USA, 8 now dead; 5 in Europe; 3 Spain; 1 Canada." m not quite sure why it is thought Canada is ther delegates seemed to think there were more n this outside the USA, eg Canada, Germany, eden. Of the 16 USA cases 1 is a mild lia B case who also received two units of New d. Haemophilia A cases are mild, moderate e." to the next page: IDS is still located mainly in key urban areas A ... however the haemophilia cases are located in non-AIDS areas. This is strong for transmission by Factor VIII." ragraph 11: he AIDS haemophiliac in Cardiff has received rom Armour and Immuno as well as NHS. Other European cases have received products from nd Immuno." en this, this is Dr Foster's impression: y general impression was that there was rated attempt from USA delegates to play down on. The risk to haemophiliacs was said

36 (9) Pages 33 - 36

1	a number of times to be one in a million, though	1
2	simple arithmetic suggests 1 in 1,000. It was	2
3	stressed that the causes of death for USA	3
4	haemophiliacs is bleeding 36 per cent, AIDS	4
5	11 per cent, cancer 11 per cent, heart disease	5
6	7 per cent, i.e. keep on taking concentrates."	6
7	Then if we just go a little further down:	7
8	"With the first haemophiliac case only 12 months	8
9	ago and a possible incubation period from one to three	9
10	years a number of delegates, mainly European, were	10
11	clearly uneasy and felt that we may be still only	11
12	seeing the tip of the iceberg."	12
13	So there is an insight perhaps into some of the	13
14	discussions that informed the recommendation, sir,	14
15	that we just looked at.	15
16	Then if we could have, please, PRSE0002301.	16
17	This is a publication called Transfusion	17
18	International. It's a newsletter from the League of	18
19	Red Cross Societies and it's from July 1983. If we go	19
20	to the second page we see under the heading "AIDS":	20
21	"New concern for blood transfusionists."	21
22	Go to the right-hand column:	22
23	"How does this concern blood transfusion	23
24	services, blood bank directors, blood donor	24
25	recruiters? There is relatively strong evidence	25
	37	
1	a session or to send it out as part of the call-up	1
2	material. However, one or two regions felt that there	2
3	might be some benefit in a slightly more aggressive	3
4	approach and these RTDs may be asked to develop a kind	4
5	of trial in their regions by either posting or handing	5
•	of the in their regione by entire pooling of hereing	· ·

6 out the leaflets." 7 Then we look at the leaflet itself, and it's 8 instructive to see what it says -- next page, please, 9 Henry: 10 "Why is a leaflet on AIDS necessary? "Recently there's been considerable publicity in 11 the newspapers ..." 12 13 Et cetera, et cetera: "What is AIDS? Who is at risk of AIDS?" 14 15 Then if we keep going down, please: 16 "Has AIDS occurred in the United Kingdom? 17 "Yes, a few cases have been reported." 18 Then this: 19

"Can AIDS be transmitted by transfusion of blood
and blood products?
"Almost certainly yes. There is only the most
remote chance of this happening with ordinary blood
transfusions. However, in the USA about ten patients
suffering from haemophilia have developed AIDS."
It refers to the use of Factor VIII:

6

7

8

9

10

11

12

13

14 15

16

17

18

19

20

21

22

23

24

25

indicating that the disease may be transmitted by blood." Then reference to the 11 cases so far in the US and the additional cases in Europe. "There is a suspicion that commercial Factor VIII concentrate prepared from large pools of US plasma as being a source of infection. Although there's no absolute proof that blood really does transmit AIDS infection there is one case where the causal relationship is highly suggestive", and we come back to what I think is the San Francisco baby case. So, there, warnings being given in relation to transfusion more generally and then if we could have, please, NHBT0020668, please. NHBT0020668. So you will see this is from a Dr Wagstaff of the regional transfusion centre in Sheffield: "Dear colleague, AIDS leaflet." It is dated 6 July 1983: "I am enclosing a copy of the final form of the leaflet which you will see has been altered from the original only in the manner of presentation ... the majority of RTDs [regional transfusion directors] still feel strongly that approach to donors should be at the lowest key possible and were correspondingly reluctant to either hand the leaflet to every donor at

"Should just one of the donors be suffering from AIDS then Factor VIII could transmit the disease." But you have there, sir, the straightforward answer to a straightforward question: Can it be transmitted by blood and blood products? "Almost certainly yes." We will just see how that leaflet was being considered within the Department of Health briefly. It is DHSC0001511. We can see this is a meeting on 6 July 1983: "Present: MSH ..." That's the Minister of State to Health, then Kenneth Clarke, and Lord Glenarthur, and then three others in the department: "MSH [so the Minister] had two main concerns: to establish the necessity of a leaflet and to agree how the inevitable publicity surrounding it should be handled. Officials felt that ministers did not have the option of doing nothing. The main objective of the leaflet was to discourage those who were at most risk from AIDS from giving blood and thereby spreading the infection to patients who needed large amounts of blood, principally haemophiliacs." Then it refers to similar guidance from the American Blood Transfusion Service and the

40 (10) Pages 37 - 40

1	recommendation from the Council of Europe that we've
2	looked at.
3	"Moreover, one of the regional transfusion
4	directors had let slip to the press that a leaflet was
5	in the offing and if nothing was now done, speculation
6	would be rife."
7	Pausing there, sir, there doesn't appear to be
8	any doubt expressed in this minute of the existence of
9	the causal relationship. The question is only should
10	a leaflet be issued, is that the appropriate course,
11	rather than it being suggested that there's
12	insufficient evidence that AIDS was transmitted
13	through blood or blood products.
14	Then we see the minister's response at 3:
15	"MSH accepted the strength of these arguments,
16	he thought the leaflet as drafted read well although
17	he would like it to emphasise more strongly how few
18	cases of AIDS there have been in the UK, perhaps by
19	quoting numbers."
20	Then there's reference to Lord Glenarthur would
21	be answering an oral Parliamentary question about AIDS
22	from Baroness Dudley on 14 July. If she asked about
23	the Blood Transfusion Service, Lord Glenarthur should
24	emphasise that the risk to haemophiliacs was very
25	small.
	41
1	categories of those who appear to be particularly

1	categories of those who appear to be particularly
2	susceptible is set out above under the heading, "Who
3	is at risk of AIDS?" We see there:
4	"Gay men with many different partners, drug
5	addicts using injections, sexual contact with people
6	suffering from AIDS."
7	But yes, it is a request rather than an
8	injunction.
9	SIR BRIAN LANGSTAFF: It obliges the person to say, "Oh,
10	I'm at risk".
11	MS RICHARDS: To self-identify effectively, yes.
12	SIR BRIAN LANGSTAFF: Yes, thank you.
13	MS RICHARDS: Sir, I should say there is other evidence
14	that suggests that the leaflet was published in early
15	September 1983.
16	Then if we could have, please, DHSC0001208
17	and this is probably the last document before we
18	break this is a report of the meeting that took
19	place in the committee the subcommittee of the
20	Committee on Safety of Medicines on 13 July 1983. We
21	do also have the minutes. I am not going to put them
22	up. If anyone wants them, they're at ARCH0001710, but
23	actually the minutes, in terms of content, don't
24	really say anything more than what we have here.
25	"Summary of main points from a consideration of
	13

1	SIR BRIAN LANGSTAFF:   appreciate we're looking at risk
2	at the moment but the subtext of this meeting seems to
2 3	5
-	be that the leaflet itself was saying to people who
4	were in particular risk groups that they shouldn't
5	give blood.
6	MS RICHARDS: Yes.
7	SIR BRIAN LANGSTAFF: Can we go back to the leaflet?
8	MS RICHARDS: Yes, certainly. That is NHBT0020668.
9	SIR BRIAN LANGSTAFF: Does it actually say anywhere in the
10	leaflet that people who are homosexual men who have
11	had many different partners or drug addicts and sexual
12	contacts of people suffering with AIDS should not give
13	blood?
14	MS RICHARDS: The way it is put is under the question
15	at the bottom of the page:
16	"How can risks be reduced?
17	"At present there is no screening test the
18	Transfusion Service can use to detect people with
19	AIDS, so until there is and until more is known about
20	this disease, donors are requested not to give blood
21	if they think they might either have the disease or be
22	at risk from it "
23	SIR BRIAN LANGSTAFF: So it's not particularly specific,
24	is it?
24	MS RICHARDS: No, although it is fair to say that the
20	42

AIDS and licensed blood products by CSMB,
13 July 1983.
"The subcommittee was helped by the following
expert advisers: Professor Bloom, Dr Craske,
Dr Galbraith, Dr Gunson and Dr Mortimer.
"Consideration was given to the current
information available on incidence and epidemiology,
aetiology and related factors. Strategies for
limiting or eliminating risks from blood products were
examined together with possible practical measures.
"The following conclusions were reached:
"(1) The cause of AIDS is unknown but an
infectious aetiology seems likely. A previously
unrecognised or new agent may be responsible.
Heightened susceptibility may be an important factor,
eg immunological deficiencies induced by unusual
sexual practices or exposure to blood products.
"(2) Patients who repeatedly receive blood
clotting factor concentrates appear to be at risk, but
the evidence so far available suggests that this risk
is small. The risk appears to be greatest in the case
of products derived from the blood of homosexuals
and IV drug abusers resident in areas of high
incidence, eg New York and California, and in those
who repeatedly receive concentrates in high dosage.
44 (11) Pages 41 - 44

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

### 24 September 2020

1	Balanced against the risks of AIDS (and of other	
2	infections transmitted by blood products) are the	
3	benefits of their use: in the case of haemophilia they	
4	are life-saving.	
5	"The possibility was considered of withdrawing	
6	clotting factor concentrates from the market and	
7	replacing them with cryoprecipitate. It was concluded	
8	that this is not feasible in the UK on grounds of	
9	supply."	
10	Then the note goes through effectively the	
11	various other options that were considered at the	
12	meeting.	
13	Sir, obviously this is a document you will	
14	return to, I have no doubt, on a number of occasions,	
15	so I won't go through it in detail at this stage.	
16	But we'll see that the possibility was	
17	considered of withdrawing US preparations from the UK	
18	This is point 4. It was concluded that wasn't	
19	feasible on grounds of supply and that:	
20	" the perceived level of risk didn't at	
21	present justify serious consideration of such	
22	a solution."	
23	There was consideration of the position in	
24	relation to pre and post marked 23rd of 1983 supply in	
25	paragraph 5.	
		45

1	PRSE0004729, please, Henry.
2	This is, again, an internal DHSS minute. It's
3	dated 23 August and it's entitled "Use of blood from
4	prisons". Picking it up at paragraph 2:
5	"It's difficult to advise any particular
6	departmental policy on the collection of blood from
7	borstals and prisons at the moment. It's for regional
8	transfusion directors to determine how and from where
9	donations are sought in the light of the targets they
10	need to achieve and the number of donors on their
11	panels.
12	"However, transfusion directors have been aware
13	of the dangers of relying too heavily on prison as
14	a source of donations for some time, i.e. prior to the
15	advent of AIDS as a cause for concern, because of the
16	risk of hepatitis in prisons, also connected with
17	a higher incidence of homosexuality, which can be
18	spread through blood transfusion. Nevertheless
19	although most regions, especially those with no
20	shortage of donors, may not need to use prisons, there
21	is at least one which has to view them as a major
22	source of donations in order to meet targets.
23	"AIDS has now, of course, called to the wisdom
24	of continuing to view prisons as a source of blood
25	even further into question and the directors are due

1	Viral inactivation is considered as a promising
2	future development in point 6. Consideration is given
3	to the hepatitis B vaccine and others and then, at 11,
4	it concludes there's a need for research work on AIDS
5	in the UK.
6	As I say, you will no doubt look at that, sir,
7	with witnesses in due course.
8	In fact, sir, we have reached 11 o'clock or just
9	gone 11.00, so before I move to another document, that
10	may be a convenient point at which to finish.
11	SIR BRIAN LANGSTAFF: That would be a convenient moment.
12	We break off at the position in which the
13	subcommittee is recommending that there be no ban on
14	the importation?
15	MS RICHARDS: Yes.
16	SIR BRIAN LANGSTAFF: Very well.
17	We will come back, as always, in three-quarters
18	of an hour to make sure you have time to go, socially
19	distanced, to pick up the coffee or to be served with
20	coffee or whatever you have. I look forward to seeing
21	you back here at 11.45.
22	(11.03 am)
23	(A short break)
24	(11.45 am)
25	MS RICHARDS: Sir, we move to August of 1983.
	46

to discuss it at their next meeting in September. If the risks are now considered too great to justify continued collection from prisons, some measures will be needed to compensate for the loss of that source of donors. Perhaps, for example, a system whereby regions with no need to rely on prisons can take extra blood to be transferred to those regions for whom loss of prisons as a source of blood will cause difficulties. "I shall of course advise you of any developments which occur. I gather this problem has been debated by transfusion directors in Scotland but no particular policy line emerged. We shall obviously need to liaise closely with Home Office also since they have in the past been very much in favour of blood donation by prisoners." Sir. I draw attention to that because of course we looked in some detail at the sources of blood in America feeding into the pooled plasma and the concentrates used by those with bleeding disorders, but we see here, in August 1983, blood still being collected from prisons and borstals in the United Kingdom and no clear policy line emerging. I'm afraid I don't have a note of what was then, if anything, discussed and concluded at the meeting in

48 (12) Pages 45 - 48

# 24 September 2020

1	September, but I can check that.	1
2	If we then, please, have DHSC0002231_036,	2
3	please, Henry.	3
4	Yes, DHSC0002231_036. This is a letter of	4
5	26 August 1983, so around the same time as the memo.	5
6	It's addressed to the general secretary,	6
7	Clive Jenkins, of the Association of Scientific,	7
8	Technical and Managerial Staffs, and it is from the	8
9	Joint Parliamentary Under-Secretary of State,	9
10	Lord Glenarthur. I draw attention only to the second	10
11 10	paragraph:	11 12
12 13	"I think I should emphasise, firstly, that there is no conclusive evidence that AIDS is transmitted	12
13	through blood products."	13
14	So as at the end of August 1983, that is still	14
16	the Government's articulated public position. Then he	15
17	goes on to say:	10
18	"Nevertheless, we are taking all practicable	18
19	measures to reduce any possible risks to recipients of	10
20	blood and blood products. Our scope for action in	20
21	this is limited as there is no means of testing for	20
22	the presence of AIDS in blood donors or in blood	22
23	products."	23
24	Then there's a reference to various specific	24
25	issues.	25
	49	
1	been reported to the Centers for Disease Control.	1
1 2	been reported to the Centers for Disease Control. There is thought to be considerable under-reporting.	1 2
1 2 3	There is thought to be considerable under-reporting.	1 2 3
2	•	2
2 3	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says:	2 3
2 3 4	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in	2 3 4
2 3 4 5	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct	2 3 4 5
2 3 4 5 6	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called	2 3 4 5 6
2 3 4 5 6 7	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the	2 3 4 5 6 7
2 3 4 5 6 7 8	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease."	2 3 4 5 6 7 8
2 3 4 5 6 7 8 9	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is	2 3 4 5 6 7 8 9
2 3 4 5 6 7 8 9 10	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs.	2 3 5 6 7 8 9 10
2 3 4 5 6 7 8 9 10 11	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just	2 3 4 5 6 7 8 9 10 11
2 3 4 5 6 7 8 9 10 11 12	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease":	2 3 4 5 6 7 8 9 10 11 12
2 3 4 5 6 7 8 9 10 11 12 13	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients	2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease may vary from several months up to four years. "Spread of the disease.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease. "Spread of the disease. "The pattern which emerges is of a disease which	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease. "Spread of the disease. "The pattern which emerges is of a disease which appears to be transmitted predominantly by male	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease. "Spread of the disease. "The pattern which emerges is of a disease which appears to be transmitted predominantly by male homosexual activity but also by heterosexual means.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease. "Spread of the disease. "The pattern which emerges is of a disease which appears to be transmitted predominantly by male homosexual activity but also by heterosexual means. As a secondary method of spread, contaminated needles	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease. "Spread of the disease. "Spread of the disease. "Spread of the disease. "Spread of the disease. As a secondary method of spread, contaminated needles used by drug addicts and the transfusion of blood and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	There is thought to be considerable under-reporting. Then there's reference to 75 per cent occurring in male homosexuals. Then it says: "Homosexuals, together with three other distinct groups of individuals, comprise the so-called '4-H List' of those particularly susceptible to the disease." They are there set out, the last of which is haemophiliacs. Then if we carry on down, we see it says just above the heading "Spread of the disease": "A handful of cases have developed in recipients of ordinary blood transfusions, and these have provided valuable evidence to indicate that the incubation period for the disease. "Spread of the disease. "The pattern which emerges is of a disease which appears to be transmitted predominantly by male homosexual activity but also by heterosexual means. As a secondary method of spread, contaminated needles	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

1	abusers, haemophiliacs and recipients of blood
2	transfusions.
3	"Haemophiliacs seem at greatest risk of
4	acquiring AIDS in this way since the clotting factor
5	which they need is prepared from the pooled plasma
6	from many thousands of donations."
7	Then we go down to the heading, "Cause of AIDS":
8	"The cause of AIDS is unknown but the evidence
9	is suggestive that it may be a virus."
10	Then if we go to the next page, please, under
11	the heading haemophiliacs:
12	"It is thought that the greatest risk to
13	haemophiliacs at present is from the use of
14	Factor VIII concentrate prepared from American plasma.
15	Although the BPL is to be redeveloped over the next
16	three years at the cost of £21 million to achieve
17	national self-sufficiency in blood products, until
18	this time some 50 per cent of the Factor VIII
19	concentrate needed to treat haemophilia will have to
20	be imported mainly from the USA. In March of this
21	year the FDA instituted new regulations governing the
22	selection of plasma donors, which were aimed at
23	excluding as far as possible donors from high-risk
24	groups. The Department's medicines and supply
25	divisions are endeavouring to ensure that there will
	(13) Pages 49 - 52

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17 18

19

20

21

22

23

24

25

case:

### 24 September 2020

1	be no dumping of high-risk plasma products on the UK	
2	market and are seeking various assurances from the	
3	manufacturers in relation to the quality of their	
4	products. It should be noted that certain commercial	
5	manufacturers are proposing to introduce heat treated	
6	Factor VIII concentrate. There's no evidence	
7	whatsoever that such material reduces the risk of	
8	transmitting AIDS."	
9	So you will see there, sir, in September 1983	
10	identification of the risk to haemophiliacs in those	
11	fairly stark terms. That is only a month or so after	
12	the letter from Lord Glenarthur suggesting no	
13	conclusive evidence of AIDS being transmitted through	
14	blood products.	
15	A few days after this document at PRSE0004533	
16	we have the report in The Guardian of the first AIDS	
17	fatality in a British haemophiliac. If we then move	
18	two or three weeks after that to PRSE0004440, please.	
19	No, that's not it. Don't worry, I can read the	
20	relevant passage it may be that the references have	
21	changed.	
22	This is on 17 October 1983. It's the 14th	
23	meeting of the UK haemophilia centre directors and	
24	it's a document we'll look at I have no doubt with	
25	a number of witnesses.	
		53

1	SIR BRIAN LANGSTAFF: Just pausing there, it's an
2	abbreviated record of the meeting so one doesn't know
3	quite what was said, but as reported the words are "no
4	proof that commercial concentrates were the cause of
5	AIDS."
6	That's rather different than saying a virus was
7	the cause of AIDS, is it not?
8	MS RICHARDS: It is, sir.
9	SIR BRIAN LANGSTAFF: Because whatever was the cause of
10	AIDS, assume for the moment it is unknown, it might
11	have appeared that commercial concentrates were
12	transmitting it.
13	MS RICHARDS: Yes. It is not articulated in that way. It
14	is of course a compressed set of minutes and not
15	a verbatim record.
16	SIR BRIAN LANGSTAFF: So it may simply be a reflection of
17	a much larger bound to be a reflection of a much
18	larger discussion.
19	MS RICHARDS: It may be but the outcome, in any event, is
20	clearly recorded in the minutes and the minutes were
21	disseminated as I understand it is the usual practice
22	to haemophilia centres, the outcome was don't
23	encourage patients to switch to cryoprecipitate.
24	Could we then please have, Henry we're moving
25	to the following month, November 1983 PRSE0002122, 55

1	In the course of that meeting of haemophilia	
2	centre directors in October, the minutes record this:	
3	"Dr Chisholm [who was I think the director in	
4	Southampton] raised the problem of patients refusing	
5	to take up commercial Factor VIII concentrate because	
6	of the AIDS scare. She wondered in view of the worry	
7	of the patients whether the directors could revert to	
8	using cryoprecipitate for home therapy.	
9	Professor Bloom replied that he felt there was no need	
10	for patients to stop using the commercial concentrates	
11	because at present there was no proof that the	
12	commercial concentrates were the cause of AIDS.	
13	Dr Chisholm pointed out that there was a further	
14	problem in her region because of problems in getting	
15	large amounts of commercial concentrates whereas she	
16	could get unlimited supplies of cryoprecipitate.	
17	Other directors reported that they had the same	
18	problems. After discussion, it was agreed that	
19	patients should not [and that's underlined in the	
20	minutes] be encouraged to go over to cryoprecipitate	
21	for home therapy but should continue to receive the	
22	NHS or commercial concentrates in their usual way."	
23	Again, sir, one key question for you will be	
24	whether that was an appropriate response on behalf of	
25	the haemophilia centre directors as at October 1983.	
		54

thank you. I want to see the whole document. Sir, you will see this is copies of two newspaper reports, one from the Daily Telegraph and one from The Guardian and then there's a handwritten entry at the bottom. We'll just zoom in on the Guardian item, "US blood caused AIDS". It says this: "The British haemophiliac who died from AIDS almost certainly caught the disease from contaminated supplies of blood clotting agent Factor VIII, imported from the US, doctors report today. The man, aged 55, caught AIDS a few weeks after being given US Factor VIII for the first time. Hitherto, he had been treated exclusively with British supplies. It seems highly probable that the development of AIDS was related to this treatment. This case provides further evidence for a link between blood products and AIDS ...." That's a quote from Dr Daly, Dr Helena Daly and Dr Jeffrey Scott from the Bristol Royal Infirmary from a report in The Lancet. There is a reference to that. I won't go to it, but The Lancet report is PRSE0004509. Then it's referred to a haemophiliac in Cardiff having developed the disease. This was the Bristol

56 (14) Pages 53 - 56

1	"Bristol man was given a large amount of US	1	14 November 1983, top right-hand corner, Mrs Currie
2	Factor VIII in December 1981, fell ill in January",	2	asked the Secretary of State for Social Services what
3	et cetera, et cetera.	3	advice has been given to hospitals concerning the use
4	So that's reported in The Guardian. I think the	4	of imported Factor VIII in the light of recent concern
5	actual date of the report is 18 November of 1983.	5	about its possible contamination with the causative
6	If we zoom out, please, to the handwritten	6	agent of AIDS. Mr Kenneth Clarke:
7	entry. This is a Department of Health document, just	7	"There is no conclusive evidence that acquired
8	slightly back, thank you. Someone's written:	8	immune deficiency syndrome (AIDS) is transmitted by
9	"Have you seen? On X is it okay for me to	9	blood products. The use of Factor VIII concentrates
10	continue to say there is no conclusive proof that the	10	is confined almost exclusively to designated
11	disease has been transmitted by American blood	11	haemophilia centres whose directors and staff are
12	products."	12	expert in this field. Professional advice has been
13	Then we have an answer:	13	made available to all such centres in relation to the
14	"Thanks. Yes, it is okay."	14	possible risks of AIDS from this material."
15	Now, our understanding at least of who wrote the	15	That, as I say, may possibly pre-date the or
16	answer is that it's Dr Diana Walford within the	16	may pre-date the handwritten note we've just looked at
17	Department of Health and Social Security. If we zoom	17	but if we then go to ARCH0000679, please, we can se
18	back out again, the X is, as we can see, an X that's	18	now this is 16 December 1983, so on any view this
19	marked by what Dr Daly and Dr Scott have reported in	19	would seem likely to post date the handwritten note,
20	The Lancet.	20	"Is it okay for me saying this", answer, "Yes, it is".
21	We can see the handwritten note is not dated but	21	It is a letter from Lord Glenarthur responding to an
22	I understand the Guardian report is to be 18 November.	22	MP's letter addressed to Kenneth Clarke and it says in
23	I will double-check that. It would fit with the date	23	the second paragraph this:
24	of The Lancet, I think. We can see a Parliamentary	24	"I can well appreciate the anxiety, particularly
25	question just a few days before that, PRSE0000886,	25	amongst haemophiliacs and their families which recent
	57		
1	press reports on AIDS may have caused and would, first	1	regulations designed to exclude donors from high-risk
2	of all, like to put matters into perspective: the	2	groups.
3	cause of AIDS is as yet unknown and there is no	3	Then says:
4	conclusive proof that the disease has been transmitted	4	"There is still a quantity of stock which has
5	by American blood products."	5	been made from pre-March plasma. The FDA has rec
6	Then it goes on to give an assurance that the	6	decided not to ban the use of such stocks because to
7	Government is committed to making the country	7	do so would cause a crisis of supply. The same
8	self-sufficient and various factual information is	8	considerations apply here."
9	there set out.	9	SIR BRIAN LANGSTAFF: So what that means is, is it, th
10	Sir, I am then going to move on to April 1984	10	a pre-March plasma collected from high-risk groups wa
11	and I should emphasise there is a vast amount of	11	still going to be made available here?
12	documentation from this time as one would expect both	12	MS RICHARDS: Yes.
13	emanating from the Department and from	13	SIR BRIAN LANGSTAFF:   see.
14	SIR BRIAN LANGSTAFF: Just a moment. Before you leave	14	What's the next line?
15	that, just scanning down, it refers, does it, to "the	15	"We are anxious to minimise the possible risk o
16	imports prepared from plasma collected after March	16	the transmission of AIDS by blood donation."
17	this year", the same paragraph, subject to new	17	MS RICHARDS: " by blood donation."
18	regulations initiated by the US FDA.	18	So then there's reference to the leaflet.
19	MS RICHARDS: Yes. So it refers to the expenditure on	19	SIR BRIAN LANGSTAFF: So that's talking about someth
20	BPL, then it says:	20	different?
21	"Meanwhile, in the absence of a satisfactory	21	MS RICHARDS: Yes. Let me just check the full text of th
22	alternative, we shall be dependent upon imports from	21	letter. Yes, it just finishes with the leaflet, and
23	the USA for an adequate supply of Factor VIII."	23	it encloses a copy of the leaflet.
24	Then there is reference to imports prepared from	23	So, sir, the next document is from April 1984.
25	plasma collected after March being subject to new FDA	24	Obviously, there continues to be a significant amount
20	plasma concerca and march being subject to new 1 DA	20	obviously, more continues to be a significant amount

59

ossible risks of AIDS from this material." That, as I say, may possibly pre-date the -- or ay pre-date the handwritten note we've just looked at ut if we then go to ARCH0000679, please, we can see ow this is 16 December 1983, so on any view this ould seem likely to post date the handwritten note, Is it okay for me saying this", answer, "Yes, it is". is a letter from Lord Glenarthur responding to an IP's letter addressed to Kenneth Clarke and it says in ne second paragraph this: "I can well appreciate the anxiety, particularly mongst haemophiliacs and their families which recent 58 egulations designed to exclude donors from high-risk roups. Then says: "There is still a quantity of stock which has een made from pre-March plasma. The FDA has recently ecided not to ban the use of such stocks because to o so would cause a crisis of supply. The same onsiderations apply here." RIAN LANGSTAFF: So what that means is, is it, that pre-March plasma collected from high-risk groups was till going to be made available here? CHARDS: Yes. RIAN LANGSTAFF: I see. What's the next line? "We are anxious to minimise the possible risk of e transmission of AIDS by blood donation." CHARDS: "... by blood donation." So then there's reference to the leaflet. RIAN LANGSTAFF: So that's talking about something ifferent? CHARDS: Yes. Let me just check the full text of the etter. Yes, it just finishes with the leaflet, and encloses a copy of the leaflet. So, sir, the next document is from April 1984. bviously, there continues to be a significant amount 60 (15) Pages 57 - 60

24 September 2020

1	of material generated by Department, Regional
2	Transfusion Directors, Haemophilia Centre directors
3	and the like, but that will all be further examined in
4	the course of the Inquiry's hearings. For present
5	purposes we move to 23 April 1984 and the press
6	conference announcement by Dr Robert Gallo. That's at
7	DHSC0000455.
8	I won't go through the entirety of it but we can
9	just see there it's said that:
10	"Scientists have discovered that variants of
11	human cancer virus are the probable cause of AIDS.
12	This should make it possible for there to be a test.
13	Dr Robert Gallo, who directed the research, isolated
14	the new group of viruses. They are variants of
15	a family of viruses known as HTLV of which HTLV-I
16	and II are members. The new virus is named HTLV-III."
17	We will see in the documentation from then on
18	until the name "HIV" is given that the virus is
19	referred to generally as HTLV-III.
20	May of 1984, then.
21	PRSE0001094.
22	This is one of various Haemophilia Society
23	communications, and again these are documents we're
24	going to be looking at, I've no doubt, time and again.
25	This is, we'll see, May 1984.
	61
1	Again, no doubt when we hear from relevant
2	clinician witnesses, including Professor Lee, we'll be
3	wanting to consider with her the terms in which that
4	articulation of incidence and risk was expressed.
5	Sir, if we go briefly to DHSC0000443, page 233,
6	sir, we're now in August of 1984. If we go to the
7	second page, this is an internal DHSS document. It's
8	commenting on the publication of a paper in The Lancet
9	and a publication in The Guardian on the use of
40	n and a particular to the AIDO device of the locality of

a screening test for AIDS devised by the Institute of Cancer Research in the Middlesex Hospital. So in August 1984 it was reported that a test in relation to detecting the HTLV-III virus was underway, and details are given of that. Then if we go to the third page, please, Henry, so the next page, we see under the heading "Haemophiliac patients with antibody to HTLV-III": "The proportion of haemophiliac patients amongst the relatively small total number tested ..." I'm skipping over but there had been a number of tests undertaken: "... is high. It must be stressed that at present the significance of this finding is not yet 

We go to the second page and you saw this,	
sir, in the course of evidence from individuals last	
year it's an update on AIDS by Dr Christine Lee,	
then Senior Registrar in the Royal Free.	
We'll see it says:	
"The occurrence of AIDS in haemophiliac patients	3
has strongly suggested transmission of the order by	
blood products, and epidemiological studies have	
suggested it may be related to a transmissible agent."	
Then she refers to the report that we've just	
looked at and also to the work in Paris, and then says	
this in the second paragraph:	
"In Great Britain the number of haemophiliacs	
who have been reported with AIDS remain at two, thus	
the incidence is less than 1 in 1,000 patients at	
risk."	
Then she goes on to if we go further down,	
Henry, in the third paragraph talk about:	
"The prospects for resolving problems are	
brighter for haemophiliacs since improvements in	
plasma fractionation are likely to make it possible to	
remove or inactivate causal agents from therapeutic	
products."	
She refers to the prospect of heat treatment.	
So that's The Haemophilia Society publication.	
	6

evidence that haemophiliac patients are a group at	
risk, presumably because of the therapy they require	
with Factor VIII, most of which is derived from human	
blood."	
They then say at the last sentence of that	
paragraph:	
"Until a test is developed that can be used to	
screen all blood donations, no guarantee can be given	
that donations are free from the AIDS agent."	
If we then move to November 1984, picking up or	n
this issue of the development of a test, at	
DHSC0000435 we see this. It's a minute dated	
23 November 1984 from one departmental official to	
another:	
"The briefing session last night with MSH [which	
is presumably still Kenneth Clarke] for his ITV	
interview revealed that he has strong views on	
spending money on the blood test for HTLV-III. He	
felt that to spend around £2 million was not	
cost-effective when there were so few AIDS cases and	
the money could be better spent elsewhere. I paraded	
a number of arguments, including that widespread use	
was a virtual certainty in the US, demonstrating	
publicly we were doing all we could to show that our	
blood is safe, the parallel with hepatitis. Clearly	•
	64

(16) Pages 61 - 64

	-
1	we will need to play a strong devil's advocate role
2	with the working group next week. I would be grateful
3	if we could look out some figures about hepatitis
4	testing."
5	Then further reference to a donor leaflet.
6	It may be that's a revised version of the
7	leaflet, I'm not sure.
8	Then if we go, please, to DHSC0002309_057. This
9	is dated 30 November 1984. Again, it's an internal
10	departmental minute and it says:
11	"Ministers will wish to be aware of three
12	incidents of UK blood being given by donors found
13	positive by the screening test for HTLV-III antibody.
13	In one case the infection had been transmitted to
15	a number of recipients, none of whom has yet developed
16	AIDS but this is a possibility."
17	The background is then set out. Then it says at
18	(3):
19	"Knowledge of these incidents is becoming more
20	widespread and is likely to reach the media before
21	long. Haemophilia Centre Directors managing the
22	haemophiliacs involved may well feel that they have to
23	inform their patients of the situation."
24	It seems to be left to the clinicians to make
25	that decision. Then if we go please to TYWE0000048,
	65
1	advice":
2	"Our conclusions and advice are as follows: from the
3	available evidence a change from using conventional
4	commercial Factor VIII to using commercial heat
5	treated Factor VIII appears to carry little risk but
6	offers substantial advantages. It should be
7	appreciated however that these advantages, though
8	likely, are not proven and we cannot exclude the
9	possibility that even heat-treated commercial
10	Factor VIII concentrates do not transmit AIDS."
11	SIR BRIAN LANGSTAFF: That should be "do" transmit AIDS,
12	
12	shouldn't it? "Can't exclude the possibility that they do transmit it".
	•
14 45	MS RICHARDS: That's probably right, yes, sir.
15 16	SIR BRIAN LANGSTAFF: So the "not" is misplaced.
16	MS RICHARDS: Then:
17	"We believe on balance that the use of NHS
18	Factor VIII should be discontinued until after
19	April 1985 when material from this source will also
20	undergo prior heat treatment."
21	Then if we carry on:
22	"We advise the continued use of cryoprecipitate.
23	10to annuat identific annua af baanan bilina untionta udea
	We cannot identify groups of haemophiliac patients who
24	would be likely to benefit from heat-treated

th	is is a document internal to Newcastle District
H	ealth Authority, report of an ad hoc group to
cc	onsider the use of heat-treated Factor VIII
cc	oncentrate, so heat treatment is now potentially
a	/ailable.
	If we go to the second page under the heading
4"	Acquired immunodeficiency syndrome", if we just go
do	own please to the second paragraph:
	"90 individuals are believed to have died from
A	IDS in the UK including two heterosexual haemophiliac
ра	atients. Because of the known haematogenous
tra	ansmission of AIDS, haemophiliacs are at clear and
sp	pecial risk of contracting the disease. 74 per cent
of	haemophiliacs in the USA, 53 per cent of West
G	erman haemophiliacs and 34 per cent of London
ha	aemophiliacs have antibodies to the putative AIDS
vi	rus. It is not known at present what proportion of
ha	aemophiliacs attending the Northern Regional Centre
ha	ave antiviral antibodies but the information will be
a	vailable soon. There is no reason to believe that
th	e incidents will be less than that in London
ha	aemophiliacs and we know that one patient has
cc	pontracted the disease in Newcastle."
	Then if we go to the last but one page, please,
th	ere's then under the heading "Conclusions and

special risk from conventional commercial Factor VIII,
apart from those without previous exposure to any
Factor VIII concentrate."
Then they say they have not taken into account
the economic consequences of change. That's for the
authority and its officers. Then if we go to the next
page, please, there the recommendations are there set
out, and we can see it's a note authored by Professor
Rawlins, Dr Jones the director of the Newcastle
Haemophilia Centre, and others. So by December or in
December, early December of 1984, the Newcastle
District Health Authority it would appear has
recognised what it calls this clear and special risk
to haemophiliacs and proposes to take action to use
heat-treated products. Again, the timing of that
decision and decisions of that kind will be a matter
explored in due course with relevant witnesses I hope.
Then two further key documents from
December 1984. I am not going to put them on screen,
sir, in the interests of saving time but we will be
looking at them again I've no doubt with witnesses.
It was on 10 December 1984 that a special
meeting of Haemophilia Reference Centre directors and
a handful of others was held at Elstree and
recommendations were drawn up as to what products
68 (17) Pages 65 - 68

		a inquiry	
1	should or should not now be used.	1	
2	The references for that, sir, are Henry,	2	
3	there's no need to put it up but HCDO0000394_117.	3	
4	It's the note of the 10 December 1984 meeting and then	4	
5	the guidelines drawn up as a result of it which are	5	
6	dated 14 December 1984 is at HCDO0000270_007. So it's	6	
7	in December of 1984 that the Haemophilia Centre	7	
8	Directors finally take some form of decision and	8	
9	action and one key issue for you, sir, will be whether	9	
10	that was too late.	10	
11	Two further references, sir, again without	11	
12	needing to go to the documents. In January 1985 two	12	
13	new groups were formed and began to meet: the	13	
14	Haemophilia Centre Directors set up its AIDS group and	14	
15	they met for the first time on 11 January 1985, and	15	
16	then 29 January 1985 was the first meeting of	16	
17	something called the Expert Advisory Group on AIDS,	17	
18	EAGA, which was an advisory group set up by the	18	
19	Department of Health and, again, one question for you,	19	
20	sir, will be whether those are steps that should have	20	
21	been taken at an earlier stage and, if so, when.	21	
22	In January 1985 one of the pressing issues, and	22	
23	again this will be explored at a later stage, is the	23	
24	question of the introduction of a test to screen blood	24	
25	donations. We will just, I think, look at two 69	25	
	09		
	· · · <u>-</u> · · · · · · ·		
1	have been donors. The confidence of patients will be	1	
2	lost if they cannot be assured that they will not	2	
3	contract AIDS infection from transfusions."	3	
4	Then various facts and figures are set out in	4	
5	relation to the introduction of a screening test.	5	
6	Then if we look at one further document from	6	
7	this month, DHSC0002482_012 this is I think a fairly	7	
8	well known document now. It's from it's dated	8	
9	22 January. It's authored by Kenneth Clarke, the then	9	
10	Minister of State for Health. It refers to the	10	
11	submission and says this:	11	
12	"This looks inevitable I suppose. Could I have	12	
13	drafts please of the proposed public announcement.	13	
14	Could I have a draft of a letter to go to all chairmen	14	
15	of all RHAs explaining our proposals, how did Wellcome	15	
16	corner this market", et cetera, and then in the last	16	
17	paragraph this:	17	
18	"Before we all panic further, it is presumably	18	
19 00	the case that the ending of the collection of blood	19	
20	from homosexuals greatly reduces the risk from blood	20	
21	collected in this country? Also, as only	21	
22	haemophiliacs have died and they may have had	22	<u></u>
23	Factor VIII from American blood, is it the case that	23	SIF
24	we have not had one AIDS fatality from blood donated	24	MS
25	in this country yet? Do we need this and heat	25	

documents in relation to that. DHSC0000562, please, Henry.

This is a submission to ministers on the question of screening or draft submission, in any event, screening blood donations for AIDS antibody. It's dated 11 January 1985.

If we go to the second page we can see the purpose of the submission. It describes the public health problem that the spread of AIDS presents and the need to reduce it as far as possible the risk of its transmission by blood and blood products. It seeks ministers' agreement in principle to the introduction of a test to screen all blood donations for evidence of infection with the AIDS virus.

It then gives background in terms of numbers of cases, routes of transmission. We see at 2(c) it is now said in terms:

"AIDS can be transmitted by sexual contact and by transfusion of blood and blood products."

Then top of the next page under the heading 4, "Need for a screening test":

"While the campaign to dissuade high risk groups from donating blood is an important interim measure, it is not enough. Experience has shown that people with the active disease and others who are infected

treatment of the blood?"

Sir, there is then I think at MDIA0000039 a document that you may find useful in relation to knowledge of risk. This is a letter in The Guardian from Professor Hardisty who was director of the haemophilia centre at GOSCH. He is responding to a letter from the mother of a 9-year old haemophiliac boy. He says this in the second paragraph: "The facts are these. AIDS was first described early in 1981 and the first case in a haemophiliac was reported to the Center for Disease Control in the United States later that year. Medical intelligence travels fast and these facts were well known to this, as to all British haemophilia centres at that time. Although the occurrence in haemophiliacs provided strong evidence that the disease could be transmitted by blood products, however, it was not until 1984 that the causative virus was identified." So, sir, I just draw attention to that for the statement from Professor Hardisty that medical intelligence travels fast and that these facts were well known to haemophilia centres. R BRIAN LANGSTAFF: That time would be July 1982. S RICHARDS: Yes, it would. That is the date of the

first report from CDC in relation to a haemophiliac.

72 (18) Pages 69 - 72

1	SIR BRIAN LANGSTAFF: He does say the first case was	1
2	reported later that year, '81, but he has got that	2
3	date wrong, has he?	3
4	MS RICHARDS: He has.	4
5	In the course of 1985, again there is	5
6	a significant amount of important material relating to	6
7	the speed or lack of speed in introducing or making	7
8	available tests and expressions of concern at delays	8
9	or limited availability of heat treated product and	9
10	centres still using non-heat treated products. Those	10
11	are all matters that will be explored over the coming	11
12	months, so I'm not going to go to those documents now.	12
13	I do just draw your attention, I'm not going to	13
14	ask to put it up on screen, but picking up upon the	14
15	issue of non-A, non-B hepatitis, research by Professor	15
16	Preston was discussed by the Haemophilia Centre	16
17	Directors' Hepatitis Working Party in February of 1985	17
18	and reported in I'm trying to find the	18
19	publication The Lancet in June of 1985 authored by	19
20	Professor Preston and Professor Haye and, obviously,	20
21	that's material that we will be exploring further with	21
22	appropriate witnesses.	22
23	Sir, I'm going to then pick matters up now in	23
24	1986 in relation to non-A, non-B hepatitis. If we	24
25	have up on screen PRSE0004555 we see if we thank	25
	73	
1	"Dear lan,	1
2	"Non-A, non-B hepatitis surrogate testing.	2
3	I have a feeling that as the drums are beating louder	3
4	and louder in other parts of the world on this topic	4
5	the Brits remain fast asleep. I may be wrong but	5
6	I would like to be better briefed on the matter."	6
7	He suggests planning a consensus meeting,	7
8	inviting a number of experts and transfusion service	8
9	directors to make some recommendations to the	9
10	Department of Health.	10
11	If we then, please, have I'm not sure whether	11
12	this is the right reference but we will try it.	12
13	Henry, BNOR0000323.	13
14	This is in extract from Hansard,	14
15	20 November 1986. The question is asked of the	15
16	Secretary of State when the Department first became	16
17	aware that AIDS could be transmitted through blood and	17
18	blood products, and it's instructive to see the answer	18
19	of Mr Newton for the Secretary of State:	19
20	"We became aware in 1982 of reports from the USA	20
21	that haemophiliacs were contracting AIDS. Although	21
22	the mechanism of infection was not known, it was	22
23	presumed that it had been transmitted through the use	23
24	of blood products such as Factor VIII. Evidence that	24
25	the AIDS infection could also be transmitted by blood	25

	you we can see:	
	"Blood Bank Week American Association of Bloo	d
	Banks publication 21 February 1986", and this gives us	
	sufficient information for what we need:	
	"FDA advisory panel recommends surrogate testi	ing
	for non-A, non-B hepatitis."	
	We'll obviously again in due course be exploring	
	the UK consideration of whether or not to introduce	
	surrogate testing.	
1	There's an editorial in August of 1986 in The	
	Lancet that it may be worth looking at, PRSE0001137	
	called "Safer Factor VIII and IX." We will just see	
	that it says in the opening paragraph:	
	"The risk of contracting non-A, non-B hepatitis	
i	from Factor VIII and IX concentrates was first	
i	recognised ten years ago."	
,	Then reference again to large pools of plasma.	
ł	I can't, I'm afraid, find the reference at the moment	
1	but there is a reference in here to it now being clear	
1	that there's a substantial risk of chronic sequelae in	
	relation to non-A, non-B hepatitis.	
	Then if we look at PRSE0002109, still on the	
	topic of surrogate testing for non-A, non-B hepatitis,	
	this is Dr Cash to Dr Fraser of the Bristol Regional	
	Transfusion Centre, 28 August 1986:	-7 4

transfusion emerged from the USA in 1983." Whether there was a tension between that and the public statements of the Department and of ministers in the course of 1983 will no doubt be a matter, sir, that you consider further. Then, returning to hepatitis, in November of 1986 there was a -- Transfusion Hepatitis Working Party reconvened. I will give you, sir, the reference but won't go to it. It's NHBT0000023\_007. That's 24 November 1986. There are various publications in 1987 which look at the issue of surrogate testing and the non-introduction in the United Kingdom of surrogate testing. Then we get to April 1988. If we could have, please, PRSE0003126, we will see there: "Hepatitis non-A, non-B virus discovered. "Researchers at Chiron Corp announced Tuesday they have isolated and cloned proteins from the virus responsible for non-A, non-B hepatitis. If true, this discovery is a major breakthrough for transfusion medicine because 90 to 95 per cent of patients with post-transfusion hepatitis are considered to be infected with the non-A, non-B strain, and we're told that a screening test (an ELISA test) to detect

#### 24 September 2020

1	antibodies is being submitted for approval."	1
2	December 1988, so December of that year	2
3	PRSE0002580 we see a publication in The Lancet:	3
4	"Chronic liver disease and haemophilia."	4
5	Sir, in what perhaps may be thought to be an	5
6	understatement:	6
7	"These are difficult times for haemophiliacs.	7
8	Initial optimism in the early '70s that introduction	8
9	of clotting factor concentrates might restore patients	9
10	to good health with normal life expectancy has given	10
11	way to an increasing appreciation of the hazards	11
12	produced by the contaminants of these preparations."	12
13	And reference there to HIV and then it says:	13
14	"Less dramatic but no less prevalent has been	14
15	infection with hepatitis viruses."	15
16	Then it refers to non-A, non-B as the major	16
17	problem.	17
18	"Acute post-transfusion hepatitis and chronic	18
19	increases in liver enzyme concentrations have long	19
20	been associated with Factor VIII and Factor IX	20
21	concentrate infusion, but those caring for	21
22	haemophiliacs were slow to accept chronic progressive	22
23	liver disease as an important complication."	23
24	Then it goes on to consider the further	24
25	discussion of that. If we look in the right-hand	25
	77	
1	I have to answer: the question whether we should have	1
2	introduced surrogate testing, which we never did; and	2
3	secondly, whether there was a delay in testing for the	3
4	virus itself once it had been cloned by Chiron and	4
5	a test was available.	5
6	MS RICHARDS: Precisely. Sir, I won't take time going to	6

MS RICHARDS: Precisely. Sir, I won't take time going to
it but there's an important study in November 1989
published in the New England Journal of Medicine by
Alter and others. It's PRSE0002501 and it looks at
what the benefits could have been of the introduction
of surrogate testing.

12 There is then in the course of 1990 and the 13 dates and references, all given in the chronology that core participants have, a series of meetings of the 14 15 advisory committee on the virological safety of blood 16 which consider the introduction of screening. There's 17 a deferral of decisions. We get to July 1990 and 18 there's a recommendation of the meeting that the UK 19 should introduce hepatitis C testing and then we have 20 in October of 1991 an 11th meeting of that committee, 21 the Advisory Committee on the Virological Safety of 22 Blood considering recommendations in relation to HCV 23 testing and the results of the first HCV test trials 24 and the possibility of look-back study although no 25 decision then taken.

	column, second paragraph, the last two sentences:
	"The evidence that chronic progressive liver
	disease is an important complication of haemophilia
	treatment is, therefore, becoming increasingly
	persuasive. Furthermore, experience with other types
	of viral hepatitis suggests that cirrhosis and
	hepatocellular carcinoma may first appear decades
	after infection."
	Then the question is asked about what can be
)	done, and then the next paragraph:
	"Recognition of the seriousness of liver disease
2	in haemophiliacs demands action on several fronts" and
3	various matters there then set out, which again, sir,
ŀ	you will no doubt be considering.
5	Then we come to 1989. I don't think I need to
6	take you to the documents but we will see, for
7	example, in April of 1989, in the Science journal, the
}	announcement of development of a test for HCV
)	antibodies. In the course of 1989, we see various
)	studies evaluating competing tests. A key question,
	sir, for you will be obviously whether there were
2	delays in implementing any of that knowledge in the
3	United Kingdom.
ŀ	Without going to it
5	SIR BRIAN LANGSTAFF: So I have two separate questions 78

That brings us effectively to the autumn or close of 1991. I've galloped fairly quickly through those materials but they are all available and will all be considered in due course, sir, with relevant witnesses at suitable hearings. I wanted to finish, sir, this presentation with 7 looking at a documentary in 1995. It's called Bad 8 Blood. It's a Panorama documentary. It will take us 9 probably to 1.05 or thereabouts but I think it will be 10 instructive, not least because of what is said by Dame Sheila Sherlock and others in the course of the 11 12 programme about the seriousness of non-A, non-B 13 hepatitis, now known as hepatitis C. 14 Henry, it's BBCO000003. 15 (Documentary, Bad Blood, played) 16 MS RICHARDS: So that's what I propose to finish this 17 presentation with. As I hope has been obvious from 18 the presentation, it is intended very much as an 19 introduction and not as a conclusion on any of the 20 issues that have been raised. 21 The knowledge of risk chronology that we've 22 shared with Core Participants is a document that will 23 no doubt develop and be added to as more and more 24 evidence is heard, and so if Core Participants have 25 any particular material they wish to draw to our

80 (20) Pages 77 - 80

# 24 September 2020

1	attention we would invite them very much to do so.
2	But, sir, that completes this and we'll turn after
3	lunch to Professor Bloom and Cardiff.
4	SIR BRIAN LANGSTAFF: Thank you very much. You have posed
5	a number of questions for me to answer. There will
6	undoubtedly be other questions which come from this
7	material and whatever other material is joined to it,
8	so that I have a full view of everything that there is
9	to see by the time I come to write my report. Thank
10	you very much.
11	Ladies and gentlemen, 2.10 if you please.
12	(1.12 pm)
13	(Luncheon adjournment)
14	(2.10 pm)
15	SIR BRIAN LANGSTAFF: Just so that you know, what we shall
16	do, we shall aim to have the next break at 3 o'clock
17	as usual or thereabouts but, because the numbers are
18	smaller than they were yesterday, I think perhaps
19	half-an-hour should be long enough for you to have
20	refreshment. We can come back then, we won't lose any
21	time off the hearing, but then finishing at or just
22	after quarter past 4, so that if any of you have
23	arrangements for travelling on tonight you know what
24	time we are likely to finish sometime between 4.15
25	and 4.30 but probably much nearer quarter past. 81
	01
1	doctor with ultimate responsibility for the treatment
2	of patients with bleeding disorders at that centre.
3	Secondly, his decisions and actions, in
4	particular in his capacity as chair of the Haemophilia
5	Centre Directors Organisation between 1979 and 1985
6	critical years influenced the decisions and actions
7	of other haemophilia clinicians.
8	Thirdly, his influence clearly extended beyond
9	haemophilia care because he was involved in, belonged
10	to or advised a number of other bodies, committees or
11	groups. The documents suggest he therefore played
12	a particularly influential role in shaping the
13	response at a national level, or, in any event, in
14 15	relation to England and Wales, to the arrival of AIDS.
15	To give a flavour of the groups of which he was
16 17	a member or a participant, at some time at least, he
17 19	joined, in 1976, an expert group on the treatment of
18 19	haemophilia and allied conditions, which was a group
20	advising the Department of Health and Social Security.
20 21	He was a member of The Haemophilia Society's medical advisory papel from 1979 to 1992. We'll see in the
21	advisory panel from 1979 to 1992. We'll see in the materials that we look at the also played a broader.
22	materials that we look at, he also played a broader
23 24	role in shaping and advising The Haemophilia Society's response to the AIDS crisis.
24 25	He was, as I've said, chair of the Haemophilia
20	the was, as the said, chair of the frachophilia 83

<b>,</b>	p	Ī
1	MS RICHARDS: Sir, the purpose of this next presentation	
2	is to look at Professor Bloom and the Cardiff	
3	Haemophilia Centre. I will start that this afternoon	
4	but I don't expect to finish. We will then pick this	
5	topic up next Wednesday, when the Inquiry sits again,	
6	complete the presentation on Professor Bloom, and	
7	start the presentation on the Oxford Haemophilia	
8	Centre.	
9	If we don't have enough time to finish it, we	
10	will complete Oxford the following week, the next day	
11	when we don't have a live witness but have	
12	a presentation on St Thomas'. So there won't be any	
13	compressing of the material. It's just some of it is	
14	taking a little longer to map out than when we	
15	originally set the timetable.	
16	SIR BRIAN LANGSTAFF: Well, there is a lot of it.	
17	MS RICHARDS: There is, and even this is a selection	
18	rather than the entire material.	
19	Professor Arthur Bloom was director of the	
20	Cardiff Haemophilia Centre from 1966 until 1992. He	
21	died in November 1992. He played a hugely significant	
22	part in the events which the Inquiry is investigating	
23	in three key respects. Firstly, and in many respects	
24	of course most importantly, he was consultant at and	
25	director of the Cardiff centre, and so he was the	
		8
1	Centre Directors Organisation between 1979 and 1985.	

1	Centre Directors Organisation between 1979 and 1985.
2	He was not a member of its hepatitis working party but
3	he did join one key meeting in January 1983. He was
4	on the Haemophilia Centre Directors Organisation's
5	AIDS group from its inception, in January 1985, to
6	1991. He was a member of the CBLA, the Central Blood
7	Laboratories Authority, from 1982 to 1984 or '85, and
8	it would seem he was on its research and development
9	committee in blood transfusion, or played some part in
10	that committee, between 1982 and 1985. He was part of
11	the MRC working party on AIDS between August 1983 and
12	1987 and he was a member of EAGA, the Expert Advisory
13	Group on AIDS, advising the Department between
14	January 1985 and 1987.
15	He was also on the Working Party on AIDS of the
16	British Society for Haematology from October 1983, and
17	between 1987 and 1988, it may be other years as well,
18	he was president of the British Society for
19	Haematology. He played a part on the AIDS Medical
20	Advisory Committee to the World Haemophilia AIDS
21	Centre, which seems to have been partly under the
22	auspices of the World Federation of Haemophilia, at
23	least in 1984 and 1985.
24	He was on the NBTS, National Blood Transfusion
25	Service, Advisory Committee Working Group on AIDS from
	84 (21) Pages 81 - 84

			_ · · · ·
1	November 1984, and he played a role in the National	1	Centre.
2	Blood Transfusion Service, or the NBTS Technical and	2	So that, sir, will be a reminder of just some of
3	Scientific Working Group on Viral Contamination of	3	the key parts of the evidence that we heard last year.
4	Blood Products, at least in 1988. There may have been	4	That's because the documents, the contemporaneous
5	some overlap in this latter two groups.	5	documents, tell only a partial picture, and the
6	So it can be seen that his influence was	6	evidence of patients and their families helps complete
7	extremely wide, and we will look at interactions that	7	that picture.
8	he had with The Haemophilia Society, with the	8	Then thirdly, I will look at the litigation
9	Department, with the National Blood Transfusion	9	report prepared by Professor Bloom in the course of
10	Service and others.	10	the HIV litigation. He was retained as an expert
11	The presentation will fall into three parts.	11	witness and prepared a fairly lengthy report. Again,
12	I'm going to start by looking at what we've learnt	12	it's disclosed and available to all core participants,
13	from or managed to pull together from documents dating	13	and it would take some days to go through it in its
14	back to the 1970s, and I'll go through those in	14	entirety but I will deal with certain key issues set
15	a largely chronological order. They are drawn from	15	out in that report and relate that back to what we
16	a written note that has been provided to core	16	learn from the documents.
17	participants. It's pretty long and detailed, it's	17	First of all, looking at the materials, I will
18	150 pages of material with multiple references, and	18	set out what we have learnt so far from those
19	I am not going to cover all of it but it is available	19	documents. I say "learnt so far" deliberately
20	to all core participants. So that will be the first	20	because, as with all presentations that we undertake
21	part of the presentation.	21	during the hearings, these aren't intended to be the
22	I'm then going to look at back at some of the	22	last word on the subject. They are really intended to
23	evidence heard from individuals about their	23	be the first word on the subject. No doubt more
24	experiences of treatment by Professor Bloom or under	24	material will be provided or will be gathered by
25	Professor Bloom's care at the Cardiff Haemophilia	25	the Inquiry or received from witnesses or received
	85		86
1	from core participants over the coming weeks and	1	in 1979. At first, day patient treatment was
2	months.	2	undertaken from the haematology or children's wards,
2	Sir, I am going to start, as indeed we do in the	2	but with the development of freeze-dried concentrates
4	written note, with a brief description of the	4	and home treatment, this system became inadequate and
5	facilities and staff of the Cardiff Centre.	5	a room adjacent to the coagulation laboratories was
6	Henry, could we have, please, HCDO0000279_011,	6	adapted as a treatment room.
7	I hope.	7	"A haemophilia sister was appointed in 1977 to
8	This is The Haemophilia Society's publication,	8	supervise and co-ordinate treatment."
9	The Bulletin, from 1990.	9	Then we're told later on that in 1987 the space
3 10	Henry, if we could go to I think it's	3 10	problem was partly solved by expansion of the clinical
10	page 10. We have an article there headed "The Cardiff	10	facility to a suite of three rooms and a secure
12	Haemophilia Centre". This is an article authored by	12	laboratory.
12	Professor Bloom in 1990, but it gives a little flavour	12	On the next page we see a description of
13	of what the facilities and staffing may have been like	13	a number of the staff. I won't go through the details
14	in earlier years. So we see there it's said:	14	of it but we are told there are nursing staff.
16	"The development of The Cardiff Haemophilia	16	At the point in time at which this article was
10	Centre really dates from the invention of	10	written, which was 1990, we're told that:
18	cryoprecipitate in 1964. 11 patients were seen	18	"At present there are about 50 patients on home
10	in 1963 at the Cardiff Royal Infirmary, where	19	therapy and Professor Bloom says, 'Most are severely
20	treatment was then undertaken under the direction of	20	affected or require frequent treatment during the
20			
21	the late Professor Harold Scarborough. At that time	21 22	year. We like to start this therapy at an early age, as soon as a child is co-operative, venipuncture
22	the life expectancy of a person with severe haemophilia was 23 years.	22	
23 24	"We moved to the University Hospital of Wales in	23 24	access is good, parents feel able to cope and home circumstances are satisfactory'."
24 25	1971 and the number of treatments rose to over 1,000	24 25	Then there's reference to social work and other
20	1971 and the number of treatments rose to over 1,000 87	20	88

88 (22) Pages 85 - 88

#### 24 September 2020

1	staff, and I'll come back to that in a moment.	1
2	Then in terms of research, we're told that the	2
3	research group within the Cardiff Haemophilia Centre	3
4	has been in existence for over 20 years.	4
5	"During the 1970s, procedures were developed in	5
6	order to examine the clotting factors in tissues and	6
7	in blood, special assays were developed. Detailed	7
8	studies on the genetic defects started in 1982, and	8
9	a series of genetic defects within Factor VIII and IX	9
10	and von Willebrand factor genes have been detected and	10
11	studied in detail."	11
12	That's a brief outline of the physical	12
13	facilities.	13
14	In terms of staffing, we do have a handful of	14
15	statements, witness statements, that the Inquiry has	15
16	obtained from nursing or social work staff who worked	16
17	at the centre. I'll explain what we have. I'm not	17
18	going to go to any of them but, again, this is	18
19	material that's available to core participants and	19
20	indeed will be, no doubt, more widely available in due	20
21	course.	21
22	We have a statement from Jennifer Jones who was	22
23	a nursing sister 1972 to 1977 and then again from 1981	23
24	to 2003. We have a statement from Christine Loran who	24
25	was a nurse at the centre from 1992 to 1995 and then	25
	89	
1	1976. These were the returns that were submitted to	1
2	the Oxford Haemophilia Centre and we'll hear a little	2
3	more about that process when we look at Oxford next	3
4	week.	4
5	Centre Cardiff, director Professor AL Bloom, and	5
6	so we see the number of haemophilic patients treated	6
7	during the year, 57; number with Factor VIII	7
8	antibodies, 6; number of Christmas disease patients	8
9	treated during the year, 15; number with antibodies,	9
10	zero.	10
11	Then if we go down the page we can get a sense	11
12	of the different treatments as at 1976. We see there	12
13	cryoprecipitate is the type of material used, the	13
14	number of Factor VIII units is 909,020 so it seems at	14
15	that stage to have been still the main treatment,	15
16	cryoprecipitate. We then see in terms of the volume	16
17	of NHS Factor VIII 23,750 and then we see smaller	17
18	amounts of profilate, Factor VIII and Koate. In terms	18
19	of Hemofil we see a larger amount, 101,160 units, and	19
20	in terms of Kryobulin a larger amount of 319,775.	20
21	If we go on to the next page, please, we can see	21
22	there in terms of carriers of haemophilia we have one	22
23	carrier identified as being treated with	23
24	cryoprecipitate.	24
25	We can skip over the next page, Henry, and go on	25
	91	

more recently when it was under the direction of Professor Collins. We have a statement from a nurse Kerry Thomas who worked on a central children's ward but had some dealings with the treatment of children with bleeding disorders between 1980 and 1982, and we have a statement from Mary Dykes who was a social worker who worked at the centre in the 1970s from 1974 to 1977 and in the period 1987 to 1992. Those are all materials, as I say that core participants will be able to consider. We also have a statement from the current director of the Cardiff Haemophilia Centre, Professor Peter Collins who took over in 1996 and it may be that the Inquiry hears oral evidence from Professor Collins in due course. But obviously he can't give much of a light on the years when the centre was under Professor Bloom's direction. We don't have a complete set, currently at least, of the annual returns submitted by the centre to give us data for every year of the number of patients and the types of treatment but we do have two snapshots that we can look at. We'll look first at a set of returns from 1976. Henry, it's HCDO000072\_006, please. We can see from this it's the annual return for 90 to the fourth page. Here we have the annual return in relation to patients with von Willebrand's disease. We're told that there's 12 patients treated during the year and we can see there that the bulk of the treatment as at 1976 was with cryoprecipitate with a smaller amount of NHS Factor VIII concentrate.

I think that's all we have from 1976. We can then move forward a decade to 1986. This is HCDO0000349\_002, please, Henry. So here we have the annual returns for 1986 of materials used to treat haemophilia A patients, carriers of haemophilia A and von Willebrand's disease patients. I'm not quite sure what has happened there in relation to haemophilia B patients, but anyway we see the centre is centre number 150, but it is Cardiff; director, Professor Bloom; total number of haemophilia A patients treated in 1986, 71; total number carriers of haemophilia A treated in 1986, 3; total number of von Willebrand's disease patients treated in 1986, 15. Then if we look at the types of material used, we can see, and I won't go through all of the figures, but much, much smaller amounts of cryoprecipitate now in use, except for von Willebrand's disease patients.

NHS Factor VIII is used both for hospital and home

treatment in the figures we see there set out, but

92 (23) Pages 89 - 92

### 24 September 2020

1	then the treatment which appears to be most used in	1	we have, first of all, from the first half of the
2	hospital and to a roughly equivalent level for home	2	1970s; so from the period 1970 to 1975. Henry, could
3	treatment is the alpha Factor VIII profilate.	3	we have please on screen DHSC0100019_042. This is
4	If we go to the third page sorry, the fourth	4	a letter, we don't see who it's from but we know from
5	page please, Henry, we also have figures here for	5	a subsequent letter it's from Dr Maycock to Dr Biggs
6	materials used to treat patients with haemophilia B.	6	at the Oxford Haemophilia Centre, but it's providing
7	Total number of haemophilia B patients treated in 1986	7	information about cases of serum hepatitis as at
8	21. Then if we look at the material used, we can see	8	22 April 1970 and we can see there it gives details of
9	it's predominantly NHS Factor IX concentrate both for	9	five individuals treated in the late 1960s who
10	hospital and home treatment, but also some usage of	10	developed serum hepatitis at Cardiff.
11	alpha commercial Factor IX and a very limited amount	11	If we then, please, Henry, have HCDO0001014,
12	of usage of fresh frozen plasma.	12	please. This is now April 1971 and these are the
13	That's a snapshot both in terms of numbers and	13	minutes of a meeting of Haemophilia Centre Directors
14	in terms of the materials used. We need to then piece	14	and we can see from the list of attendees that
15	together from other documents how the treatment	15	Professor Bloom was there.
16	practices and the materials used changed over the	16	If we go to the second page, please, we can see
17	years.	17	that the issue of incidence of jaundice was, and we
18	You'll see that in terms of the number of	18	see this from pretty much every meeting of Haemophilia
19	patients, in some respects it's a relatively small	19	Centre Directors over the years, a topic of discussion
20	centre for the reference centres. There are centres	20	at the directors' regular meetings. So under agenda
21	with much larger numbers of patients but	21	item 3 were told Dr Biggs gave a summary of the report
22	Professor Bloom's influence nonetheless, as I have	22	on the incidence of jaundice and then we see the
23	already outlined, really was very extensive indeed in	23	action is, amongst other things, to ask directors to
24	the world of haemophilia care.	23	give figures about Australia antigen and antibody
25	I'm going to look now at some of the materials	25	testing to send her these results. So that would be
20	93	20	
1	what we would now call hepatitis B.	1	felt that some steps ought to be made to provide the
2	Then we can see the top of the next page is	2	cryoprecipitate in a pooled form. It was agreed that
3	a record that each director, each centre, so including	3	although the supply had improved in the last two
4	Cardiff, are agreeing they will maintain and send to	4	years, there was still a shortage of material."
5	Oxford each year: detailed records of material given	5	So identification there, as a general
6	to patients who developed jaundice, the full list of	6	observation, shortage of cryoprecipitate.
7	names of patients treated so their names are being	7	Then if we go on to page 11 we see under the
8	shared with Oxford and the total amount of material	8	heading prophylactic therapy and home treatment
9	used in a year in terms of the number of donor units.	9	there's a discussion and we can't tell from this any
10	Then we can see under the heading "Hepatitis and	10	particular contribution of Professor Bloom but we're
11	Australia antigen", there's a discussion about the	11	told the directors described their experience in
12	incidence of Australia antigen and antibody in the	12	prophylaxis home treatment and self-administration of
13	haemophilic population and the precautions which	13	factors VIII and IX by patients:
14	should be taken to prevent the spread of infection in	14	"It was generally felt that the regular
15	the wards and among laboratory staff. It's recorded	15	administration of Factor VIII to severely affected
16	that donor blood will in due course be screened for	16	Christmas disease patients was beneficial."
17	that.	17	So it appears to be a favourable view of
18	Then if we go on please, Henry, to it should be	18	prophylactic therapy in relation to Factor IX. Then
19	page 7. There is then a brief discussion about the	19	it says:
20	availability of Factor VIII concentrates, bottom half	20	"For the classic haemophiliac Factor VIII
20 21	-	20	
21	of the page. We'll see this again as a theme in		deficient patient such treatment was more difficult.
22 23	haemophilia centre directors' meetings:	22	More frequent treatment could be necessary. The
	"There was discussion about the presentation of	23	supply of material was not adequate. A number of
24 25	cryoprecipitate to single donor packs. This	24	centres were treating a limited number of patients in
25	presentation was not convenient, in general it was	25	this way. It was felt that a controlled trial might

Christmas disease patients was beneficial." So it appears to be a favourable view of prophylactic therapy in relation to Factor IX. Then "For the classic haemophiliac Factor VIII deficient patient such treatment was more difficult. More frequent treatment could be necessary. The supply of material was not adequate. A number of centres were treating a limited number of patients in this way. It was felt that a controlled trial might

96 (24) Pages 93 - 96

### 24 September 2020

1	be helpful. If agreed, the trial could be of regular	1	even more cryoprecipitate it can only be done if they
2	weekly treatment for six months and on demand	2	send a technician to assist in cryoprocessing done one
3	treatment for six months."	3	or two evenings a week. We can easily get the donors
4	So an early discussion there in 1971 of	4	but handling the blood here is too much for our small
5	prophylactic therapy. We'll see as we go through the	5	staff."
6	documents the extent to which we have been able to	6	Then there's a suggestion in the next paragraph
7	discern the usage or home therapy and prophylactic	7	that Dr Maycock should perhaps put this issue down for
8	therapy at Cardiff.	8	discussion at the next directors' meeting and
9	If we then please, Henry, have DHSC0100026_118.	9	Dr Drummond says the object of the analysis is to show
10	This is a letter which looks at the supply of	10	the wide variation in practice by the clinicians.
11	cryoprecipitate. We're in June 1971. It's a letter	11	Then we see bottom of the page the issue virus
12	from the director of the Welsh Regional Transfusion	12	hepatitis flagged up and an issue of Australia antigen
13	Centre to Dr Maycock at the Lister Institute and it	13	testing of blood donors. Picking it up on the last
14	refers to the ever-increasing demands for	14	word of the page and then to the next:
15	cryoprecipitate for haemophilia treatment at the CRI,	15	"Clinicians are increasingly demanding blood
16	so Cardiff Royal infirmary, where all haemophiliacs in	16	tested for Australia antigen", and there is concern
17	the region are treated:	17	expressed about the ability of the Cardiff transfusion
18	"I was obliged to point out that we were	18	centre to cope with that demand.
19	producing proportionately more cryoprecipitate than	19	If we move then, please, to WITN2554013. This
20	most other regions and asked why the haemophiliacs	20	is a document from a patient record. We saw it during
21	should need so much more cryoprecipitate here than in	21	the witness' evidence last year. It's from
22	other regions. I think my note has had some good	22	January 1972 and it's again just to see the extent to
23	effect at any rate making the CRI unit realise they	23	which the issue of developing hepatitis featured in
24	are getting their fair share. I have had to write to	24	the early 1970s:
25	tell Professor Jacobs and Dr Bloom that if they want 97	25	"This patient with Christmas disease has during 98
	51		90
1	the last six months received treatment with Factor IX	1	"The cost of preparing concentrate was
2	concentrate for various bleeds. The concentrate is	2	discussed. It was emphasised that material made by
3	prepared at Oxford. I understand that one of the	3	the NHS was unlikely to be more expensive than the
4	donors of blood from which the concentrate is prepared	4	present commercial material."
5	has since developed jaundice, which could be due to	5	There's then a discussion about units initiated
6	infective hepatitis. Your patient is therefore at	6	by Dr Maycock. Then it says this:
7	risk from developing hepatitis. But in view of the	7	"Two main topics were discussed. One concerned
8	fact that he has received so much treatment in the	8	the purchase of commercially available Factor VIII
9	past and has probably been previously exposed I think	9	preparations and the other was the more long-term
10	the risk is a small one."	10	problem of increasing the supply of a good quality
11	We'll then move on please, Henry, to HCDO0001015	11	soluble British product. Many directors were pressing
12	this is picking matters up now at the Haemophilia	12	for permission to purchase the good commercial
13	Centre Directors' meeting in October of 1972,	13	products manufactured overseas."
14	27 October, it was attended by Dr Bloom. We can see	14	Again, we can't discern from the minutes whether
15	that in the fourth line. If we go please, Henry, to	15	those many directors specifically included Dr Bloom,
16	page 9 we can see also there is an earlier discussion	16	but we can see that the general mood, as at the autumn
17	about home treatment. Here we pick up the issue about	17	of 1972, is Haemophilia Centre Directors asking
18	halfway down the page of supplies of therapeutic	18	effectively to be able to use commercial material and
19	material, and if we look at the last three lines, this	19	identifying an insufficient amount of NHS concentrate.
20	is Dr Biggs' probably speaking at this point but it's	20	If we then please, Henry, have CBLA0000098.
21	not clear from the minutes:	21	Here we are at November 1972 and get a sense from
22	"The desirability of increasing home treatment	22	Professor Bloom of the treatments being used at that
23	and the availability of good commercial material make	23	time. It's his letter to Dr Maycock and he says this,
24	the question of increased British supply very urgent."	24	picking it up in the second line:
25	If we go over the page:	25	"You may have noticed we have not used much
	99		10 (25) Pages 97 - 100

100 (25) Pages 97 - 100

### 24 September 2020

		,	
1	freeze dried concentrate of AHF recently. This is not	1	We
2	because we were ever unhappy with it but is mainly	2	See
3	because the supply of cryoprecipitate produced locally	3	this
4	is quite good."	4	cei
5	Then skipping down a few lines he says:	5	31
6 7	"I note that you are changing over to	6 7	an
7	a high-potency preparation. I would imagine this		mu
8 9	would be easier to give by simple injection. For this	8 9	in t
9 10	reason on completing the form I have now assumed we would optimally like to use freeze-dried concentrate,	9 10	ab
10	if available."	10	abi
12	So the suggestion there appears to be the	11	Th
13	predominant usage at that time cryoprecipitate and	12	me
14	that's no doubt reflected in the 1976 return we looked	13	COI
15	at, but a preference to start being able to use	15	rec
16	freeze-dried concentrate. That obviously in relation	16	adi
17	to the letter to Dr Maycock would be Elstree produce.	10	lt v
18	It is perhaps instructive just look at	18	COI
19	Dr Maycock's brief reply which is at CBLA0006294 where	10	urg
20	he says this to Dr Bloom:	20	to
21	"I hope that one day there really will be	20	COL
22	sufficient material to treat all the haemophiliacs in	22	COL
23	an ideal manner but I doubt whether that will be in my	23	dis
24	time."	24	ind
25	Henry, could we then have, please, HCDO0001016.	25	cry
	101		,
1	freely available. It was clear that none of those	1	SOI
2	present would prefer cryoprecipitate."	2	001
3	So we can infer that by January 1974 Dr Bloom's	3	to
4	stated preference is to be able to use concentrates in	4	rec
5	place of cryoprecipitate.	5	ho
6	Elsewhere in the document there is emphasis on	6	He
7	the need for the UK to become self-sufficient in	7	
8	products and if we go then on to page 8, there's then	8	be
9	a discussion about home therapy. We don't know	9	ad
10	whether one of the directors involved here is Dr Bloom	10	the
11	or not. It said:	11	
12	"Several directors said they did not treat all	12	risl
13	the patients at their centres since this was too	13	alle
14	inconvenient for the patient and too difficult. On	14	Th
15	the other hand, they were aware that the materials	15	rea
16	might not be used properly. This raised the question	16	
17	of home therapy. It was stressed that home therapy	17	pre
18	was becoming more accepted widespread and was	18	he
19	improving the quality of the patients' lives.	19	pat
20	Cryoprecipitate was not ideal for home therapy from	20	
21	many point of views. Some directors were buying	21	in ı
22	commercial AHG for use in home therapy."	22	be
23	As we've seen from the 1976 annual return,	23	bot
24	certainly Cardiff, although still using a very	24	SIR BR
25	significant quantity of cryoprecipitate, was buying	25	bet
	103		

We've moved forward now to January 1974 and again we see what we can pick up from the minutes of the this is a joint meeting of directors of haemophilia centres and blood transfusion directors, 31 January 1974. We see Dr Bloom was in attendance and we can see he is a faithful attendee of pretty	
much all of these meetings.	
If we go to page 5 please, Henry, picking it up	
in the last paragraph, again this is in a discussion	
about supply and self-sufficiency:	
"What kind of material was best for treatment?	
There was a wide ranging discussion about the relative	
merits of cryoprecipitate and freeze-dried	
concentrates with regard to ease of manufacture,	
recovery from the original plasma, ease of	
administration, and recovery of activity in patients.	
It was generally felt that larger supplies of	
concentrated preparations were required now and	
urgently and some felt that it was rather meaningless	
to ask doctors if they would prefer freeze-dried	
concentrate to cryoprecipitate when no freeze-dried	
concentrates were available to them. When the	
discussion was completed, the meeting was asked to	
indicate whether anyone would in fact prefer to have	
cryoprecipitate if freeze-dried concentrate were	
1	02

ome commercial concentrates. Could we then please have WITN0047002. If we go the next page this is an extract from a patient ecord from February 1975 and it gives us some idea of ow Dr Bloom's approach to treatment is developing. le says: "This patient who suffers from haemophilia has een selected for home treatment", and there is description of the instruction that's been given to ne patient's wife in that regard. Then in the next paragraph it's said that the sks from the use of this preparation, especially llergic reactions and hepatitis, have been explained. hen if we skip over the description of allergic actions it said this: "A small percentage of these freeze-dried reparations contain, unavoidably, the virus of serum epatitis and therefore potentially dangerous to the atient, his relatives, et cetera." Whether by serum hepatitis in 1975 Dr Bloom had mind hepatitis B, non-A, non-B hepatitis which had egun to be recognised, or was using the term to cover oth we don't know. RIAN LANGSTAFF: The term then, certainly when used efore the 1970s it covered both, didn't it? 104 (26) Pages 101 - 104

1	MS RICHARDS: We now know it covered both, but some	1
2	some clinicians we see, from some doctors, seem to use	2
3	it more to describe hepatitis B. We've no way of	3
4	knowing what Dr Bloom necessarily had in mind, save	4
5	it's clear from this he regarded it as an unavoidable	5
6	fact that serum hepatitis would be found in	6
7	concentrate and he regarded it as potentially	7
8	dangerous not just to the patients but to the	8
9	patients' relatives.	9
10	Then if we could have, please, HCDO0001019,	10
11	please.	11
12	This is Haemophilia Centre Directors' meeting	12
13	September 1975. Again, we can see that Dr Bloom was	13
14	present.	14
15	If we look at the discussion on "Progress	15
16	towards self-sufficiency" sorry, I haven't noted	16
17	down the page number. If we just scroll down I'll	17
18	hopefully find it. Next page. Next page.	18
19	Sorry, just pausing there, we'll see there,	19
20	again, as we see, it's essentially at all these	20
21	meetings discussion of the incidence of jaundice in	21
22	haemophiliac patients.	22
23	If we go to the next page please, Henry. Next	23
24	page.	24
25	There's a hepatitis survey being established	25
	105	
1	insufficiency of supply, we see Dr Waiter saying that	1
2	she hoped that the haemophiliac patients would realise	2

1	insufficiency of supply, we see Dr walter saying that	
2	she hoped that the haemophiliac patients would realise	
3	that the supply of Factor VIII was not inexhaustible	
4	and they should not undertake activities of excessive	
5	physical danger.	
6	I am just going to pick matters up from 1976	
7	onwards. If we could have, please, WITN0047003.	
8	Again, this is an extract from a patient record	
9	and it's just again insight into Dr Bloom. He is now	
10	described as a consultant haematologist. He had	
11	previously been described as a senior lecturer. This	
12	is 21 January 1976:	
13	"Just a note to let you know that the last blood	
14	test on Mr H showed that he was positive for	
15	hepatitis-associated antigen."	
16	So that's hepatitis B.	
17	"Presumably, he has picked this up from the	
18	Factor VIII concentrates from which he is treated and	
19	we are keeping an eye on his liver function."	
20	So again, there, clear knowledge that and	
21	we're now, as I say, in the early part of 1976	
22	incidence of hepatitis B in the haemophiliac patients	
23	known clearly to be transmitted by Factor VIII	
24	concentrates. We are told "keeping an eye on his	
25	liver function". We can't tell exactly what tests are	

4	4h
1 2	there.
2	The next page, please. Next page. No. If we
3 4	carry on I'm sorry, Henry. There's reference there to a proposed pilot
4 5	
6	study of hepatitis in haemophiliac patients. Then if we go on to the next page, there is
7	somewhere reference to a discussion about
8	solf-sufficiency which I will find, I hope. If we
9	
9 10	carry on if not, I will come back to it on Wednesday.
10	
12	Ah, page 12. Thank you. That's what happens
12	when you don't print off the page. So if we pick it up towards the bottom of the
14	page, thank you, "Supply of Factors VIII and IX":
14	"Dr Maycock said an expert group had met at the
16	DHSS on 20 March 1973."
17	That's the group that we considered briefly with
18	Lord Owen during his evidence on Tuesday, and we'll
10	look at again when we look at the Oxford Haemophilia
20	Centre.
20	If we go to the next page, please, if we scroll
22	down there should be a reference to Dr Waiter from the
22	DHSS.
23 24	
24 25	Yes, so pick it up here. Various directors having set out their views on
20	Validus directors naving set out their views on 106
	haina dana ang hakaina 16 ang katalon kaina dikadi s
1	being done or what significance was being attached to
2	it at that stage by Professor Bloom.
2 3	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the
2 3 4	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in
2 3 4 5	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that
2 3 4 5 6	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia
2 3 4 5 6 7	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did.
2 3 4 5 6 7 8	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473.
2 3 4 5 6 7 8 9	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory
2 3 5 6 7 8 9	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia
2 3 4 5 6 7 8 9 10 11	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can
2 3 4 5 6 7 8 9 10 11 12	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency
2 3 4 5 6 7 8 9 10 11 12 13	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda.
2 3 4 5 6 7 8 9 10 11 12 13 14	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we
2 3 4 5 6 7 8 9 10 11 12 13 14 15	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with fractionation experts, have been invited.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with fractionation experts, have been invited. Representatives from the DHSS, Welsh office,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with fractionation experts, have been invited. Representatives from the DHSS, Welsh office, Northern Ireland Health Authority and Scottish Home
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with fractionation experts, have been invited. Representatives from the DHSS, Welsh office, Northern Ireland Health Authority and Scottish Home and Health Department have not been invited at this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>it at that stage by Professor Bloom.</li> <li>In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did.</li> <li>If we then go, please, to CBLA0000473.</li> <li>This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda.</li> <li>If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with fractionation experts, have been invited.</li> <li>Representatives from the DHSS, Welsh office, Northern Ireland Health Authority and Scottish Home and Health Department have not been invited at this stage.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	it at that stage by Professor Bloom. In 1976, Professor Bloom was invited to join the reconvened Expert Group on Haemophilia. He didn't in fact attend the 1976 meeting so I'll look at that document next week when we look at Oxford Haemophilia Centre, because both Dr Biggs and Dr Rizza did. If we then go, please, to CBLA0000473. This is what's described as an exploratory meeting of blood transfusion directors and Haemophilia Reference Centre directors in October of 1976. We can see from the agenda that the issue of self-sufficiency is high on the agenda. If we go to the second page, please, Henry, we can see from the list of attendees that Dr Bloom is there. We're told in paragraph 3 it's supposed to be an informal meeting. Only Haemophilia Reference Centre Directors and the Blood Transfusion Directors related to the Reference Centres, along with fractionation experts, have been invited. Representatives from the DHSS, Welsh office, Northern Ireland Health Authority and Scottish Home and Health Department have not been invited at this

108 (27) Pages 105 - 108

### 24 September 2020

1	calling the meeting". Picking it up three lines down:		1
2	"The reference centre directors [so that will		2
3	include Dr Bloom] believe that the Haemophilia Centre		3
4	Directors in toto are able to offer much assistance in		4
5	expediting the adequate production of Factor VIII		5
6	concentrate in the UK by Blood Transfusion Centres eg		6
7	by outlining the amount of cryoprecipitate needed or		7
8	not needed, and by purchasing Factor VIII concentrate		8
9	from abroad for a set period of time to allow		9
10	increased plasma availability for fractionation. The		10
11	view of the haemophilia reference centre directors is		11
12	that there should be no need to import expensive		12
13	Factor VIII concentrate from abroad."		13
14	Then picking it up a few lines down we see that:		14
15	"Since the introduction of commercial		15
16	Factor VIII there's been a steady increase since 1973		16
17	in the usage of Factor VIII concentrate probably both		17
18	due to the patients and haemophilia reference centre		18
19	directors becoming aware of the commercial		19
20	preparations."		20
21	If we pick it up over the next page, about		21
22	a third of the way down it's said:		22
23	"There's an urgent need to convert plasma used		23
24	for cryoprecipitate to a freeze-dried preparation."		24
25	It's said that:		25
		109	
1	we see here the continued reporting to Oxford in what		1

we see here the continued reporting to Oxford in what 1 2 are now formalised hepatitis survey forms of patients 3 developing jaundice. So we see that Professor Bloom 4 is being asked to supply particular information about 5 patients receiving a specific batch of Hemofil. 6 The second paragraph then explains a particular 7 patient being found to be mildly jaundiced following 8 treatment with Elstree Factor VIII concentrate and 9 then reference in the last paragraph to three patients 10 developing asymptomatic hepatitis and receiving, in 11 addition to other materials, Elstree Factor VIII. 12 Then there's further exchanges of correspondence 13 which we need not look at in which it makes clear that there's a system in place for supplying information 14 15 about patients developing jaundice to Oxford and 16 information being supplied to Dr Maycock at Elstree in 17 the event that there is hepatitis that develops 18 following the use of Elstree Factor VIII. 19 It's clear that at least some of this material 20 is patient identifying material, the material that's 21 sent to Oxford certainly is. Whether the information 22 that was provided by Professor Bloom to Dr Maycock 23 also specified patient names is not entirely clear 24 from the correspondence. Equally, what's not clear of 25 course is what was being told to the patients

•
"There are five commercial companies licensed
and supplying very satisfactory Factor VIII in the UK.
It will be surprising if doctors and patients do not
come to prefer these very convenient preparations as
compared with cryoprecipitate."
Then over the page we see a discussion and some
interventions from Professor Bloom. So, about
three-quarters of the way down, Professor Bloom is
recorded as saying:
"We use cryoprecipitate for ordinary bleeds, eg
into joints, but we need the treatment of inhibitors
and home treatment freeze-dried material."
So concentrates for home treatment.
Top of the next page he's recorded as saying
that NHS material compared very well with commercial
products.
Then if we look towards the bottom of that page,
the question is asked what's the target for how much
freeze-dried and how much cryoprecipitate and
Professor Bloom's answer is 100 per cent freeze-dried.
So that presumably his target or aim as at 1976 to
move to entire usage of concentrates in place of
cryoprecipitate.
If we then just look in 1977 at documents which
explore again the issue of jaundice, HCDO0000072_005,

themselves about these matters.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Then one final document before we break at -- no just a short series of documents I think very quickly. We see some interactions between Professor Bloom and pharmaceutical companies in the late '70s. We can just get a flavour of them from a couple of documents.

IPSN0000334\_018, please. This particular interaction, and it's just an example, there are various documents that we refer to in more detail in the note. This is August 1978 and it's the director of Speywood communicating with Professor Bloom:

"Thank you for sparing me some of your time last week. I found our discussion most interesting. We will keep you in touch with progress on the animal product."

He then offers to let Professor Bloom have a small amount of polyelectrolyte to help with research that is being undertaken at Cardiff into the biochemistry of human Factor VIII. There's then reference to an offer to send some of the animal product to Professor Bloom for laboratory testing against blood from inhibitor patients. Just pausing there again, we've not currently been able to construct from the documentation the extent to which patients themselves were aware of any of these matters

112 (28) Pages 109 - 112

"Professor Bloom expressed concern regarding the

1	in terms of, for example, laboratory testing against	1	Then if we skip down a paragraph:
2	their blood.	2	"I offered Koate at 10p for 50,000 units lots
3	Then the last main paragraph, turning to Koate,	3	and am reasonably confident we'll get some of the
4	so one of the commercial concentrates here we	4	business. Bloom always likes to keep two suppliers
5	certainly would like to be restored as a partial	5	but is reluctant to make frequent changes. Bloom is
6	supplier of your needs and the price is there set out	6	obviously not an animal lover, although he is
7	and guaranteed delivery within 24 hours.	7	interested in our work. He is prepared to look at the
8	Then just before we break, if we go to	8	new material when available", and then there's
9	IPSN0000334_019, we have an internal note from the	9	a suggestion of providing him with clinical evidence
10	same gentleman of his meeting with Professor Bloom and	10	as soon as possible.
11	again it gives us a flavour of the kind of discussions	11	"Bloom would like some PE to help with a new
12	that took place and some of Professor Bloom's	12	research project of his looking at the biochemistry of
13	preferences for treatment. So this is a meeting with	13	human Factor VIII. He has a research worker starting
14	Professor Bloom August 24, 1978:	14	in January '79 to work full time on this subject."
15	"There are 250 haemophiliacs attached to this	15	Then over the page, it said:
16	centre of which 100 are regular attendees and 13	16	"PPF was at one time rationed in his area but
17	inhibitors. Until recently human Factor VIII	17	it's now issued on a first come first served basis.
18	purchases have been split three ways, Hemofil,	18	There is never enough available partly because the
19	Factor VIII and Elstree."	19	Health Service does not produce sufficient, partly
20	So two commercial products and one NHS product.	20	because of the high price. Bloom felt there was
21	"They have now stopped using Armour following	21	a place for commercial material, if it could be
22	the hepatitis problem."	22	produced more cheaply. We should obviously
23	Then it said:	23	investigate."
24	"Bloom used to favour Immuno but as this is now	24	So we get there, from that source, some idea of
25	16p he never buys."	25	what was understood by pharmaceutical companies at
20	113	20	
1	least to be Professor Bloom's approach to the use of	1	concentrates", Professor Bloom says this or the
2	commercial concentrates, and we see there obviously	2	minutes say this:
3	what appears to be a particular concern about their	3	"Professor Bloom expressed concern regarding t
4	cost.	4	number of companies now marketing Factor VIII. The
5	That, I think, takes us to just after 3 o'clock	5	different prices, along with fluctuating prices, made
6	and time to break.	6	it difficult for doctors to establish their patients
7	SIR BRIAN LANGSTAFF: Time then to break until 3.30.	° 7	on any one preparation of Factor VIII for any length
8	(3.03 pm)	8	of time. Several directors expressed similar
9	(A short break)	9	worries."
10	(A short break)	10	There's an agreement that Professor Ingram will
11	(A short break)	10	write to the DHSS asking for advice.
12	(3.27 pm)	12	Sir, just pausing there, you will see the
13	MS RICHARDS: Sir, there are two further documents from	12	concern that's expressed about the numbers of
13			companies is one that's related to price and
	1978 which provide another small piece of the jigsaw	14	
15	that we're trying to assemble.	15	consequences of price, not an issue raised in relation
16	Henry, could we have HCDO0000400, please.	16	to safety as a basis for concern.
17	This is a meeting of the Reference Centre	17	Secondly, it doesn't necessarily follow from the
18	Directors on 27 January 1978, and again we see	18	fact of different or fluctuating prices that doctors
19	Professor Bloom in attendance.	19	can't establish their patients on any one preparation
20	We can see from the second page, seven or five	20	of Factor VIII for any length of time, because the
21	lines down, he is proposed as chairman to succeed	21	concentrate is obviously there. It may be that's
22	Professor Blackburn and he'll take up that post in the	22	a reflection of what we pick up from the Speywood
23	autumn of 1979.	23	document, is Professor Bloom's desire to purchase the
24	Then if we go to page 7 please, Henry, under the	24	cheapest of commercial products, and that's the reason
25	heading "Price of commercial Factor VIII 115	25	why his patients are switching from one concentrate to
	112		

116 (29) Pages 113 - 116

1	another type of material, even though it's not	1
2	regarded as being the most appropriate clinical	2
3	course. That's just one inference that it might be	3
4	open to you to draw from the material, sir.	4
5	Then if we go on, please, to different	5
6	document, Henry HSOC0010549.	6
7	This is a meeting of the Haemophilia Centre	7
8	Directors, so the reference centres meeting is the	8
9	small number of leading clinicians and then we have	9
10	the larger number of directors attending these bigger	10
11	meetings, including again Professor Bloom.	11
12	If we go to page 13, please, Henry actually,	12
13	we can pick it up at page 12.	13
14	So, under the heading, second half of the page,	14
15	"Supplies of Factor VIII concentrate to the DHSS	15
16	contract and the price of commercial Factor VIII", we	16
17	see a question being posed to the Department of Health	17
18	representative, Dr Collins, about the Department's	18
19	policy regarding the supply situation, and it's said	19
20	that the DHSS's original target had been reached and	20
21	exceeded by 1978. They wonder now whether there was	21
22	a revised target. It's said Scotland can't produce	22
23	any more because of continuing problems over shift	23
24	work. Department's target figures included	24
25	cryoprecipitate which was used throughout the UK.	25
	117	
1	to page 3, you can see, under the heading "Progress	1
2	report on the 1979 annual returns from haemophilia	2
3	centres", it's just a comment halfway down this is	3
4	not specifically related to Professor Bloom but, sir,	4
5	may pick up on a point you were asking about earlier.	5
6	It says:	6
7	"It was pointed out that there was now great	7
8	difficulty in calculating the donor exposure in view	8
9	of the many different brands of commercial products	9
10	now used and the lack of information as to the pool	10
11	size."	11
12	Then discussion of estimates.	12
13	Then if we go over the page, to page 4, we see	13
14	Professor Bloom's contribution about eight lines down:	14
15	"Professor Bloom said the increased use of	15
16	prophylactic therapy would also increase the overall	16
17	cost of treating haemophiliac patients."	17
18	It's unclear whether he is talking there about	18
19	an increased use of prophylactic therapy at Cardiff or	19
20	whether it's a more general, national observation.	20
21	Sir, just for your note that on the next page,	21
22	under the heading "Hepatitis Working Party", there's	22
23	then a discussion about pool sizes again and the	23
24	relative pool sizes used for Elstree and Oxford	24
25	materials.	25
	110	

Then there's this observation from		
Professor Bloom:		
"He said he had a feeling that there was	3	
complacency in the Department about the targe	et	
situation. He appreciated that the DHSS had to	o have	
a target and wondered if the target should not r	now be	
set at 100 million units."		
It's then said that that had been thought	about	
by the Department of Health. Then, towards the	e bottom	
of the page, Professor Bloom flags up the ques	stion of	
funding of BPL. He asks if the Blood Products		
Laboratory was sufficiently well funded:		
"If not, could the directors help with this		
matter in any way?"		
It is not clear what kind of help he had ir	n mind	
in making that suggestion, but the comment is	going to	
be conveyed to Dr Lane.		
We move then to 1979. Again, there we	ere	
a number of directors' meetings where and I	won't	
go to them, but the same issues of self-sufficie		
supply, use of commercial concentrates and dis		
of hepatitis and jaundice are recurrent themes.		
We'll pick matters up on 22 September	1980.	
It's at HCDO0000406, please, Henry.		
Professor Bloom is now in the chair. If		1

118

Then if we go toward the bottom of that page, so this should be page 5, about seven or eight lines up from the bottom it's recorded: "Dr Craske said there had been a poor response from directors to the request for information about patients thought to have developed chronic hepatitis." So, again, we see the issue of chronic hepatitis being very much on the agenda for Haemophilia Centre Directors. Then if we go to page 11, please, Henry, about halfway down the page -- carry on a little bit further down so we can see the whole passage -- thank you. "Dr Savidge -- so that's Dr Savidge, St Thomas's Hospital -- asked what the policy was of the Haemophilia Reference Centre Directors regarding the use of cryoprecipitate for the treatment of haemophiliac patients and for home therapy, and Professor Bloom said that it was a matter for the individual directors to decide. He referred to the

minutes of the fifth meeting of Haemophilia Reference

- Centre Directors, January 1978 [which we've looked
- at], when the matter of cryoprecipitate versus
  - Factor VIII concentrates for home therapy had been
    - discussed at considerable length and the Reference Centre Directors had agreed that Factor VIII

120 (30) Pages 117 - 120

1	concentrates were preferred for home therapy."	1
2	So something of a tension, potentially, there.	2
3	He's saying it's a matter for the individual director	3
4	rather than for the UKHCDO or for Professor Bloom to	4
5	give any guidance. Then there's a reminder: well,	5
6	there's been an extensive discussion and you should be	6
7	using concentrates rather than cryoprecipitate.	7
8	Now, also in September of 1980 we have some	8
9	extracts from an international symposium that was held	9
10	in Glasgow which a number of directors and others	10
11	attended. I think by this time next week I'll have	11
12	a full copy of the document but I've just got the	12
13	extracts very kindly provided by a core participant.	13
14	If we could go to JEVA0000001 please, Henry.	14
15	So what we have are some extracts from this	15
16	symposium which set out some of Professor Bloom's	16
17	interventions and we can see as at September 1980	17
18	a key topic is the impact of hepatitis on haemophiliac	18
19	patients' livers. So Professor Bloom asks the	19
20	question:	20
21	"Could the appropriate members of the panel	21
22	advise the Haemophilia Centre Directors and the	22
23	clinicians who are present on what is the current	23
24	state regarding the possible treatment of these	24
25	various types of hepatitis? Should we be doing liver 121	25
	121	
1	opening remarks by Professor Bloom and I'll just pick	1
2	it up in the last paragraph on this page. Having	2
3	talked about cryoprecipitate and concentrates he says:	3
4	"Successful though this treatment has been, many	4
5	problems remain to be solved, notably the high	5
6	incidence of abnormal liver function tests and various	6
7	forms of hepatitis discussed in detail elsewhere in	7
8		
-	this symposium"	8
9	Then if we go on please, Henry, to it should	8 9
10	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have	8 9 10
10 11	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see	8 9 10 11
10 11 12	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue	8 9 10 11 12
10 11 12 13	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that	8 9 10 11 12 13
10 11 12 13 14	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this:	8 9 10 11 12 13 14
10 11 12 13 14 15	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK	8 9 10 11 12 13 14 15
10 11 12 13 14 15 16	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the	8 9 10 11 12 13 14 15 16
10 11 12 13 14 15 16 17	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the	8 9 10 11 12 13 14 15 16 17
10 11 12 13 14 15 16 17 18	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre.	8 9 10 11 12 13 14 15 16 17 18
10 11 12 13 14 15 16 17 18 19	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre. The current usage of 50 million units was forecast in	8 9 10 11 12 13 14 15 16 17 18 19
10 11 12 13 14 15 16 17 18 19 20	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre. The current usage of 50 million units was forecast in 1975. The most recent data indicate that the annual	8 9 10 11 12 13 14 15 16 17 18 19 20
10 11 12 13 14 15 16 17 18 19 20 21	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre. The current usage of 50 million units was forecast in 1975. The most recent data indicate that the annual requirement will rise to 85 million units by 1985 due,	8 9 10 11 12 13 14 15 16 17 18 19 20 21
10 11 12 13 14 15 16 17 18 19 20 21 22	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre. The current usage of 50 million units was forecast in 1975. The most recent data indicate that the annual requirement will rise to 85 million units by 1985 due, perhaps, to developments such as home treatment and	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
10 11 12 13 14 15 16 17 18 19 20 21 22 23	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre. The current usage of 50 million units was forecast in 1975. The most recent data indicate that the annual requirement will rise to 85 million units by 1985 due, perhaps, to developments such as home treatment and limited prophylaxis."	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
10 11 12 13 14 15 16 17 18 19 20 21 22	Then if we go on please, Henry, to it should be the second page of this, I think. Do you have a second page? Last paragraph, we then see a reference again by Professor Bloom to the issue about self-sufficiency. Four lines down that paragraph he says this: "The usage of Factor VIII concentrates in the UK has been assessed accurately because of the organisation of Haemophilia Centre Directors and the returns effectively collated at the Oxford Centre. The current usage of 50 million units was forecast in 1975. The most recent data indicate that the annual requirement will rise to 85 million units by 1985 due, perhaps, to developments such as home treatment and	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

biopsies in practice on our haemophiliacs and, if we
do, can we correlate possible treatment to the liver
biopsy appearances?"
Then there's a response from Dr Thomas. I don't
need to take you to the detail of that. This is just
really looking at the kind of questions that were in
Professor Bloom's mind.
So if we go to JEVA0000002 we can see that later
in the discussion Professor Bloom comes back to the
same topic:
"To come back to my earlier question, what
should the people who are not associated with
a specialised liver unit be doing when they are faced
with a young man who has persistently abnormal liver
function tests, a spleen tip palpable, and an enlarged
liver? Should we be doing a liver biopsy? Is there
any value in it? Or is there any possible treatment
available?"
It's not I think unreasonable to infer that this
is an issue that Professor Bloom may have been
presented with in clinical practice for it to be
a topic of particular interest to him.
If we could then please, Henry, have
JEVA0000003. A later part of the symposium is opened,
the same event but a later part of the day, there are
122

"It is the experience of most haematologists that crude cryoprecipitate is not a suitable material for home treatment ..." He then goes on to talk about the likely shortfall in Health Service-produced concentrate. Then if we go please, Henry, to PRSE0003946, please. We're now in a haemophilia centre directors' meeting on 30 September 1980, so not long after the Reference Centre Directors' meeting had met the bigger meeting takes place chaired by Professor Bloom. If we go, please, to page 5 we can see towards the bottom of the page, last ten or so lines: "Professor Bloom said that all the directors were aware of the very severe shortfall in national health concentrate, which was a worrying situation. One of the directors commented that he was not sure that the idea of a commercial firm taking over the manufacture of Factor VIII would be a good idea because the situation might change with a change in Government." This is presumably a response to the proposed or potential takeover by Beecham of BPL. He thought it would be better to recommend the Department of Health look urgently into increasing the production of Factor VIII concentrate in NHS

124 (31) Pages 121 - 124

1	laboratories."	1	materials."
2	Then over the page, page 6, about six lines	2	So, again, a very clear live issue for
3	down:	3	Professor Bloom and his fellow directors: the issue
4	"Professor Bloom proposed that the meeting	4	about pool sizes and the risk of hepatitis, and the
5	should press the Department of Health to provide more	5	recognition that cryoprecipitate would bear a lower
6	Factor VIII. It was agreed that a strong resolution	6	risk.
7	should be sent from the meeting to the Department of	7	The resolution that a message would be sent from
8	Health that the Department view with grave concern the	8	the haemophilia centre directors to the Department
9	increasingly inadequate supplies of NHS Factor VIII	9	resulted in Professor Bloom, along with Dr Rizza,
10	concentrate."	10	writing a letter to the Secretary of State and we see
11	Then if we go to page 10, please, in this same	11	that at HCD00000394_049.
12	document, this is in the context of a discussion about	12	It's dated 12 November 1980, addressed to the
13	hepatitis and the presentation of material by	13	Right Honourable Patrick Jenkin, the Secretary of
14	Dr Craske. Picking it up four lines down from the	14	State for Social Services, and it says this:
15	top:	15	"Dear Secretary of State,
16	"Dr Craske felt that increased usage of small	16	"At the recent meeting in Glasgow of the UK
10	pooled concentrates would help to reduce the incidence	18	Haemophilia Centre Directors, disquiet was again
18	of hepatitis in the haemophiliac population. First	18	expressed at the shortfall of freeze-dried
			concentrates of anti-haemophilic factor provided by
19	time exposure to large pooled Factor VIII concentrate	19	
20	resulted in many cases of hepatitis, especially in	20	the NHS manufacturers for the treatment of haemophilia
21	von Willebrand's disease patients. Professor Bloom	21	and at the consequent need to purchase large
22	wondered whether cryoprecipitate would be a better	22	quantities of Factor VIII from foreign commercial
23	product to use for mild haemophiliacs and von	23	sources.
24	Willebrand's disease, but pointed out there was	24	"There's general agreement amongst experienced
25	a problem over the amount of Factor VIII in these 125	25	haematologists and physicians that freeze-dried
	125		12
		,	
1	intermediate or higher purity Factor VIII concentrate	1	commercial production of Factor VIII by private
2	is the material of choice for the treatment of	2	enterprise within the UK, and reference to it being
3	haemophilia.	3	contrary to the spirit of voluntary blood donation and
4	"Statistics collected by the Haemophilia Centre	4	eventually to treatment.
5	Directors show that 50 million units were used during	5	Then over the page it is said:
6	1979, a figure accurately forecast in 1975. Medical	6	"The problem of supply of Factor VIII cannot be
7	progress, increase in the number of patients and	7	divorced from that of these other aspects of the Blood
8	changing patterns of treatment are reflected in the	8	Transfusion Service, and in our opinion should be
9	arithmetic increase in the annual use of Factor VIII	9	solved by improving NHS transfusion resources within
10	seen since 1969 when those statistics were first	10	the UK, both centrally at the fractionation
11	collected. If this trend continues at the present	11	laboratories and peripherally at blood transfusion
12	rate, the annual requirement will rise to about	12	centres. We feel that the future of blood transfusion
13	85 million units"	13	practice and plasma fractionation in this country is
14	Then he goes on to set out what the current	14	too important to be exposed to the vagaries of
15	production is of NHS fractionation.	15	national and international commerce. Moreover, once
16	"It's generally agreed that cryoprecipitate is	16	expertise in plasma fractionation has been lost and
17	not suitable for home treatment and has limited	17	staff dispersed, it may prove difficult to set up
18	medical indications for use. Nevertheless, even	18	plasma fractionation again within the NHS should the
19	taking into account this latter material, there is	19	commercial organisation withdraw."
20	still a shortfall of 25 million units of Factor VIII	20	So effectively a request not to proceed with
21	per annum, and this amount is currently purchased from	21	commercial takeover of BPL from Professor Bloom and
22	commercial sources at a cost to the NHS of	22	Dr Rizza and effectively a cry for greater investment
23	2.5 million."	23	in NHS production.
24	Then there is the expression of concern in this	24	There is a response from Sir George Young on
25	next paragraph about the possibility of licensing the	25	behalf of the Secretary of State. I'm not going to go
	127		12
			(32) Pages 125 - 128

128 (32) Pages 125 - 128

126

### 24 September 2020

Then if we could look please at TREL0000145 084.

1	to it but it is dated 18 December 1980, and reference	1	be a small requirement for its use in patients with
2	is made to the fact that the Minister for Health had	2	von Willebrand's disease and in mild haemophiliacs and
3	now said there's no question of a commercial company	3	some carriers with low levels of Factor VIII. In the
4	taking over BPL.	4	last two categories the small pool size with its
5	If we move then to April of 1981 and we go	5	lesser risk of hepatitis transmission was the main
6	please, Henry, to CBLA0001346 we can see this is	6	reason why frozen cryoprecipitate was preferred to
7	a joint meeting of representatives of haemophilia	7	concentrates."
8	centres and Blood Transfusion Service directors	8	So again a clear recollection both of the risk
9	23 April 1981.	9	of hepatitis transmission and of the relationship as
10	Again, we can see Professor Bloom is there. The	10	it was then understood to be with pool sizes.
11	purpose of the meeting is set out under the heading	11	Then there's a reference again in the next
12	summary of the main points discussed, four lines down,	12	paragraph to that. This in the context of discussing
13	the meeting had been convened in order to consider the	13	the possibility of freeze-dried cryoprecipitate but it
14	foreseeable requirements for blood products containing	14	said four lines down:
15	coagulation factors used in the treatment of	15	"Unless the pool size for the freeze-dried
16	haemophilia.	16	cryoprecipitate was small, the advantages of such
17	Without going into the detail, at the first page	17	a product in terms of lessening the hepatitis exposure
18	there's agreement as to a projected figure for	18	would be lost and it would be difficult to standardise
19	Factor VIII usage for the mid-80s. Then over the page	19	and expensive to produce."
20	I just want to pick up the references there to	20	Then if we look, please, at DHSC0002209_049 w
21	hepatitis risks under the heading:	21	see here a letter from Dr Napier Medical Director of
22	"Types of material required frozen	22	the Welsh Regional Transfusion Centre to the Advisory
23	cryoprecipitate.	23	Committee on the National Blood Transfusion Service.
24	"Even if this were largely phased out for the	24	It's not entirely clear what all of the answers mean
25	treatment of severe haemophiliacs, there would still	25	because we haven't, I think, yet matched it up with
	129		
1	the questions but for present purposes what's relevant	1	For my purposes however if we could just go,
2	is paragraph C:	2	Henry, to the second page last paragraph, we can pick
3	"I understand that Professor Bloom wishes to	3	it up five lines down:
4	continue independent purchase of Factor VIII for the	4	"The seriousness of the hepatic problem in
5	Cardiff Haemophilia Centre."	5	haemophiliacs cannot be ignored."
6	The context here is that there was an ongoing	6	Then there's reference again to the question of
7	discussion at this time and it appears repeatedly in	7	liver biopsies. But there's a communication from
8	Haemophilia Centre Directors' meetings a suggestion	8	Professor Kernoff to Professor Bloom in those terms,
9	that the transfer of decision-making for the purchase	9	the seriousness of the hepatic problem with
10	of Factor VIII would move from Haemophilia Centre	10	haemophiliacs, a clear recognition of the significance
11	Directors to Regional Transfusion Directors or	11	of the issue.
12	Regional Transfusion Centres, and that was vehemently	12	Then if we could look please at TREL0000145_0
13	opposed by Professor Bloom and, indeed, by other	13	This is one of a number of letters from
14	Haemophilia Centre Directors. They did not want to	14	Professor Bloom to Dr Aronstam at Treloars. The
15	lose control over the decision-making in terms of the	15	purpose of this is just to see that as at
16	purchase of products.	16	February 1980 what is being said by Professor Bloom
17	One further document, this is in 1980, at	17	is:
18	HCDO0000274_028. It's a letter from Dr Kernoff at the	18	"Most of our home treatments patients are on
19	Royal Free to Professor Bloom, dated 20 October 1980.	19	Elstree Factor VIII, although we must supplement this
20	It describes what he characterises:	20	with other products from time to time during periods
21	" as a disastrous series of events following	21	of shortage."
22	a liver biopsy carried out on one of our haemophilic	22	How that matches up with some of the other
23	patients who developed severe and uncontrollable	23	material we have seen would suggest that Elstree
24	bleeding and the resulting complications causing his	24	Factor VIII is certainly used but so too are a number
25	death a week later."	25	of commercial products is unclear but that

132 (33) Pages 129 - 132	

INQY1000057 0033

			•
1	SIR BRIAN LANGSTAFF: The return which you showed me for	1	Speywood Laboratories, 19 November 1979. He says
2	1976 I think it was showed a hugely greater use of	2	this:
3	imported concentrate than it did of local concentrate.	3	"I'm trying to rationalise purchasing policy of
4	Was it '76 or is it the other one?	4	Factor VIII concentrate for the treatment of
5	MS RICHARDS: I think it might have been '86 but it is	5	haemophilia and I would be very grateful if you could
6	right to say '76 shows a significant amount of Elstree	6	bring me up-to-date on your current price lists and
7	product being used, but it also shows a not	7	marketing policy."
8	insignificant amount of a range of different	8	What the relevance of marketing policy is and
9	concentrates being used. Then we have, for example,	9	what is meant by that is opaque. Price lists, again,
10	the insights we see in the note of the meeting with	10	is consistent with what we've seen earlier, that an
11	the managing director of Speywood which show that	11	important factor for Professor Bloom in choice of
12	Professor Bloom clearly does use commercial	12	product appears to be its cost.
13	concentrate, I suppose it's conceivable it's not for	13	Precisely what is meant by rationalising
14	home treatment but it doesn't quite fit this statement	14	purchasing policy is not clear but clearly the
15	here with what we pick up again from the different	15	purchase of commercial concentrates is here being
16	pieces of the jigsaw.	16	contemplated.
17	Then if we could again, it's really within	17	The response is at IPSN0000334_004. It's in
18	the 1979/1980/1981 period we're looking at here. If	18	these terms from David Williams of Speywood:
19	we could pick up please, Henry, another Speywood	19	"Dear Arthur,
20	communication. It's ISPN0000334_006.	20	"I enclose formal reply to your recent request
21	Sorry, I said it the wrong way round. It's	21	for human Factor VIII prices. It would be great if we
22	IPSN0000334_004. I'm not sure that is the document	22	can get back onto your list of suppliers, and
23	I want, sorry. I think it should be 006 at the end.	23	I believe that our correct price structure is
24	Yes.	24	competitive. I have to confess we're a bit short of
25	So this is a letter from Professor Bloom to	25	sales at the moment and, with research expenditure of
	133		
1	the polyelectrolyte programme mounting, life is a bit	1	I'm going to focus on its content rather than the
2	difficult for Speywood. Anything which you can do to	2	date.
3	help will be greatly appreciated."	3	It's addressed to all Haemophilia Centre
4	Then there's a reference to Hyate: C being	4	Directors:
5	available for clinical use:	5	"You are no doubt aware of at least four
6	"We are anxiously waiting for the first suitable	6	commercial companies are about to introduce
7	case. If you have an inhibitor crisis, perhaps you	7	preparations of Factor VIII and possibly Factor IX
8	will consider using the product. I will come down to	8	that have been processed in an attempt to reduce the
9	Cardiff early in the new year to update you on the	9	risk of transmitting hepatitis B and non-A, non-B.
10	rest of our projects."	10	"As far as we know, the products have been
11	There are other communications we see as well	11	subject to a heat treatment process."
12	from Professor Bloom with other pharmaceutical	12	Then there's reference to the possibility of
13	companies.	13	other methods of treatment having been used."
14	That brings me to 1982, which is a key year,	14	"Although initial production batches may have
15	clearly, because of AIDS first being reported in	15	been tested for infectivity by injecting them into
16	haemophiliacs.	16	chimpanzees, it is unlikely that the manufacturers
17	I'll start, if I may, with a letter that may be	17	will be able to guarantee this form of quality control
18	from 1982 or may not. I'll explain why I say that in	18	for all future batches. It is therefore very
19	a moment. It's at HCDO0000252_042.	19	important to find out by studies in human beings to
20	It's a fairly well known letter. It's dated	20	what extent the infectivity of the various
21	11 January 1982. For reasons I'll come back to when	21	concentrates is being reduced. The most clear-cut way
22	we look at some documents, probably on Wednesday, from	22	of doing this is by administering those concentrates
23	late 1982 and early 1983, it is at least possible that	23	to patients requiring treatment who have not been
24	this document has been incorrectly dated and that it	24	previously exposed to large pool concentrates."
25	was sent on 11 January 1983. But for present purposes	25	So, pausing there, the suggestion is in those
	135		
			(34) Pages 133 - 13

136 (34) Pages 133 - 136

134

INQY1000057 0034

### 24 September 2020

		. ,
1	who have been previously not PUPS as they are often	
2	referred to previously not exposed to large pool	2
3	concentrates, that those patients are treated with	3
4	these suggested new products to see whether they have	
5	reduced the infectivity of non-A, non-B hepatitis.	5
6	Then the letter continues:	6
7	"Those patients are few in number but a study	7
8	along those lines is being carried out at Oxford to	8
9	determine the infectivity of Factor VIII concentrates	9
10	produced by the Plasma Fractionation Laboratory	10
11	Oxford, and Blood Products Laboratory Elstree. This	11
12	study shows that it is possible to demonstrate	12
13	infectivity using quite small numbers of previously	13
14	untreated patients. It's very important also to find	14
15	out as soon as possible whether the manufacturing	15
16	methods used to reduce the hepatitis risk has resulted	16
17	in a product with undesirable characteristics"	17
18	It gives examples of what those characteristics	18
19	might be.	19
20	"Although there's no doubt that the introduction	20
21	of hepatitis-safe products would constitute a major	21
22	advance, we hope you will agree with us that their use	22
23	on a named patient basis would be undesirable and	23
24	might seriously hinder controlled studies in the	24
25	future. There are several reasons for thinking this:	25 137
		157
1	that the Hepatitis Working Party [that's the working	1
2	party of the Haemophilia Centre Directors'	2
3	Organisation] are discussing plans for clinical trials	3
4	of these products as they become available and will,	4
5	if necessary, request exemption from a clinical trial	5
6	certificate in respect of individual products in order	6
7	to expedite trials. We hope the companies concerned	7
8	will collaborate in these trials and will offer	8
9	appropriate supplies of their concentrate as well as	9
10	financial support. Unfortunately, there is	10
11	insufficient time available to air these problems at	11
12	the next meeting of the Haemophilia Centre Directors	12
13	but if you have any observations we would be most	13
14	grateful to learn of them as soon as possible. With	14
15	best wishes"	15
16	Then we see it's from Professor Bloom and	16
17	Dr Rizza.	17
18	Again, that's one of the key documents that I'm	18
19	sure we will come back to both with witnesses and with	19
20	submissions in due course.	20
21	That's January of 1982 potentially and we'll	21
22	come back to that. September 1982 there is	22
23	a Reference Centre Directors' meeting on 6 September.	23
24	Henry, that's HCDO0000410 please, chaired by	24
25	Professor Bloom.	25 139
		100

	"1. The best way of assessing efficiency and
	observing recovery of activity, side effects,
	et cetera, is by properly conducted clinical studies.
	Since a number of products are likely to be introduced
	in the next few months, a core of at-risk patients
	will be needed for this assessment. It is for the
	treatment of such patients that producers will make
	their products available. If patients at risk are
	treated as on a named patient basis, they will be
)	unavailable for clinical trials and the results will
	be of anecdotal value only."
2	If we carry on please, Henry:
3	"2. For the purposes of a product licence, the
ļ	manufacturers are required to set out to the
5	regulatory authority in the UK the evidence of product
6	efficacy and safety and details of processing,
7	et cetera"
3	Then various matters set out in relation to
)	regulatory requirements ending with the sentence:
)	"Formal trial of efficacy and ongoing monitoring
	of quality control is thus important.
2	"3. Use of a product on named-patient basis is
3	often justifiable but bypasses these regulatory
ļ	controls which have been established in the interest
5	of patients. We are therefore writing to let you know

138

We can pick up the issue about the Hepatitis Working Party on page 8 please, Henry. So bottom of page 8 there's a report from Dr Craske for the Hepatitis Working Party. If we go on to page 9, please, we can see reference to two matters hepatitis vaccine and then a surveyor that Dr Craske was conducting in collaboration with Oxford on the use of commercial and NHS concentrates for first-time or seldom-treated patients. There's a description of that study. Nine of the patients had developed non-A, non-B hepatitis. It appears that there was a 100 per cent attack rate for first-time treated patients who received NHS Factor VIII concentrate and more than an 80 per cent chance of contracting hepatitis following treatment within any type of concentrate. Then if we go further down, we see and this is the issue to which the January letter alluded, Dr Craske said he'd advise caution with regard to the claims for hepatitis B-free materials which had been made by commercial firms. Only way to check this material was to test it. Over the page, we then see a continuing discussion and then if we can go on please to page 11 the discussion goes from one topic to another and then

140 (35) Pages 137 - 140

1	leaps back. We come back to an issue about non-A,	1
2	non-B hepatitis about ten lines down:	2
3	"In the context of a discussion about the	3
4	hepatitis B vaccine Professor Bloom wondered what	4
5	value the giving of the vaccine was as it was only for	5
6	hepatitis B when non-A, non-B hepatitis seemed to be	6
7	the larger problem for the haemophilic patients."	7
8	Then we have the passage we've already looked	8
9	at. This is the first reference in the Haemophilia	9
10	Centre Directors' meetings to AIDS. This is	10
11	Professor Bloom asking Dr Craske if he's got any	11
12	information about AIDS and Dr Craske saying he'll find	12
13	out more about this.	13
14	We've looked already at the update that was	14
15	provided at the Manchester meeting a week later on	15
16	13 September. I won't go back to that, sir, but	16
17	you'll recall that the minutes report this:	17
18	"It appeared there was a remote possibility that	18
19	commercial blood products had been involved."	19
20	That's in the context of the development of AIDS	20
21	in haemophiliacs.	21
22	We can then pick matters up in a communication	22
23	directly from Immuno to Professor Bloom and that is at	23
24	DHSC0001280. This is 13 October 1982, a month after	24
25	the Haemophilia Centre Directors' meeting from Norman	25
	141	
1	"Dear Norman, thank you very much for your	1
2	letter about pneumocystis and Factor VIII	2
3	concentrates. As a matter of fact, we discussed this	3
4	at the Manchester meeting of the Haemophilia Directors	4
5	and also at the Reference Centre Directors' meeting.	5
	-	

5 and also at the Reference Centre Directors' meeting. 6 At the moment our advice from the virologists is not 7 to panic but we will certainly all keep an eye out for 8 this immunodeficiency syndrome. I am sure that if 9 a case is discovered in the UK that all interested 10 parties will be notified." 11 Whether as at October 1982 a suggestion not to 12 panic but we'll keep an eye out is an appropriate 13 response is obviously very much an issue that you will need to consider, sir. 14 15 Then we will just look at a couple more 16 documents that we haven't looked at previously in the 17 knowledge of risk presentation which just pick up upon 18 communications on AIDS in November 1982. 19 So if we have next, please, Henry HCDO0000557. 20 This is a letter from Dr Craske to Ms Spooner in 21 Oxford. 22 Sir, it encloses a paper produced by Dr Craske, 23 a 24 w

and the paper is the paper we looked at this morning
which has the three theories of the possible aetiology
of AIDS, with the third involving possibly the

25

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

l	Berry of Immuno:
2	"Dear Arthur, as I am sure you are aware three
3	cases of PCP were reported in haemophiliacs receiving
ļ	Factor VIII concentrate. This caused concern about
5	the transmission of the disease by Factor VIII or
6	possibly other blood products."
,	Then Immuno say this:
}	"As far as Factor VIII is concerned we very much
)	doubt the likelihood of this and the organism wouldn't
0	pass through the bacterial filtration process. We do
1	however wonder if there's some unknown entity in the
2	product which causes an immunodeficiency."
3	Then says this:
4	"I do not know if it will possible to discuss
5	this problem at your next Haemophilia Directors'
6	meeting but, if you do, we would welcome any
7	information you acquire and we would especially be
8	interested in any haemophiliac who has repeat
9	occurrences of chest infection."
0	So Immuno asking Professor Bloom to pass on to
1	them details or information, sorry, I should say,
2	rather than details about anything they acquire about
3	this issue.
4	There is a brief reply from Professor Bloom at
5	BPLL0001351_116 and it's 15 October 1982:

142

transfusion of commercial blood concentrates. We didn't look at the covering letter. Can't say with confidence that Professor Bloom would necessarily have seen this letter. He might have done. He would have seen the report. We know that because of the reasons for which it was produced. But this letter says: "I enclose a copy of a paper I prepared for the meeting of the MRC hepatitis vaccine working group which describes the most recent information available about this new syndrome. At Peter Kernoff's suggestion I wrote to the project leader of the team looking into the epidemiology of this disease at the CDC, Atlanta, Georgia. He telephoned me last week. The latest information is that there are five haemophiliacs who have been identified with this syndrome, two of whom recently died. All these cases are without the usual association of homosexual practices, drug addiction or treatment with immunosuppressant drugs, which are factors which have been found in other patients acquiring opportunistic investigations. "The hypothesis at present being used to explain the acquisition of these cases is that one or two patients in the incubation period donated plasma which

144 (36) Pages 141 - 144

## The Infected Blood Inquiry

1	has since been used to prepare Factor VIII or IX	1	
2	concentrates. All the haemophiliacs who have had the	2	the g
3	disease have had severe coagulation defects requiring	3	Fac
4	regular treatment with Factor VIII."	4	
5	Then Dr Craske says this:	5	
6	"The likelihood is, therefore, that other cases	6	prod
7	will be identified amongst severe haemophiliacs,	7	part
8	though, probably at a low prevalence."	8	Fac
9	Then there is a reference to proposed dates for	9	exa
10	meetings.	10	price
11	Sir, the covering letter perhaps provides	11	of H
12	a little further detail about Dr Craske's view. It	12	threa
13	would, I think, perhaps be surprising if Dr Craske's	13	with
14	view was not known to Professor Bloom, given how	14	
15	closely Craske, Bloom and Rizza were working at this	15	at (2
16	time.	16	
17	Then the very final document for today is at	17	hepa
18	BPLL0011138. This is a meeting at BPL on	18	spec
19	15 December 1982. It's headed "The implications for	19	strue
20	the Haemophilia and Blood Transfusion Services of	20	
21	Commercial Introduction of hepatitis-safe Factor VIII	21	l sho
22	and IX". We can see the attendees. They Include	22	Dr L
23	Bloom, Rizza and Craske.	23	
24	If we pick it up under "Commercial	24	to U
25	Considerations":	25	
	145		
1	commercial manufacturers to haemophilia directors in	1	at, tl
2	the UK to study H-S VIII has many severe disadvantages	2	that
3	for the NHS and gives little or no payback to the UK	3	pick
4	in return for opportunistic and non-contractual use of	4	follo
5	the special potential of the UK haemophilia services	5	thin
6	as a collective entity."	6	and
7	Quite what that means, sir, happily is a matter	7	reas
8	for you to decide and not me.	8	furth
9	Then if we go to the third page, under the	9	case
10	heading "Efficacy and safety of HS VIII and HSIX":	10	
11	"The above statement defines the need for	11	stop
12	centralised, fully controlled prospective trials of	12	com
13	HS materials, best operated through a properly	13	AID
14	executed national clinical trial, and the proposals	14	time
15	are that the random exploitation of the haemophilia	15	SIR BRI
16	service by commercial organisations for the study of	16	
17	hepatitis-safe products should be discouraged, that	17	agai
18	the haemophilia services should create a formal basis	18	MS RICH
19	for controlled clinical trial of alleged	19	relat
20	hepatitis-self products, that the haemophilia	20	then
21	services, PHLS and NBTS, should combine resources in	21	mate
22	a manner likely to advance economic treatment of	22	then
23	NHS haemophiliacs with safe products."	23	our
24	Sir, pausing there, that is the issue which is	24	Dr N
25	the subject of the January 1982 letter that we looked	25	pers
	, 147		,

"Factor VIII concentrates occupy 13 per cent of	
the gross operating turnover of blood products.	
Factor VIII lies fourth to"	
Sets out the other three.	
"Pricing stability in the world market on blood	
products has introduced many bizarre effects,	
particularly in Europe. The price battle for	
Factor VIII intermediate concentrate in the UK is an	
example. Intense competition and unacceptably low	
prices is alleged to have resulted in the withdrawal	
of Hyland Hemofil 2 from the UK market and the	
threatened possibility of a second major company	
withdrawal in 1983."	
Then there are various predictions set out, and	
at (2):	
"It's a clear-field entry for commercial	
hepatitis-safe Factor VIII, which by nature of its	
special product status (unproven) can command a price structure more in keeping with market expectations."	
Then if we go over the page under the heading	
I should have said, this is a note prepared by	
Dr Lane, the director of BPL.	
Under the heading "Current commercial approach	
to UK users":	
"The random approach now being adopted by	
	1

146

l	at, the chimpanzees infectivity humans letter, and
2	that's why it seems likely that the themes that are
3	picked up in that letter, which echo the themes here,
ŀ	follow on from this and why it's one reason why we
5	think the letter may, in fact, be incorrectly dated
6	and should be dated January 1983. There's another
,	reason, which we'll look at on Wednesday when we look
3	further into 1983, why we think that might be the
)	case.
0	Sir, that I think may be a convenient time to
1	stop for the day because I'm about to look at the key
2	communications and advice given by Professor Bloom on
3	AIDS in the course of 1983, and that will take some
4	time.
5	SIR BRIAN LANGSTAFF: Yes.
6	Well, thank you very much, Ms Richards. We meet
7	again on Wednesday at ten o'clock then.
8	MS RICHARDS: Sir, yes. We'll resume with this material
9	relating to Professor Bloom and Cardiff. We will
0	then, I anticipate, start looking at the Oxford
1	material but probably not complete it that day, but
2	then on the Thursday and Friday of next week we have
3	our first haemophilia clinician witness, who is
4	Dr Mark Winter, who will be giving evidence here in
5	person.
	148 (37) Pages 145 - 148
	()

1	SIR BRIAN LANGSTAFF: Yes. He is scheduled for Thursday
2	and Friday.
3	MS RICHARDS: He is scheduled for Thursday and Friday,
4	sir.
5	SIR BRIAN LANGSTAFF: Very well.
6	That is it for today, so that is it for this
7	week. Those of you who are travelling or whatever
8	your plans are, stay safe. Those of you who have
9	plans to return, I look forward to seeing you again in
10	due course. Thank you very much.
11	(4.20 pm)
12	(Adjourned until Wednesday, 30 September 2020 at 10 .00am)
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

149

(38) Pages 149 - 149

	,				I
	020 [1] 13/22	13 July [2] 34/21 50/5	107/12 107/21 108/3	76/7 76/10 92/8 92/10	24 hours [1] 113/7
	<b>021 [1]</b> 14/20	13 July 1983 [3]	108/5 108/11 110/21	92/17 92/18 92/19	24 June 1983 [2]
MS RICHARDS: [42]	028 [1] 131/18	31/14 43/20 44/2	133/2	93/7	29/12 29/20
1/3 1/21 1/24 2/10	036 [2] 49/2 49/4	13 May [2] 21/7 30/7	<b>1977 [4]</b> 88/7 89/23	<b>1987 [6]</b> 76/11 84/12	24 November 1986 [1]
3/22 4/1 4/10 19/5		13 May 1983 [1] 29/24	90/8 110/24	84/14 84/17 88/9 90/8	76/10
19/10 19/15 22/24	<b>040 [1]</b> 16/3				
27/2 27/5 28/14 42/5	042 [2] 94/3 135/19	13 October 1982 [1]	<b>1978 [11]</b> 17/1 18/2	<b>1988 [4]</b> 76/15 77/2	24 September 2020
42/7 42/13 42/24	<b>049 [2]</b> 126/11 130/20	141/24	18/3 18/24 19/1	84/17 85/4	[ <b>1</b> ] 1/1
43/10 43/12 46/14	051 [1] 25/7	13 per cent [1] 146/1		<b>1989 [4]</b> 78/15 78/17	25 million [1] 127/20
46/24 55/7 55/12	<b>057 [1]</b> 65/8	13 September [1]	115/18 117/21 120/21	78/19 79/7	250 [1] 113/15
55/18 59/18 60/11	060 [1] 50/13	141/16	<b>1979 [9]</b> 83/5 83/21	<b>1990 [5]</b> 79/12 79/17	26 August 1983 [1]
60/16 60/20 67/13	061 [2] 50/21 50/21	14 December 1984 [1]	84/1 88/1 115/23	87/9 87/13 88/17	49/5
	084 [1] 132/12	69/6	118/18 119/2 127/6	1991 [3] 79/20 80/2	27 January 1978 [1]
67/15 72/23 73/3 79/5	4	14 July [1] 41/22	134/1	84/6	115/18
80/15 81/25 82/16	1	14 November 1983 [1]	1979/1980/1981 [1]	1992 [5] 82/20 82/21	27 October [1] 99/14
104/25 115/12 133/4	1 May [2] 5/13 6/14	58/1	133/18	83/21 89/25 90/8	28 August 1986 [1]
148/17 149/2	1 May 1983 [1] 4/15	14th [1] 53/22	1980 [13] 10/22 11/6	1995 [2] 80/7 89/25	74/25
SIR BRIAN	1,000 [4] 19/22 37/2	<b>15 [3]</b> 22/8 91/9 92/19	18/6 90/5 118/23	<b>1996 [1]</b> 90/13	28 June [1] 34/20
LANGSTAFF: [43]	62/15 87/25	15 December 1982 [1]	121/8 121/17 124/8		29 January 1985 [1]
1/2 1/19 1/22 2/5 3/21	1,000 donors [1] 6/2	145/19	126/12 129/1 131/17	2	69/16
3/23 4/8 18/21 19/8	<b>1,300 [1]</b> 4/20			2 million [1] 64/19	
19/13 22/22 26/23		15 July 1983 [1]	131/19 132/16		29 June [1] 34/23
27/4 28/12 41/25 42/6	<b>1,641 [1]</b> 29/15	35/18 45 October 4002 [4]	<b>1981 [7]</b> 18/7 57/2	2,008 [1] 50/25	3
42/8 42/22 43/8 43/11	1.05 [1] 80/9	15 October 1982 [1]	72/10 89/23 129/5	<b>2.10 [1]</b> 81/11	
46/10 46/15 54/25	<b>1.12 [1]</b> 81/12	142/25	129/9 133/18	2.10 pm [1] 81/14	3 June [1] 25/10
55/8 55/15 59/13 60/8	<b>10 [4]</b> 6/25 7/25 87/11	<b>150 [1]</b> 92/15	1981/82 [1] 18/13	2.5 million [1] 127/23	3 May [1] 6/15
60/12 60/18 67/10	125/11	150 pages [1] 85/18	1982 [19] 18/8 72/23	<b>20 [1]</b> 106/16	3 May 1983 [1] 6/18
67/14 72/22 72/25	10 December 1984 [2]	16 [3] 21/18 36/1 36/8	75/20 84/7 84/10 89/8		3 o'clock [2] 81/16
	68/22 69/4	16 December 1983 [1]	90/5 135/14 135/18	20 November 1986 [1]	115/5
78/24 81/3 81/14	10.00 [2] 1/2 1/21	58/18	135/21 135/23 139/21	75/15	3.03 pm [1] 115/8
82/15 104/23 115/6	10.00am [1] 149/12	164 [1] 23/8	139/22 141/24 142/25	20 October 1980 [1]	3.27 [1] 115/12
132/25 148/14 148/25	100 [2] 110/20 113/16			131/19	3.30 [1] 115/7
149/4	100 million [1] 118/7	17 October 1983 [1]	147/25	20 years [1] 89/4	30 April [1] 16/16
ŧ	100 per cent [1]	53/22	<b>1983 [59]</b> 1/7 2/21 4/7		30 April 1983 [1] 2/21
	140/12	<b>18 [1]</b> 129/1		<b>200 [1]</b> 5/20	30 November 1984 [1]
<b>'4 [1]</b> 51/7	<b>101,160 [1]</b> 91/19	18 months [1] 5/20	14/1 14/14 14/23	<b>2003 [1]</b> 89/24	65/9
'4-H List' [1] 51/7	<b>10p [1]</b> 114/2	18 November [2] 57/5	20/14 21/19 21/25	<b>2020 [2]</b> 1/1 149/12	30 September 1980
'70s [2] 77/8 112/5	<b>11 [8]</b> 5/20 10/6 36/17		23/2 23/9 23/23 23/25		[ <b>1</b> ] 124/8
<b>'76 [3]</b> 19/4 133/4		57/22			
133/6	38/3 46/3 96/7 120/10	, , , , , , , , , , , , , , , , , , ,		21 February 1986 [1]	30 September 2020
<b>'77 [1]</b> 19/4	140/24	19 November 1979 [1]	29/12 29/20 29/24	74/3	[ <b>1</b> ] 149/12
79 [1] 114/14	11 January 1982 [1]	134/1	31/14 34/20 35/18	21 January 1976 [1]	31 January 1974 [1]
<b>'81 [1]</b> 73/2	135/21	1960s [1] 94/9	37/19 38/18 40/10	107/12	102/5
<b>'85 [1]</b> 84/7	11 January 1983 [1]	1963 [1] 87/19	43/15 43/20 44/2	21 June 1983 [1]	319,775 [1] 91/20
<b>'86 [1]</b> 133/5	135/25	1964 [1] 87/18	45/24 46/25 48/21	26/13	124 [4] GG/15
'Most [1] 88/19	111 January 1005 [2]				<b>34 [1]</b> 66/15
moscilloous	11 January 1985 [2]	1966 [1] 82/20	49/5 49/15 50/8 50/12	21 million [2] 12/25	<b>36 per cent [1]</b> 37/4
	69/15 70/6	1966 [1] 82/20 1969 [1] 127/10	49/5 49/15 50/8 50/12 50/15 50/23 53/9	<b>21 million [2]</b> 12/25 52/16	36 per cent [1] 37/4
				21 million [2] 12/25	36 per cent [1] 37/4 4
	69/15 70/6	1969 [1] 127/10	50/15 50/23 53/9 53/22 54/25 55/25	<b>21 million [2]</b> 12/25 52/16	36 per cent [1] 37/4 4
• <b>[4]</b> 24/15 36/14	69/15 70/6 <b>11 o'clock [1]</b> 46/8	<b>1969 [1]</b> 127/10 <b>1970 [2]</b> 94/2 94/8	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1	<b>21 million [2]</b> 12/25 52/16 <b>22 [1]</b> 50/15 <b>22 April 1970 [1]</b> 94/8	36 per cent [1] 37/4 4
	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5	<b>1969 [1]</b> 127/10 <b>1970 [2]</b> 94/2 94/8 <b>1970s [6]</b> 85/14 89/5 90/7 94/2 98/24	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9	36 per cent [1]         37/4           4         4           4 May 1983 [2]         13/15
	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5	<b>1969 [1]</b> 127/10 <b>1970 [2]</b> 94/2 94/8 <b>1970s [6]</b> 85/14 89/5 90/7 94/2 98/24 104/25	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980	36 per cent [1]         37/4           4         4           4 May 1983 [2]         13/15           13/20         4.15 [1]         81/24
	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23	36 per cent [1] 37/4 4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9	36 per cent [1] 37/4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5	36 per cent [1]         37/4           4         4           4 May 1983 [2]         13/15           13/20         4.15 [1]         81/24           4.20 pm [1]         149/11           4.30 [1]         81/25           40 per cent [1]         9/22
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24	<b>1969 [1]</b> 127/10 <b>1970 [2]</b> 94/2 94/8 <b>1970s [6]</b> 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971 [4]</b> 87/25 94/12 97/4 97/11 <b>1972 [5]</b> 89/23 98/22 99/13 100/17 100/21	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3	36 per cent [1] 37/4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2	36 per cent [1] 37/4         4         4 May 1983 [2] 13/15         13/20         4.15 [1] 81/24         4.20 pm [1] 149/11         4.30 [1] 81/25         40 per cent [1] 9/22         5
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18	36 per cent [1] 37/4 4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1]	36 per cent [1]         37/4           4         4           4 May 1983 [2]         13/15           13/20         4.15 [1]         81/24           4.20 pm [1]         149/11         4.30 [1]         81/25           40 per cent [1]         9/22         5         50         [2]         52/18         88/18           50 million [2]         123/19         123/19         123/19         123/19
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13	36 per cent [1] 37/4           4           4 May 1983 [2] 13/15           13/20           4.15 [1] 81/24           4.20 pm [1] 149/11           4.30 [1] 81/25           40 per cent [1] 9/22           5           50 [2] 52/18 88/18           50 million [2] 123/19           127/5
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2	36 per cent [1] 37/4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23	36 per cent [1] 37/4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13 12 months [1] 37/8	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20 127/6	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19 83/5 84/1 84/5 84/10	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23 23,750 [1] 91/17	36 per cent [1] 37/4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14 55 [1] 56/10
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9 011 [1] 87/6	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13 12 months [1] 37/8 12 November 1980 [1]	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19 83/5 84/1 84/5 84/10 84/14 84/23 123/21	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23 23,750 [1] 91/17 233 [1] 63/5	36 per cent [1] 37/4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9 011 [1] 87/6 012 [1] 71/7	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13 12 months [1] 37/8 12 November 1980 [1] 126/12	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20 127/6	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19 83/5 84/1 84/5 84/10 84/14 84/23 123/21	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23 23,750 [1] 91/17 233 [1] 63/5 23rd [1] 45/24	36 per cent [1] 37/4 4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14 55 [1] 56/10
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9 011 [1] 87/6 012 [1] 71/7 018 [1] 112/7	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13 12 months [1] 37/8 12 November 1980 [1]	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20 127/6 <b>1976</b> [16] 83/17 90/23	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19 83/5 84/1 84/5 84/10 84/14 84/23 123/21	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23 23,750 [1] 91/17 233 [1] 63/5	36 per cent [1] 37/4 4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14 55 [1] 56/10
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9 011 [1] 87/6 012 [1] 71/7	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13 12 months [1] 37/8 12 November 1980 [1] 126/12	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20 127/6 <b>1976</b> [16] 83/17 90/23 91/1 91/12 92/5 92/7	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19 83/5 84/1 84/5 84/10 84/14 84/23 123/21 <b>1986 [13]</b> 73/24 74/3	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23 23,750 [1] 91/17 233 [1] 63/5 23rd [1] 45/24	36 per cent [1] 37/4 4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14 55 [1] 56/10
[4] 24/15 36/14 38/21 131/21 as [1] 131/21 who [1] 24/15 0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9 011 [1] 87/6 012 [1] 71/7 018 [1] 112/7	69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent [1] 37/5 11 reported [1] 16/20 11.00 [1] 46/9 11.03 [1] 46/22 11.45 [2] 46/21 46/24 116 [1] 142/25 117 [1] 69/3 118 [1] 97/9 11th [1] 79/20 12 [3] 92/3 106/11 117/13 12 months [1] 37/8 12 November 1980 [1] 126/12	<b>1969</b> [1] 127/10 <b>1970</b> [2] 94/2 94/8 <b>1970s</b> [6] 85/14 89/5 90/7 94/2 98/24 104/25 <b>1971</b> [4] 87/25 94/12 97/4 97/11 <b>1972</b> [5] 89/23 98/22 99/13 100/17 100/21 <b>1973</b> [2] 106/16 109/16 <b>1974</b> [4] 90/7 102/1 102/5 103/3 <b>1975</b> [6] 94/2 104/4 104/20 105/13 123/20 127/6 <b>1976</b> [16] 83/17 90/23 91/1 91/12 92/5 92/7	50/15 50/23 53/9 53/22 54/25 55/25 57/5 58/1 58/18 76/1 76/4 84/3 84/11 84/16 135/23 135/25 146/13 148/6 148/8 148/13 <b>1984 [20]</b> 59/10 60/24 61/5 61/20 61/25 63/6 63/12 64/10 64/13 65/9 68/11 68/19 68/22 69/4 69/6 69/7 72/17 84/7 84/23 85/1 <b>1985 [16]</b> 67/19 69/12 69/15 69/16 69/22 70/6 73/5 73/17 73/19 83/5 84/1 84/5 84/10 84/14 84/23 123/21 <b>1986 [13]</b> 73/24 74/3	21 million [2] 12/25 52/16 22 [1] 50/15 22 April 1970 [1] 94/8 22 January [1] 71/9 22 September 1980 [1] 118/23 23 April [1] 129/9 23 April 1984 [1] 61/5 23 August [1] 47/3 23 June 1983 [2] 23/2 27/18 23 November 1984 [1] 64/13 23 years [2] 15/2 87/23 23,750 [1] 91/17 233 [1] 63/5 23rd [1] 45/24 24 [2] 20/23 113/14	36 per cent [1] 37/4 4 4 4 May 1983 [2] 13/15 13/20 4.15 [1] 81/24 4.20 pm [1] 149/11 4.30 [1] 81/25 40 per cent [1] 9/22 5 50 [2] 52/18 88/18 50 million [2] 123/19 127/5 50,000 [1] 114/2 53 per cent [1] 66/14 55 [1] 56/10

(39) MS RICHARDS: - 6 July 1983

6	a complete [1] 90/18	a favourable [1] 96/17		a participant [1]	a revised [2] 65/6
6 June 1983 [1] 25/11	a concentrated [1]	a feeling [2] 75/3	a live [1] 82/11	83/16	117/22
6 May 1983 [2] 14/1	36/24	118/3	a liver [2] 122/16	a particular [2] 111/6	a role [1] 85/1
14/23	a conclusion [1]	a few [8] 4/7 6/5 39/17	131/22	115/3	a roughly [1] 93/2
6 September [1]	80/19	53/15 56/11 57/25	a lot [2] 24/5 82/16	a particularly [1]	a San Franciscan [1]
139/23	a consensus [1] 75/7	101/5 109/14	a low [2] 14/9 145/8	83/12	6/6
60 per cent [1] 20/6	a consequence [1]	a figure [1] 127/6	a lower [1] 126/5	a patient [4] 14/11	a satisfactory [1]
	3/7	a first [1] 114/17	a major [5] 8/9 33/21	98/20 104/3 107/8	59/21
7	a consideration [1]	a flavour [3] 83/15	47/21 76/21 137/21	a person [1] 87/22	a screening [3] 63/10
7 per cent [1] 37/6	43/25	112/6 113/11	a manner [1] 147/22	a pharmaceutical [1]	70/21 71/5
70 per cent [1] 20/7	a consultant [1]	a formal [1] 147/18	a matter [8] 7/15 34/5	20/12	a second [1] 123/11
<b>71 [1]</b> 92/17	107/10	a freeze-dried [1]	34/10 68/16 76/4	a place [1] 114/21	a secondary [1] 51/22
74 per cent [1] 66/13	a continuing [1]	109/24	120/18 121/3 147/7	a point [1] 119/5	a secure [1] 88/11
75 per cent [1] 51/3	140/23	a full [2] 81/8 121/12	a meeting [11] 7/23	a poor [1] 120/4	a selection [1] 82/17
	a controlled [1] 96/25	a further [3] 29/13	21/25 25/9 34/20	a possibility [3] 3/10	a senior [1] 107/11
8	a convenient [3]	50/9 54/13	34/23 40/10 94/13	15/24 65/16	a sense [2] 91/11
80 per cent [1] 140/14	46/10 46/11 148/10	a general [1] 96/5	113/13 115/17 117/7	a possible [3] 21/1	100/21
80s [1] 129/19	a copy [3] 38/19	a good [1] 100/10	145/18	23/4 37/9	a series [4] 2/17 2/20
82 [1] 18/13	60/23 144/8	a great [1] 11/7	a member [5] 83/16	a pre-March [1] 60/10	79/14 89/9
85 million [2] 123/21	a core [2] 121/13	a group [2] 64/1 83/18	83/20 84/2 84/6 84/12	a preference [1]	a session [1] 39/1
127/13	138/5	a haemophilia [1]	a message [1] 126/7	101/15	a set [1] 90/23
	a cost [1] 127/22	124/7	a mild [1] 36/8	a presentation [2] 2/4	A sexually [1] 4/19
9	a country [1] 5/5	a haemophiliac [4]	a million [1] 37/1	82/12	a short [1] 112/3
9 May [1] 16/7	a couple [3] 6/23	16/12 18/6 72/10	a minute [1] 6/17	A previously [1]	a shortage [1] 96/4
9 May 1983 [1] 20/14	112/6 143/15	72/25	a moment [1] 59/14	44/13	a shortfall [1] 127/20
<b>90 [2]</b> 66/9 76/22	a cry [1] 128/22	a haemophiliac in [1]	a monitoring [1] 12/4	a price [1] 146/18	a significant [3] 60/25
909,020 [1] 91/14	a decade [1] 92/8	56/23	a month [2] 53/11	a problem [1] 125/25	73/6 133/6
95 per cent [1] 76/22	a decision [1] 17/7	a handful [3] 51/13	141/24	a product [4] 130/17	a single [1] 32/12
	a deferral [1] 79/17	68/24 89/14	a more [1] 119/20	137/17 138/13 138/22	a slightly [1] 39/3
A	a definite [1] 30/4	a handwritten [2]	a much [2] 55/17	a projected [1] 129/18	a small [4] 99/10
a 9-year [1] 72/7	a definition [1] 28/13	50/15 56/4	55/17	a properly [1] 147/13	104/16 112/17 130/1
a baby [1] 50/9	a delay [1] 79/3	a heat [1] 136/11	a multiply [1] 16/21	a proposed [1] 106/4	a smaller [1] 92/6
a background [1]	a Department [1] 57/7	a hepatitis [1] 105/25	a named [2] 137/23	a publication [3]	a snapshot [1] 93/13
6/25	a description [3]	a high [2] 19/18 22/3	138/9	37/17 63/9 77/3	a social [1] 90/6
a ban [1] 11/10	88/13 104/9 140/9	a high-potency [1]	a national [1] 83/13	a quantity [1] 60/4	a solution [1] 45/22
a basis [1] 116/16	a diagnosis [1] 15/4	101/7	a need [1] 46/4	a question [2] 24/9	a somewhat [1] 32/6
a BBC [1] 2/13	a disastrous [1]	a higher [1] 47/17	a new [3] 12/25 27/20	117/17	a source [3] 38/7
a better [1] 125/22	131/21	a hugely [2] 82/21	114/11	a quote [2] 5/2 56/18	17111 17101
a bit [2] 134/24 135/1					47/14 47/24
	a discussion [10]	133/2	a newsletter [1] 37/18		47/14 47/24 a special [3] 8/10
	a discussion [10]		a newsletter [1] 37/18 a not [1] 133/7		
a blood [2] 24/17 50/9	a discussion [10]	133/2 a joint [2] 102/3 129/7		a range [1] 133/8 a recommendation [3]	a special [3] 8/10
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12	a discussion [10] 95/11 96/9 100/5	133/2 a joint [2] 102/3 129/7	a not [1] 133/7	a range [1] 133/8 a recommendation [3]	<b>a special [3]</b> 8/10 21/7 68/22
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24	<b>a discussion [10]</b> 95/11 96/9 100/5 102/9 103/9 106/7	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13	a not [1] 133/7 a note [5] 35/18 48/24	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18	a special [3] 8/10 21/7 68/22 a specialised [1]
<b>a blood [2]</b> 24/17 50/9 <b>a brief [4]</b> 87/4 89/12 95/19 142/24 <b>a British [1]</b> 53/17	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11]	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1]
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2]	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1]	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1]	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1]	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1] 129/3	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1] 38/15	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17 143/20	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8 a paragraph [1] 114/1	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20 140/3	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3 a subsequent [1] 94/3
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1] 129/3 a communicable [1]	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1] 38/15 a European [1] 22/22	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17 143/20 a light [1] 90/16	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8 a paragraph [1] 114/1 a Parliamentary [1]	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20 140/3 a request [2] 43/7	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3 a subsequent [1] 94/8 a substantial [1] 74/20
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1] 129/3 a communicable [1] 13/25	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1] 38/15 a European [1] 22/22 a fairly [3] 71/7 86/11	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17 143/20 a light [1] 90/16 a limited [1] 96/24	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8 a paragraph [1] 114/1 a Parliamentary [1] 57/24	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20 140/3 a request [2] 43/7 128/20	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3 a subsequent [1] 94/8 a substantial [1] 74/20
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1] 129/3 a communicable [1] 13/25 a communication [2]	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1] 38/15 a European [1] 22/22 a fairly [3] 71/7 86/11 135/20	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17 143/20 a light [1] 90/16 a limited [1] 96/24 a link [1] 56/16	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8 a paragraph [1] 114/1 a Parliamentary [1] 57/24 a part [1] 84/19	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20 140/3 a request [2] 43/7 128/20 a research [1] 114/13	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3 a subsequent [1] 94/8 a substantial [1] 74/20 a suggested [2] 31/18 32/2
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1] 129/3 a communicable [1] 13/25	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1] 38/15 a European [1] 22/22 a fairly [3] 71/7 86/11 135/20 a faithful [1] 102/6	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17 143/20 a light [1] 90/16 a limited [1] 96/24 a link [1] 56/16 a little [8] 3/4 5/1 6/3	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8 a paragraph [1] 114/1 a Parliamentary [1] 57/24 a partial [2] 86/5	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20 140/3 a request [2] 43/7 128/20 a research [1] 114/13 a response [3] 122/4	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3 a subsequent [1] 94/8 a substantial [1] 74/20 a suggested [2] 31/18 32/2
a blood [2] 24/17 50/9 a brief [4] 87/4 89/12 95/19 142/24 a British [1] 53/17 a broader [1] 83/22 a case [3] 16/11 16/21 143/9 a central [1] 90/3 a change [2] 67/3 124/19 a child [1] 88/22 a clear [2] 130/8 132/10 a clear-field [1] 146/16 a clinical [1] 139/5 a comment [1] 119/3 a commercial [1] 129/3 a communicable [1] 13/25 a communication [2]	a discussion [10] 95/11 96/9 100/5 102/9 103/9 106/7 110/6 119/23 125/12 141/3 a disease [1] 51/19 A disturbing [1] 3/18 a document [11] 13/16 13/23 23/23 29/18 31/13 45/13 53/24 66/1 72/3 80/22 98/20 a documentary [2] 4/8 80/7 a donor [1] 65/5 a Dr Tony Pinching [1] 5/2 a Dr Wagstaff [1] 38/15 a European [1] 22/22 a fairly [3] 71/7 86/11 135/20 a faithful [1] 102/6	133/2 a joint [2] 102/3 129/7 a key [5] 14/13 31/13 78/20 121/18 135/14 a known [1] 15/3 a large [1] 57/1 a largely [1] 85/15 a larger [2] 91/19 91/20 a later [3] 69/23 122/24 122/25 a leaflet [3] 39/10 41/4 41/10 a letter [16] 16/5 20/14 23/9 49/4 58/21 72/4 72/7 94/4 97/10 97/11 126/10 130/21 131/18 133/25 135/17 143/20 a light [1] 90/16 a limited [1] 96/24 a link [1] 56/16 a little [8] 3/4 5/1 6/3	a not [1] 133/7 a note [5] 35/18 48/24 68/8 107/13 146/21 a number [24] 5/14 8/18 12/19 18/15 21/2 24/13 28/18 31/22 33/9 37/1 37/10 45/14 53/25 63/20 65/15 75/8 83/10 88/14 96/23 118/19 121/10 132/13 132/24 138/4 a nurse [2] 89/25 90/2 a nursing [1] 89/23 a Panorama [1] 80/8 a paper [6] 16/21 17/3 25/14 63/8 143/22 144/8 a paragraph [1] 114/1 a Parliamentary [1] 57/24 a partial [2] 86/5	a range [1] 133/8 a recommendation [3] 22/17 23/12 79/18 a record [1] 95/3 a reference [16] 7/22 9/4 9/18 11/25 14/7 20/23 22/3 49/24 56/20 74/19 106/22 123/12 130/11 135/4 139/23 145/9 a reflection [3] 55/16 55/17 116/22 a relatively [1] 93/19 a reminder [2] 86/2 121/5 a remote [1] 141/18 a report [5] 21/17 21/24 43/18 56/20 140/3 a request [2] 43/7 128/20 a research [1] 114/13 a response [3] 122/4 124/21 128/24	a special [3] 8/10 21/7 68/22 a specialised [1] 122/13 a specific [1] 111/5 a spleen [1] 122/15 a statement [5] 89/22 89/24 90/2 90/6 90/11 a steady [1] 109/16 a straightforward [1] 40/4 a striking [1] 23/17 a strong [2] 65/1 125/6 a study [1] 137/7 a subcommittee [1] 31/14 a submission [1] 70/3 a subsequent [1] 94/5 a substantial [1] 74/20 a suggested [2] 31/15

(40) 6 June 1983 - a suggestion

Α	109/21 110/7 111/4	Acute [1] 77/18	afternoon [2] 13/17	AL [1] 91/5	America [3] 4/17
	111/15 112/1 115/3	ad [1] 66/2	82/3	all [48] 3/23 5/18 12/2	11/23 48/19
a suggestion [3]	116/13 117/18 118/4	adapted [1] 88/6	again [67] 1/20 6/11	15/16 16/25 28/1	American [16] 4/4 8/6
114/9 131/8 143/11	118/8 119/5 119/14	add [1] 1/16	12/13 13/7 14/13	28/10 28/16 28/23	8/20 10/8 10/21 11/2
a suitable [1] 124/2	119/18 119/23 120/2	added [1] 80/23	15/25 20/4 25/7 29/5	49/18 50/4 58/13 59/2	14/23 15/8 15/13
a suite [1] 88/11	120/5 120/10 123/3		29/17 31/4 34/9 47/2	61/3 63/24 64/8 64/24	20/10 40/25 52/14
a summary [1] 94/21		addiction [1] 144/19			
a surveyor [1] 140/6	123/13 124/4 125/2	addicts [3] 42/11 43/5		70/13 71/14 71/15	57/11 59/5 71/23 74/2
a suspect [1] 10/15	125/12 126/4 127/12	51/23	61/23 61/24 63/1 65/9	71/18 72/14 73/11	Americans [1] 4/20
a suspicion [1] 38/5	127/25 136/6 140/1	addition [1] 111/11	68/15 68/21 69/11	79/13 80/3 80/4 85/19	among [2] 5/20 95/15
a system [2] 48/5	141/1 141/2 141/3	additional [1] 38/4	69/19 69/23 73/5 74/7	85/20 86/12 86/17	amongst [6] 30/5
111/14	141/12 141/13 142/4	address [1] 33/16	74/17 78/13 82/5	86/20 90/8 92/7 92/21	58/25 63/18 94/23
a target [2] 32/3 118/6	142/22 142/22 143/2	addressed [5] 16/8	86/11 89/18 89/23	94/1 97/16 101/22	126/24 145/7
a technician [1] 98/2	144/11 145/12 148/11	49/6 58/22 126/12	95/21 98/22 100/14	102/7 103/12 105/20	amount [16] 57/1
	above [3] 43/2 51/12	136/3	102/1 102/9 105/13	124/13 130/24 136/3	59/11 60/25 73/6
a tension [2] 76/2	147/11	adequate [4] 31/6	105/20 106/19 107/8	136/18 143/7 143/9	91/19 91/20 92/6
121/2	abroad [2] 109/9	59/23 96/23 109/5	107/9 107/20 110/25	144/17 145/2	93/11 95/8 100/19
a test [8] 61/12 63/12	109/13	adjacent [1] 88/5	112/23 113/11 115/18	alleged [2] 146/10	109/7 112/17 125/25
64/7 64/11 69/24	absence [1] 59/21	Adjourned [1] 149/12	117/11 118/18 119/23	147/19	127/21 133/6 133/8
70/13 78/18 79/5	absolute [2] 22/13	adjournment [1]	120/7 123/12 123/24	allergic [2] 104/13	amounts [4] 40/22
a theme [1] 95/21	38/8	81/13	126/2 126/17 128/18	104/14	54/15 91/18 92/22
a third [1] 109/22	Absolutely [1] 2/11	administering [1]	129/10 130/8 130/11	allied [1] 83/18	analysis [1] 98/9
a topic [2] 94/19	abusers [6] 5/20 9/8	136/22	132/6 133/15 133/17	allow [1] 109/9	and II [1] 61/16
122/22	19/19 33/2 44/23 52/1	administration [4]	134/9 139/18 148/17	allows [1] 109/9 allows [1] 19/3	and IV [1] 44/23
a transmissible [2]					
3/8 17/13	accept [1] 77/22	17/22 96/12 96/15	149/9	alluded [1] 140/18	anecdotal [1] 138/11
a treatment [1] 88/6	accepted [3] 17/20	102/16	against [4] 8/8 45/1	almost [4] 39/21 40/6	animal [3] 112/14
a variable [1] 9/23	41/15 103/18	adopted [1] 146/25	112/22 113/1	56/8 58/10	112/20 114/6
a vast [1] 59/11	accepting [1] 27/13	advance [2] 137/22	age [1] 88/21	along [4] 108/19	announced [1] 76/18
a verbatim [1] 55/15	access [1] 88/23	147/22	aged [2] 15/2 56/10	116/5 126/9 137/8	announcement [3]
a very [3] 93/11	accompany [1] 25/14	advancing [1] 27/15	agenda [9] 25/14	alpha [2] 93/3 93/11	61/6 71/13 78/18
103/24 126/2	according [1] 35/9	advantages [3] 67/6	31/15 32/1 32/7 34/17	already [10] 8/9 12/18	annual [9] 90/19
a view [1] 7/11	accordingly [1] 35/5	67/7 130/16	94/20 108/12 108/13	14/17 14/19 15/18	90/25 92/1 92/10
a virtual [1] 64/23	account [4] 21/13	advent [1] 47/15	120/8	30/16 35/11 93/23	103/23 119/2 123/20
	51/25 68/4 127/19	advice [10] 13/16	agent [23] 3/8 9/14	141/8 141/14	127/9 127/12
a virus [3] 9/14 20/21	accurate [1] 19/12	31/9 31/18 58/3 58/12	11/4 11/9 11/21 12/18	also [31] 2/1 5/21 9/1	annum [1] 127/21
55/6	accurately [2] 123/16	67/1 67/2 116/11	17/13 17/14 19/19	9/10 10/9 14/15 15/12	another [8] 26/8 46/9
a week [3] 98/3	127/6	143/6 148/12	19/23 20/3 20/19	15/17 16/2 31/24 36/9	64/14 115/14 117/1
131/25 141/15	achieve [2] 47/10	advise [8] 20/16	22/14 23/16 27/22	43/21 47/16 48/14	133/19 140/25 148/6
a wide [1] 102/12	52/16	34/11 35/4 47/5 48/10	32/13 32/17 44/14	51/21 62/11 67/19	answer [10] 7/1 24/18
a worrying [1] 124/15	achieved [1] 28/6	67/22 121/22 140/19	51/24 56/9 58/6 62/9	71/21 75/25 83/22	40/4 57/13 57/16
a written [1] 85/16	acquire [2] 142/17	advised [2] 7/19	64/9	84/15 90/11 93/5	58/20 75/18 79/1 81/5
a year [3] 18/12 19/4	142/22	83/10	agents [3] 23/16	93/10 99/16 111/23	110/20
95/9	acquired [8] 2/23 6/18		32/15 62/22	119/16 121/8 133/7	answering [1] 41/21
a young [1] 122/14	14/2 14/4 21/21 25/21				• • • •
abbreviated [1] 55/2		advising [3] 83/19	aggressive [1] 39/3	137/14 143/5	answers [2] 12/14
ability [1] 98/17	58/7 66/7	83/23 84/13	ago [3] 6/6 37/9 74/16		130/24
able [9] 88/23 90/10	acquiring [3] 11/15	advisory [10] 69/17	agree [2] 40/16	altered [1] 38/20	anti [2] 5/8 126/19
97/6 100/18 101/15	52/4 144/21	69/18 74/5 79/15	137/22	alternative [3] 15/20	anti-clotting [1] 5/8
103/4 109/4 112/23	acquisition [1] 144/24		agreed [8] 30/7 30/19	27/15 59/22	anti-haemophilic [1]
136/17	across [1] 31/11	84/20 84/25 130/22	54/18 96/2 97/1	although [19] 3/7 9/13	
abnormal [2] 122/14	Act [2] 12/12 31/21	advocate [1] 65/1	120/25 125/6 127/16	14/16 17/21 32/15	antibodies [6] 66/16
123/6	action [11] 7/18 11/24		agreeing [1] 95/4	38/7 41/16 42/25	66/19 77/1 78/19 91/8
about [75] 6/22 7/15	20/9 31/19 31/19	44/8 44/13 143/24	agreement [5] 35/3	47/19 52/15 72/15	91/9
12/25 13/9 21/9 24/5	34/14 49/20 68/14	affected [4] 30/8	70/12 116/10 126/24	75/21 79/24 96/3	antibody [5] 63/17
24/7 24/8 27/11 29/8	69/9 78/12 94/23	30/15 88/20 96/15	129/18	103/24 114/6 132/19	65/13 70/5 94/24
39/23 41/21 41/22	actions [5] 10/18	affecting [1] 2/16	Ah [1] 106/11	136/14 137/20	95/12
	13/18 20/17 83/3 83/6	afraid [2] 48/24 74/18	AHF [1] 101/1	always [2] 46/17	anticipate [1] 148/20
42/19 58/5 60/19	active [2] 15/22 70/25	after [24] 1/20 3/20	AHG [1] 103/22	114/4	antigen [6] 94/24
62/18 65/3 78/9 80/12	activities [1] 107/4	4/7 4/24 6/7 7/20 9/22	AIDS [182]	am [17] 1/2 1/6 13/17	95/11 95/12 98/12
85/23 88/18 91/3 94/7	activity [3] 51/21	9/23 18/13 20/6 53/11	aim [3] 31/17 81/16	23/6 36/4 38/19 43/21	98/16 107/15
94/24 95/11 95/19	102/16 138/2	53/15 53/18 54/18	110/21	46/22 46/24 59/10	antihaemophilic [1]
95/23 98/17 99/17	actual [1] 57/5	56/11 59/16 59/25	aimed [1] 52/22	68/19 85/19 87/3	9/9
99/17 100/5 102/10	actually [3] 42/9	67/18 78/8 81/2 81/22	air [1] 139/11	107/6 114/3 142/2	antiviral [1] 66/19
102/12 103/9 106/7	43/23 117/12	115/5 124/8 141/24	aired [1] 4/7	143/8	anxiety [2] 8/2 58/24
			anaa Fil IVI	1 10/0	
L	L	L	l	L	L

(41) a suggestion... - anxiety

		-			
Α	61/5 67/19 76/15	36/15 44/23	137/1 137/15 137/15	66/18 117/10	141/1 141/16
	78/17 94/8 94/12	aren't [1] 86/21	138/9 139/4 139/9	attention [8] 4/10 21/3	background [5] 6/25
anxious [1] 60/15	129/5 129/9	arguments [2] 41/15	139/9 139/14 139/14	21/6 48/17 49/10	7/10 24/1 65/17 70/15
anxiously [1] 135/6	April 1971 [1] 94/12	64/22	141/5 142/2 142/8	72/19 73/13 81/1	bacterial [1] 142/10
any [51] 1/12 2/2 2/5	April 1983 [2] 1/7 4/7	arithmetic [2] 37/2	142/8 143/3 143/11	August [12] 46/25	Bad [2] 80/7 80/15
2/8 10/11 10/21 12/3	April 1984 [2] 59/10	127/9	147/6	47/3 48/21 49/5 49/15	balance [3] 1/23
12/21 15/15 23/6	60/24	Armour [2] 36/19	ask [4] 13/14 73/14	63/6 63/12 74/10	34/12 67/17
24/24 27/15 30/4	April 1985 [1] 67/19	113/21	94/23 102/20	74/25 84/11 112/10	balanced [3] 8/7
30/13 31/19 35/6 41/8	April 1988 [1] 76/15	Aronstam [1] 132/14	asked [12] 6/20 34/10	113/14	34/14 45/1
47/5 48/10 49/19 50/2	ARCH0000679 [1]	around [3] 23/3 49/5	39/4 41/22 58/2 75/15	August 1978 [1]	ban [4] 11/10 11/13
50/4 55/19 58/18 68/2	58/17	64/19	78/9 97/20 102/23	112/10	46/13 60/6
70/4 78/22 80/19	ARCH0001710 [1]	arrangements [1]	110/18 111/4 120/14	August 1983 [3]	bank [2] 37/24 74/2
80/25 81/20 81/22	43/22	81/23	asking [6] 8/24	48/21 49/15 84/11	Banks [1] 74/3
82/12 83/13 89/18	ARCH0002544 [1]	arrival [1] 83/14	100/17 116/11 119/5	August 1984 [1]	Baroness [1] 41/22
96/9 97/23 112/25	35/17	Arthur [3] 82/19	141/11 142/20	63/12	Baroness Dudley [1]
116/7 116/7 116/19	arching [1] 28/22	134/19 142/2	asks [4] 15/13 15/15	August 24 [1] 113/14	41/22
116/20 117/23 118/14	are [145] 1/5 1/17	article [4] 3/5 87/11	118/11 121/19	auspices [1] 84/22	based [1] 4/3
121/5 122/17 122/17	4/23 5/4 5/14 6/12 7/3	87/12 88/16	asleep [1] 75/5	Australia [5] 94/24	basis [6] 114/17
139/13 140/15 141/11	7/21 10/11 10/13	articles [4] 2/17 2/20	aspects [1] 128/7	95/11 95/12 98/12	116/16 137/23 138/9
142/16 142/18	11/24 12/10 15/11	5/14 6/12	assays [1] 89/7	98/16	138/22 147/18
any length [1] 116/7	15/16 15/21 15/21	articulated [2] 49/16	assemble [1] 115/15	author [1] 25/13	batch [1] 111/5
anyone [2] 43/22	15/23 16/17 18/3 19/1	55/13	Assembly [3] 34/24	authored [5] 25/17	batches [2] 136/14
102/24	19/20 20/2 20/8 24/7	articulation [1] 63/4	35/5 35/13	68/8 71/9 73/19 87/12	136/18
anything [5] 13/5	24/12 24/21 25/3	as [146] 3/7 3/14 5/25	assessed [1] 123/16	authority [8] 12/9	battle [1] 146/7
43/24 48/25 135/2	25/20 25/24 27/1 27/3	6/13 7/5 7/5 8/4 9/7	assessing [1] 138/1	12/24 66/2 68/6 68/12	BBC [3] 2/13 4/7 5/11
142/22	27/10 28/14 32/4	9/10 9/14 9/17 10/2	assessment [2] 32/21	84/7 108/22 138/15	BBC0000003 [1]
anyway [1] 92/14	32/24 34/14 35/2 35/8	10/3 10/3 10/13 10/13	138/6	autumn [3] 80/1	80/14
anywhere [1] 42/9	35/10 35/24 36/1	13/13 15/14 17/7 17/7	assist [1] 98/2	100/16 115/23	be [270]
apart [1] 68/2	36/10 36/14 42/10	18/10 18/10 19/22	assistance [1] 109/4	availability [4] 73/9	bear [1] 126/5
apparently [2] 20/1	42/20 45/2 45/4 47/9	19/22 20/11 21/1	assisted [1] 29/9	95/20 99/23 109/10	bears [1] 23/17
24/12	47/25 48/2 49/18 51/9	21/14 22/16 23/5	associated [4] 17/22	available [29] 3/15	beating [1] 75/3
appear [6] 19/18 41/7	52/25 53/2 53/5 55/3	25/25 28/8 30/3 30/19	77/20 107/15 122/12	22/15 35/8 44/7 44/20	became [3] 75/16
43/1 44/19 68/12 78/7	58/11 60/15 61/11	31/10 32/3 34/4 34/4	association [4] 49/7	58/13 60/11 66/5	75/20 88/4
appearances [1]	61/14 61/16 61/23	36/19 36/19 38/7 39/1	50/17 74/2 144/18	66/20 67/3 73/8 79/5	because [36] 11/3
122/3	62/19 62/21 63/14	41/16 46/1 46/6 46/17	assume [1] 55/10	80/3 85/19 86/12	17/25 19/19 21/11
appeared [5] 6/22	64/1 64/9 66/9 66/12	47/13 47/15 47/21	assumed [1] 101/9	89/19 89/20 100/8	25/3 25/23 30/10 32/6
26/21 27/7 55/11	67/2 67/8 68/7 69/2	47/24 48/8 49/5 49/15	assurance [1] 59/6	101/11 102/22 103/1	47/15 48/17 54/5
141/18	69/5 69/20 70/25 71/4	49/21 51/22 52/23	assurances [1] 53/2	114/8 114/18 122/18	54/11 54/14 55/9 60/6
appears [14] 7/14	72/9 73/11 75/3 76/11	52/23 54/25 55/3	assured [2] 15/17	135/5 138/8 139/4	64/2 66/11 76/22
15/3 24/20 32/17	76/23 77/7 80/3 81/17	55/21 57/18 58/15	71/2	139/11 144/10	80/10 81/17 83/9 86/4
44/21 51/20 67/5 93/1	81/24 85/15 86/22	59/3 59/12 61/15	asymptomatic [1]	avoid [2] 28/2 28/24	86/20 101/2 101/3
96/17 101/12 115/3	88/15 88/15 88/18	61/19 67/2 68/25 69/5	111/10	avoiding [2] 3/16 33/6	
131/7 134/12 140/11	88/19 88/24 90/8	70/10 70/10 71/21	at-risk [1] 138/5	aware [13] 14/19	116/20 117/23 123/16
apply [1] 60/8	93/20 94/12 95/4 95/7	72/14 75/3 75/24	Atlanta [2] 29/14	20/25 30/4 47/12	124/19 130/25 135/15
appointed [1] 88/7	97/17 97/24 98/15	77/16 77/23 80/13	144/14	65/11 75/17 75/20	144/6 148/11
appreciate [2] 42/1	100/21 101/6 107/19	80/17 80/18 80/19	attach [1] 6/24	103/15 109/19 112/25	become [5] 3/20
58/24	107/24 107/25 109/4	80/23 81/17 83/4	attached [4] 17/3	124/14 136/5 142/2	20/25 24/15 103/7
appreciated [3] 67/7	110/1 111/2 112/8	83/25 84/17 86/10	25/15 108/1 113/15	awareness [1] 2/15	139/4
118/5 135/3	113/15 113/16 115/13	86/20 87/3 88/6 88/22	attaching [1] 50/18	away [1] 16/11	becoming [5] 3/1
appreciation [1]	116/25 118/22 121/15	88/22 90/9 91/12	attack [1] 140/12		65/19 78/4 103/18
77/11	121/23 122/12 122/13	91/23 92/5 93/22 94/7	attempt [3] 3/11 36/24	В	109/19
approach [7] 13/12	122/25 127/8 132/18	95/21 96/5 97/5	136/8	babies [1] 10/10	Beecham [1] 124/22
38/23 39/4 104/5	132/24 135/6 135/11	100/16 103/23 105/5		baby [6] 3/22 6/6 6/10	been [99] 4/2 7/16 8/5
115/1 146/23 146/25	136/5 136/6 137/1	105/7 105/20 107/10	attendance [2] 102/5	20/4 38/11 50/9	8/20 9/10 10/10 10/20
approaches [1] 33/6	137/3 137/7 137/25	107/11 107/21 108/9	115/19	back [26] 18/23 21/10	
appropriate [8] 31/7	138/4 138/8 138/14	110/4 110/9 110/14	attended [2] 99/14	26/7 29/18 38/11 42/7	14/4 15/7 15/7 15/12
41/10 54/24 73/22	138/25 139/3 142/2	110/21 113/5 113/24	121/11	46/17 46/21 57/8	17/3 18/4 18/7 18/13
117/2 121/21 139/9	144/15 144/18 144/20	114/10 114/10 115/21	attendee [1] 102/6	57/18 79/24 81/20	19/1 19/4 21/1 22/2
143/12	146/14 147/15 148/2	116/16 117/2 119/10	attendees [5] 26/13	85/14 85/22 86/15	22/8 23/18 24/5 24/10
approval [1] 77/1	149/7 149/8	121/17 123/22 129/18	94/14 108/15 113/16	89/1 106/9 122/9	25/9 28/6 29/25 31/22
April [14] 1/7 2/21 4/7	area [1] 114/16	130/9 131/21 132/15	145/22	122/11 134/22 135/21	32/15 38/20 39/11
16/16 59/10 60/24	areas [4] 33/2 36/13	135/11 136/10 136/10	attending [3] 28/7	139/19 139/22 141/1	39/17 41/18 47/12
					(42) anxious hear

(42) anxious - been

l n	D	400/0 400/44 400/40	D-14-1-1441 4/40 44/7	00/44 00/40 00/5	E0/04 E0/40 E7/40
В	Berry [1] 142/1	132/8 132/14 132/16	British [11] 4/18 11/7	22/14 22/19 23/5	50/24 53/19 57/18
been [63] 48/12	best [4] 102/11 138/1	133/12 133/25 134/11	11/8 53/17 56/7 56/13	23/16 23/19 24/2	57/21 57/24 58/17
48/15 51/1 56/12	139/15 147/13	135/12 139/16 139/25	72/14 84/16 84/18	24/16 24/20 25/17	58/24 61/8 64/7 64/8
57/11 58/3 58/12 59/4	better [4] 64/21 75/6	141/4 141/11 141/23	99/24 100/11	25/22 26/20 26/23	68/8 70/7 70/18 74/1
60/5 62/14 63/20	124/23 125/22	142/20 142/24 144/3	British-made [1] 11/7	27/7 27/9 27/11 27/21	78/9 81/20 85/6 90/22
65/14 69/21 71/1	between [18] 10/24	145/14 145/15 145/23	Brits [1] 75/5	27/22 29/10 30/3	90/25 91/11 91/21
75/23 77/14 77/20	11/4 18/9 21/18 23/4	148/12 148/19	broadcast [1] 2/13	30/11 31/10 35/12	91/25 92/4 92/8 92/21
79/4 79/10 80/17	27/13 50/3 56/16 76/2	Bloom's [15] 13/16	broader [1] 83/22	35/21 36/16 38/1 39/5	93/8 94/8 94/14 94/16
80/20 84/21 85/4	81/24 83/5 84/1 84/10	13/18 17/19 85/25	build [1] 12/25	39/19 40/5 41/18 44/1	95/2 95/10 98/1 98/3
85/16 87/14 89/4	84/11 84/13 84/17	90/17 93/22 103/3	bulk [1] 92/4	44/3 44/16 45/2 48/12	99/14 99/16 100/16
89/10 91/15 97/6 99/9	90/5 112/4	104/5 110/20 113/12	Bulletin [1] 87/9	48/16 48/20 51/20	102/2 102/6 103/3
104/8 104/9 104/13	beyond [1] 83/8	115/1 116/23 119/14	business [1] 114/4	51/21 51/23 57/11	105/13 108/11 108/15
107/11 108/20 108/23	bigger [2] 117/10	121/16 122/7	but [130] 1/14 3/24	57/19 58/8 59/5 59/18	108/25 112/5 115/20
109/16 112/23 113/18	124/9	BNOR0000323 [1]	4/4 9/7 10/4 10/19	60/16 60/17 61/1 61/6	117/13 119/1 120/12
117/20 118/8 120/4	Biggs [3] 94/5 94/21	75/13	11/23 13/19 15/21	62/3 62/7 63/10 65/12	121/17 122/2 122/8
120/23 121/6 122/20	108/7	Board [2] 35/3 35/13	16/1 19/2 19/9 19/11	65/13 68/8 68/10	124/11 129/6 129/10
123/4 123/16 128/16	Biggs' [1] 99/20	bodies [1] 83/10	21/14 22/15 23/13	69/18 70/11 70/18	132/2 134/22 135/2
129/13 133/5 135/24	biochemistry [2]	body [1] 32/19	27/12 28/21 28/24	70/19 71/9 72/17	140/1 140/5 140/24
136/8 136/10 136/13	112/19 114/12	borstals [2] 47/7	29/21 30/3 30/22	73/15 73/16 73/19	141/22 145/22 146/18
136/15 136/23 137/1	biopsies [2] 122/1	48/22	31/24 34/6 40/3 42/2	75/25 77/12 79/4 79/8	can't [9] 67/12 74/18
138/24 140/20 141/19	132/7	both [14] 7/1 12/3	43/7 43/22 44/12	80/10 81/9 85/12	90/15 96/9 100/14
144/16 144/21 145/1	biopsy [3] 122/3	59/12 92/24 93/9	44/19 45/16 48/12	85/24 86/9 86/24	107/25 116/19 117/22
before [14] 18/3 19/1	122/16 131/22	93/13 104/23 104/25	48/21 49/1 50/8 50/21	87/12 88/10 90/19	144/2
19/25 28/16 34/18	birth [1] 6/7	105/1 108/7 109/17	51/21 52/8 54/21 55/3	96/13 98/10 99/14	Canada [4] 36/3 36/4
43/17 46/9 57/25	bit [4] 3/4 120/11	128/10 130/8 139/19	55/19 56/21 57/21	100/2 100/6 101/8	36/7 50/10
59/14 65/20 71/18	134/24 135/1	bottom [15] 5/18	58/17 61/3 61/8 63/20	103/3 104/20 107/23	cancer [4] 25/4 37/5
104/25 112/2 113/8	bizarre [1] 146/6	17/17 26/18 27/3	65/16 66/19 66/24	108/2 109/6 109/7	61/11 63/11
began [2] 6/7 69/13	Blackburn [1] 115/22	42/15 56/5 95/20	67/5 68/20 69/3 73/2	109/8 111/22 114/25	cannot [11] 3/8 25/2
beginning [1] 50/8	blank [1] 29/21	98/11 106/13 110/17	73/14 74/19 75/5	117/21 118/9 121/11	30/3 32/14 32/24
begun [1] 104/22	bleeding [7] 6/1 11/15	118/9 120/1 120/3	75/12 76/9 77/14	121/13 123/1 123/12	33/18 67/8 67/23 71/2
behalf [2] 54/24	37/4 48/20 83/2 90/5	124/11 140/2	77/21 78/16 79/7 80/3	123/21 124/10 124/22	128/6 132/5
128/25	131/24	bound [1] 55/17	80/9 81/2 81/17 81/21	125/13 126/19 127/4	capable [1] 13/3
being [51] 4/12 8/14	bleeds [2] 99/2	boy [2] 6/6 72/8	81/25 82/4 82/11 84/2	128/1 128/9 131/13	capacity [1] 83/4
9/10 13/11 13/12	110/10	BPL [10] 25/20 26/1	85/19 86/14 87/13	131/13 132/16 134/9	carcinoma [1] 78/7
15/21 18/18 18/18	blood [196]	52/15 59/20 118/11	88/3 88/15 89/18 90/4	134/13 136/15 136/19	
19/9 19/18 19/24	Bloom [103] 1/10 1/13	124/22 128/21 129/4	90/15 90/21 92/14	136/22 137/10 138/3	1/18 4/23 10/15 10/20
20/17 22/21 35/12	1/22 10/18 10/25	145/18 146/22	92/15 92/22 92/25	139/24 140/21 142/5	10/25 13/25 14/3 14/6
20/17 22/21 35/12	1/22 10/18 10/25 13/13 21/11 26/14	145/18 146/22 BPLL0001351 [1]	92/15 92/22 92/25 93/10 93/21 94/4 94/6	139/24 140/21 142/5 143/22 146/17 146/21	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20
38/7 38/12 40/7 41/11	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16	145/18 146/22 BPLL0001351 [1] 142/25	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3
38/7 38/12 40/7 41/11 48/21 53/13 56/11	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1]	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15	139/24 140/21 142/5 143/22 146/17 146/21	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 <b>bypasses [1]</b> 138/23	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1]	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 <b>care [3]</b> 83/9 85/25 93/24
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4	145/18 146/22 <b>BPLL0001351 [1]</b> 142/25 <b>BPLL0011138 [1]</b> 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefed [1] 75/6	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefde [1] 75/6 briefing [4] 6/21 7/10	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3	145/18 146/22 <b>BPLL0001351 [1]</b> 142/25 <b>BPLL0011138 [1]</b> 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefde [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10	145/18 146/22 <b>BPLL0001351 [1]</b> 142/25 <b>BPLL0011138 [1]</b> 145/18 <b>brands [1]</b> 119/9 <b>break [10]</b> 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 <b>breakthrough [1]</b> 76/21 <b>brief [6]</b> 32/3 87/4 89/12 95/19 101/19 142/24 <b>briefd [1]</b> 75/6 <b>briefing [4]</b> 6/21 7/10 8/25 64/15 <b>briefly [3]</b> 40/8 63/5	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 California [1] 14/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16 2/24 4/3 4/17 5/8 5/25	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9 beneficial [1] 96/16	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19 122/9 122/20 123/1	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20 bring [1] 134/6	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16 2/24 4/3 4/17 5/8 5/25 7/8 7/11 7/16 8/11	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7 25/17 26/13 26/25	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11 67/5 67/21 106/3
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19 122/9 122/20 123/1 123/12 124/10 124/13	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20 bring [2] 80/1 135/14	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 buying [2] 103/21 103/25 buys [1] 113/25 by [149] 2/10 2/16 2/24 4/3 4/17 5/8 5/25 7/8 7/11 7/16 8/11 9/12 10/3 10/3 13/11	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7 25/17 26/13 26/25 27/1 28/19 31/22	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11 67/5 67/21 106/3 106/9 120/11 138/12
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9 beneficial [1] 96/16 benefit [4] 1/4 34/13 39/3 67/24	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19 122/9 122/20 123/1 123/12 124/10 124/13 125/4 125/21 126/3	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20 bring [2] 80/1 135/14 Bristol [4] 56/19	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16 2/24 4/3 4/17 5/8 5/25 7/8 7/11 7/16 8/11 9/12 10/3 10/3 13/11 13/12 15/22 17/2	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7 25/17 26/13 26/25 27/1 28/19 31/22 35/22 35/23 39/19	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11 67/5 67/21 106/3 106/9 120/11 138/12 carrying [1] 51/24
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9 beneficial [1] 96/16 benefit [4] 1/4 34/13	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19 122/9 122/20 123/1 123/12 124/10 124/13 125/4 125/21 126/3 126/9 128/21 129/10	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20 bring [1] 134/6 brings [2] 80/1 135/14 Bristol [4] 56/19 56/24 57/1 74/24	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16 2/24 4/3 4/17 5/8 5/25 7/8 7/11 7/16 8/11 9/12 10/3 10/3 13/11 13/12 15/22 17/2 17/14 20/17 20/21	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7 25/17 26/13 26/25 27/1 28/19 31/22 35/22 35/23 39/19 40/4 40/10 42/7 42/16	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11 67/5 67/21 106/3 106/9 120/11 138/12 carrying [1] 51/24 case [36] 2/25 4/6 6/9
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9 beneficial [1] 96/16 benefit [4] 1/4 34/13 39/3 67/24 benefits [3] 30/22	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19 122/9 122/20 123/1 123/12 124/10 124/13 125/4 125/21 126/3	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20 bring [2] 80/1 135/14 Bristol [4] 56/19	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16 2/24 4/3 4/17 5/8 5/25 7/8 7/11 7/16 8/11 9/12 10/3 10/3 13/11 13/12 15/22 17/2	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7 25/17 26/13 26/25 27/1 28/19 31/22 35/22 35/23 39/19	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11 67/5 67/21 106/3 106/9 120/11 138/12 carrying [1] 51/24
38/7 38/12 40/7 41/11 48/21 53/13 56/11 59/25 65/12 74/19 77/1 91/23 95/7 100/22 101/15 105/25 108/1 108/1 111/4 111/7 111/16 111/25 112/18 117/2 117/17 120/8 128/2 132/16 133/7 133/9 134/15 135/4 135/15 136/21 137/8 144/23 146/25 beings [1] 136/19 Belgium [1] 22/7 believe [4] 66/20 67/17 109/3 134/23 believed [1] 66/9 Bell [1] 26/15 belonged [1] 83/9 beneficial [1] 96/16 benefit [4] 1/4 34/13 39/3 67/24 benefits [3] 30/22	1/22 10/18 10/25 13/13 21/11 26/14 29/19 31/24 33/16 34/10 44/4 54/9 81/3 82/2 82/6 82/19 85/24 86/9 87/13 88/19 91/5 92/16 94/15 96/10 97/25 99/14 100/15 100/22 101/20 102/5 103/10 104/20 105/4 105/13 107/9 108/2 108/3 108/15 109/3 110/7 110/8 111/3 111/22 112/4 112/11 112/16 112/21 113/10 113/14 113/24 114/4 114/5 114/11 114/20 115/19 116/1 116/3 117/11 118/2 118/10 118/25 119/4 119/15 120/18 121/4 121/19 122/9 122/20 123/1 123/12 124/10 124/13 125/4 125/21 126/3 126/9 128/21 129/10	145/18 146/22 BPLL0001351 [1] 142/25 BPLL0011138 [1] 145/18 brands [1] 119/9 break [10] 43/18 46/12 46/23 81/16 112/2 113/8 115/6 115/7 115/9 115/11 breakthrough [1] 76/21 brief [6] 32/3 87/4 89/12 95/19 101/19 142/24 briefd [1] 75/6 briefing [4] 6/21 7/10 8/25 64/15 briefly [3] 40/8 63/5 106/17 brighter [1] 62/20 bring [1] 134/6 brings [2] 80/1 135/14 Bristol [4] 56/19 56/24 57/1 74/24	92/15 92/22 92/25 93/10 93/21 94/4 94/6 96/10 98/4 99/7 99/20 100/16 101/2 101/15 101/23 105/1 105/8 110/11 113/24 114/5 114/16 118/16 118/20 119/4 121/12 122/25 125/24 129/1 130/13 131/1 132/7 132/24 132/25 133/5 133/7 133/14 134/14 135/25 137/7 138/23 139/13 141/16 142/16 143/7 143/12 144/6 148/21 148/21 <b>buying [2]</b> 103/21 103/25 <b>buys [1]</b> 113/25 <b>by [149]</b> 2/10 2/16 2/24 4/3 4/17 5/8 5/25 7/8 7/11 7/16 8/11 9/12 10/3 10/3 13/11 13/12 15/22 17/2 17/14 20/17 20/21	139/24 140/21 142/5 143/22 146/17 146/21 146/25 147/16 148/12 bypasses [1] 138/23 C CA [1] 15/18 calculating [1] 119/8 California [1] 44/24 call [2] 39/1 95/1 call-up [1] 39/1 called [8] 2/13 2/22 37/17 47/23 51/6 69/17 74/12 80/7 calling [1] 109/1 calls [1] 68/13 campaign [1] 70/22 can [93] 2/22 5/6 6/17 8/2 9/3 10/13 17/9 20/21 21/20 24/10 24/19 24/20 25/7 25/17 26/13 26/25 27/1 28/19 31/22 35/22 35/23 39/19 40/4 40/10 42/7 42/16	10/25 13/25 14/3 14/6 15/2 16/1 16/12 17/20 30/1 36/18 56/23 81/3 82/2 82/20 82/25 85/25 87/5 87/11 87/16 87/19 89/3 90/12 91/5 92/15 94/10 95/4 97/8 97/16 98/17 103/24 112/18 119/19 131/5 135/9 148/19 care [3] 83/9 85/25 93/24 caring [1] 77/21 carried [3] 63/24 131/22 137/8 carrier [1] 91/23 carriers [4] 91/22 92/11 92/17 130/3 carries [1] 22/2 carry [8] 2/3 51/11 67/5 67/21 106/3 106/9 120/11 138/12 carrying [1] 51/24 case [36] 2/25 4/6 6/9

(43) been ... - case

41/16 30/25 3/13       68/23 69/7 69/14 72/6       characteristics [2]       clinician [2] 63/2       124/16       148/21         64/20 70/16 94/7       73/16 74/25 82/3 82/8       137/17 137/18       148/23       commerting [1] 63/2       124/16       148/21         125/20 142/3 144/17       73/16 74/25 82/3 82/8       137/17 137/18       cheapts [1] 116/24       148/23       commercial [55] 38/5       completes [1] 81/2         Cash [1] 74/24       84/18 44/4 84/21 86/1       66/24 83/7 98/10       53/4 54/5 54/10 54/12       completes [1] 81/2         caught [2] 56/8 56/11       90/12 90/16 90/19       140/21       121/23       55/11 67/4 67/4 67/9       77/23 78/3         causative [3] 20/19       90/12 90/16 90/19       140/21       121/23       55/11 67/4 67/4 67/9       77/23 78/3         68/5 72/18       90/12 90/16 90/19       140/21       chief [3] 57/50/16       Clive Jenkins [1] 49/7       97/23 180/4 100/12       completes [1] 55/         cause [17] 9/13 14/10       100/17 105/12 106/20       child [2] 16/22 88/22       closel [1] 80/2       100/18 103/22 104/1       compressing [1]         22/12 32/16 32/12       109/11 108/11 108/8       child ren [3] 30/14       145/15       114/21 115/21 15/2/5       compressing [1] 51/6         22/18 41/12 56/15 56/1       109/21 109/3 109/11       child ren [3] 30/14						
case.         [1]         1020         1220         104/19         1388/138/17         clase [1]         24/14         24/14         272/14         273/14 <td>С</td> <td>15/16 15/17</td> <td>57/3 57/3 71/16</td> <td>classic [1] 96/20</td> <td>column [5] 5/18 5/23</td> <td>communications [4]</td>	С	15/16 15/17	57/3 57/3 71/16	classic [1] 96/20	column [5] 5/18 5/23	communications [4]
cales 1, 10, 12, 10, 12, 10, 12, 10, 12, 10, 14, 14, 10, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14			104/19 138/3 138/17			
1611 6111 6123       207 813.53.07.9       chair (4) 2.01.70.9       chair (4) 2.01.70.9       come (25) (1.01.2)       come (21) (1.0	case [29] 10/20 12/3					
16/21 17/11 20/4         10/2 16/21 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21         10/2 16/22 16/21<						
2025 0.02 0.04 0/13         0/14 60/15 / 10/22         charding [2] 1/2/10         59/27 1/00 1/15/22         1/10/27 1/10/37 1/10/37         1/10/27 1/10/37 1/10/37           0/09 0/78 0/89 0/65         Center [1] 72/11         2/11 2/12 1/00         2/11 2/22 1/02         1/10/27 1/07/37         compary [1] 2/0/13		37/6 51/3 52/18 66/13	83/25 118/25	66/12 68/13 74/19	come [26] 10/17	companies [8] 110/1
2/2/2 0/2 0/4 3/15       107/20 11/1/3 11/16       1/10/2 14/0/14       138/2         9/73 8/89 6/16       Center (1) 7/141       1/14/1 <td></td> <td></td> <td>chaired [2] 124/10</td> <td>99/21 103/1 105/5</td> <td></td> <td></td>			chaired [2] 124/10	99/21 103/1 105/5		
abs/sec         abs/sec <t< td=""><td>  29/25 30/2 30/4 30/13</td><td></td><td></td><td></td><td></td><td></td></t<>	29/25 30/2 30/4 30/13					
44/21 463 509 58/15         Tenter [1]         Center [1]         2012         Titta's Titta's Titta's Tita's Table 24/17 26/ 24/18         Titta's Titta's Tita's Table 24/17 26/ 24/18         Titta's Titta's Titta's Table 24/17 26/ 24/18         Titta's Titta's Titta's Titta's Table 24/17 26/ 24/18         Titta's Titta's Titta's Titta's Titta's Table 24/17 26/ 24/18         Titta's Tit	36/9 37/8 38/9 38/11			1		
68/26 66/14 71/19         Center [1] 72/11         Z/A F113/2         Z/A F113/2 <thz 2<="" a="" f113="" th=""> <thz 2<="" a="" f13="" th="">         &lt;</thz></thz>		146/1	chairman [3] 26/20	111/23 111/24 118/15	24/17 26/7 29/18	139/7
93/23 59/14 / 1/9         Conterts [3] 61/13         chaimmen [1] 71/14         132/01 134/14 136/21         106 81/16 81/20 80/14         compared [2] 11/05           133/7 1439 14499         Contral [4] 128 124         140/14         146/16         106/81 00/14 144/17         compared [2] 11/05           131/1 10/14 12/19         S4/6 90/05         chaimmen [1] 71/14         139/11 93/22 141/1         139/11 93/22 141/1         compared [2] 11/05         11/01         compared [2] 11/05         compared [2		Center [1] 72/11	27/6 115/21	126/2 130/8 130/24	38/10 46/17 78/15	company [3] 20/13
//12/2 (20) G3/1       Gord and PL 2012 C3/1       Gord and 2012 C3/1 <td>56/25 65/14 71/19</td> <td></td> <td></td> <td></td> <td></td> <td></td>	56/25 65/14 71/19					
1357         1367         1377         1378         1367         1377         1378         1367         1377         1378         1367         1377         1378         1367         1377         1378         1377         1378         1377         1378         1377         1378         1377         13778         1377         13778         1377         <	71/23 72/10 73/1					
cases [41] 716 3/2         certral [4] 126 12/2         run 3         run 3 <thru 3<="" th="">         run 3         <thru 3<="" th=""> <t< td=""><td></td><td></td><td>chance [2] 39/22</td><td></td><td></td><td>compared [2] 110/5</td></t<></thru></thru>			chance [2] 39/22			compared [2] 110/5
cease         [1]         1011 <th< td=""><td></td><td>central [4] 12/8 12/24</td><td>140/14</td><td>clear-cut [1] 136/21</td><td>122/11 135/8 135/21</td><td>110/15</td></th<>		central [4] 12/8 12/24	140/14	clear-cut [1] 136/21	122/11 135/8 135/21	110/15
11.11         11.11 <td< td=""><td></td><td></td><td>change [5] 35/6 67/3</td><td></td><td></td><td></td></td<>			change [5] 35/6 67/3			
Birls (a): 16/16         Centralised [1]         Birls (2): 16/16         Commercial [2]         Co	10/11 10/14 12/19					
16/20         17/19         17/21         centrally [11]         12/21			68/5 124/19 124/19	55/20 64/25 83/8		competing [1] 78/20
11/12/11/12/11/2012         entre [95]         1/11/12/2012         52/21/93/16         1/13/21/2012         competitive [1]         competitive [1]         competitive [1]           12/11/21/21/21/21/21/21/21/21/21/21/21/2		centrally [1] 128/10	changed [3] 32/5	107/23 133/12 134/14	122/9	competition [1] 146/9
18/1         18/2         12/2 <td< td=""><td></td><td></td><td></td><td>1</td><td>coming [5] 5/5 19/14</td><td></td></td<>				1	coming [5] 5/5 19/14	
18/18 19/23 19/12 22/2 24/24         13/13 21/8 21/12 22/2 24/24         13/13 21/8 21/12 22/2 24/24         changing [2]         101/6 22/2 24/24         changing [2]         101/6 22/2 24/24         commant [3]         4/10         18/16         complete [6]         72/2 24/24         complete [6]         72/2         13/10	18/1 18/7 18/12 18/17					
2)26 2424 2975 362         13/12 21/12 22/12 22/12         charaging [2] 10/16         charaging [2] 10/16         comment [3] 4/10         co	18/18 18/23 19/12					
226 242 291 3367 366 36/10 36/14         29/22 29/23 38/16         127/6         122/21 135/5 138/3         comment [1] 139/3 139/6           36/2 368 38/4 38/17         56/2 16/18 68/10         131/20         131/20         131/20         131/21 39/3 139/6         comment [6] 7/21         52/8 68/10         56/2 68/6 90/1         146/21 124/15         148/16 119/3         comment [6] 7/21         52/8 68/10         146/21 124/15         52/8 68/10         148/16 119/3         comment [6] 7/21         52/8 68/10         148/12         148/21         148/12         148/12         148/12         148/12         148/12         148/12         148/12         15/8 57/2         55/11 6/14 6/14         17/2 58/13         15/11 6/14 6/14         15/1 58/2         55/11 6/14 6/14         17/2 78/8         18/8 9/14         11/14/21         15/11 6/14 6/14         17/2 78/8         18/8 9/14         11/14/21         15/11 6/14 6/14         17/2 78/8         18/8 9/14         11/14/21         15/11 6/14 6/14         17/2 78/8         18/8 9/14         11/14/21         11/12 11/14         11/12 11/14         11/14/21         11/12 11/14/14         11/14 11/14/21         11/12 11/14         11/1		13/13 21/8 21/12	changing [2] 101/6	88/10 114/9 117/2	command [1] 146/18	complacency [1]
30/ 30/ 30/ 30/ 30/ 30/ 30/ 30/ 30/ 30/				1		
30/2 30/2 30/3 30/3 30/1 30/11         65/21 66/18 68/10         131/20         147/14 4/47/19         commented [1]         32/6 82/7 68/6 90/1           64/20 70/16 94/7         73/6 74/25 82/3 82/8         137/17 137/18         characteristics [2]         148/21         commented [1]         32/6 82/7 68/6 90/1           125/20 14/22 1447         73/6 74/25 82/3 82/8         137/17 137/18         characteristics [2]         148/21         commented [1]         128/21           Cash [1] 74/24         84/1 84/4 94/21 66/1         64/1 84/4 94/21 66/1         charapt [1] 16/24         clinician [1] 4/7         commented [1]         128/21           Cash [1] 74/24         84/1 84/94/21 66/1         64/1 84/4 94/21 66/1         64/1 94/4 94/21 66/1         65/24 837 98/10         53/4 54/5 24/10 54/12         completed [2] 7/7         77/7 78/8           Cause [1] 13/04 /18 02/25 10/29         99/12 90/16 90/19         140/21         121/23         65/24 837 98/10         50/23         completed [1] 80/2         completed [1] 80/2         completed [1] 80/2         completed [1] 80/2         completed [2] 80/2         completed [3] 80/3         s/1/3         s/1/3         s/1/3         s/1/3         s/1/3         s/1/3         s/1/3         s/1/3	36/7 36/8 36/10 36/14					
41/18 50/25 51/13 64/20 7016 94/21 6016 6010       131/20       141/14 14/19       commerce[1]       22/16 82/10 806 901/1         64/20 7016 94/21 64/15       69/75 91/4 72/5       131/21       141/24 14/19       commerce[1]       124/16         64/20 7016 94/16       69/25 907 91/4 72/5       137/17 137/18       144/24       144/23       commerce[1]       124/16       commerce[1]       124/16         64/20 7016 94/16       64/15 64/10 54/12       53/15 64/16 54/12       53/15 64/16 54/12       53/15 64/16 54/12       53/15 64/16 54/12       53/15 64/16 54/12       53/15 64/16 54/12       completing [1]       01/15 64/22       completing [1]       01/2       completing [1]       01/15 64/22       completing [1]       01/15 64/12       completing [1]       01/15 64/	36/20 38/3 38/4 39/17					
41/16 30/23 61/13       68/23 60/7 69/14 72/6       characteristics [2]       clinicians [1] 63/2       124/14         125/20 14/23 144/17       76/6 74/25 8/2 8/2/8       37/17 137/18       clinicians [1] 63/2       commenting [1] 63/8       completed [2] 13/2         Cash [1] 74/24       84/8 8/12 8/17 8/25 8/9       87/12 8/17 8/25 8/9       37/12 8/17 8/17 8/17 8/9       completed [2] 13/2       comple		65/21 66/18 68/10	131/20	147/14 147/19	commented [1]	82/6 82/10 86/6 90/18
bal20         173/16         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17         173/16         173/17 </td <td></td> <td></td> <td>characteristics [2]</td> <td>clinician [2] 63/2</td> <td></td> <td></td>			characteristics [2]	clinician [2] 63/2		
1/15/20         1/2/21	64/20 70/16 94/7					
144/24 445/6         60/20 2/23 63/2 63/5         Cheaps (1) 110/24         Clinicians (1) 4/3/5         Commercial (5) 1/3         Commercial	125/20 142/3 144/17					
Cash [1] 74/2         S4/1 64/4 64/2 180/1         Check [6] 77/128/19         S4/2 83/7 89/10         Commercial [53] 36/3         Complication [2]           43/1 130/4         89/7 89/25 90/7         90/12 90/16 90/19         49/1 57/23 60/21         98/15 105/2 117/9         53/4 54/5 54/10 54/12         complication [2]           causel [5] 139/2         90/12 90/16 90/19         49/1 57/23 60/21         121/23         56/11 67/4 67/4 67/4         complication [2]           causel [5] 139/2         90/12 90/16 90/19         49/1 57/23 60/21         121/23         56/11 67/4 67/4 67/4         complication [2]           38/10 41/9 62/22         97/13 98/18 99/13         50/23         check [6] 157 50/16         Clive [1] 49/7         90/12 91/3 10/11         check [1] 61/2         cose [1] 80/2         cose		82/20 82/25 83/2 83/5	cheapest [1] 116/24	clinicians [11] 4/3	commerce [1] 128/15	102/23
Case [1]         Part Part Part Part Part Part Part Part		84/1 84/4 84/21 86/1	cheaply [1] 114/22	29/7 29/10 31/10	commercial [55] 38/5	completes [1] 81/2
Categories [J] 34/13]         89/17 89/25 90/7         49/15 7/23 60/21         98/15 105/2 117/9         54/15 64/22 55/4         complication [2]           causel [J] 39/713         90/12 90/16 90/19         140/21         121/23         55/11 67/4 67/4 67/4 67/4         77/23 78/3           causel [J] 39/713         93/22 94/6 94/13         33/20 41/9 92/14         140/21         Clive [I] 49/7         97/13 30/14         100/12           causel [J] 39/73         98/17 95/23 96/2         97/13 98/18 99/13         chiet [I] 142/19         Clive [I] 49/7         97/13 30/14         100/17 105/12 106/20         chiet [I] 16/22 88/22         close [I] 80/2         100/18 103/22 10/14         compressed [I] 5/16         compressed [I] 5/17         compressed [I] 5/16         compressed [I] 5/16         compressed [I] 5/16         compressed [I] 5/16         compressed [I] 5/17         compressed [						
4.3/1 130/4       Soft 6 39/1 90/1 90/1 90/1 90/1 90/1 90/1 90/1 9	categories [3] 34/13					
caught [2] 568 56/11         90/12 90/19 90/19 92/14         121/23         121/23         60/19 30/11         67/25 68/19 30/11         67/25 68/19 30/11         67/25 68/19 30/11         67/25 68/19 30/11         67/25 68/19 30/11         67/25 68/19 30/11         131/24           38/10 41/9 62/22         94/19 95/3 95/22         97/3 98/18 99/13         child [2] 16/22 88/22         109/11 10/16 113/21         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         109/12 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         100/11 10/12 10/25         10/11 10/12 10/12 10/25         10/11 10/12 10/12 10/12 10/12 10/12         10/11 10/12 10/12 10/12 10/12         10/11 10/12 10/12 10/12 10/12         10/11 10/12		89/17 89/25 90/7		1	54/15 54/22 55/4	
Caugin [2]         Solid Sol		90/12 90/16 90/19	140/21	121/23	55/11 67/4 67/4 67/9	77/23 78/3
Catusar [1]       39/10       4/16       4/13       5/16       Cilve Jenkins [1]       4/19       9/23       10/41       compressed [1]       5/17         Salv 0       4/19       9/19       9/39       5/22       5/23       10/17		91/2 91/5 92/14 92/14	chest [1] 142/19			
38/10         41/16         52/2         53/2         <	causal [5] 13/9 27/13					
causative [3] 20/19         94/19 93/39/22         clobed [2] 76/19 7/94         clobed [						
56/5 72:18       57/15 30/12 106/20       cmild [2] 60/22 60/22       closely [2] 48/14       110/15 113/3 113/20       closely [2] 48/14       110/15 113/3 113/21       closely [2] 48/14       110/15 113/4 113/20       closely [2] 48/14       110/15 113/4 113/20       closely [2] 48/14       113/21       closely [2] 48/14       113/21       113/21       closely [2] 48/14       113/21       113/21       closely [2] 48/14       113/21		94/19 95/3 95/22	50/23	cloned [2] 76/19 79/4	100/18 103/22 104/1	compressed [1] 55/14
36/3 / 2/16       100/17 105/12 106/20       children [3] 30/14       closely [2] 48/14       110/15 113/4 113/20       82/13         24/23 27/15 32/12       108/7 108/11 108/18       3/48 90/4       145/15       114/21 115/2       comprise [1] 51/6         24/23 27/15 32/12       109/17 106/12 108/12       108/7 108/11 108/18       3/48 90/4       145/15       114/21 115/2       comprise [1] 51/6         22/8 54/12 55/4 55/7       109/18 113/16 115/17       00/3       23/13       24/19 45/5 52/4       127/22 128/1 128/19       concertate [54]         20/21 20/24 120/15       136/16 148/1       136/16 148/1       Chino [2] 76/18 79/4       CMO [1] 50/16       133/12 13/15 13/6       16/13 17/23 19/17         20/21 20/24 128/12 20/13 218/12       138/16 13/10 13/14       chiote [2] 127/2       86/8 78/22       140/16 148/23 14/7       16/16 48/3 77/12 39/6         26/20 27/6 27/27 156/6       138/32 139/12       134/11       134/11       134/11       142/12       145/14 145/21 145/24       52/14 52/19 53/6 54/4         21/3/2       138/13/10 131/14       choice [2] 127/2       88/2       146/16 148/23 14/7       66/4 68/3 77/12 39/7         20/12 21/22       138/13 11/10 131/14       choice [2] 127/2       comprise [1] 80/8       147/16       100/1 00/19 01/1       10/10 10/11/16 10/22         20/14 22		97/13 98/18 99/13	child [2] 16/22 88/22	close [1] 80/2	109/15 109/19 110/1	compressing [1]
Catuse [11]         913         913         914         90.4         145/15         141/21         115/21         52/25         52/12         111/7         108/7         <	58/5 72/18					
24/3 22/15 32/12       103/7 103/1 103/1 103/14       34/3 50/4       114/2 113/16 115/17         24/3 22/15 32/12       109/18 113/16 115/17       113/16 115/17       113/16 115/17       109/18 117 117 119/1117 119/1117       113/16 115/17       109/18 117 117 119/111/17 119/1117       100/18 100/12 110/12 117/12 117/117 119/1117 119/1117       100/18 100/12 110/17 117 119/1117 119/1117       103/18 13/10 111/12 117 119/11 113/16 115/17       100/18 10/12 110/12 113/12 10/12 113/12 113/16 111/12 113/16 13/12	cause [17] 9/13 14/10					
44/12 47/15 48/8 52/7       199/2 109/3 109/11       children \$[2] 58/2       cicture [12] 59/2 44/2       116/2 417/1 16/2/2       cicture [12] 59/2 44/2       116/2 417/1 16/2/2       cicture [12] 59/2 44/2       116/2 417/1 16/2/2       cicture [12] 59/2 33/7         52/8 54/12 55/4 55/7       199/18 113/6 115/17       children \$[2] 54/3       children \$[2] 54/3       33/12 44/19 45/6 52/4       129/9 12/47/1 16/2/2       133/13         20/21 22/14 23/16       120/21 120/25 12/122       136/16 148/1       136/16 148/1       139/12 134/15 136/6       16/14/1       16/13 17/23 19/17         20/21 22/16 27/12 56/6       124/9 126/8 126/17       Chisholm [2] 54/3       54/13       co-operative [1]       144/1 145/21 145/24       52/14 52/19 53/6 54/         69/17 142/4       13/18 131/10 131/14       chice [2] 12/7       Khisholm [2] 62/3       co-operative [1]       144/1 145/21 145/24       52/14 52/19 53/6 54/         62/12 19/9       13/13 15/1/10 14/125       Christine [2] 62/3       co-operative [1]       144/1 145/21 145/24       52/14 52/19 53/7 10/9         62/14 19/19       13/12 12/7       Kristine [2] 62/3       co-operative [1]       100/1 100/19 10/1/1       100/1 100/19 10/1/1       100/1 100/19 10/1/1       100/1 100/19 10/1/1       100/1 100/19 10/1/1       102/25 10/15/3       100/1 100/19 10/1/1       100/1 100/19 10/1/1       100/1 100/19 10/1/1       100/1 1		108/7 108/11 108/18	34/8 90/4	145/15	114/21 115/2 115/25	comprise [1] 51/6
44/12 4/17 3 40/6 32/17 28/8 54/12 55/4 55/7       109/18 113/16 115/17 17/7 120/8 120/15 27/12 32/16 12/17       90/3       32/10 32/23 33/7       119/9 124/17 126/22       133/13       concentrate [54]         caused [11] 8/3 9/12 20/21 22/14 23/16 20/22 71/2 67/6 77/2 7/27 57/6       123/17 123/18 124/7       Chimpanzees [2]       33/12 44/19 45/6 52/4       127/2 128/1 128/19       10/21 11/7 11/9 11/1         20/21 22/14 23/16 26/20 27/6 27/27 57/6 7       124/9 126/8 126/17       Chisolm [2] 76/18 79/4       CMion [2] 76/18 79/4       Condition [3] 88/2       Condition [3] 22/17 22/17 20/2       CMion [3] 70/2 20/2       CMion [3] 70/4 72/2 <td></td> <td>109/2 109/3 109/11</td> <td>children's [2] 88/2</td> <td>clotting [12] 5/8 24/22</td> <td>116/24 117/16 118/21</td> <td>conceivable [1]</td>		109/2 109/3 109/11	children's [2] 88/2	clotting [12] 5/8 24/22	116/24 117/16 118/21	conceivable [1]
52/5 947/2 23/4 33/7 55/9 593/607 61/11       117/7 120/8 120/15       chimpanzees [2]       33/12 44/19 45/6 52/4       127/22 128/1 128/19       concentrate [54]         200/21 22/14 23/16       120/21 120/25 12/22       120/21 120/25 12/22       136/16 148/1       56/9 77/8 98/6       128/22 129/1 128/19       100/21 11/7 11/9 11/1         201/21 22/14 23/16       12/4/9 126/8 126/17       Chisholm [2] 54/3       CMO [1] 50/16       133/12 13/15 136/6       16/13 17/23 19/17         201/21 22/14 23/16       12/4/9 126/8 126/17       Chisholm [2] 54/3       CMO [1] 50/16       133/12 13/15 136/6       16/13 17/23 19/17         201/21 22/14 23/16       131/8 13/10 131/14       Chisholm [2] 54/3       Concentrate [1] 8/8       88/22       140/8 140/21 14/1/14 5/24       52/14/15 12/14 11/25 58/11       101/10 101/16 102/2 5105/7 109/6         201/12 27/12 84/6       58/13 72/14 72/22       77/18 77/12 78/12       Collaboratio [2] 12/8       Collaboratio [2] 12/8       100/8 10/13 109/17       102/14 13/14 33/17 37/13 13/14 13/2       12/2/12/12/14 13/14 13/2       12/2/25 10/5/7 109/6       12/2/25 10/5/7 109/6       12/2/25 10/7 109/6       12	44/12 47/15 48/8 52/7					••
3.05 9393 60/10/11/1       120/21 120/25 121/22       136/16 148/1       56/9 77/9 89/6       128/21 129/3 132/25       10/21 11/7 11/9 11/1         20121 22/14 23/16       123/17 123/18 124/7       123/17 123/18 124/7       Chiron [2] 76/18 79/4       CMO [1] 50/16       133/12 134/15 136/6       16/13/12 134/15 136/2       16/13/12 134/15 136/2       16/13/12 134/15 136/2       16/13/12 134/15 136/2       16/13/12 134/15 136/2       16/13/12 134/15 136/2       16/13/12 134/15 136/2       16/13/12 13/12       10/11/10 10/16 102/2       10/11/10 10/16 102/2       10/11/10 10/16 102/2       10/11/10 10/16 102/2       10/11/10 10/16 102/2       10/11/10 10/16 102/2       10/11/10 11/1	52/8 54/12 55/4 55/7			1		
caused [11]         8/3 9/12         120/21 120/25 121/22         136/16 148/1         56/9 / // 98/6         126/21 129/3 132/25         10/21 11/1 / 11/9 11/1           20/21 22/14 23/16         123/17 123/18 124/7         Chiron [2] 76/18 79/4         Chiron [2] 76/18 79/4         CMO [1] 50/16         133/12 134/15 136/6         16/13 17/23 19/17           26/20 27/6 27/21 56/6         124/9 126/8 126/17         Chiroh [2] 76/18 79/4         Chiroh [2] 74/13 10/21 11/1         14/17         140/12 141/19         20/10 25/25 31/2 38/           26/20 27/6 27/21 56/6         139/23 139/12         131/14         choice [2] 127/2         co-operative [1]         144/1 145/21 145/24         52/14 52/19 53/6 54/           24/11 20/19         139/23 141/10 131/14         choice [2] 127/2         co-ordinate [1] 88/8         147/16         93/9 99/2 99/2 99/2 99/2 99/2 99/2           19/10         Cautions [2] 19/9         31/11 55/22 58/11         96/16 98/25         co-ordinate [1] 88/8         147/16         109/8 109/13 109/17           19/10         CBLA [4] 25/15 26/12         77/14 72/22         Chronic [7] 74/20 77/4         Chronic [7] 74/20 77/4         100/8         20/13 22/12 12/8         109/8 109/13 109/17           19/10         93/20 93/20         97/14 72/22         77/18 77/22 78/2         collaborate [1] 139/8         26/23 27/10 27/12         117/15 124/5 12/17	55/9 59/3 60/7 61/11					
20/21 22/14 23/16         123/17 123/18 126/17         Chilon [2] 76/18 79/4		120/21 120/25 121/22	136/16 148/1	56/9 77/9 89/6	128/21 129/3 132/25	10/21 11/7 11/9 11/11
20/2 1/2 1/4 23/16 26/20 27/2 62/12/ 156/6 59/1 142/4       124/9 126/8 126/17 127/4 130/22 131/5 13/8 131/10 131/4 13/8 131/10 141/25 caution [1] 140/19 cautious [2] 19/9 19/10       Chishoim [2] 54/3 54/3       co [2] 88/8 88/22 co-perative [1] 13/4/1       140/8 140/21 141/19 144/1 145/21 145/24 88/22       20/10 25/25 31/2 38/ 48/22       20/10 25/25 31/2 38/ 144/1 145/24       20/10 25/25 31/2 38/ 52/14 52/1		123/17 123/18 124/7	Chiron [2] 76/18 79/4	CMO [1] 50/16	133/12 134/15 136/6	16/13 17/23 19/17
26/20 27/16 27/24 52/14 53/6 54/3       127/4 130/22 131/5       54/13       co-operative [1]       144/1 145/21 145/24       52/14 52/19 53/6 54/         59/1 142/4       131/8 131/10 131/14       choice [2] 127/2       83/24       146/16 146/23 147/1       66/4 68/3 77/21 92/6         causing [1] 131/24       139/23 141/10 141/25       Christine [2] 62/3       89/24       co-ordinate [1] 88/8       100/11 00/19 101/1         cautions [2] 19/9       31/11 55/22 58/11       69/24       Christine [2] 62/3       89/24       collaborate [1] 88/8       100/10 101/16 102/2         CBLA [4] 25/15 26/12       73/10 93/20 93/20       77/18 77/22 78/2       chronic [7] 74/20 77/4       Collaborate [1] 12/6       collaborate [1] 12/8       26/3 27/10 27/12       117/15 124/5 124/15         CBLA000043 [1]       108/19 109/6 117/8       120/6 120/7       collaborate [1] 12/8       26/3 27/10 27/12       117/15 124/5 124/15       121/1 123/18       50/6 79/15 79/20       133/13 134/4 139/9         100/20       certain [4] 20/22       14/13 79/13 80/21       collected [8] 19/21       44/25 48/8 81/3/32       14/13 14/31 98/17       122/14 13/3 13/3 13/3       140/7       14/25 130/23       146/8         CBLA0000473 [1]       108/19 109/6 117/8       chronology [4] 13/20       127/17 31/14 33/17       124/25 125/10 125/1       140/7       14/13 79/13 80/21	20/21 22/14 23/16					
59/1 142/4       12/14 130/22 131/5       54/13       Co-operative [1]       144/1 145/2 1145/2       52/14 52/19 2/5         causes [2] 37/3       131/8 131/10 131/14       131/8 131/10 131/14       choice [2] 127/2       88/22       144/1 145/2 1145/2       52/14 52/19 2/6         causing [1] 131/24       139/2 139/2 139/12       134/1       Choise [2] 127/2       88/24       88/24       147/16       93/99/2 99/2 99/2 99/4         caution [1] 140/19       131/15 5/22 58/11       139/2 12/7 7/4       Christine [2] 62/3       89/24       145/3       committee [1] 88/8       147/16       100/1 100/19 101/1         cautions [2] 19/9       31/11 55/22 58/11       96/16 98/25       coffee [2] 46/19 46/20       committee [2] 12/8       109/8 109/13 109/17       100/25 105/7 109/6         CBLA0000043 [1]       11/1 55/22 58/11       96/16 98/25       coffee [2] 46/19 46/20       committee [2] 12/8       109/8 109/13 109/17         16/3       119/3 12/20 12/3       77/18 77/22 78/2       77/18 77/22 78/2       collaborate [1] 13/8       26/23 27/10 27/12       117/8 15/25 125/10 125/1         16/3       119/3 128/12 129/8       34/22 85/15       collaborate [1] 13/8       50/6 79/15 79/20       133/13 13/4 139/9         100/20       certain [4] 20/22       24/11 53/4 86/14       circumstances [1]       60/10 71/21 127/4	26/20 27/6 27/21 56/6					
causes [2] 37/3 142/12       131/18 131/10 131/14 136/3 139/2 139/12       134/11 131/14 136/3 139/2 139/12       134/11 136/13 139/2 139/12       134/11 136/13 139/2 139/12       134/11 136/13 139/2 139/12       134/11 139/23 141/10 141/25       66/4 68/3 7/12/19 2/6 20-ordinate [1] 88/8       147/16       93/9 99/2 99/2 99/2 99/2 100/1 100/11 00/110 101/16 102/2 28/3 88/5 129/15         caution [1] 140/19 19/10       143/5       centres [21] 2/7 7/4 31/11 55/22 58/11       Christine [2] 62/3 89/24       coagulation [5] 22/12 28/3 88/5 129/15       committee [21] 12/7 12       100/8       101/10 101/16 102/2 committee [22] 12/8       100/11 00/1100/116 102/2 28/3 88/5 129/15         CBLA [4] 25/15 26/12 27/12 84/6       58/13 72/14 72/22 73/10 93/20 93/20       Christinas [3] 91/8 96/24 102/4 103/13       120/6 190/2 120/6 120/7       Collaborate [1] 139/8 collaborate [1] 139/8       collaborate [1] 139/8 20/23 27/10 27/12       117/15 124/5 117/15 124/5 124/15         CBLA0000473 [1] 100/20       138/12 129/8 131/12       34/22 85/15 chronological [2] 14/13 79/13 80/21       collaboration [2] 8/13 24/11 33/13 80/21       colleague [1] 88/17 79/21 84/9 84/10       140/13 140/16 142/4 146/8         CBLA0000473 [1] 129/6       24/11 53/8 86/14 certain [4] 20/2 24/11 53/86/13       circumstances [1] 27/14 28/15 39/21       colleague [1] 38/17 circumstances [1]       colleague [1] 85/17 collected [8] 19/21       34/22 85/15 communicable [3] 36/24 102/18       concentrate [2] 36/24 102/18       36/24 102/18 cordinate [1] 127/14       36/24 102/18 collected [3] 17/1		127/4 130/22 131/5	54/13	co-operative [1]	144/1 145/21 145/24	52/14 52/19 53/6 54/5
causes [2] 3/73       136/3 139/2 139/12       134/11       co-ordinate [1] 88/8       147/16       93/9 99/2 99/2 99/2 99/4         142/12       139/2 139/12       134/11       co-ordinate [1] 88/8       commercially [1]       100/1 100/19 101/1         causing [1] 131/2       139/2 139/2       134/11       co-ordinate [1] 88/8       commercially [1]       100/1 100/19 101/1         causing [1] 140/19       131/15 5/22 58/11       96/16 98/25       committee [2] 12/7 7/4       109/8 109/3 109/7       102/25 105/7 109/6         CBLA [4] 25/15 26/12       58/13 72/14 72/22       chroinc [7] 74/20 77/4       colinate [1] 139/8       26/23 27/10 27/12       111/16 102/2         77/12 84/6       96/24 102/4 103/13       120/6 120/7       collaborate [1] 139/8       26/23 27/10 27/12       111/15 124/5 124/15         CBLA0000043 [1]       109/6 117/8       131/12       chronological [2]       34/22 85/15       collaborate [1] 139/8       26/23 27/10 27/12       137/14 33/17       124/25 125/10 125/1         100/2       131/12       chronological [2]       34/22 85/15       collaborate [1] 139/8       26/23 27/10 27/12       137/14 33/13 134/1 139/9       13/3/13 134/1 139/9         100/2       131/12       chronological [1]       13/12       collaborate [1] 138/17       79/21 84/9 84/10       140/13 140/16 142/4       36/2		131/8 131/10 131/14	choice [2] 127/2	88/22	146/16 146/23 147/1	66/4 68/3 77/21 92/6
142/12       100/1 100/19 101/12       100/1 100/19 101/1         causing [1] 131/24       139/23 141/10 141/25       143/5       100/1 100/19 101/1         causing [1] 140/19       141/25       143/5       100/1 100/19 101/1         cautious [2] 19/9       31/11 55/22 58/11       96/16 98/25       congulation [5] 22/12       committee [2] 46/19 46/20       committee [2] 12/8         7/12 84/6       58/13 72/14 72/22       chronic [7] 74/20 77/4       Christmas [3] 91/8       96/16 98/25       collaborate [1] 139/8       26/23 27/10 27/12       109/8 109/13 109/17         CBLA0000043 [1]       108/19 109/6 117/8       chronological [2]       100/1 109/6 117/8       chronological [2]       140/7       34/11 43/19 43/20       127/17 31/14 33/17       124/25 125/10	causes [2] 37/3					
causing [1] 131/24       139/23 141/10 141/25       Christine [2] 62/3       commercially [1]       100/1 100/19 101/1         caution [1] 140/19       143/5       89/24       28/3 88/5 129/15       100/8       101/10 101/16 102/2         cautious [2] 19/9       31/11 55/22 58/11       96/16 98/25       coffee [2] 46/19 46/20       committee [22] 12/8       109/8 109/13 109/17         CBLA [4] 25/15 26/12       58/13 72/14 72/22       77/18 77/22 78/2       chronic [7] 74/20 77/4       collaborate [1] 139/8       26/23 27/10 27/12       111/15 124/5 124/15         CBLA0000043 [1]       108/19 109/6 117/8       chronological [2]       chronological [2]       100/1       14/13 79/13 80/21       collaborate [1] 12/8       20/3 27/17 31/14 33/17       124/25 125/10 125/1         CBLA0000473 [1]       108/19 109/6 117/8       chronology [4] 13/20       chronology [4] 13/20       collaborate [1] 12/318       50/6 79/15 79/20       133/13 134/4 139/9         100/2       certain [4] 20/22       14/13 79/13 80/21       circumspect [1] 30/18       collacted [8] 19/21       84/20 84/25 130/23       146/8         CBLA0006294 [1]       101/24 111/21 113/5       circumspect [1] 30/18       circumspect [1] 30/18       collecting [1] 15/16       communicable [3]       80/11 12/21 20/12 30/16         CBLA0006294 [1]       101/19       104/24 111/21 113/5	142/12					
caution [1]       140/19       centres [21]       2/7       2/7       2/7       2/7       2/7       2/7       100/7       <						
Caution [1]         140/19         centres [21]         2/7 /4         Christmas [3]         91/8         145/3         committed [1]         59/7         102/25         105/7         109/8           19/10         58/13         72/14         72/22         73/10         93/20         93/20         77/18         77/22         77/18         77/22         77/18         77/22         77/18         77/22         77/18         77/22         77/18         77/22         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/18         77/22         77/2         77/14         71/2         77/12         117/15         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         124/25         127/11         133/13         134/14         139/9         146/8         140/7         124/25         127/11         131/12 </td <td></td> <td>143/5</td> <td>89/24</td> <td>28/3 88/5 129/15</td> <td>100/8</td> <td>101/10 101/16 102/21</td>		143/5	89/24	28/3 88/5 129/15	100/8	101/10 101/16 102/21
cathods [2]       19/9       31/11 55/22 58/11       96/16 98/25       coffee [2] 46/19 46/20       committee [2] 12/8       109/8 109/13 109/17         CBLA [4] 25/15 26/12       58/13 72/14 72/22       73/10 93/20 93/20       77/18 77/22 78/2       coffee [2] 46/19 46/20       committee [2] 12/8       109/8 109/13 109/17         CBLA0000043 [1]       108/19 109/6 117/8       120/6 120/7       collaborate [1] 139/8       26/23 27/10 27/12       117/15 124/5 124/15         16/3       108/19 109/6 117/8       chronological [2]       140/7       34/11 43/19 43/20       127/11 13/3 13/3/3         CBLA0000098 [1]       119/3 128/12 129/8       34/22 85/15       collaboration [2] 8/13       27/17 87/15 79/20       133/13 13/4/ 139/9         100/20       certain [4] 20/22       14/13 79/13 80/21       collected [8] 19/21       84/20 84/25 130/23       146/8         CBLA0000473 [1]       certain [4] 20/22       14/13 79/13 80/21       collected [8] 19/21       84/20 84/25 130/23       146/8         CBLA0001346 [1]       27/14 28/15 39/21       circulating [1] 7/2       48/22 59/16 59/25       communicable [3]       30/17 30/21 31/4         101/19       certain [4] 20/24       tirnsis [1] 78/6       collecting [1] 15/16       communicating [8]       30/17 30/21 31/4         101/19       certains [1] 139/6       certains [1] 13			Christmas [3] 91/8	145/3	committed [1] 59/7	102/25 105/7 109/6
19/10       58/13 72/14 72/22       chronic [7] 74/20 77/4       Colindale [1] 12/6       21/19 22/9 22/15       111/8 116/21 116/25         CBLA [4] 25/15 26/12       73/10 93/20 93/20       96/24 102/4 103/13       120/6 120/7       collaborate [1] 139/8       26/23 27/10 27/12       117/15 124/5 124/15         CBLA0000043 [1]       108/19 109/6 117/8       120/6 120/7       chronological [2]       34/22 85/15       collaborate [1] 123/18       20/6 79/15 79/20       133/13 134/4 139/9         CBLA0000473 [1]       119/3 128/12 129/8       34/22 85/15       chronology [4] 13/20       collated [1] 123/18       50/6 79/15 79/20       133/13 134/4 139/9         108/8       Certain [4] 20/22       14/13 79/13 80/21       circulating [1] 7/2       circulating [1] 7/2       84/20 84/25 130/23       146/8         CBLA0001346 [1]       27/14 28/15 39/21       circumstances [1]       80/16       collected [8] 19/21       84/20 84/25 130/23       concentrated [2]         108/8       certainly [13] 19/11       circumstances [1]       80/18       collecting [1] 57/16       collecting [1] 57/16       concentrate [2]       concentrate [2]       concentrate [2]       concentrate [6]       9/10 10/9 11/18 16/14         129/6       CBLA0006294 [1]       104/24 111/21 113/5       certaints [1] 78/6       carrificat [1] 17/3       carrified [1] 17/3       coll	cautious [2] 19/9					
CBLA [4] 25/15 26/12 27/12 84/6         58/13 72/14 72/22 73/10 93/20 93/20         chronic [7] 74/20 7/74         Colindale [1] 12/6         21/19 22/9 22/15         111/8 116/21 116/25           CBLA0000043 [1] 16/3         96/24 102/4 103/13         120/6 120/7         collaborate [1] 139/8         26/23 27/10 27/12         117/15 124/5 124/15           CBLA000098 [1] 16/3         119/3 128/12 129/8         34/22 85/15         collaborate [1] 132/6         27/17 31/14 33/17         124/25 125/10 125/1           CBLA000098 [1] 100/20         111/3 128/12 129/8         34/22 85/15         collated [1] 123/18         50/6 79/15 79/20         133/13 134/4 139/9           CBLA0000473 [1] 100/20         certain [4] 20/22         14/13 79/13 80/21         collected [8] 19/21         84/20 84/25 130/23         146/8           CBLA0001346 [1] 129/6         27/14 28/15 39/21         circumstances [1]         12/71         84/22 59/16 59/25         communicable [3]         86/14         collectin [3] 15/16         communicable [3]         86/24 102/18           CBLA0006294 [1] 101/19         27/14 28/15 39/21         88/24         collectin [3] 47/6         1112/5 13/25         concentrates [62]           CDC [3] 30/3 72/25         132/24 143/7         24/23 13 0/31         88/24         collectin [3] 47/6         112/11         22/12 30/12 30/16           CDSC [4] 14/14         24/25 </td <td>19/10</td> <td></td> <td></td> <td></td> <td></td> <td></td>	19/10					
27/12 84/6       73/10 93/20 93/20       77/18 77/22 78/2       Collaborate [1] 139/8       26/23 27/10 27/12       117/18 124/8 124/15         CBLA0000043 [1]       96/24 102/4 103/13       120/6 120/7       collaboration [2] 8/13       27/17 31/14 33/17       124/25 125/10 125/12         16/3       119/3 128/12 129/8       34/22 85/15       collaboration [2] 8/13       27/17 31/14 33/17       124/25 125/10 125/12         100/20       131/12       chronology [4] 13/20       collade [1] 123/18       50/6 79/15 79/20       133/13 13/4/ 139/9         100/20       certain [4] 20/22       14/13 79/13 80/21       collaegue [1] 38/17       79/21 84/9 84/10       140/13 140/16 142/4         CBLA0000473 [1]       24/11 53/4 86/14       circulating [1] 7/2       48/22 59/16 59/25       collaeted [8] 19/21       84/20 84/25 130/23       146/8         CBLA0001346 [1]       27/14 28/15 39/21       circumspect [1] 30/18       60/10 71/21 127/4       8/11 12/5 13/25       communicable [3]       36/24 102/18         CBLA0006294 [1]       101/19       27/14 28/15 39/21       circumspect [1] 78/6       collecting [1] 15/16       communicating [1]       9/10 10/9 11/18 16/12         101/19       12/24 143/7       certainty [1] 64/23       certaints [1] 140/20       claims [1] 140/20       collective [1] 147/6       communicating [8]       30/17 30/21 31		58/13 / 2/14 72/22	chronic [7] 74/20 77/4		21/19 22/9 22/15	111/8 116/21 116/25
27/12 64/6       96/24 102/4 103/13       120/6 120/7       collaboration [2] 8/13       27/17 31/14 33/17       124/25 125/10 125/17         16/3       108/19 109/6 117/8       chronological [2]       34/22 85/15       collaboration [2] 8/13       27/17 31/14 33/17       124/25 125/10 125/17         CBLA0000098 [1]       119/3 128/12 129/8       34/22 85/15       chronology [4] 13/20       127/1 133/3 134/4 139/9         100/20       certain [4] 20/22       14/13 79/13 80/21       colleague [1] 38/17       79/21 84/9 84/10       140/13 140/16 142/4         CBLA0000473 [1]       certain [4] 20/22       14/13 79/13 80/21       circulating [1] 7/2       48/22 59/16 59/25       communicable [3]       36/24 102/18         CBLA0006294 [1]       27/14 28/15 39/21       circumstances [1]       30/17       36/24 102/18       concentrates [62]       36/24 102/18         101/19       27/14 28/15 39/21       circumstances [1]       88/24       collecting [1] 15/16       communicable [3]       30/17 30/21 31/4         101/19       132/24 143/7       certainty [1] 64/23       clarified [1] 17/3       collective [1] 47/6       collective [1] 47/6       30/17 30/21 31/4         105/21 144/14       14/12 14/25       14/13 39/13       58/22 64/16 71/9       90/14 117/18       133/20 141/22       48/20 54/10 54/12		73/10 93/20 93/20	77/18 77/22 78/2	collaborate [1] 139/8	26/23 27/10 27/12	117/15 124/5 124/15
CBLA0000043 [1]       108/19 109/6 117/8       chronological [2]       140/7       34/11 43/19 43/20       127/1 133/3 133/3         CBLA0000098 [1]       119/3 128/12 129/8       34/22 85/15       collated [1] 123/18       50/6 79/15 79/20       133/13 134/4 139/9         100/20       certain [4] 20/22       14/13 79/13 80/21       colleague [1] 38/17       79/21 84/9 84/10       140/13 140/16 142/4         CBLA0000473 [1]       24/11 53/4 86/14       circulating [1] 7/2       48/22 59/16 59/25       collected [8] 19/21       84/20 84/25 130/23       146/8         CBLA00001346 [1]       27/14 28/15 39/21       circumspect [1] 30/18       collecting [1] 15/16       collecting [3] 30/3 72/25       36/24 102/18       30/17 30/21 31/4         101/19       132/24 143/7       certainty [1] 64/23       certaints [1] 140/20       48/3 71/19       collective [1] 147/6       10/24 15/25 16/6       30/17 30/21 31/4       32/24 33/4 33/14 37/4         CDSC [4] 14/12 14/25       14/12 14/25       58/22 64/16 71/9       90/14 117/18       10/24 15/25 16/6       32/24 33/4 33/14 37/4         CDSC [4] 14/12 14/25       14/12 14/25       58/22 64/16 71/9       90/14 117/18       133/20 141/22       48/20 54/10 54/12						
16/3       108/19 109/6 117/8       chronological [2]       140/7       34/11 43/19 43/20       12/71 133/3 133/3         CBLA0000098 [1]       119/3 128/12 129/8       34/22 85/15       collated [1] 123/18       50/6 79/15 79/20       133/13 134/4 139/9         100/20       certain [4] 20/22       14/13 79/13 80/21       collated [8] 19/21       84/20 84/25 130/23       146/8         CBLA0000473 [1]       24/11 53/4 86/14       circulating [1] 7/2       48/22 59/16 59/25       committees [1] 83/10       concentrated [2]         108/8       certainly [13] 19/11       circumspect [1] 30/18       60/10 71/21 127/4       8/11 12/5 13/25       concentrated [2]         28/A0006294 [1]       104/24 111/21 113/5       circumstances [1]       127/11       8/11 12/5 13/25       concentrates [62]         101/19       104/24 111/21 113/5       132/24 143/7       circhosis [1] 78/6       collecting [3] 47/6       8/11 12/5 13/25       concentrates [62]         104/14       132/24 143/7       certainty [1] 64/23       claims [1] 140/20       48/3 71/19       10/24 15/25 16/6       32/24 33/4 33/14 37/4         CDSC [4] 14/12 14/25       certa [8] 39/13 39/13       58/22 64/16 71/9       90/14 117/18       10/24 15/25 16/6       32/24 33/4 33/14 37/4         CDSC [4] 14/12 14/25       58/22 64/16 71/9       90/14 117/18       <	CBLA0000043 [1]					
CBLA0000098 [1]       119/3 128/12 129/8       34/22 85/15       collated [1] 123/18       50/6 79/15 79/20       133/13 134/4 139/9         100/20       131/12       chronology [4] 13/20       collated [1] 123/18       50/6 79/15 79/20       133/13 134/4 139/9         CBLA0000473 [1]       131/12       chronology [4] 13/20       collated [1] 123/18       50/6 79/15 79/20       14/0/13 140/16 142/4         108/8       certain [4] 20/22       14/13 79/13 80/21       collected [8] 19/21       84/20 84/25 130/23       146/8         CBLA0001346 [1]       24/11 53/4 86/14       circulating [1] 7/2       48/22 59/16 59/25       communicable [3]       36/24 102/18         CBLA0006294 [1]       27/14 28/15 39/21       circumstances [1]       127/11       8/11 12/5 13/25       concentrated [2]         101/19       20/12 4 113/21 113/5       circumstances [1]       127/11       8/11 12/5 13/25       concentrates [62]         101/19       104/24 111/21 113/5       circuis [1] 78/6       collection [3] 47/6       112/11       22/12 30/12 30/16         144/14       139/13 39/13       clarified [1] 17/3       collective [1] 147/6       communication [8]       30/17 30/21 31/4         CDC [3] 30/3 72/25       certificate [1] 139/6       certified [5] 40/13 58/6       collective [1] 147/6       10/24 15/25 16/6       32/24 33						
CbLA0000096 [1]         131/12         chronology [4]         13/20         colleague [1]         38/17         79/21 84/9 84/10         14/0/13 140/16 142/4           100/20         certain [4]         20/22         14/13 79/13 80/21         colleague [1]         38/17         79/21 84/9 84/10         14/0/13 140/16 142/4           108/8         certain [4]         20/22         14/13 79/13 80/21         collected [8]         19/21         84/20 84/25 130/23         146/8           CbLA0001346 [1]         24/11 53/4 86/14         circulating [1] 7/2         48/22 59/16 59/25         commitees [1] 83/10         concentrated [2]           129/6         certain[4]         20/24         88/24         collecting [1] 15/16         communicable [3]         36/24 102/18           CBLA0006294 [1]         104/24 111/21 113/5         circumstances [1]         127/11         8/11 12/5 13/25         concentrates [62]           101/19         104/24 111/21 113/5         circunsis [1] 78/6         collecting [3] 47/6         112/11         22/12 30/12 30/16           127/14         8/37 7/19         certainty [1] 64/23         clarified [1] 17/3         collective [1] 147/6         10/24 15/25 16/6         32/24 33/4 33/14 37/4           CDSC [4]         14/12 14/25         58/22 64/16 71/9         90/14 117/18         133/20 141/22		119/3 128/12 129/8	34/22 85/15	collated [1] 123/18	50/6 79/15 79/20	133/13 134/4 139/9
100/20 CBLA0000473 [1] 108/8       certain [4] 20/22 24/11 53/4 86/14       14/13 79/13 80/21 circulating [1] 7/2       collected [8] 19/21 48/22 59/16 59/25       84/20 84/25 130/23 committees [1] 83/10       146/8         CBLA0001346 [1] 129/6       certainly [13] 19/11 27/14 28/15 39/21       circulating [1] 7/2 circumstances [1]       60/10 71/21 127/4       84/20 84/25 130/23       146/8         CBLA0006294 [1] 101/19       27/14 28/15 39/21       circumstances [1]       127/11       8/11 12/5 13/25       concentrates [62]         CDC [3] 30/3 72/25       132/24 143/7       cirthosis [1] 78/6       collectine [3] 47/6       112/11       22/12 30/12 30/16         CDSC [4] 14/12 14/25       certain[8] 39/13 39/13       58/22 64/16 71/9       90/14 117/18       10/24 15/25 16/6       32/24 33/4 33/14 37/         CDSC [4] 14/12 14/25       39/13 39/13       58/22 64/16 71/9       90/14 117/18       133/20 141/22       48/20 54/10 54/12			chronology [4] 13/20			140/13 140/16 142/4
CBLA0000473 [1]         24/11 53/4 86/14         circulating [1] 7/2         48/22 59/16 59/25         committees [1] 83/10         concentrated [2] 36/24 102/18           CBLA0001346 [1]         27/14 28/15 39/21         circumspect [1] 30/18         60/10 71/21 127/4         8/11 12/5 13/25         36/24 102/18           CBLA0006294 [1]         27/14 28/15 39/21         circumstances [1]         127/11         8/11 12/5 13/25         concentrated [2]           CBLA0006294 [1]         40/6 42/8 56/8 103/24         88/24         collecting [1] 15/16         communicating [1]         9/10 10/9 11/18 16/12           101/19         104/24 111/21 113/5         cirrhosis [1] 78/6         collecting [3] 47/6         112/11         22/12 30/12 30/16           132/24 143/7         claims [1] 140/20         claims [1] 140/20         48/3 71/19         communication [8]         30/17 30/21 31/4           CDSC [4] 14/12 14/25         certificate [1] 139/6         clarke [5] 40/13 58/6         Collins [4] 90/2 90/13         20/13 25/8 132/7         44/19 44/25 45/6           Colsc [4] 14/12 14/25         39/13 39/13         58/22 64/16 71/9         90/14 117/18         133/20 141/22         48/20 54/10 54/12	100/20					
108/8       24/11 53/4 86/14       circulating [1] 7/2       48/22 39/16 39/25       committees [1] 83/10       concentrated [2]         CBLA0001346 [1]       27/14 28/15 39/21       circumspect [1] 30/18       60/10 71/21 127/4       8/11 12/5 13/25       36/24 102/18         CBLA0006294 [1]       20/6 42/8 56/8 103/24       88/24       collecting [1] 15/16       communicable [3]       9/10 10/9 11/18 16/12         101/19       104/24 111/21 113/5       88/24       collecting [1] 15/16       communicating [1]       9/10 10/9 11/18 16/12         CDC [3] 30/3 72/25       132/24 143/7       claims [1] 140/20       48/3 71/19       communication [8]       30/17 30/21 31/4         CDSC [4] 14/12 14/25       certificate [1] 139/6       certified [1] 17/3       collective [1] 147/6       10/24 15/25 16/6       32/24 33/4 33/14 37/4         CDSC [4] 14/12 14/25       58/22 64/16 71/9       90/14 117/18       133/20 141/22       48/20 54/10 54/12	CBLA0000473 [1]					
CBLA0001346 [1] 129/6         Circumspect [1] 30/18         60/10 7 1/21 12/14         Communicable [3] 8/11 12/5 13/25         36/24 102/18           CBLA0006294 [1] 101/19         27/14 28/15 39/21         circumstances [1] 88/24         127/11         8/11 12/5 13/25         concentrates [62]         9/10 10/9 11/18 16/12           CDC [3] 30/3 72/25 144/14         132/24 143/7         circumstances [1] 140/20         circlist [1] 140/20         48/3 71/19         communication [8]         30/17 30/21 31/4         30/17 30/21 31/4           CDSC [4] 14/12 14/25         14/12 14/25         S8/22 64/16 71/9         90/14 117/18         90/14 117/18         10/24 15/25 16/6         32/24 33/4 33/14 37/4					committees [1] 83/10	concentrated [2]
Cbl Autor 1346 [1]         27/14 28/15 39/21         circumstances [1]         127/11         8/11 12/5 13/25         concentrates [62]         9/10 10/9 11/18 16/1.           129/6         40/6 42/8 56/8 103/24         88/24         circlosis [1] 78/6         collecting [1] 15/16         collection [3] 47/6         30/17 30/21 31/4         9/10 10/9 11/18 16/1.         22/12 30/12 30/16         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         30/17 30/21 31/4         32/24 33/4 33/14 37/         Collective [1] 147/6         10/24 15/25 16/6         32/24 33/4 33/14 37/         32/24 33/4 33/14 37/         44/19 44/25 45/6         48/20 54/10 54/12		certainly [13] 19/11	circumspect [1] 30/18	60/10 71/21 127/4	communicable [3]	36/24 102/18
129/6       40/6 42/8 56/8 103/24       88/24       collecting [1] 15/16       communicating [1] 12/11       9/10 10/9 11/18 16/12         101/19       104/24 111/21 113/5       cirrhosis [1] 78/6       cilection [3] 47/6       112/11       22/12 30/12 30/16         CDC [3] 30/3 72/25       132/24 143/7       claims [1] 140/20       30/17 30/21 31/4       30/17 30/21 31/4         CDSC [4] 14/12 14/25       certificate [1] 139/6       clarke [5] 40/13 58/6       collective [1] 147/6       10/24 15/25 16/6       32/24 33/4 33/14 37/         CDSC [4] 14/12 14/25       39/13 39/13       58/22 64/16 71/9       90/14 117/18       133/20 141/22       48/20 54/10 54/12						
CBLA0006294 [1] 101/19 CDC [3] 30/3 72/25 144/14 CDSC [4] 14/12 14/25       40/6 42/8 56/8 103/24 104/24 111/21 113/5 132/24 143/7 certainty [1] 64/23 certainty [1] 64/23 certaints [1] 139/6 certaints [1] 140/20 clarified [1] 17/3 58/22 64/16 71/9       collecting [1] 15/16 collection [3] 47/6 48/3 71/19 collective [1] 147/6 collective [1]	129/6					
101/19       104/24 111/21 113/5       cirmosis [1] 78/6       collection [3] 47/6       112/11       22/12 30/12 30/16         CDC [3] 30/3 72/25       132/24 143/7       claims [1] 140/20       48/3 71/19       communication [8]       30/17 30/21 31/4         144/14       certainty [1] 64/23       certificate [1] 139/6       clarke [5] 40/13 58/6       collective [1] 147/6       10/24 15/25 16/6       32/24 33/4 33/14 37/4         CDSC [4] 14/12 14/25       14/12 14/25       58/22 64/16 71/9       90/14 117/18       20/13 25/8 132/7       44/19 44/25 45/6						
101/19 CDC [3] 30/3 72/25 144/14 CDSC [4] 14/12 14/25       132/24 143/7 certainty [1] 64/23 certificate [1] 139/6 certificate [1] 139/6 cettera [8] 39/13 39/13       claims [1] 140/20 clarified [1] 17/3 Clarke [5] 40/13 58/6       48/3 71/19 collective [1] 147/6 Collins [4] 90/2 90/13       communication [8] 10/24 15/25 16/6 20/13 25/8 132/7 133/20 141/22       30/17 30/21 31/4 32/24 33/4 33/14 37/ 44/19 44/25 45/6 48/20 54/10 54/12		104/24 111/21 113/5	cirrhosis [1] 78/6	collection [3] 47/6	112/11	22/12 30/12 30/16
CDC [3]         30/3 72/25         certainty [1]         64/23         clarified [1]         17/3         collective [1]         147/6         10/24         15/25         16/6         32/24         33/14         37/1           144/14         certificate [1]         139/6         clarified [5]         40/13         58/6         collective [1]         147/6         10/24         15/25         16/6         32/24         33/14         37/1           CDSC [4]         14/12         14/25         certificate [1]         139/6         Clarke [5]         40/13         58/6         collective [1]         147/6         10/24         15/25         16/6         32/24         33/14         37/1           CDSC [4]         14/12         14/25         58/22         64/16         71/9         90/14         117/18         10/24         15/25         16/6         48/20         54/10         54/12		132/24 143/7			communication [8]	30/17 30/21 31/4
CDSC [4]         14/12         14/25         certificate [1]         139/6         Clarke [5]         40/13         58/6         Collins [4]         90/2         90/13         20/13         25/8         132/7         44/19         44/25         45/6           CDSC [4]         14/12         14/25         58/22         64/16         71/9         90/14         117/18         133/20         141/22         48/20         54/10         54/12	CDC [3] 30/3 72/25					
CDSC [4]         14/12         14/25         Certificate [1]         139/6         Clarke [5]         40/13         58/6         Collins [4]         90/2         90/13         20/13         25/8         132/7         44/19         44/25         45/6           cetera [8]         39/13         39/13         58/22         64/16         71/9         90/14         117/18         133/20         141/22         48/20         54/10         54/12	144/14					
<b>Cetera [o]</b> 39/13 39/13 39/13 50/22 64/16 / 1/9 90/14 11//16 133/20 14 1/22 46/20 34/10 34/12			Clarke [5] 40/13 58/6	Collins [4] 90/2 90/13		
		cetera [8] 39/13 39/13	58/22 64/16 71/9	90/14 117/18	133/20 141/22	48/20 54/10 54/12
						(44)

(44) case... - concentrates

С	connection [3] 13/9	57/10 131/4	54/16 55/24 64/21	26/2 30/17 33/14 45/7	122/25 148/11 148/21
	20/18 27/13	continued [4] 2/10	64/24 65/3 71/12	54/8 54/16 54/20	days [5] 4/7 16/7
concentrates [42]	consensus [2] 22/15	48/3 67/22 111/1	71/14 72/16 75/17	55/23 67/22 87/18	53/15 57/25 86/13
54/15 54/22 55/4	75/7	continues [3] 60/25	75/25 76/15 79/10	91/13 91/16 91/24	DDAVP [1] 30/10
55/11 58/9 67/10	consequence [1] 3/7	127/11 137/6	87/6 87/10 94/2 96/22	92/5 92/22 95/24 96/2	dead [1] 36/2
74/15 77/9 88/3 95/20	consequences [2]	continuing [3] 47/24	97/1 99/5 101/25	96/6 97/11 97/15	deal [3] 11/7 30/24
102/14 102/22 103/4	68/5 116/15	117/23 140/23	104/2 105/10 107/7	97/19 97/21 98/1	86/14
104/1 107/18 107/24	consequent [1]	contract [2] 71/3	114/21 115/16 118/13	101/3 101/13 102/13	dealing [1] 34/21
110/13 110/22 113/4	126/21	117/16	121/14 121/21 122/23	102/21 102/25 103/2	dealings [1] 90/4
115/2 116/1 118/21	consider [14] 8/23	contracted [1] 66/23	132/1 132/12 133/17	103/5 103/20 103/25	Dear [8] 16/10 29/21
120/23 121/1 121/7	10/17 15/14 31/6 50/2	contracting [5] 9/23	133/19 134/5	109/7 109/24 110/5	38/17 75/1 126/15
123/3 123/15 125/17	63/3 66/3 76/5 77/24	66/13 74/14 75/21	Council [8] 22/17 26/3		134/19 142/2 143/1
126/19 130/7 133/9	79/16 90/10 129/13	140/14	26/17 27/17 28/17	117/25 120/16 120/22	I I
134/15 136/21 136/22	135/8 143/14	contractual [1] 147/4	35/4 35/13 41/1	121/7 123/3 124/2	debated [1] 48/12
136/24 137/3 137/9	considerable [3]	contrary [1] 128/3	countries [4] 11/20	125/22 126/5 127/16	decade [1] 92/8
140/8 143/3 144/1	39/11 51/2 120/24	contribution [2] 96/10		129/23 130/6 130/13	decades [2] 23/19
145/2 146/1	consideration [11]	119/14	countries' [1] 11/17	130/16	78/7
concentrations [1]	3/15 15/23 27/11	control [7] 8/13 29/14		cryoprocessing [1]	December [14] 57/2
77/19	33/11 33/24 43/25	51/1 72/11 131/15	5/5 8/10 8/15 11/12	98/2	
concepts [1] 18/21		136/17 138/21			58/18 68/10 68/11 68/11 68/19 68/22
concern [13] 37/21	44/6 45/21 45/23 46/2 74/8		12/19 12/22 13/3 22/7	CSM [2] 31/18 34/18	69/4 69/6 69/7 77/2
37/23 47/15 58/4 73/8		controlled [4] 96/25	31/11 59/7 71/21	CSMB [1] 44/1	
98/16 115/3 116/3	considerations [3]	137/24 147/12 147/19	71/25 128/13	current [10] 32/11	77/2 129/1 145/19
116/13 116/16 125/8	34/13 60/8 145/25	controls [2] 12/10	couple [3] 6/23 112/6	32/21 44/6 50/25	December 1980 [1]
127/24 142/4	considered [15] 15/21		143/15	90/11 121/23 123/19	129/1 December 1094 [4]
concerned [4] 8/1	15/23 26/22 27/9 30/3	convened [1] 129/13	course [37] 8/18 8/22	127/14 134/6 146/23	December 1984 [1]
100/7 139/7 142/8	30/10 40/8 45/5 45/11	convenient [5] 46/10		currently [4] 19/12	68/19
concerning [2] 35/19	45/17 46/1 48/2 76/23	46/11 95/25 110/4	20/11 23/18 31/6	90/18 112/23 127/21	December 1988 [1]
58/3	80/4 106/17	148/10	41/10 46/7 47/23	Currie [1] 58/1	77/2
concerns [2] 17/7	considering [5] 12/9	conventional [2] 67/3	48/10 48/17 50/2 54/1	cut [2] 2/8 136/21	decide [2] 120/19
40/15	13/8 27/20 78/14	68/1	55/14 61/4 62/2 68/17	cutting [1] 2/5	147/8
concluded [3] 45/7	79/22	convert [1] 109/23	73/5 74/7 76/4 78/19	D	decided [2] 34/7 60/6
45/18 48/25	consistent [1] 134/10	conveyed [1] 118/17	79/12 80/4 80/11		decision [7] 17/7
concludes [2] 22/2	constantly [1] 30/23	cope [2] 88/23 98/18	82/24 86/9 89/21	Daily [1] 56/3	65/25 68/16 69/8
46/4	constitute [1] 137/21	copies [1] 56/2	90/15 95/16 111/25	Daly [3] 56/18 56/18	79/25 131/9 131/15
concluding [1] 3/5	construct [1] 112/24	copy [5] 6/24 38/19	117/3 139/20 148/13	57/19	decision-making [2]
conclusion [8] 16/25	consultant [2] 82/24	60/23 121/12 144/8	149/10	Dame [1] 80/10	131/9 131/15
17/17 32/11 32/23	107/10	core [11] 79/14 80/22	cover [2] 85/19	danger [1] 107/5	decisions [6] 10/17
33/18 34/2 34/12	contact [4] 10/4 32/18		104/22	dangerous [2] 104/18 105/8	
80/19	43/5 70/18	86/12 87/1 89/19 90/9	covered [2] 104/25		83/3 83/6
conclusions [6] 32/4	contacts [1] 42/12	121/13 138/5	105/1	dangers [1] 47/13	defects [3] 89/8 89/9
32/8 34/17 44/11	contain [3] 6/1 11/9	corner [2] 58/1 71/16		data [3] 15/16 90/20	145/3
66/25 67/2	104/17	Corp [1] 76/18	145/11	123/20	deferral [1] 79/17
conclusive [8] 8/5	containing [2] 13/16	correct [1] 134/23	Craske [15] 31/24	date [13] 2/21 5/13	deficiencies [1] 44/16
8/19 10/2 49/13 53/13	129/14	correlate [1] 122/2	44/4 120/4 125/14	18/5 20/14 57/5 57/23	deficiency [6] 6/18
57/10 58/7 59/4	contaminants [1]	correspondence [3]	125/16 140/3 140/6	58/15 58/16 58/19	14/2 14/4 21/21 25/21
condition [1] 23/15	77/12	21/15 111/12 111/24	140/19 141/11 141/12	72/24 73/3 134/6	58/8
conditions [1] 83/18	contaminated [6]	correspondingly [1]	143/20 143/22 145/5	136/2	deficient [1] 96/21
conducted [1] 138/3	4/20 18/4 19/2 19/18	38/24	145/15 145/23	dated [22] 6/17 14/22	definable [1] 30/4
conducting [1] 140/7	51/22 56/8	cost [7] 52/16 64/20	Craske's [2] 145/12	16/7 23/9 23/23 25/11	defines [1] 147/11
conference [1] 61/6	contamination [2]	100/1 115/4 119/17	145/13	29/20 38/18 47/3	definite [2] 24/24 30/4
confess [1] 134/24	58/5 85/3	127/22 134/12	create [1] 147/18	57/21 64/12 65/9 69/6	definitely [1] 3/8
confidence [2] 71/1	contemplated [1]	cost-effective [1]	credibility [1] 6/5	70/6 71/8 126/12	definition [2] 28/13
144/3	134/16	64/20	CRI [2] 97/15 97/23	129/1 131/19 135/20	30/2
confident [1] 114/3	contemporaneous [1]	could [61] 2/19 3/3	crisis [3] 60/7 83/24	135/24 148/5 148/6	degree [1] 32/24
confined [1] 58/10	86/4	4/14 4/17 5/17 5/21	135/7	dated May 1983 [1]	delay [1] 79/3
confirmed [2] 16/17	content [2] 43/23	6/16 7/19 7/24 9/2	criteria [2] 16/14	23/23	delays [2] 73/8 78/22
36/1	136/1	13/21 17/5 21/16	17/20	dates [3] 79/13 87/17	delegates [3] 36/6
conflated [1] 18/19	context [5] 125/12	23/21 25/6 25/16	critical [1] 83/6	145/9	36/24 37/10
conflating [1] 18/20	130/12 131/6 141/3	27/16 31/12 32/13	Cross [2] 5/7 37/19	dating [1] 85/13	deliberately [1] 86/19
conforms [1] 30/2	141/20	33/20 34/6 34/25	crude [1] 124/2	David [1] 134/18	delivery [1] 113/7
connected [1] 47/16	continue [7] 1/15	37/16 38/13 40/2	cry [1] 128/22	day [8] 5/16 13/14	demand [2] 97/2
	30/18 31/1 35/8 54/21	43/16 50/12 54/7	cryoprecipitate [51]	82/10 88/1 101/21	98/18
L	I	l	L		L

(45) concentrates... - demand

D	111/3 111/10 111/15	84/3 103/12 108/7	disadvantages [1]	distanced [1] 46/19	donated [4] 17/1
demanding [1] 98/15	development [9] 10/7	131/14 133/3	147/2	distinct [1] 51/5	18/13 71/24 144/25
demands [2] 78/12	46/2 56/14 64/11	didn't [4] 45/20	disastrous [1] 131/21	distorted [1] 7/16	donating [2] 28/12
97/14	78/18 84/8 87/16 88/3	104/25 108/4 144/2	discern [2] 97/7	district [4] 50/17	70/23
	141/20	die [2] 9/22 25/3	100/14	50/19 66/1 68/12	donation [5] 3/21
demonstrate [1]	developments [3]	died [6] 50/10 56/7	disclosed [1] 86/12	disturbing [1] 3/18	48/16 60/16 60/17
137/12	20/16 48/11 123/22	66/9 71/22 82/21	discontinued [1]	divisions [1] 52/25	128/3
demonstrating [1]	develops [2] 35/24	144/17	67/18	divorced [1] 128/7	donations [12] 18/3
64/23	111/17	different [13] 28/18	discourage [1] 40/20	do [21] 24/19 28/18	19/1 25/23 47/9 47/14
department [35] 6/15	devil's [1] 65/1	33/11 42/11 43/4 55/6	discouraged [1]	43/21 60/7 67/10	47/22 52/6 64/8 64/9
8/19 10/24 13/12	devised [1] 63/10	60/20 91/12 116/5	147/17	67/11 67/13 71/25	69/25 70/5 70/13
14/16 14/17 14/18	DHS0002227 [1]	116/18 117/5 119/9	discovered [3] 61/10	73/13 81/1 81/16 87/3	done [6] 41/5 78/10
15/14 16/1 16/8 20/13	13/22	133/8 133/15	76/17 143/9	89/14 90/21 110/3	98/1 98/2 108/1 144/5
26/16 40/8 40/14 50/3	DHSC0000435 [1]	difficult [8] 47/5 77/7	discovery [1] 76/21	122/2 123/10 135/2	donor [11] 3/19 24/17
57/7 57/17 59/13 61/1	64/12	96/21 103/14 116/6	discuss [4] 7/7 21/9	142/10 142/14 142/16	26/2 33/8 37/24 38/25
69/19 75/10 75/16		1			
76/3 83/19 84/13 85/9	DHSC0000443 [1]	128/17 130/18 135/2	48/1 142/14	doctor [1] 83/1	65/5 95/9 95/16 95/24
108/23 117/17 118/4	63/5	difficulties [1] 48/9	discussed [9] 17/5	doctors [6] 56/10	119/8
118/9 124/24 125/5	DHSC0000455 [1]	difficulty [1] 119/8	48/25 73/16 100/2	102/20 105/2 110/3	donors [23] 6/2 19/20
125/7 125/8 126/8	61/7	direct [1] 15/25	100/7 120/24 123/7	116/6 116/18	19/22 21/1 24/7 28/11
Department's [3]	DHSC0000562 [1]	directed [1] 61/13	129/12 143/3	document [38] 13/16	33/8 38/23 40/1 42/20
52/24 117/18 117/24	70/1	direction [3] 87/20	discussing [2] 130/12		47/10 47/20 48/5
departmental [3] 47/6	DHSC0001208 [1]	90/1 90/17	139/3	25/17 28/15 29/18	49/22 51/24 52/22
64/13 65/10	43/16	directive [1] 20/24	discussion [34] 31/17	31/13 32/6 34/19	52/23 60/1 65/12 71/1
dependent [1] 59/22	DHSC0001209 [1]	directly [1] 141/23	32/2 32/3 54/18 55/18	43/17 45/13 46/9	98/3 98/13 99/4
	31/12	director [15] 54/3	77/25 94/19 95/11	50/14 50/22 53/15	dosage [2] 33/4 44/25
derived [3] 33/1 44/22	DHSC0001280 [1]	68/9 72/5 82/19 82/25	95/19 95/23 96/9 97/4	53/24 56/1 57/7 60/24	double [1] 57/23
64/3	141/24	90/12 91/5 92/15 95/3	98/8 99/16 100/5	63/7 66/1 71/6 71/8	double-check [1]
describe [1] 105/3	DHSC0001511 [1]	97/12 112/10 121/3	102/9 102/12 102/23	72/3 80/22 98/20	57/23
described [5] 72/9	40/9	130/21 133/11 146/22	103/9 105/15 105/21	103/6 108/6 112/2	doubt [22] 8/22 13/8
96/11 107/10 107/11	DHSC0001651 [1]	directors [83] 7/4	106/7 110/6 112/13	116/23 117/6 121/12	21/23 29/9 29/18 41/8
108/9	6/16	12/1 12/2 13/13 15/20	118/21 119/12 119/23	125/12 131/17 133/22	45/14 46/6 53/24
describes [4] 16/21	DHSC0001654 [1] 9/2	21/8 21/12 29/22	121/6 122/9 125/12	135/24 145/17	61/24 63/1 68/21 76/4
70/8 131/20 144/10	DHSC0002209 [1]	29/23 30/13 30/16	131/7 140/24 140/25	documentary [5] 2/13	78/14 80/23 86/23
description [5] 87/4	130/20	37/24 38/22 41/4 47/8	141/3	4/8 80/7 80/8 80/15	89/20 101/14 101/23
88/13 104/9 104/14	DHSC0002227 [1]	47/12 47/25 48/12	discussions [5] 7/20	documentation [4]	136/5 137/20 142/9
140/9	14/20	53/23 54/2 54/7 54/17	11/25 27/10 37/14	23/6 59/12 61/17	doubtful [1] 15/24
designated [1] 58/10	DHSC0002231 [3]	54/25 58/11 61/2 61/2	113/11	112/24	doubtless [1] 32/4
designed [1] 60/1	25/7 49/2 49/4	65/21 68/23 69/8	disease [61] 4/19	documents [26] 6/15	down [43] 3/4 5/1 6/3
desirability [1] 99/22	DHSC0002309 [1]	69/14 75/9 83/5 84/1	4/24 5/6 5/19 8/7 8/11	14/16 18/15 18/16	9/20 24/9 27/19 32/9
desire [1] 116/23	65/8	84/4 94/13 94/19	8/13 8/15 9/6 9/21	61/23 68/18 69/12	35/22 36/24 37/7
detail [8] 45/15 48/18		94/23 96/11 100/11			
89/11 112/9 122/5	DHSC0002482 [1]		9/24 11/5 12/5 13/25	70/1 73/12 78/16	39/15 50/24 51/11
123/7 129/17 145/12	71/7	100/15 100/17 102/3	20/19 22/2 24/7 24/10	83/11 85/13 86/4 86/5	52/7 59/15 62/17 66/8
detailed [3] 85/17	DHSC0003824 [3]	102/4 103/10 103/12	24/12 24/21 25/2	86/16 86/19 93/15	91/11 98/7 99/18
89/7 95/5	23/8 50/13 50/21	103/21 106/25 108/10	29/14 30/9 32/16 37/5	97/6 110/24 112/3	101/5 105/17 105/17
details [7] 10/15	DHSC0100019 [1]	108/11 108/18 108/18	38/1 40/2 42/20 42/21	112/6 112/9 115/13	106/22 109/1 109/14
63/14 88/14 94/8	94/3	109/2 109/4 109/11	51/1 51/8 51/12 51/16	135/22 139/18 143/16	109/22 110/8 114/1
138/16 142/21 142/22	DHSC0100026 [1]	109/19 115/18 116/8	51/18 51/19 56/8	does [11] 24/18 28/13	115/21 119/3 119/14
detect [2] 42/18 76/25	97/9	117/8 117/10 118/13	56/24 57/11 59/4	33/23 37/23 38/8 42/9	120/11 120/12 123/13
detected [1] 89/10		120/5 120/9 120/15	66/13 66/23 70/25	59/15 63/25 73/1	125/3 125/14 129/12
detecting [1] 63/13	20/15 21/4 23/12 25/8	120/19 120/21 120/25	72/11 72/16 77/4	114/19 133/12	130/14 132/3 135/8
determine [3] 3/11	26/17 47/2 63/7	121/10 121/22 123/17	77/23 78/3 78/11 91/8	doesn't [4] 41/7 55/2	140/17 141/2
47/8 137/9	106/16 106/23 108/21	124/13 124/16 126/3	92/2 92/12 92/19	116/17 133/14	Dr [108] 5/2 14/25
develop [2] 39/4	116/11 117/15 118/5	126/8 126/17 127/5	92/23 96/16 98/25	doing [7] 21/14 40/19	15/10 15/13 15/18
80/23	DHSS's [1] 117/20	129/8 131/11 131/11	125/21 125/24 130/2	64/24 121/25 122/13	16/5 16/8 18/19 20/12
	diagnosed [2] 12/20	131/14 136/4 139/12	142/5 144/13 145/3	122/16 136/22	21/17 23/10 23/11
developed [15] 18/1	18/7	143/4 147/1	disorders [3] 48/20	dominated [1] 21/23	24/2 25/13 25/14
18/24 39/24 51/13	diagnosis [3] 15/4	directors' [16] 73/17	83/2 90/5	don't [20] 2/3 2/8 13/6	25/18 26/8 26/9 26/14
56/24 64/7 65/15 89/5	16/14 20/6	94/20 95/22 98/8	dispersed [1] 128/17	22/22 23/5 26/7 43/23	26/14 26/15 26/16
89/7 94/10 95/6 99/5	diagnostic [1] 3/14	99/13 105/12 118/19	disquiet [1] 126/17	48/24 53/19 55/22	26/17 29/20 31/24
120/6 131/23 140/10	Diana [1] 57/16	124/7 124/9 131/8	disseminated [1]	78/15 82/4 82/9 82/11	31/24 31/25 31/25
developing [8] 2/14	did [11] 3/19 20/11	139/2 139/23 141/10	55/21	90/18 94/4 103/9	35/18 35/22 36/22
31/7 98/23 99/7 104/5	29/7 40/18 71/15 79/2	141/25 142/15 143/5	dissuade [1] 70/22	104/23 106/12 122/4	38/15 44/4 44/5 44/5
L	L	I	L	L	(46) domonding D

(46) demanding - Dr

D	Dr Fraser [1] 74/24	drug [10] 5/20 9/8	elsewhere [4] 19/7	especially [6] 3/12	133/9 146/9
Dr [73] 44/5 54/3	Dr Galbraith [6] 15/10		64/21 103/6 123/7	28/4 47/19 104/12	examples [1] 137/18
54/13 56/18 56/18	15/13 18/19 20/12	44/23 51/23 51/25	Elstree [13] 13/1	125/20 142/17	exceeded [1] 117/21
56/19 57/16 57/19	31/24 44/5	144/19	68/24 101/17 111/8	essentially [2] 23/12	exceeds [1] 20/5
57/19 61/6 61/13 62/3	Dr Gibson [1] 26/16	drugs [1] 144/20	111/11 111/16 111/18	105/20	except [1] 92/23
68/9 74/24 74/24 94/5	Dr Gunson [4] 21/17	Drummond [1] 98/9	113/19 119/24 132/19	establish [3] 40/16	exception [2] 22/6
94/5 94/21 97/13	26/14 31/25 44/5	drums [1] 75/3	132/23 133/6 137/11	116/6 116/19	22/7
97/25 98/7 98/9 99/14	Dr Gunson's [2] 26/8	Dudley [1] 41/22	emanating [1] 59/13	established [6] 8/11	excessive [1] 107/4
99/20 100/6 100/15	26/9	due [20] 8/23 13/8	embark [1] 12/25	9/21 10/13 23/24	exchanges [1] 111/12
100/23 101/17 101/19	Dr Harris [1] 25/14	17/12 18/12 25/4 31/6	emerged [2] 48/13	105/25 138/24	exclude [3] 60/1 67/8
101/20 102/5 103/3	Dr Helena [1] 56/18	46/7 47/25 50/2 68/17	76/1	estimates [1] 119/12	67/12
103/10 104/5 104/20	Dr Jeffrey [1] 56/19	74/7 80/4 89/20 90/15	emerges [1] 51/19	et [8] 39/13 39/13	excluded [1] 32/14
105/4 105/13 106/15	Dr Jones [1] 68/9	95/16 99/5 109/18	emerging [1] 48/23	57/3 57/3 71/16	excluding [1] 52/23
106/22 107/1 107/9	Dr Kernoff [1] 131/18	123/21 139/20 149/10	emphasis [1] 103/6	104/19 138/3 138/17	exclusively [3] 4/22
	Dr Lane [2] 118/17	dumping [1] 53/1	emphasise [4] 41/17	et cetera [8] 39/13	56/13 58/10
108/7 108/7 108/15	146/22	during [12] 13/24	41/24 49/12 59/11	39/13 57/3 57/3 71/16	executed [1] 147/14
109/3 111/16 111/22	Dr Mark Winter [1]	86/21 88/20 89/5 91/7	emphasised [1] 100/2	104/19 138/3 138/17	exemption [1] 139/5
117/18 118/17 120/4	148/24	91/9 92/3 98/20 98/25	enclose [2] 134/20	Europe [9] 11/23 26/3	existence [2] 41/8
120/13 120/13 122/4	Dr Maycock [9] 94/5	106/18 127/5 132/20	144/8	27/17 28/17 36/2 36/5	89/4
125/14 125/16 126/9	97/13 98/7 100/6	Dykes [1] 90/6	encloses [2] 60/23	38/4 41/1 146/7	exonerate [1] 11/2
128/22 130/21 131/18	100/23 101/17 106/15		143/22	European [9] 11/17	expansion [1] 88/10
132/14 139/17 140/3	111/16 111/22	Е	enclosing [1] 38/19	11/19 11/20 11/22	expect [3] 18/11
140/6 140/19 141/11	Dr Maycock's [1]	each [5] 19/20 22/7	encourage [1] 55/23	22/5 22/22 28/18	59/12 82/4
141/12 143/20 143/22	101/19	95/3 95/3 95/5	encouraged [1] 54/20	36/20 37/10	expectancy [2] 77/10
145/5 145/12 145/13	Dr Mortimer [2] 31/25	EAGA [2] 69/18 84/12	end [7] 7/8 23/24	evaluating [2] 29/6	87/22
146/22 148/24	44/5	earlier [8] 3/25 12/16	35/14 49/15 50/11	78/20	expectations [1]
Dr A [1] 24/2	Dr Napier [1] 130/21	69/21 87/15 99/16	50/21 133/23	Evatt [1] 35/22	146/19
Dr Aronstam [1]	Dr Richard Tedder [1]	119/5 122/11 134/10	endeavouring [1]	even [9] 5/6 33/20	expected [1] 20/6
132/14	23/10	earliest [3] 18/1 18/5	52/25	47/25 67/9 82/17 98/1	expedite [1] 139/7
Dr Bell [1] 26/15	Dr Rizza [6] 26/14	18/23	ending [3] 14/1 71/19	117/1 127/18 129/24	expediting [1] 109/5
Dr Biggs [3] 94/5	29/20 108/7 126/9	early [12] 6/8 17/5	138/19	evenings [1] 98/3	expenditure [2] 59/19
94/21 108/7	128/22 139/17	43/14 68/11 72/10	England [2] 79/8	event [6] 34/22 55/19	134/25
Dr Biggs' [1] 99/20	Dr Robert [1] 61/13	77/8 88/21 97/4 98/24	83/14	70/5 83/13 111/17	expensive [3] 100/3
Dr Bloom [12] 97/25	Dr Robert Gallo [1]	107/21 135/9 135/23	English [1] 3/24	122/25	109/12 130/19
99/14 100/15 101/20	61/6	ease [2] 102/14	enlarged [1] 122/15	events [2] 82/22	experience [5] 8/15
102/5 103/10 104/20	Dr Savidge [2] 120/13		enough [5] 19/10	131/21	70/24 78/5 96/11
105/4 105/13 107/9	120/13	easier [1] 101/8	70/24 81/19 82/9	eventually [1] 128/4	124/1
108/15 109/3	Dr Scott [1] 57/19	easily [1] 98/3	114/18	ever [2] 97/14 101/2	experienced [1]
Dr Bloom's [2] 103/3	Dr Spence Galbraith	East [1] 24/3	ensure [1] 52/25	ever-increasing [1]	126/24
104/5	<b>[2]</b> 14/25 16/5	easy [1] 15/22	ensuring [1] 20/2	97/14	experiences [1] 85/24
Dr Cash [1] 74/24	Dr. Thomas [4] 122/4	echo [1] 148/3	enterprise [1] 128/2	every [4] 8/14 38/25	expert [8] 44/4 58/12
Dr Chisholm [2] 54/3	Dr Waiter [2] 106/22	economic [2] 68/5	entire [2] 82/18	90/20 94/18	69/17 83/17 84/12
54/13	107/1	147/22	110/22	everything [1] 81/8	86/10 106/15 108/4
Dr Christine Lee [1]	Dr Walford [4] 23/11	editorial [1] 74/10	entirely [2] 111/23	evidence [41] 3/9	expertise [1] 128/16
62/3	25/13 25/18 26/17	effect [1] 97/23	130/24	10/4 10/5 10/9 11/21	experts [5] 4/21 11/12
Dr Collins [1] 117/18	draft [2] 70/4 71/14	effective [1] 64/20	entirety [2] 61/8 86/14		21/19 75/8 108/20
Dr Craske [13] 31/24	drafted [2] 7/25 41/16	effectively [8] 18/18	entitled [1] 47/3	29/6 29/10 30/20 35/5	explain [5] 1/4 24/6
44/4 120/4 125/14	drafts [1] 71/13	43/11 45/10 80/1	entity [2] 142/11	36/16 37/25 41/12	89/17 135/18 144/23
125/16 140/3 140/6	dramatic [1] 77/14	100/18 123/18 128/20	147/6	43/13 44/20 49/13	explained [1] 104/13
140/19 141/11 141/12	draw [7] 21/6 48/17	128/22	entry [3] 56/5 57/7	51/15 52/8 53/6 53/13	explaining [1] 71/15
143/20 143/22 145/5	49/10 72/19 73/13	effects [3] 22/10	146/16	56/16 58/7 62/2 64/1	explains [1] 111/6
Dr Craske's [2]	80/25 117/4	138/2 146/6	enzyme [1] 77/19	67/3 70/14 72/16	explanation [1] 10/7
145/12 145/13	drawing [1] 21/3	efficacy [3] 138/16	epidemic [3] 5/5 5/17	75/24 78/2 80/24	exploitation [1]
Dr Daly [2] 56/18	drawn [4] 4/10 68/25	138/20 147/10	17/12	85/23 86/3 86/6 90/14	147/15
57/19	69/5 85/15	efficiency [1] 138/1	epidemiological [1]	98/21 106/18 114/9	exploratory [1] 108/9
Dr Diana [1] 57/16	dried [18] 30/17 88/3	eg [6] 34/7 36/7 44/16	62/8	138/15 148/24	explore [1] 110/25
Dr Drummond [1]	101/1 101/10 101/16	44/24 109/6 110/10	epidemiology [4]	exactly [1] 107/25	explored [3] 68/17
98/9	102/13 102/20 102/21	eight [2] 119/14 120/2	23/17 32/20 44/7	examine [1] 89/6	69/23 73/11
Dr Evatt [1] 35/22	102/25 104/16 109/24	either [4] 5/22 38/25	144/13	examined [2] 44/10	exploring [2] 73/21
Dr Field [1] 16/8	110/12 110/19 110/20	39/5 42/21	Equally [1] 111/24	61/3	74/7
Dr Foster [1] 35/18	126/18 126/25 130/13	eliminating [1] 44/9	equivalent [1] 93/2	example [7] 5/13 48/5	
Dr Foster's [1] 36/22	130/15	ELISA [1] 76/25	error [1] 18/20	78/17 112/8 113/1	99/9 128/14 136/24
				10/11/12/0 110/1	00/0 120/14 100/24
L	I	L	L	L	L

(47) Dr... - exposed

E	109/16 109/17 110/2	106/14	145/17	formal [3] 134/20	further [34] 3/4 5/1
	111/8 111/11 111/18	facts [4] 71/4 72/9	finally [1] 69/8	138/20 147/18	5/13 6/3 6/9 12/13
exposed [1] 137/2	112/19 113/17 113/19	72/13 72/21	financial [1] 139/10	formalised [1] 111/2	13/5 15/8 18/16 20/9
exposure [8] 10/8	114/13 115/25 116/4	factual [1] 59/8	find [8] 72/3 73/18	formed [1] 69/13	24/9 29/13 37/7 47/25
11/4 32/13 44/17 68/2	116/7 116/20 117/15	fair [2] 42/25 97/24	74/18 105/18 106/8	forms [2] 111/2 123/7	50/9 54/13 56/15 61/3
119/8 125/19 130/17	117/16 120/23 120/25			formulate [1] 31/18	
expressed [7] 41/8		fairly [5] 53/11 71/7	136/19 137/14 141/12		62/17 65/5 68/18
63/4 98/17 116/3	123/15 124/18 124/25	80/2 86/11 135/20	finding [1] 63/23	formulation [1] 8/17	69/11 71/6 71/18
116/8 116/13 126/18	125/6 125/9 125/19	faithful [1] 102/6	finely [1] 34/14	forward [4] 46/20 92/8	I I
expression [1] 127/24		fall [1] 85/11	finish [9] 1/14 1/25	102/1 149/9	111/12 115/13 120/11
expressions [1] 73/8	127/1 127/9 127/20	falling [1] 18/20	2/1 46/10 80/6 80/16	Foster [1] 35/18	131/17 140/17 145/12
extended [1] 83/8	128/1 128/6 129/19	families [2] 58/25	81/24 82/4 82/9	Foster's [1] 36/22	148/8
extensive [2] 93/23	130/3 131/4 131/10	86/6	finished [1] 2/12	found [6] 22/8 65/12	Furthermore [1] 78/5
121/6	132/19 132/24 134/4	family [1] 61/15	finishes [1] 60/22	105/6 111/7 112/13	future [5] 3/10 46/2
extent [6] 18/22 19/13	134/11 134/21 136/7	far [11] 10/13 29/25	finishing [1] 81/21	144/21	128/12 136/18 137/25
97/6 98/22 112/24	136/7 137/9 140/13	38/3 44/20 52/23	Finsberg [1] 7/12	four [10] 3/25 6/8 13/2	0
	142/4 142/5 142/8	63/25 70/10 86/18	firm [1] 124/17	18/10 51/17 123/13	G
136/20	143/2 145/1 145/4	86/19 136/10 142/8	firms [1] 140/21	125/14 129/12 130/14	gained [2] 6/5 7/14
extra [1] 48/6	145/21 146/1 146/3	fast [3] 72/13 72/21	first [40] 5/18 14/11	136/5	Galbraith [8] 14/25
extract [4] 2/13 75/14	146/8 146/17	75/5	21/6 24/4 27/4 27/4	fourth [4] 92/1 93/4	15/10 15/13 16/5
104/3 107/8	Factor IX [6] 77/20	fatality [2] 53/17	28/22 32/2 37/8 53/16	99/15 146/3	18/19 20/12 31/24
extracts [3] 121/9	93/9 93/11 96/18 99/1	71/24	56/12 59/1 69/15	fractionation [9]	44/5
121/13 121/15	136/7	favour [3] 9/14 48/15	69/16 72/9 72/10	62/21 108/20 109/10	Gallo [2] 61/6 61/13
extremely [1] 85/7	Factor VIII [112] 9/17	113/24	72/25 73/1 74/15	127/15 128/10 128/13	galloped [1] 80/2
eye [4] 107/19 107/24	10/8 11/2 11/7 11/11	favourable [1] 96/17	75/16 78/7 79/23	128/16 128/18 137/10	gather [1] 48/11
143/7 143/12	11/14 14/23 15/13	FDA [6] 20/24 52/21	85/20 86/17 86/23	Franciscan [1] 6/6	gathered [1] 86/24
C	15/21 16/13 16/18		88/1 90/22 94/1 94/1		gave [2] 13/25 94/21
<u>F</u>	17/22 19/17 20/10	59/18 59/25 60/5 74/5 feasible [2] 45/8	114/17 114/17 125/18	Francisco [4] 3/22 6/10 20/4 38/11	Gay [1] 43/4
faced [1] 122/13	25/25 32/10 32/22	45/19	127/10 129/17 135/6	Fraser [1] 74/24	general [11] 30/6
facilities [3] 87/5	33/13 36/16 38/6	featured [1] 98/23	135/15 140/8 140/12	free [6] 11/20 20/2	34/24 35/4 35/13
87/14 89/13	39/25 40/2 52/14 53/6		141/9 148/23	62/4 64/9 131/19	36/23 49/6 95/25 96/5
facility [1] 88/11	54/5 56/9 56/12 57/2	74/3 104/4 132/16	first-time [2] 140/8	140/20	100/16 119/20 126/24
fact [12] 14/13 20/11	58/4 58/9 59/23 64/3		140/12		generally [6] 36/15
26/10 46/8 99/8		February 1975 [1] 104/4	1	freely [1] 103/1	38/13 61/19 96/14
102/24 105/6 108/5	66/3 67/10 67/18		firstly [2] 49/12 82/23	freeze [18] 30/17 88/3	
116/18 129/2 143/3	67/25 68/1 68/3 71/23	February 1980 [1]	fit [2] 57/23 133/14	101/1 101/10 101/16	102/17 127/16
148/5	74/12 74/15 75/24	132/16	fits [4] 13/19 16/14	102/13 102/20 102/21	generated [1] 61/1
factor [142] 5/8 9/9	77/20 89/9 91/7 91/14		17/20 21/13	102/25 104/16 109/24	genes [1] 89/10
9/17 10/8 10/21 11/2	91/17 91/18 92/6	35/14 35/20 84/22	five [5] 94/9 110/1	110/12 110/19 110/20	genetic [2] 89/8 89/9
11/7 11/11 11/14	92/24 93/3 95/20	feeding [1] 48/19	115/20 132/3 144/15	126/18 126/25 130/13	Geneva [1] 16/11
14/23 15/8 15/13	96/15 96/20 100/8	feel [4] 38/23 65/22	flagged [1] 98/12	130/15	gentleman [1] 113/10
15/21 16/13 16/18	107/3 107/18 107/23	88/23 128/12	flags [1] 118/10	freeze-dried [16]	gentlemen [1] 81/11
17/22 19/17 20/10	109/5 109/13 109/16	feeling [2] 75/3 118/3		30/17 88/3 101/10	George [1] 128/24
22/12 25/25 28/3	109/17 110/2 111/8	fell [1] 57/2	87/13 112/6 113/11		Georgia [1] 144/14
28/25 31/4 32/10	111/11 111/18 112/19		fluctuating [2] 116/5		German [1] 66/15
32/22 32/23 33/7	113/17 113/19 114/13		116/18	110/12 110/19 110/20	Germany [2] 15/24
33/13 33/13 36/16	115/25 116/4 116/7	40/18 54/9 64/19 96/1	focus [2] 13/19 136/1	126/18 126/25 130/13	36/7
38/6 39/25 40/2 44/15	116/20 117/15 117/16	96/14 96/25 102/17	follow [3] 19/7 116/17	130/15	get [14] 23/2 24/10
44/19 45/6 52/4 52/14	120/23 120/25 123/15	102/19 114/20 125/16		frequent [4] 19/20	29/17 34/18 54/16
52/18 53/6 54/5 56/9	124/18 124/25 125/6	few [13] 4/7 6/5 35/22		88/20 96/22 114/5	76/15 79/17 91/11
56/12 57/2 58/4 58/9	125/9 125/25 126/22	39/17 41/17 53/15	following [13] 2/3	fresh [1] 93/12	98/3 100/21 112/6
59/23 64/3 66/3 67/4	127/1 127/9 127/20	56/11 57/25 64/20	13/14 15/1 29/22 44/3	Friday [3] 148/22	114/3 114/24 134/22
67/5 67/10 67/18	128/1 128/6 129/19	101/5 109/14 137/7	44/11 55/25 82/10	149/2 149/3	getting [3] 25/3 54/14
67/25 68/1 68/3 71/23	130/3 131/4 131/10	138/5	111/7 111/18 113/21	from [272]	97/24
74/12 74/15 75/24	132/19 132/24 134/4	field [3] 16/8 58/12	131/21 140/15	fronts [1] 78/12	Gibson [1] 26/16
77/9 77/20 77/20 89/9	134/21 136/7 137/9	146/16	follows [1] 67/2	frozen [3] 93/12	give [12] 28/13 42/5
89/10 91/7 91/14	140/13 142/4 142/5	fifth [2] 24/13 120/20	forecast [2] 123/19	129/22 130/6	42/12 42/20 59/6 76/8
91/17 91/18 92/6	142/8 143/2 145/1	figure [2] 127/6	127/6	full [5] 60/21 81/8	83/15 90/15 90/20
92/24 93/3 93/9 93/11	145/4 145/21 146/1	129/18	foreign [1] 126/22	95/6 114/14 121/12	94/24 101/8 121/5
95/20 96/15 96/18	146/3 146/8 146/17	figures [8] 50/25 65/3		fully [1] 147/12	given [23] 3/16 18/13
	factors [8] 24/23	71/4 92/21 92/25 93/5	129/14	function [4] 107/19	22/12 26/6 26/11 32/2
96/20 99/1 100/8	32/10 44/8 89/6 96/13	94/24 117/24	form [7] 7/1 10/24	107/25 122/15 123/6	38/12 44/6 46/2 50/9
107/3 107/18 107/23	106/14 129/15 144/20			funded [1] 118/12	56/11 57/1 58/3 61/18
109/5 109/8 109/13	Factors VIII and IX [1]		136/17	funding [1] 118/11	63/14 64/8 65/12

(48) exposed... - given

C	93/25 107/6 118/16	14/8 15/18 16/12 18/7	141/9 141/25 142/15	39/22	94/11
G	128/25 129/17 136/1	18/13 21/1 21/18 22/8	141/9 141/25 142/15	39/22 happens [1] 106/11	94/11 HCDO0001015 [1]
given [6] 77/10	gone [2] 5/11 46/9	23/18 24/24 40/15	147/5 147/15 147/18	happily [1] 147/7	99/11
79/13 95/5 104/9	good [8] 77/10 88/23	41/4 42/11 54/17	147/20 148/23	Hardisty [2] 72/5	HCDO0001016 [1]
145/14 148/12	97/22 99/23 100/10	56/12 63/20 65/14	haemophiliac [31]	72/20	101/25
gives [9] 70/15 74/3 87/13 94/8 104/4	100/12 101/4 124/18	71/22 71/24 75/23	11/6 15/3 15/9 15/11	Harold [1] 87/21	HCDO0001019 [1]
113/11 123/24 137/18	GOSCH [1] 72/6	79/4 85/8 90/4 96/3	16/12 18/6 24/23	Harris [1] 25/14	105/10
147/3	got [3] 73/2 121/12	97/22 97/24 104/20	36/18 37/8 53/17 56/7	has [69] 4/19 5/21	HCV [3] 78/18 79/22
giving [3] 40/21 141/5	141/11	104/21 105/4 106/15	56/23 62/6 63/17	7/15 8/5 8/20 10/10	79/23
148/24	governing [1] 52/21	107/10 117/20 118/3	63/18 64/1 66/10	10/20 10/20 11/6	he [106] 14/8 15/7
Glasgow [2] 121/10	Government [3] 12/15 59/7 124/20	118/5 118/8 118/15 120/4 120/23 120/25	67/23 72/7 72/10	11/19 14/4 15/7 15/7	15/7 15/19 16/23
126/16	Government's [1]	120/4 120/23 120/25	72/25 96/20 105/22 106/5 107/2 107/22	17/3 22/2 24/5 24/10 24/17 25/13 28/6	17/16 18/8 18/22 18/23 19/2 19/4 19/5
Glenarthur [6] 40/13	49/16	140/10 140/20 141/19	119/17 120/17 121/18	29/25 36/18 38/20	19/7 19/9 19/9 19/11
41/20 41/23 49/10	Governments [1]	145/2 145/3	125/18 142/18	39/16 47/21 47/23	19/16 19/23 20/4
53/12 58/21	27/25	haematogenous [1]	haemophiliacs [63]	48/11 57/11 58/3	21/11 21/13 21/22
<b>go [100]</b> 3/3 5/1 5/23 6/13 7/24 9/20 9/25	grateful [3] 65/2 134/5		2/16 5/9 5/20 5/25 8/8	58/12 59/4 60/4 60/5	22/1 23/14 24/3 41/16
16/3 17/9 18/22 20/12	139/14	haematologist [1]	9/8 10/6 10/12 10/14	62/7 64/17 65/15	41/17 49/16 54/9
25/16 26/18 27/7	grave [1] 125/8	107/10	11/14 16/17 16/20	66/22 68/12 70/24	56/12 64/17 64/18
27/19 27/23 32/9	great [5] 11/7 48/2	haematologists [3]	24/14 24/25 25/24	73/2 73/3 73/4 77/10	72/6 72/8 73/1 73/2
32/22 35/1 35/17	62/13 119/7 134/21	17/6 124/1 126/25	28/8 31/8 35/24 36/1	77/14 80/17 85/16	73/3 73/4 75/7 82/20
36/12 37/7 37/19	greater [4] 11/14 26/1	haematology [4]	36/25 37/4 40/23	89/4 89/15 92/13	82/21 82/24 82/25
37/22 42/7 45/15	128/22 133/2 greatest [4] 32/25	21/20 84/16 84/19 88/2	41/24 51/10 52/1 52/3 52/11 52/13 53/10	97/22 98/25 99/5 99/8 99/9 104/7 107/17	83/9 83/11 83/15 83/16 83/20 83/22
46/18 50/7 50/20	44/21 52/3 52/12	haemophilia [134]	58/25 62/13 62/20	114/13 122/14 123/4	83/25 84/2 84/3 84/3
50/24 52/7 52/10	greatly [2] 71/20	1/11 4/25 7/4 7/5 7/6	65/22 66/12 66/14	123/16 127/17 128/16	84/6 84/8 84/10 84/12
54/20 56/21 58/17	135/3	7/23 11/12 12/2 12/5	66/15 66/16 66/18	135/24 137/16 142/18	84/15 84/18 84/19
61/8 62/1 62/17 63/5	gross [1] 146/2	13/13 13/15 14/5	66/22 68/14 71/22	143/24 145/1 146/6	84/24 85/1 85/8 86/10
63/6 63/15 65/8 65/25 66/6 66/7 66/24 68/6	grounds [3] 34/2 45/8	14/12 21/8 21/12	72/15 75/21 77/7	147/2	90/15 99/8 100/23
69/12 70/7 71/14	45/19	22/13 29/22 30/8	77/22 78/12 97/16	have [201]	101/5 101/20 102/6
73/12 76/9 85/14	group [19] 35/24	30/25 34/6 34/8 34/24	97/20 101/22 113/15	haven't [4] 28/15	104/6 105/5 105/7
86/13 87/10 88/14	61/14 64/1 65/2 66/2	35/7 35/14 35/20 36/9	122/1 125/23 129/25	105/16 130/25 143/16	107/9 107/10 107/14
89/18 91/11 91/21	69/14 69/17 69/18	36/10 36/14 39/24	130/2 132/5 132/10	having [6] 20/25 25/9	107/17 107/18 108/4
91/25 92/21 93/4	83/17 83/18 84/5	45/3 52/19 53/23 54/1	135/16 141/21 142/3	56/24 106/25 123/2	112/16 113/25 114/6
94/16 95/18 96/7 97/5	84/13 84/25 85/3 89/3 106/15 106/17 108/4	54/25 55/22 58/11 61/2 61/22 62/25	144/16 145/2 145/7 147/23	136/13 <b>Haye [1]</b> 73/20	114/7 114/13 115/21 118/3 118/3 118/5
99/15 99/25 102/8	144/9	65/21 68/10 68/23	haemophilic [6] 30/5	hazard [1] 27/21	118/11 118/15 119/18
103/8 104/2 105/23	groups [14] 9/7 28/12	69/7 69/14 72/6 72/14	91/6 95/13 126/19	hazards [3] 28/8 29/3	120/19 123/3 123/14
106/6 106/21 108/8	42/4 51/6 52/24 60/2	72/22 73/16 77/4 78/3	131/22 141/7	77/11	123/24 124/4 124/16
108/14 113/8 115/24 117/5 117/12 118/20	60/10 63/25 67/23	82/3 82/7 82/20 83/4	haemotherapy [1]	HCDO0000072 [2]	124/23 127/14 131/20
118/25 119/13 120/1	69/13 70/22 83/11	83/7 83/9 83/18 83/20	28/9	90/24 110/25	134/1 144/4 144/5
120/10 121/14 122/8	83/15 85/5	83/23 83/25 84/4	Haitian [1] 9/8	HCDO0000252 [1]	144/14 149/1 149/3
123/9 124/6 124/11	growing [1] 27/20	84/20 84/22 85/8	half [4] 81/19 94/1	135/19	he'd [1] 140/19
125/11 128/25 129/5	guarantee [2] 64/8	85/25 87/8 87/12	95/20 117/14	HCDO0000270 [2]	he'll [2] 115/22 141/12
132/1 140/4 140/17	136/17	87/16 87/23 88/7 89/3	half-an-hour [1] 81/19		he's [3] 110/14 121/3
140/24 141/16 146/20	guaranteed [1] 113/7 Guardian [8] 6/13	90/12 91/2 91/22 92/11 92/11 92/13	halfway [3] 99/18 119/3 120/11	HCDO0000274 [1] 131/18	141/11 headed [4] 6/18 23/25
147/9	53/16 56/4 56/6 57/4	92/16 92/18 93/6 93/7	hand [7] 5/18 11/5	HCDO0000279 [1]	87/11 145/19
goes [12] 19/2 19/16	57/22 63/9 72/4	93/24 94/6 94/13	37/22 38/25 58/1	87/6	heading [29] 9/5 14/2
30/24 33/5 45/10	guidance [2] 40/24	94/18 95/22 97/15	77/25 103/15	HCDO0000349 [1]	14/24 21/21 26/19
49/17 59/6 62/17	121/5	99/12 100/17 102/3	handful [3] 51/13	92/9	32/1 32/7 32/9 37/20
77/24 124/4 127/14 140/25	guidelines [1] 69/5	104/7 105/12 106/19	68/24 89/14	HCDO0000394 [2]	43/2 51/12 52/7 52/11
going [32] 1/12 6/14	Gunson [5] 15/18	108/4 108/6 108/10	handing [1] 39/5	69/3 126/11	63/16 66/6 66/25
13/17 15/21 21/10	21/17 26/14 31/25	108/17 109/3 109/11	handled [1] 40/18	HCDO0000400 [1]	70/20 95/10 96/8
29/12 34/9 34/10	44/5	109/18 117/7 119/2	handling [1] 98/4	115/16	108/25 115/25 117/14
34/20 39/15 43/21	Gunson's [2] 26/8	120/8 120/15 120/20	handwritten [6] 50/15		119/1 119/22 129/11
50/7 59/10 60/11		121/22 123/17 124/7	56/4 57/6 57/21 58/16	118/24	129/21 146/20 146/23
61/24 68/19 73/12	Н	126/8 126/17 126/20 127/3 127/4 129/7	58/19 Hansard [1] 75/14	HCDO0000410 [1] 139/24	147/10 health [34] 6/15 10/25
73/13 73/23 78/24	H-S VIII [1] 147/2	129/16 131/5 131/8	happen [1] 20/11	HCDO0000557 [1]	14/16 14/18 14/18
79/6 85/12 85/19	had [54] 2/7 2/8 2/12	131/10 131/14 134/5	happened [1] 92/13	143/19	16/1 16/8 26/16 27/21
85/22 87/3 89/18	4/2 10/23 12/15 14/8	136/3 139/2 139/12	happening [2] 21/14	HCDO0001014 [1]	28/8 29/3 40/8 40/12
					(49) given - health

(49) given... - health

H	122/23 123/9 124/6	high [17] 9/22 19/18	132/22 145/14	I hope [5] 68/17 80/17	80/2 83/25 121/12
	129/6 132/2 133/19	22/3 33/2 33/4 44/23	however [11] 5/19	87/7 101/21 106/8	i.e [4] 23/15 33/14
health [21] 57/7	138/12 139/24 140/2	44/25 52/23 53/1 60/1		I just [2] 72/19 129/20	37/6 47/14
57/17 66/2 68/12	143/19	60/10 63/22 70/22		look [2] 46/20 149/9	lan [2] 16/10 75/1
69/19 70/9 71/10					
75/10 77/10 83/19	hepatic [2] 132/4	101/7 108/13 114/20		I may [3] 26/6 26/7	iceberg [1] 37/12
108/22 108/23 114/19	132/9	123/5	HS [2] 147/10 147/13	75/5	idea [4] 104/4 114/24
117/17 118/9 124/5	hepatitis [86] 23/18	high-risk [4] 52/23	HS materials [1]	I might [1] 26/10	124/17 124/18
124/15 124/24 125/5	30/11 31/4 46/3 47/16	53/1 60/1 60/10	147/13	I move [1] 46/9	ideal [2] 101/23
	64/25 65/3 73/15	higher [2] 47/17 127/1	HS VIII [1] 147/10	I need [1] 78/15	103/20
125/8 129/2	73/17 73/24 74/6	highly [2] 38/10 56/14		I note [1] 101/6	identification [2]
healthy [2] 3/19 19/24	74/14 74/21 74/23	him [5] 15/17 15/18	HSOC0010549 [1]	I paraded [1] 64/21	53/10 96/5
hear [3] 29/10 63/1	75/2 76/6 76/7 76/17	23/5 114/9 122/22		I prepared [1] 144/8	identified [7] 9/10
91/2	76/20 76/23 77/15	hinder [1] 137/24		I say [6] 46/6 58/15	20/20 21/1 72/18
heard [4] 29/7 80/24					
85/23 86/3	77/18 78/6 79/19	his [22] 17/9 17/10	61/16 61/19 63/13	86/19 90/9 107/21	91/23 144/16 145/7
hearing [1] 81/21	80/13 80/13 84/2 94/7	17/16 20/8 64/16 83/3	63/17 64/18 65/13	135/18	identify [2] 43/11
hearings [3] 61/4 80/5	94/10 95/1 95/10	83/4 83/8 85/6 100/23	HTLV-I [1] 61/15	I see [1] 60/13	67/23
86/21	98/12 98/23 99/6 99/7	104/19 106/18 107/19	HTLV-III [6] 61/16	I set [1] 17/4	identifying [3] 19/11
	104/13 104/18 104/20	107/24 110/21 113/10	61/19 63/13 63/17	I should [6] 1/4 43/13	100/19 111/20
hears [1] 90/14	104/21 104/21 105/3	114/12 114/16 116/25	64/18 65/13	49/12 59/11 142/21	if [177]
heart [1] 37/5	105/6 105/25 106/5	123/25 126/3 131/24	hugely [2] 82/21	146/21	ignored [1] 132/5
heat [13] 53/5 62/24	107/15 107/16 107/22	Hitherto [1] 56/12	133/2	I summarise [1] 35/19	
66/3 66/4 67/4 67/9	111/2 111/10 111/17	HIV [3] 61/18 77/13	human [7] 61/11 64/3		<b>III [6]</b> 61/16 61/19
67/20 67/24 68/15	113/22 118/22 119/22	86/10	112/19 113/17 114/13	133/13	63/13 63/17 64/18
71/25 73/9 73/10			134/21 136/19		
136/11	120/6 120/7 121/18	hoc [1] 66/2		I think [29] 2/21 22/25	
heat-treated [4] 66/3	121/25 123/7 125/13	home [32] 26/15	humans [1] 148/1	23/23 26/6 28/19	ill [4] 3/1 3/20 15/7
67/9 67/24 68/15	125/18 125/20 126/4	48/14 54/8 54/21 88/4	Hyate:C [1] 135/4	34/19 38/11 54/3 57/4	57/2
heavily [1] 47/13	129/21 130/5 130/9	88/18 88/23 92/24	Hyland [5] 20/17	57/24 69/25 71/7 72/2	
Heightened [1] 44/15	130/17 136/9 137/5	93/2 93/10 96/8 96/12	20/25 21/2 36/21	80/9 81/18 87/10 92/7	immediate [1] 7/18
	137/16 137/21 139/1	97/7 99/17 99/22	146/11	97/22 99/9 112/3	immediately [1] 14/15
held [3] 29/23 68/24	140/1 140/4 140/5	103/9 103/17 103/17	hypothesis [1] 144/23	115/5 121/11 122/19	immense [1] 30/21
121/9	140/11 140/15 140/20	103/20 103/22 104/8		123/10 130/25 133/2	immigrants [1] 9/8
Helena [1] 56/18	141/2 141/4 141/6	108/22 110/12 110/13			
help [7] 31/17 112/17	141/6 144/9 145/21	120/17 120/23 121/1	l am [13] 1/6 13/17	I understand [6] 1/17	14/4 21/21 25/5 25/21
114/11 118/13 118/15	146/17 147/17 147/20	123/22 124/3 127/17	23/6 36/4 38/19 43/21	24/2 55/21 57/22 99/3	58/8
125/17 135/3	1		59/10 68/19 85/19	131/3	
helped [1] 44/3	hepatitis B [8] 23/18	132/18 133/14			immuno [9] 3/13
helper [1] 14/9	46/3 95/1 104/21	homosexual [5] 9/7	87/3 107/6 142/2	I want [3] 20/16 56/1	21/20 36/19 36/21
helper/suppressor [1]	105/3 107/16 107/22	10/3 42/10 51/21	143/8	133/23	113/24 141/23 142/1
14/14	136/9	144/18	I anticipate [1] 148/20		142/7 142/20
14/9	136/9 hepatitis B-free [1]	144/18 homosexuality [1]	I anticipate [1] 148/20 I appreciate [1] 42/1	I wanted [1] 80/6 I was [1] 8/1	
helpful [3] 7/12 35/18			l appreciate [1] 42/1		142/7 142/20
helpful [3] 7/12 35/18 97/1	hepatitis B-free [1] 140/20	homosexuality [1] 47/17	I appreciate [1] 42/1 I ask [1] 13/14	I was [1] 8/1 I will [11] 1/9 23/2	142/7 142/20 immuno-haematology [1] 21/20
helpful [3] 7/12 35/18 97/1 helps [1] 86/6	hepatitis B-free [1] 140/20 hepatitis-associated	homosexuality [1] 47/17 homosexuals [7]	l appreciate [1] 42/1 l ask [1] 13/14 l assured [1] 15/17	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4]	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4]
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1]	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1]	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1]
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1]	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1]	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 13/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1]
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1] 31/10
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1]
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2 94/11 95/18 97/9 99/11 99/15 100/20	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24 111/1 113/4 130/21	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hopef [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19 hours [1] 113/7	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 13/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17 16/24 45/14 53/24	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11 85/12 85/22 89/17	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1] 78/22
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2 94/11 95/18 97/9 99/11 99/15 100/20 101/25 102/8 105/23	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24 111/1 113/4 130/21 131/6 133/15 133/18	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hopef [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19 hours [1] 113/7 how [13] 37/23 40/7	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17 16/24 45/14 53/24 71/12 75/3 78/25 79/1	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11 85/12 85/22 89/17 92/12 93/25 106/3	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1] 78/22 implications [2] 25/19
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2 94/11 95/18 97/9 99/11 99/15 100/20 101/25 102/8 105/23 106/3 108/14 115/16	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24 111/1 113/4 130/21 131/6 133/15 133/18 134/15 148/3 148/24	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hopef [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19 hours [1] 113/7 how [13] 37/23 40/7 40/16 41/17 42/16	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17 16/24 45/14 53/24 71/12 75/3 78/25 79/1 81/8 101/9 134/24	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11 85/12 85/22 89/17 92/12 93/25 106/3 128/25 133/22 134/3	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1] 78/22 implications [2] 25/19 145/19
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2 94/11 95/18 97/9 99/11 99/15 100/20 101/25 102/8 105/23 106/3 108/14 115/16 115/24 117/6 117/12	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24 111/1 113/4 130/21 131/6 133/15 133/18 134/15 148/3 148/24 heterosexual [2]	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19 hours [1] 113/7 how [13] 37/23 40/7 40/16 41/17 42/16 47/8 71/15 93/15	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17 16/24 45/14 53/24 71/12 75/3 78/25 79/1 81/8 101/9 134/24 I haven't [2] 28/15	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11 85/12 85/22 89/17 92/12 93/25 106/3 128/25 133/22 134/3 136/1 139/18 148/11	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impart [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1] 78/22 implications [2] 25/19 145/19 import [1] 109/12
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2 94/11 95/18 97/9 99/11 99/15 100/20 101/25 102/8 105/23 106/3 108/14 115/16	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24 111/1 113/4 130/21 131/6 133/15 133/18 134/15 148/3 148/24	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19 hours [1] 113/7 how [13] 37/23 40/7 40/16 41/17 42/16	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17 16/24 45/14 53/24 71/12 75/3 78/25 79/1 81/8 101/9 134/24	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11 85/12 85/22 89/17 92/12 93/25 106/3 128/25 133/22 134/3	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impact [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1] 78/22 implications [2] 25/19 145/19
helpful [3] 7/12 35/18 97/1 helps [1] 86/6 Hemofil [4] 91/19 111/5 113/18 146/11 Henry [71] 2/19 3/3 4/14 5/2 5/15 6/4 6/16 9/2 13/5 13/21 14/20 16/4 21/16 23/8 23/21 25/6 25/16 26/5 27/1 27/16 27/24 31/13 33/10 34/25 39/9 47/1 49/3 50/12 50/20 55/24 62/18 63/15 69/2 70/2 75/13 80/14 87/6 87/10 90/23 91/25 92/9 93/5 94/2 94/11 95/18 97/9 99/11 99/15 100/20 101/25 102/8 105/23 106/3 108/14 115/16 115/24 117/6 117/12	hepatitis B-free [1] 140/20 hepatitis-associated [1] 107/15 hepatitis-safe [4] 137/21 145/21 146/17 147/17 hepatitis-self [1] 147/20 hepatocellular [1] 78/7 her [3] 54/14 63/3 94/25 here [30] 1/5 9/3 18/19 31/9 35/2 43/24 46/21 48/21 50/3 60/8 60/11 74/19 92/1 92/9 93/5 97/21 98/4 99/17 100/21 103/10 106/24 111/1 113/4 130/21 131/6 133/15 133/18 134/15 148/3 148/24 heterosexual [2]	homosexuality [1] 47/17 homosexuals [7] 12/20 19/19 33/1 44/22 51/4 51/5 71/20 Honourable [1] 126/13 hope [7] 68/17 80/17 87/7 101/21 106/8 137/22 139/7 hoped [1] 107/2 hopefully [1] 105/18 hospital [9] 4/23 5/3 23/11 63/11 87/24 92/24 93/2 93/10 120/14 hospitals [2] 4/16 58/3 hour [2] 46/18 81/19 hours [1] 113/7 how [13] 37/23 40/7 40/16 41/17 42/16 47/8 71/15 93/15	I appreciate [1] 42/1 I ask [1] 13/14 I assured [1] 15/17 I attach [1] 6/24 I believe [1] 134/23 I can [3] 49/1 53/19 58/24 I can't [1] 74/18 I come [1] 81/9 I do [2] 73/13 142/14 I don't [4] 48/24 78/15 82/4 122/4 I doubt [1] 101/23 I draw [3] 21/6 48/17 49/10 I enclose [2] 134/20 144/8 I found [1] 112/13 I have [11] 16/17 16/24 45/14 53/24 71/12 75/3 78/25 79/1 81/8 101/9 134/24 I haven't [2] 28/15	I was [1] 8/1 I will [11] 1/9 23/2 57/23 76/8 82/3 86/8 86/14 86/17 106/8 106/9 135/8 I won't [9] 6/13 45/15 56/21 61/8 79/6 88/14 92/21 118/19 141/16 I would [4] 65/2 75/6 101/7 134/5 I wrote [1] 144/12 I'll [10] 85/14 89/1 89/17 105/17 108/5 121/11 123/1 135/17 135/18 135/21 I'm [25] 7/2 21/9 43/10 48/24 50/7 63/20 65/7 73/12 73/13 73/18 73/23 74/18 75/11 85/12 85/22 89/17 92/12 93/25 106/3 128/25 133/22 134/3 136/1 139/18 148/11	142/7 142/20 immuno-haematology [1] 21/20 immuno-suppressed [1] 3/13 immunodeficiency [4] 2/23 66/7 142/12 143/8 immunological [1] 44/16 immunologist [1] 5/3 immunosuppressant [1] 144/20 immunosuppression [1] 14/10 impart [1] 121/18 impaired [1] 25/4 implemented [1] 31/10 implementing [1] 78/22 implications [2] 25/19 145/19 import [1] 109/12

(50) health... - importance

	1				
	increasingly [3] 78/4	119/10 120/5 141/12	intimate [1] 32/18	it's [109] 2/22 6/17	148/6
	98/15 125/9	142/17 142/21 144/10	into [23] 2/5 7/10	6/18 13/25 16/7 16/8	January 1972 [1]
importance [1]	incubation [6] 11/3	144/15	12/16 13/20 18/20	21/5 23/16 23/24	98/22
27/20	18/9 19/3 37/9 51/16	informed [1] 37/14	21/13 32/19 37/13	23/25 24/2 26/8 30/25	January 1974 [2]
important [15] 2/6 8/4	144/25	infusion [1] 77/21	47/25 48/19 59/2 68/4	31/16 33/15 34/19	102/1 103/3
20/16 28/4 44/15	incurable [1] 5/6	Ingram [1] 116/10	85/11 107/9 110/11	37/18 37/19 39/7	January 1978 [1]
70/23 73/6 77/23 78/3	indeed [7] 18/4 18/15	inhibitor [2] 112/22	112/18 123/25 124/24	42/23 47/2 47/3 47/5	120/21
79/7 128/14 134/11	31/8 87/3 89/20 93/23	135/7	127/19 129/17 136/15	47/7 49/6 53/22 53/24	January 1982 [1]
136/19 137/14 138/21	131/13	inhibitors [2] 110/11	144/13 148/8	55/1 56/23 57/16 61/9	147/25
importantly [1] 82/24	independent [1]	113/17	intravenous [1] 51/25	62/3 63/7 64/12 65/9	January 1983 [2] 84/3
importation [1] 46/14	131/4	initial [2] 77/8 136/14	introduce [4] 53/5	68/8 69/4 69/6 70/6	148/6
imported [8] 4/17	indicate [5] 7/6 17/25	initiated [2] 59/18	74/8 79/19 136/6	71/8 71/8 71/9 75/18	January 1985 [4]
20/10 30/15 30/20	51/15 102/24 123/20	100/5	introduced [3] 79/2	76/9 79/9 80/7 80/8	69/12 69/22 84/5
52/20 56/9 58/4 133/3	indicated [1] 32/4	injecting [1] 136/15	138/4 146/6	80/14 82/13 85/17	84/14
importing [1] 12/10	indicating [1] 38/1	injection [1] 100/18	introducing [1] 73/7	85/17 86/12 87/10	jaundice [9] 94/17
imports [5] 11/10	indications [2] 25/21	injections [1] 43/5	introduction [12]	87/15 90/23 90/25	94/22 95/6 99/5
11/13 59/16 59/22	127/18		32/19 69/24 70/13		105/21 110/25 111/3
59/24		injunction [1] 43/8	71/5 76/13 77/8 79/10	93/9 93/19 94/4 94/5	105/21 110/25 111/3
impossible [1] 33/19	individual [4] 35/9	Inquiry [5] 82/5 82/22		94/6 95/15 97/11	
Impracticable [1] 34/2	120/19 121/3 139/6	86/25 89/15 90/14	79/16 80/19 109/15	98/21 98/22 99/20	jaundiced [1] 111/7
impression [2] 36/22	individuals [o] SFT	Inquiry's [1] 61/4	137/20 145/21	100/23 104/11 105/5	Jeffrey [1] 56/19
36/23	17/24 29/7 51/6 62/2	insight [3] 37/13	invention [1] 87/17	105/20 107/9 108/16	Jenkin [1] 126/13
improved [1] 96/3	66/9 85/23 94/9	107/9 123/25	investigate [1] 114/23		Jenkins [1] 49/7
improvements [1]	induced [1] 44/16	insights [1] 133/10	investigating [1]	112/8 112/10 114/17	Jennifer [1] 89/22
62/20	inevitable [2] 40/17	insignificant [1] 133/8		117/1 117/19 117/22	JEVA0000001 [1]
improving [2] 103/19	71/12	Institute [2] 63/10	investigations [1]	118/8 118/24 119/3	121/14
128/9	inexhaustible [1]	97/13	144/22	119/18 119/20 120/3	JEVA0000002 [1]
in 1963 [1] 87/19	107/3	instituted [1] 52/21	investment [1] 128/22		122/8
in-patients [1] 3/13	infant [2] 2/23 2/25	instruction [1] 104/9	invite [1] 81/1	127/16 130/24 131/18	JEVA0000003 [1]
inactivate [1] 62/22	infants [1] 3/13	instructions [1] 12/3	invited [4] 31/23	133/13 133/13 133/17	122/24
inactivation [1] 46/1	infected [5] 5/24	instructive [4] 39/8	108/3 108/20 108/23	133/20 133/21 134/17	jigsaw [2] 115/14
inadequate [2] 88/4	24/16 24/22 70/25	75/18 80/10 101/18	inviting [1] 75/8	135/19 135/20 135/20	133/16
125/9	76/24	insufficiency [1]	involve [1] 33/21	136/3 137/14 139/16	join [2] 84/3 108/3
inception [1] 84/5	infection [13] 15/5	107/1	involved [4] 65/22	142/25 145/19 146/16	
incidence [16] 3/11	38/7 38/9 40/22 65/14	insufficient [5] 30/19	83/9 103/10 141/19	148/4	joint [3] 49/9 102/3
18/17 22/4 33/3 44/7	70/14 71/3 75/22	35/5 41/12 100/19	involving [1] 143/25	item [3] 25/15 56/6	129/7
44/24 47/17 62/15	75/25 77/15 78/8	139/11	IPSN0000334 [4]	94/21	joints [1] 110/11
63/4 94/17 94/22	95/14 142/19	intelligence [2] 72/12	112/7 113/9 133/22	item 3 [1] 94/21	Jones [2] 68/9 89/22
95/12 105/21 107/22	infections [5] 3/2 14/7	72/21	134/17	its [16] 13/15 20/25	journal [4] 2/17 23/4
123/6 125/17	25/4 35/25 45/2	intended [3] 80/18	Ireland [1] 108/22	29/16 58/5 68/6 69/14	78/17 79/8
incidents [4] 5/19	infectious [6] 3/8	86/21 86/22	is unknown [1] 52/8	70/11 84/2 84/5 84/8	journals [1] 4/4
65/12 65/19 66/21	22/14 23/16 27/22	Intense [1] 146/9	isolated [2] 61/13	86/13 130/1 130/4	judgment [2] 34/16
include [4] 15/15	32/12 44/13	interaction [1] 112/8	76/19	134/12 136/1 146/17	35/9
26/13 109/3 145/22	infective [1] 99/6	interactions [2] 85/7	ISPN0000334 [1]	itself [6] 25/10 25/10	July [12] 31/14 34/21
included [2] 100/15	infectivity [7] 32/17	112/4	133/20	34/19 39/7 42/3 79/4	35/18 37/19 38/18
117/24	136/15 136/20 137/5	interest [2] 122/22		ITV [1] 64/16	40/10 41/22 43/20
including [7] 31/23	137/9 137/13 148/1	138/24		IV [2] 33/2 44/23	44/2 50/5 72/23 79/17
33/7 63/2 64/22 66/10	infer [2] 103/3 122/19	interested [3] 114/7		IX [14] 33/13 74/12	July 1982 [1] 72/23
95/3 117/11	inference [1] 117/3	142/18 143/9	73/15 76/12 94/17	74/15 77/20 89/9 93/9	July 1983 [1] 37/19
inconvenient [1]	infirmary [3] 56/19	interesting [2] 35/16	98/7 98/11 98/12	93/11 96/13 96/18	July 1990 [1] 79/17
103/14	87/19 97/16	112/13	98/23 99/17 108/12	99/1 106/14 136/7	June [14] 21/25 22/18
incorrectly [2] 135/24	influence [3] 83/8	interests [1] 68/20	110/25 116/15 120/7	145/1 145/22	23/2 25/10 25/11
148/5	85/6 93/22	interim [1] 70/23	122/20 123/12 126/2	1	26/13 27/18 29/12
	influenced [1] 83/6	intermediate [2]	126/3 132/11 140/1	J	29/20 34/20 34/23
increase [4] 109/16 119/16 127/7 127/9	influential [1] 83/12	127/1 146/8	140/18 141/1 142/23	Jacobs [1] 97/25	35/15 73/19 97/11
	inform [3] 28/7 29/1	internal [7] 14/22 25/8	143/13 147/24	January [24] 57/2	just [64] 1/16 3/3 5/13
increased [7] 9/11	65/23	47/2 63/7 65/9 66/1	issued [2] 41/10	69/12 69/15 69/16	6/23 8/25 9/25 16/6
30/11 99/24 109/10	informal [1] 108/17	113/9	114/17	69/22 70/6 71/9 84/3	17/17 26/18 26/25
119/15 119/19 125/16	information [23] 11/1	international [3]	issues [6] 35/4 49/25	84/5 84/14 98/22	37/7 37/15 40/1 40/7
increases [1] 77/19	15/1 15/10 28/11 29/8	37/18 121/9 128/15	69/22 80/20 86/14	102/1 102/5 103/3	46/8 50/14 51/11 55/1
increasing [7] 25/20	35/21 44/7 50/18 59/8	interventions [2]	118/20	107/12 114/14 115/18	56/5 57/7 57/25 58/16
29/14 77/11 97/14	66/19 74/4 94/7 111/4	110/7 121/17	issuing [1] 7/15	120/21 135/21 135/25	59/14 59/15 60/21
99/22 100/10 124/24	111/14 111/16 111/21	interview [1] 64/17	ISTH [1] 35/20	139/21 140/18 147/25	60/22 61/9 62/10 66/7

(51) importance... - just

		-			
	14/12 15/3 19/12	38/20 38/25 39/7	light [3] 47/9 58/4	long [9] 11/3 18/9	16/25 17/7 18/16
	19/20 20/1 23/18	39/10 40/7 40/16	90/16	18/10 65/21 77/19	22/17 23/1 26/3 35/12
just [35] 69/25	23/19 32/14 42/19	40/20 41/4 41/10	lightly [1] 25/2	81/19 85/17 100/9	58/13 60/5 60/11 96/1
72/19 73/13 74/12	61/15 66/11 66/17	41/16 42/3 42/7 42/10	like [11] 33/15 34/9	124/8	100/2 116/5 129/2
81/15 81/21 82/13	71/8 72/13 72/22	43/14 60/18 60/22	41/17 59/2 61/3 75/6	long-term [1] 100/9	140/21
86/2 98/22 101/18					
105/8 105/17 105/19	75/22 80/13 107/23	60/23 65/5 65/7	87/14 88/21 101/10	longer [1] 82/14	madness [1] 5/4
107/6 107/9 107/13	135/20 145/14	leaflets [1] 39/6	113/5 114/11	Longitudinal [1]	Mail [4] 4/15 4/22 5/12
110/24 112/3 112/6	Koate [3] 91/18 113/3	League [1] 37/18	likelihood [3] 3/23	35/10	10/19
112/8 112/22 113/8	114/2	leaps [1] 141/1	142/9 145/6	look [49] 5/13 6/14	main [9] 7/9 40/15
115/5 116/12 117/3	Kryobulin [1] 91/20	learn [3] 8/15 86/16	likely [18] 10/5 10/7	8/25 21/10 25/12 33/5	40/19 43/25 91/15
119/3 119/21 121/12	1	139/14	23/15 23/24 32/12	39/7 46/6 46/20 53/24	100/7 113/3 129/12
122/5 123/1 129/20	L	learnt [3] 85/12 86/18	32/25 44/13 58/19	65/3 69/25 71/6 74/22	130/5
	laboratories [8] 12/8	86/19	62/21 65/20 67/8	76/12 77/25 79/24	mainline [1] 9/7
132/1 132/15 143/15	12/24 20/18 84/7 88/5	least [12] 9/22 47/21	67/24 67/25 81/24	82/2 83/22 85/7 85/22	mainly [4] 36/13
143/17	125/1 128/11 134/1	57/15 80/10 83/16	124/4 138/4 147/22	86/8 90/22 90/22 91/3	37/10 52/20 101/2
justifiable [1] 138/23	laboratory [10] 9/18	84/23 85/4 90/19	148/2	92/20 93/8 93/25	mainstream [2] 4/13
justify [4] 33/23 34/14	12/16 13/1 88/12	111/19 115/1 135/23	likes [1] 114/4	99/19 101/18 105/15	6/11
45/21 48/2	95/15 112/21 113/1	136/5	limited [6] 49/21 73/9	106/19 106/19 108/5	maintain [1] 95/4
К	118/12 137/10 137/11	leave [1] 59/14	93/11 96/24 123/23	108/6 110/17 110/24	major [7] 8/9 33/21
	lack [2] 73/7 119/10	lecturer [1] 107/11	127/17	111/13 114/7 124/24	47/21 76/21 77/16
keep [6] 37/6 39/15	Ladies [1] 81/11	Lee [2] 62/3 63/2	limiting [1] 44/9	130/20 132/12 135/22	137/21 146/12
112/14 114/4 143/7					
143/12	Lancet [14] 2/21 3/24	left [3] 5/18 34/15	line [9] 6/24 7/20 7/25	143/15 144/2 148/7	majority [1] 38/22
keeping [3] 107/19	4/5 5/11 16/16 16/19	65/24	27/4 48/13 48/23	148/7 148/11 149/9	make [9] 22/24 46/18
107/24 146/19	56/20 56/21 57/20	left-hand [1] 5/18	60/14 99/15 100/24	look-back [1] 79/24	61/12 62/21 65/24
Kenneth [5] 40/13	57/24 63/8 73/19	length [3] 116/7	lines [16] 99/19 101/5	looked [15] 2/14 6/23	75/9 99/23 114/5
58/6 58/22 64/16 71/9	74/11 77/3	116/20 120/24	109/1 109/14 115/21	14/17 37/15 41/2	138/7
Kenneth Clarke [4]	Lane [2] 118/17	lengthy [1] 86/11	119/14 120/2 123/13	48/18 58/16 62/11	makes [1] 111/13
40/13 58/22 64/16	146/22	lesions [1] 30/9	124/12 125/2 125/14	101/14 120/21 141/8	making [8] 13/3 17/4
71/9	large [14] 25/24 28/4	less [5] 22/6 62/15	129/12 130/14 132/3	141/14 143/16 143/23	59/7 73/7 97/23
Kernoff [2] 131/18	28/14 29/1 30/12 38/6	66/21 77/14 77/14	137/8 141/2	147/25	118/16 131/9 131/15
132/8	40/22 54/15 57/1	lessening [1] 130/17	link [2] 23/4 56/16	looking [15] 4/3 13/18	male [3] 15/2 51/4
	74/17 125/19 126/21	lesser [1] 130/5	Lisbon [1] 21/18	21/4 42/1 61/24 68/21	51/20
Kernoff's [1] 144/11	136/24 137/2	let [5] 41/4 60/21	list [4] 94/14 95/6	74/11 80/7 85/12	males [1] 9/7
Kerry [1] 90/3	largely [3] 34/5 85/15	107/13 112/16 138/25	108/15 134/22	86/17 114/12 122/6	man [4] 14/5 56/10
key [18] 14/13 29/5	129/24	letter [35] 16/5 20/14	List' [1] 51/7	133/18 144/13 148/20	57/1 122/14
31/13 35/19 36/13	larger [8] 55/17 55/18	23/9 49/4 53/12 58/21	listed [1] 24/13	looks [6] 31/3 33/15	managed [1] 85/13
38/24 54/23 68/18	91/19 91/20 93/21	58/22 60/22 71/14	Lister [1] 97/13	34/9 71/12 79/9 97/10	Managerial [1] 49/8
69/9 78/20 82/23 84/3	102/17 117/10 141/7	72/4 72/7 94/4 94/5	lists [2] 134/6 134/9	Loran [1] 89/24	managing [2] 65/21
86/3 86/14 121/18	last [31] 13/23 15/10	97/10 97/11 100/23	literature [1] 16/24	Lord [7] 40/13 41/20	133/11
135/14 139/18 148/11	16/11 19/6 27/4 43/17	101/17 126/10 130/21		41/23 49/10 53/12	Manchester [2]
killer [4] 2/14 4/16	1		litigation [2] 86/8		
4/19 5/6	51/9 62/2 64/5 64/15	131/18 133/25 135/17	86/10	58/21 106/18	141/15 143/4
kind [6] 39/4 68/16	66/24 71/16 78/1 86/3	135/20 137/6 140/18	little [12] 3/4 5/1 6/3	Lord Glenarthur [5]	manifestation [1]
102/11 113/11 118/15	86/22 96/3 98/13	143/2 143/20 144/2	7/14 37/7 67/5 82/14	40/13 41/23 49/10	11/4
122/6	98/21 99/1 99/19	144/4 144/7 145/11	87/13 91/2 120/11	53/12 58/21	manner [3] 38/21
kindly [1] 121/13	102/9 107/13 111/9	147/25 148/1 148/3	145/12 147/3	Lord Owen [1] 106/18	
Kingdom [7] 2/18	112/12 113/3 123/2	148/5	little flavour [1] 87/13		manufacture [3]
6/11 14/12 39/16	123/11 124/12 130/4	letters [1] 132/13	live [2] 82/11 126/2	loss [2] 48/4 48/7	25/20 102/14 124/18
48/23 76/13 78/23	132/2 144/14	level [6] 15/15 22/22	liver [16] 77/4 77/19	lost [3] 71/2 128/16	manufactured [5]
know [19] 1/18 4/4	late [5] 69/10 87/21	33/23 45/20 83/13	77/23 78/2 78/11	130/18	18/3 18/25 19/21
11/8 20/11 24/19	94/9 112/5 135/23	93/2	107/19 107/25 121/25	lot [2] 24/5 82/16	25/25 100/13
	later [12] 6/8 16/7	levels [1] 130/3	122/2 122/13 122/14	lots [1] 114/2	manufacturers [7]
29/21 55/2 66/22	21/11 69/23 72/12	liaise [2] 15/17 48/14	122/16 122/16 123/6	louder [2] 75/3 75/4	11/22 53/3 53/5
81/15 81/23 94/4	73/2 88/9 122/8	licence [1] 138/13	131/22 132/7	lover [1] 114/6	126/20 136/16 138/14
103/9 104/23 105/1	122/24 122/25 131/25	licences [1] 34/7	livers [1] 121/19	low [5] 14/9 32/18	147/1
107/13 136/10 138/25	141/15	licensed [3] 31/20	lives [2] 4/18 103/19	130/3 145/8 146/9	manufacturing [1]
142/14 144/5	latest [1] 144/15	44/1 110/1	local [1] 133/3	lower [1] 126/5	137/15
knowing [1] 105/4	Latin [1] 11/23	licensing [2] 34/15	locally [1] 101/3	lowest [1] 38/24	many [17] 18/11
knowledge [11] 1/7	latter [2] 85/5 127/19	127/25	located [2] 36/13	lunch [1] 81/3	19/22 30/13 30/16
2/15 7/18 21/5 31/7	LAV [1] 23/5	lies [1] 146/3	36/15	Luncheon [1] 81/13	31/5 42/11 43/4 52/6
65/19 72/4 78/22	leader [1] 23/3				
80/21 107/20 143/17		life [4] 45/4 77/10	logical [1] 31/1	Μ	82/23 100/11 100/15
known [21] 14/9	leading [2] 4/5 117/9	87/22 135/1	London [5] 4/23 5/3		103/21 119/9 123/4
	leaflet [20] 38/17	life-saving [1] 45/4	15/9 66/15 66/21	made [17] 11/7 13/11	125/20 146/6 147/2
	L	L	L		(52) just many

(52) just... - many

M	21/7 21/19 23/9 23/23	meeting [73] 7/23	37/1 52/16 64/19	97/19 97/21 98/1	must [3] 8/7 63/22
	23/25 24/15 24/15	15/15 17/6 21/7 21/24	118/7 123/19 123/21	100/3 100/9 103/18	132/19
map [1] 82/14	24/16 24/22 25/3	21/25 22/18 25/9 26/4	127/5 127/13 127/20	105/3 112/9 114/22	my [7] 17/4 36/23
March [7] 20/23 52/20	25/22 26/6 26/7 26/24	26/13 28/17 29/23	127/23	117/23 119/20 125/5	81/9 97/22 101/23
59/16 59/25 60/5	27/21 29/24 30/7	31/13 31/16 34/18	mind [4] 104/21 105/4	140/14 141/13 143/15	122/11 132/1
60/10 106/16	37/11 38/1 39/4 44/14	34/20 34/23 35/17	118/15 122/7	146/19	
March 24 [1] 20/23	44/15 46/10 47/20	40/10 42/2 43/18	minimise [2] 22/19	Moreover [3] 11/21	Ν
Mark [1] 148/24	51/16 52/9 53/20	45/12 48/1 48/25 50/5	60/15	41/3 128/15	name [1] 61/18
marked [2] 45/24	55/16 55/19 58/15	50/16 50/23 53/23	minimising [2] 28/9	morning [3] 1/9 15/1	named [4] 61/16
57/19	58/16 59/1 61/20	54/1 55/2 68/23 69/4	29/3	143/23	137/23 138/9 138/22
market [7] 34/1 45/6	61/25 62/9 65/6 65/22	69/16 75/7 79/18	Minister [4] 40/12	mortality [4] 9/20 9/21	
53/2 71/16 146/5	71/22 72/3 74/11 75/5	79/20 84/3 94/13	40/15 71/10 129/2	20/5 22/3	138/22
146/11 146/19	77/5 78/7 84/17 85/4	94/18 98/8 99/13	minister's [2] 6/21	Mortimer [2] 31/25	names [3] 95/7 95/7
marketing [3] 116/4	87/14 90/13 100/25	102/3 102/23 105/12	41/14	44/5	111/23
134/7 134/8	116/21 119/5 122/20	108/5 108/10 108/17	ministers [9] 7/7 7/15	most [19] 1/8 10/7	Napier [1] 130/21
Mary [1] 90/6	128/17 135/17 135/17	109/1 113/10 113/13	7/19 21/25 22/18	18/6 35/21 39/21	national [10] 52/17
Mary's [1] 5/3	135/18 136/14 148/5	115/17 117/7 117/8	40/18 65/11 70/3 76/3	40/20 47/19 64/3	83/13 84/24 85/1 85/9
massive [1] 6/7	148/10	120/20 124/8 124/9		82/24 93/1 97/20	119/20 124/14 128/15
matched [1] 130/25			ministers issuing [1]		130/23 147/14
matches [1] 132/22	May 1984 [1] 61/25	124/10 125/4 125/7	7/15	112/13 117/2 123/20	
material [51] 2/2	maybe [1] 18/10	126/16 129/7 129/11	ministers' [2] 27/17	124/1 132/18 136/21	nature [1] 146/17
28/16 28/19 29/21	Maycock [9] 94/5	129/13 133/10 139/12	70/12	139/13 144/10	NBTS [3] 84/24 85/2
39/2 53/7 58/14 61/1	97/13 98/7 100/6	139/23 141/15 141/25	minor [1] 30/9	mother [1] 72/7	147/21
67/19 73/6 73/21	100/23 101/17 106/15	142/16 143/4 143/5	minute [9] 6/17 9/1	mounting [1] 135/1	nearer [1] 81/25
80/25 81/7 81/7 82/13	111/16 111/22	144/9 145/18	14/22 25/10 25/13	move [13] 46/9 46/25	neatly [1] 21/13
82/18 85/18 86/24	Maycock's [1] 101/19	meetings [11] 35/21	41/8 47/2 64/12 65/10	53/17 59/10 61/5	necessarily [3] 105/4
89/19 91/13 92/20	MDIA0000015 [1] 5/15		minutes [14] 43/21	64/10 92/8 98/19	116/17 144/4
93/8 95/5 95/8 96/4	MDIA0000039 [1] 72/2		43/23 54/2 54/20	99/11 110/22 118/18	necessary [6] 22/18
96/23 99/19 99/23	me [10] 57/9 58/20	118/19 131/8 141/10	55/14 55/20 55/20	129/5 131/10	28/1 28/23 39/10
100/2 100/4 100/18	60/21 81/5 112/12	145/10	94/13 99/21 100/14	moved [2] 87/24	96/22 139/5
101/22 102/11 110/12	133/1 134/6 135/14	member [6] 27/25	102/2 116/2 120/20	102/1	necessity [1] 40/16
110/15 111/19 111/20	144/14 147/8	83/16 83/20 84/2 84/6	141/17	moving [1] 55/24	need [26] 31/5 46/4
111/20 114/8 114/21	mean [2] 24/18	84/12	mismatch [1] 50/2	MP's [1] 58/22	47/10 47/20 48/6
117/1 117/4 124/2	130/24	members [4] 13/16	misplaced [1] 67/15	Mr [4] 7/12 58/6 75/19	48/14 52/5 54/9 65/1
125/13 127/2 127/19	meaningless [1]	22/4 61/16 121/21	MMWR [1] 29/13	107/14	69/3 70/10 70/21
129/22 132/23 140/22	102/19	memo [1] 49/5	moderate [1] 36/10	Mr Finsberg [1] 7/12	71/25 74/4 78/15
129/22 132/23 140/22	means [8] 2/24 9/16	men [4] 4/23 24/23	modify [1] 34/7	Mr H [1] 107/14	93/14 97/21 103/7
	20/1 30/11 49/21	42/10 43/4	moment [10] 42/2	Mr Kenneth [1] 58/6	109/12 109/23 110/11
materials [15] 80/3	51/21 60/9 147/7	mentioned [1] 35/11	46/11 47/7 55/10	Mr Newton [1] 75/19	111/13 122/5 126/21
83/22 86/17 90/9	meant [2] 134/9	merits [1] 102/13	59/14 74/18 89/1	MRC [2] 84/11 144/9	143/14 147/11
92/10 93/6 93/14	134/13	message [1] 126/7	134/25 135/19 143/6	Mrs [1] 58/1	needed [9] 5/8 31/19
93/16 93/25 103/15	Meanwhile [2] 7/13	met [4] 15/18 69/15	money [3] 12/16	Mrs Currie [1] 58/1	35/10 40/22 48/4
111/11 119/25 126/1	59/21	106/15 124/9	64/18 64/21	Ms [4] 1/3 2/10 143/20	
140/20 147/13	measure [1] 70/23	method [1] 51/22	monitor [1] 8/12	148/16	138/6
matter [16] 7/15 15/14	measures [6] 28/1	methods [2] 136/13	monitoring [2] 12/4	Ms Richards [2] 1/3	needing [1] 69/12
15/22 20/11 34/5	28/24 44/10 48/3	137/16	138/20	148/16	needles [2] 5/24
34/10 34/15 68/16	49/19 50/4	mid [1] 129/19	Montagnier's [1] 23/3		51/22
75/6 76/4 118/14		mid-80s [1] 129/19	month [5] 15/7 53/11	143/20	needs [3] 33/20 33/20
120/18 120/22 121/3	media [6] 4/13 6/11	middle [1] 24/14	55/25 71/7 141/24	MSH [4] 40/11 40/15	113/6
143/3 147/7	7/17 24/6 50/7 65/20	Middlesex [2] 23/11	months [19] 3/20 3/25		never [3] 79/2 113/25
matters [15] 33/9	medical [17] 4/5 9/13	63/11	5/20 6/6 6/8 9/23 14/8		114/18
34/21 50/11 59/2	23/11 26/16 35/3	might [18] 18/22	18/10 19/3 19/25	48/15 55/17 55/17	Nevertheless [3]
73/11 73/23 78/13	35/13 50/16 50/17	24/21 26/1 26/10		80/18 81/1 81/4 81/10	47/18 49/18 127/18
99/12 107/6 112/1			29/11 37/8 51/17		
112/25 118/23 138/18	50/19 50/23 72/12	35/18 39/3 42/21	73/12 87/2 97/2 97/3	81/25 90/15 92/22	new [19] 12/25 27/20
140/5 141/22	72/20 83/20 84/19	55/10 77/9 96/25	99/1 138/5	92/22 93/21 94/18	32/12 36/9 37/21
may [83] 4/4 4/15	127/6 127/18 130/21	103/16 117/3 124/19	mood [1] 100/16	97/21 98/4 99/8	44/14 44/24 52/21
5/13 6/1 6/14 6/15	medicine [2] 76/22	133/5 137/19 137/24	more [38] 4/20 7/2	100/25 102/7 109/4	59/17 59/25 61/14
6/18 8/3 8/7 11/3 11/9	79/8	144/4 148/8	12/15 13/19 18/12	110/18 110/19 120/8	61/16 69/13 79/8
11/20 11/22 13/15	medicines [6] 12/12	mild [5] 34/8 36/8	24/15 25/3 36/6 38/13	142/8 143/1 143/13	114/8 114/11 135/9
13/20 13/23 14/1	31/15 31/21 43/20	36/10 125/23 130/2	39/3 41/17 42/19	148/16 149/10	137/4 144/11
14/23 16/7 17/7 17/24	50/6 52/24	mildly [3] 30/8 30/14	43/24 65/19 80/23	multiple [3] 3/1 3/14	New England [1] 79/8
19/6 19/9 19/12 20/14	meet [4] 7/13 47/22	111/7	80/23 86/23 89/20	85/18	newborn [1] 3/12
	69/13 148/16	million [11] 12/25	90/1 91/3 96/21 96/22	multiply [1] 16/21	Newcastle [4] 66/1

(53) map - Newcastle

			1		
Ν	101/14 102/21 105/3	66/17 67/8 67/10	95/1 99/12 101/9	occurred [3] 9/6	only [17] 4/7 16/1
	106/2 109/12 112/2	67/15 68/4 68/19 69/1	102/1 102/18 105/1	24/17 39/16	33/14 37/8 37/11
Newcastle [3] 66/23	129/3 136/5 137/20	70/24 71/2 71/24	107/9 107/21 111/2	occurrence [4] 8/12	38/21 39/21 41/9
68/9 68/11	147/3	72/17 73/12 73/13	113/21 113/24 114/17	51/25 62/6 72/15	49/10 53/11 71/21
news [1] 15/8					
newsletter [1] 37/18	nobody [1] 5/6	74/8 75/11 75/22	116/4 117/21 118/6	occurrences [1]	86/5 98/1 108/17
newspaper [2] 2/17	non [40] 36/15 73/10	80/10 80/19 84/2	118/25 119/7 119/10	142/19	138/11 140/21 141/5
56/3	73/15 73/15 73/24	85/19 89/17 92/12	121/8 124/7 129/3	occurring [2] 24/11	onset [2] 18/5 19/25
newspapers [1] 39/12	73/24 74/6 74/6 74/14	95/25 96/23 99/21	146/25	51/3	onto [1] 134/22
	74/14 74/21 74/21	100/25 101/1 103/11	number [58] 5/14 6/25	October [13] 18/6	onwards [1] 107/7
Newton [1] 75/19	74/23 74/23 75/2 75/2	103/12 103/16 103/20	7/25 8/18 12/19 17/21	53/22 54/2 54/25	opaque [1] 134/9
next [59] 1/15 2/4	76/13 76/17 76/17	105/8 106/9 107/3	17/23 18/15 18/17	79/20 84/16 99/13	open [1] 117/4
5/23 7/24 22/1 27/7	76/20 76/20 76/24	107/4 108/23 109/8	18/17 19/12 21/2	99/14 108/11 131/19	opened [1] 122/24
27/23 33/5 33/25 34/3	76/24 77/16 77/16	110/3 111/13 111/23	24/13 25/23 28/18	141/24 142/25 143/11	opening [2] 74/13
34/22 35/22 36/12	80/12 80/12 104/21	111/24 112/23 114/6	31/22 33/9 37/1 37/10	October 1980 [1] 18/6	123/1
39/8 48/1 50/14 52/10					
52/15 60/14 60/24	104/21 136/9 136/9	114/19 116/15 117/1	45/14 47/10 53/25	October 1982 [1]	operated [1] 147/13
63/16 65/2 68/6 70/20	137/5 137/5 140/10	118/6 118/13 118/15	62/13 63/19 63/20	143/11	operating [1] 146/2
78/10 81/16 82/1 82/5	140/11 141/1 141/2	119/4 122/12 122/19	64/22 65/15 75/8 81/5		operational [1] 33/11
82/10 88/13 91/3	141/6 141/6 147/4	124/2 124/8 124/16	83/10 87/25 88/14	54/25 84/16	operations [1] 4/21
91/21 91/25 95/2 98/6	non-A [17] 73/15	127/17 128/20 128/25	90/20 91/6 91/7 91/8	of AIDS [1] 16/15	operative [1] 88/22
	73/24 74/6 74/14	130/24 131/14 133/7	91/9 91/14 92/15	of May [1] 23/25	opinion [2] 9/13 128/8
98/8 98/14 104/3	74/21 74/23 75/2	133/13 133/22 134/14	92/16 92/17 92/18	off [3] 46/12 81/21	opportunistic [4] 15/5
104/11 105/18 105/18	76/17 76/20 77/16	135/18 136/23 137/1	93/7 93/18 95/9 96/23	106/12	35/25 144/21 147/4
105/23 105/23 106/2	80/12 104/21 136/9	137/2 142/14 143/6	96/24 105/17 116/4	offer [4] 7/12 109/4	opportunity [2] 7/7
106/2 106/6 106/21	137/5 140/10 141/1	143/11 145/14 147/8	117/9 117/10 118/19	112/20 139/8	8/14
108/6 109/21 110/14	141/6	148/21			
119/21 121/11 127/25			121/10 127/7 132/13	offered [1] 114/2	opposed [1] 131/13
130/11 138/5 139/12	non-AIDS [1] 36/15	notably [1] 123/5	132/24 137/7 138/4		optimally [1] 101/10
142/15 143/19 148/22	non-B [18] 73/15	note [23] 6/25 8/25	Number 10 [1] 6/25	office [3] 7/2 48/14	optimism [1] 77/8
NHBT0000023 [1]	73/24 74/6 74/14	13/14 34/5 35/18	numbers [9] 18/8	108/21	option [1] 40/19
76/9	74/21 74/23 75/2	45/10 48/24 50/15	29/15 41/19 70/15	officers [4] 50/16	options [1] 45/11
	76/17 76/20 76/24	57/21 58/16 58/19	81/17 93/13 93/21	50/17 50/19 68/6	or [103] 1/5 1/18 3/24
NHBT0017430 [1]	77/16 80/12 104/21	68/8 69/4 85/16 87/4	116/13 137/13	officers' [1] 50/23	4/2 5/24 9/17 9/17
21/17	136/9 137/5 140/11	97/22 101/6 107/13	nurse [2] 89/25 90/2	official [2] 7/20 64/13	9/23 10/1 10/25 12/21
NHBT0020668 [3]	141/2 141/6	112/10 113/9 119/21	nursing [3] 88/15	Officials [2] 7/3 40/18	13/12 14/18 18/12
38/14 38/14 42/8	non-contractual [1]	133/10 146/21	89/16 89/23	offing [1] 41/5	19/3 19/4 19/4 20/2
NHS [26] 4/17 30/17	147/4	noted [2] 53/4 105/16		often [2] 137/1 138/23	23/16 24/15 25/10
31/2 36/19 54/22	non-heat [1] 73/10	nothing [2] 40/19 41/5	0	Oh [1] 43/9	26/2 29/8 29/19 30/9
67/17 91/17 92/6					
92/24 93/9 100/3	non-introduction [1]	noticed [1] 100/25		okay [3] 57/9 57/14	30/15 30/17 32/13
100/19 110/15 113/20	76/13	notified [2] 14/15	115/5 148/17	58/20	32/18 33/6 39/1 39/2
124/25 125/9 126/20	none [2] 65/15 103/1	143/10	object [1] 98/9	old [2] 14/5 72/7	39/5 41/13 42/11
127/15 127/22 128/9	nonetheless [1] 93/22		objective [1] 40/19	once [2] 79/4 128/15	42/21 44/9 44/14
128/18 128/23 140/8	normal [2] 31/1 77/10	57/5 57/22 58/1 64/10	obliged [1] 97/18	one [68] 2/20 4/5 5/13	44/17 46/8 46/19
140/13 147/3 147/23	normally [1] 24/22	64/13 65/9 75/15 76/6	obliges [1] 43/9	7/9 8/22 13/7 13/24	46/20 49/22 53/11
	Norman [2] 141/25	76/10 79/7 82/21 85/1	observation [4] 3/18	17/19 18/11 19/3 20/6	53/18 54/22 58/15
NHS haemophiliacs	143/1	100/21 126/12 134/1	96/6 118/1 119/20	20/25 22/5 26/11	62/22 67/25 68/10
<b>[1]</b> 147/23	Northern [2] 66/18	143/18	observations [1]	26/12 29/5 29/25 31/5	69/1 70/4 73/7 73/7
night [2] 15/10 64/15	108/22	November 1972 [1]	139/13	33/9 33/16 37/1 37/9	73/9 74/8 80/1 80/9
Nine [1] 140/10	not [126] 3/20 4/2 4/4	100/21	observed [1] 22/2	38/9 39/2 40/1 41/3	81/17 81/21 83/10
no [64] 3/14 7/18 8/5			Observer [1] 5/16		
8/19 8/22 9/15 9/15	10/20 10/20 11/2 11/8	November 1982 [1]		47/21 54/23 55/2 56/3	83/10 83/13 83/16
10/2 10/13 12/18 13/6	11/20 11/22 12/17	143/18	observing [1] 138/2	56/4 59/12 61/22	84/7 84/9 85/2 85/13
13/7 15/8 20/1 21/23	12/20 15/21 16/1	November 1984 [2]	obtained [2] 3/17	64/13 65/14 66/22	85/24 86/24 86/25
26/10 29/9 29/18 38/8	17/24 18/11 18/19	64/10 85/1	89/16	66/24 69/9 69/19	86/25 88/2 88/20
42/17 42/25 45/14	19/6 19/9 19/12 19/15	November 1989 [1]	obvious [2] 8/8 80/17	69/22 71/6 71/24 84/3	89/16 97/7 98/3
46/6 46/13 47/19 48/6	20/11 22/14 24/19	79/7	obviously [15] 1/18	91/22 98/2 99/3 99/10	103/11 104/22 108/1
	24/21 24/24 26/24	November 1992 [1]	4/5 45/13 48/13 60/25	100/7 101/21 103/10	109/7 110/21 115/20
48/13 48/23 49/13	26/25 27/14 28/6	82/21	73/20 74/7 78/21	112/2 113/4 113/20	116/1 116/18 119/19
49/21 53/1 53/6 53/12	28/15 30/4 33/23 34/7	now [46] 3/22 5/12	90/15 101/16 114/6	114/16 116/7 116/14	120/2 121/4 122/17
53/19 53/24 54/9	36/4 40/18 42/12	12/17 15/3 20/9 29/15	114/22 115/2 116/21	116/19 116/25 117/3	124/12 124/21 127/1
54/11 55/3 57/10 58/7	42/20 42/23 43/21	36/2 41/5 47/23 48/2	143/13	124/16 131/17 131/22	131/11 133/4 135/18
59/3 61/24 63/1 64/8	45/8 47/20 50/7 53/19	57/15 58/18 63/6 66/4	occasions [2] 8/18	132/13 133/4 139/18	140/8 142/5 142/21
66/20 68/21 69/3 76/4	TOID TIZO DULL DULLO		45/14	140/25 144/24 148/4	144/19 144/24 145/1
1	51/10 55/7 55/12			140/20144/24 40/4	144/19 144/24 140/1
77/14 78/14 79/24	54/19 55/7 55/13	69/1 70/17 71/8 73/12			
	55/14 57/21 60/6	73/23 74/19 80/13	occupy [1] 146/1	ongoing [2] 131/6	147/3 149/7
77/14 78/14 79/24 80/23 86/23 89/20					
	55/14 57/21 60/6	73/23 74/19 80/13	occupy [1] 146/1	ongoing [2] 131/6	147/3 149/7

(54) Newcastle ... - oral

0	outcome [3] 50/5	124/11 124/12 125/2	41/21 49/9 57/24	83/2 86/6 87/18 88/18	122/14
order [8] 10/25 34/22	55/19 55/22	125/2 125/11 128/5	part [14] 1/6 19/6 25/7	90/21 91/6 91/8 92/2	person [3] 43/9 87/22
47/22 62/7 85/15 89/6	outline [1] 89/12	129/17 129/19 132/2	26/25 33/5 39/1 82/22	92/3 92/11 92/12	148/25
129/13 139/6	outlined [3] 26/20	140/2 140/3 140/4	84/9 84/10 84/19	92/14 92/17 92/19	persons [1] 19/24
ordinary [3] 39/22	27/6 93/23	140/23 140/24 146/20	85/21 107/21 122/24	92/23 93/6 93/7 93/19	perspective [3] 7/11
	outlining [1] 109/7	147/9	122/25	93/21 95/6 95/7 96/13	8/4 59/2
51/14 110/10	outside [1] 36/7	page 10 [2] 87/11	partial [2] 86/5 113/5	96/16 96/24 102/16	persuasive [1] 78/5
ordinate [1] 88/8	over [34] 2/3 5/19	125/11	participant [2] 83/16	103/13 105/8 105/22	Peter [2] 90/13 144/11
organisation [7]	6/22 8/18 17/9 32/22	page 11 [3] 96/7	121/13	106/5 107/2 107/22	Peter Kernoff's [1]
21/12 30/1 83/5 84/1	52/15 54/20 63/20	120/10 140/24	participants [9] 79/14	109/18 110/3 111/2	144/11
123/17 128/19 139/3	73/11 87/1 87/25 89/4	page 12 [2] 106/11	80/22 80/24 85/17	111/5 111/9 111/15	pharmaceutical [4]
Organisation's [1]	90/13 91/25 93/16	117/13	85/20 86/12 87/1	111/25 112/22 112/25	20/12 112/5 114/25
84/4	94/19 99/25 101/6	page 13 [1] 117/12	89/19 90/9	116/6 116/19 116/25	135/12
organisations [1]	104/14 109/21 110/6	page 233 [1] 63/5	particular [16] 10/16	119/17 120/6 120/17	phased [1] 129/24
147/16	114/15 117/23 119/13	page 3 [2] 3/3 119/1	23/6 28/2 28/24 29/6	125/21 127/7 130/1	PHLS [1] 147/21
organism [1] 142/9	124/17 125/2 125/25	page 4 [1] 119/13	42/4 47/5 48/13 80/25	131/23 132/18 136/23	physical [2] 89/12
original [3] 38/21	128/5 129/4 129/19	page 5 [3] 102/8	83/4 96/10 111/4	137/3 137/7 137/14	107/5
102/15 117/20	131/15 140/23 146/20	120/2 124/11	111/6 112/7 115/3	138/5 138/7 138/8	physician [1] 35/9
originally [2] 2/8	overall [2] 28/22	page 6 [1] 125/2	122/22	138/25 140/9 140/10	physicians [4] 28/7
82/15	119/16	page 7 [2] 95/19	particularly [9] 2/6	140/13 141/7 144/21	29/1 34/6 126/25
other [43] 6/12 9/7	overlap [1] 85/5	115/24	22/11 24/11 42/23	144/25	pick [24] 5/17 46/19
11/5 29/2 29/21 30/4	overseas [1] 100/13	page 8 [3] 103/8	43/1 51/7 58/24 83/12	patients' [3] 103/19	50/11 73/23 82/4
30/21 32/10 33/9 36/6	Owen [1] 106/18	140/2 140/3	146/7	105/9 121/19	99/17 102/2 106/13
36/19 43/13 45/1	own [1] 123/25	page 9 [2] 99/16	parties [1] 143/10	Patrick [1] 126/13	106/24 107/6 109/21
45/11 51/5 54/17 75/4	Oxford [23] 2/2 12/4	140/4	partly [4] 84/21 88/10	Patrick Jenkin [1]	116/22 117/13 118/23
78/5 81/6 81/7 83/7	29/19 82/7 82/10 91/2	pages [1] 85/18	114/18 114/19	126/13	119/5 123/1 129/20
83/10 84/17 88/25	91/3 94/6 95/5 95/8	palpable [1] 122/15	partners [2] 42/11	pattern [1] 51/19	132/2 133/15 133/19
93/15 94/23 97/20	99/3 106/19 108/6	panel [3] 74/5 83/21	43/4	patterns [1] 127/8	140/1 141/22 143/17
97/22 100/9 103/15	111/1 111/15 111/21	121/21	parts [3] 75/4 85/11	pausing [9] 10/23	145/24
111/11 128/7 131/13	119/24 123/18 137/8	panels [1] 47/11	86/3	18/14 41/7 55/1	picked [4] 4/3 4/12
132/20 132/22 133/4	137/11 140/7 143/21	panic [3] 71/18 143/7	party [10] 73/17 76/8	105/19 112/22 116/12	107/17 148/3
135/11 135/12 136/13	148/20	143/12	84/2 84/11 84/15	136/25 147/24	picking [12] 6/12
142/6 144/21 145/6					
146/4	P	Panorama [1] 80/8	119/22 139/1 139/2	payback [1] 147/3	17/17 47/4 64/10
146/4 others [10] 17/6 40/14	Р	Panorama [1] 80/8 paper [11] 16/21 17/3	119/22 139/1 139/2 140/2 140/4	payback [1] 147/3 PCP [1] 142/3	17/17 47/4 64/10 73/14 98/13 99/12
146/4 others [10] 17/6 40/14 46/3 68/10 68/24	P packs [1] 95/24	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17	119/22 139/1 139/2 140/2 140/4 pass [2] 142/10	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11	P packs [1] 95/24 page [103] 3/3 7/24	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 <b>picture [2]</b> 86/5 86/7
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1	P packs [1] 95/24 page [103] 3/3 7/24	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17 4/18           24/11         24/21 42/3           42/10         42/12 42/18           43/5         70/24 122/12	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17 4/18           24/11         24/21 42/3           42/10         42/12 42/18           43/5         70/24 122/12           per [18]         9/22 20/6	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17           24/11         24/21           42/10         42/12           42/10         42/12           43/5         70/24           12         22/12           per [18]         9/22           20/7         37/4	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17 4/18           24/11         24/21 42/3           42/10         42/12 42/18           43/5         70/24 122/12           per [18]         9/22 20/6	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17           24/11         24/21           24/11         24/21           42/10         42/12           42/10         42/12           42/10         42/12           per [18]         9/22           20/7         37/4           37/6         51/3           52/18         66/13	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23	119/22 139/1 139/2 140/2 140/4 pass [2] 142/10 142/20 passage [3] 53/20 120/12 141/8 passed [1] 5/22 past [5] 5/19 48/15 81/22 81/25 99/9 Pathology [1] 23/10 patient [24] 3/9 11/5	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17 4/18           24/11 24/21 42/3         42/10 42/12 42/18           43/5 70/24 122/12         per [18]           9/22 20/6         20/7 37/4 37/5 37/5           37/6 51/3 52/18 66/13         66/14 66/15 76/22           110/20 127/21 140/12         140/12	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25	payback [1]         147/3           PCP [1]         142/3           PE [1]         114/11           people [11]         1/17           24/11         24/21           24/11         24/21           42/10         42/12           42/10         42/12           42/10         42/12           9/2         20/6           20/7         37/4           37/6         51/3           52/18         66/13           66/14         66/15           76/2         110/20           12/21         140/12           140/14         146/1           perceived [2]         33/22	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9 planning [1] 75/7
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 13/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4 paragraph 3 [2] 25/12	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4 paragraph 3 [2] 25/12 108/16	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planed [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 127/14 129/11 129/24	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4 paragraph 3 [2] 25/12 108/16 paragraph 5 [1] 45/25	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [11] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planed [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 127/14 129/11 129/24 131/22 136/19 137/8	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17 114/15 115/20 115/24 117/12 117/13 117/14	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4 paragraph 5 [1] 45/25 paragraphs [1] 35/22	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18 54/4 54/7 54/10 54/19	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25 periods [1] 132/20	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planed [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24 52/5 52/14 52/22 53/1
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 127/14 129/11 129/24 131/22 136/19 137/8 137/15 138/14 138/18	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 12 [1] 47/4 paragraph 3 [2] 25/12 108/16 paragraph 5 [1] 45/25 paragraphs [1] 35/22 parallel [1] 64/25	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18 54/4 54/7 54/10 54/19 55/23 62/6 62/15	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planed [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24 52/5 52/14 52/22 53/1 59/16 59/25 60/5
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 127/14 129/11 129/24 131/22 136/19 137/8 137/15 138/14 138/18 141/13 143/7 143/12	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 99/18 99/25 102/8 103/8 104/3 105/17 105/18 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17 114/15 115/20 115/24 117/12 117/13 117/14 118/10 119/1 119/13	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 12 [1] 47/4 paragraph 3 [2] 25/12 108/16 paragraph 5 [1] 45/25 paragraphs [1] 35/22 parallel [1] 64/25 parents [1] 88/23	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18 54/4 54/7 54/10 54/19 55/23 62/6 62/15 63/17 63/18 63/25	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25 periods [1] 132/20 peripherally [1] 128/11	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planed [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24 52/5 52/14 52/22 53/1 59/16 59/25 60/5 60/10 62/21 74/17
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 127/14 129/11 129/24 131/22 136/19 137/8 137/15 138/14 138/18	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 95/2 95/19 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17 114/15 115/20 115/24 117/12 117/13 117/14 118/10 119/1 119/13	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4 paragraph 3 [2] 25/12 108/16 paragraph 5 [1] 45/25 paragraphs [1] 35/22 parallel [1] 64/25 parents [1] 88/23 Paris [1] 62/11	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18 54/4 54/7 54/10 54/19 55/23 62/6 62/15 63/17 63/18 63/25 64/1 65/23 66/11	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25 periods [1] 132/20 peripherally [1] 128/11 permission [1] 100/12	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24 52/5 52/14 52/22 53/1 59/16 59/25 60/5 60/10 62/21 74/17 93/12 102/15 109/10
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 oughtn't [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 127/14 129/11 129/24 131/22 136/19 137/8 137/15 138/14 138/18 141/13 143/7 143/12	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 95/2 95/19 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17 114/15 115/20 115/24 117/12 117/13 117/14 118/10 119/1 119/13 119/13 119/21 120/1	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 12 [1] 47/4 paragraph 3 [2] 25/12 108/16 paragraph 5 [1] 45/25 paragraphs [1] 35/22 parallel [1] 64/25 parents [1] 88/23	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18 54/4 54/7 54/10 54/19 55/23 62/6 62/15 63/17 63/18 63/25	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25 periods [1] 132/20 peripherally [1] 128/11	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planed [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24 52/5 52/14 52/22 53/1 59/16 59/25 60/5 60/10 62/21 74/17
146/4 others [10] 17/6 40/14 46/3 68/10 68/24 70/25 79/9 80/11 85/10 121/10 ought [2] 19/4 96/1 ought [1] 19/5 our [21] 4/10 5/4 30/1 31/1 49/20 57/15 64/24 67/2 71/15 80/25 98/4 112/13 114/7 122/1 128/8 131/22 132/18 134/23 135/10 143/6 148/23 out [49] 17/4 17/10 17/16 18/8 19/7 19/14 21/2 22/1 31/9 32/7 35/2 39/1 39/6 43/2 51/9 54/13 57/6 57/18 59/9 63/24 65/3 65/17 68/8 71/4 78/13 82/14 86/15 86/18 92/25 97/18 106/25 113/6 119/7 121/16 125/24 137/15 138/14 138/18 141/13 143/7 143/12	P packs [1] 95/24 page [103] 3/3 7/24 13/5 17/9 18/23 25/16 26/18 26/25 27/4 27/4 27/8 27/23 32/9 32/22 33/10 35/1 36/12 37/20 39/8 42/15 52/10 62/1 63/5 63/7 63/15 63/16 66/6 66/24 68/7 70/7 70/20 87/11 88/13 91/11 91/21 91/25 92/1 93/4 93/5 94/16 95/2 95/19 95/21 96/7 98/11 98/14 99/16 95/2 95/19 105/18 105/23 105/24 106/2 106/2 106/6 106/11 106/12 106/14 106/21 108/14 109/21 110/6 110/14 110/17 114/15 115/20 115/24 117/12 117/13 117/14 118/10 119/1 119/13 119/13 119/21 120/1	Panorama [1] 80/8 paper [11] 16/21 17/3 17/10 25/14 25/17 50/18 63/8 143/22 143/23 143/23 144/8 paraded [1] 64/21 paragraph [40] 3/5 17/18 19/8 20/25 21/6 22/1 23/13 24/4 25/12 27/19 36/17 45/25 47/4 49/11 58/23 59/17 62/12 62/18 64/6 66/8 71/17 72/8 74/13 78/1 78/10 98/6 102/9 104/11 108/16 111/6 111/9 113/3 114/1 123/2 123/11 123/14 127/25 130/12 131/2 132/2 Paragraph 11 [1] 36/17 paragraph 2 [1] 47/4 paragraph 3 [2] 25/12 108/16 paragraph 5 [1] 45/25 paragraph 5 [1] 45/25 paragraphs [1] 35/22 parallel [1] 64/25 parants [1] 88/23 Paris [1] 62/11	119/22 139/1 139/2 140/2 140/4 <b>pass [2]</b> 142/10 142/20 <b>passage [3]</b> 53/20 120/12 141/8 <b>passed [1]</b> 5/22 <b>past [5]</b> 5/19 48/15 81/22 81/25 99/9 <b>Pathology [1]</b> 23/10 <b>patient [24]</b> 3/9 11/5 14/11 15/2 15/9 30/2 34/14 66/22 88/1 96/21 98/20 98/25 99/6 103/14 104/3 104/7 104/19 107/8 111/7 111/20 111/23 137/23 138/9 138/22 <b>patient's [1]</b> 104/10 <b>patients [100]</b> 3/12 3/13 3/13 9/16 15/11 22/12 29/2 29/9 30/5 30/8 30/12 30/15 30/15 30/21 30/25 39/23 40/22 44/18 54/4 54/7 54/10 54/19 55/23 62/6 62/15 63/17 63/18 63/25 64/1 65/23 66/11	payback [1] 147/3 PCP [1] 142/3 PE [1] 114/11 people [11] 1/17 4/18 24/11 24/21 42/3 42/10 42/12 42/18 43/5 70/24 122/12 per [18] 9/22 20/6 20/7 37/4 37/5 37/5 37/6 51/3 52/18 66/13 66/14 66/15 76/22 110/20 127/21 140/12 140/14 146/1 perceived [2] 33/22 45/20 percentage [1] 104/16 perhaps [13] 17/5 37/13 41/18 48/5 77/5 81/18 98/7 101/18 123/22 123/24 135/7 145/11 145/13 period [11] 9/23 11/3 18/9 19/3 37/9 51/16 90/8 94/2 109/9 133/18 144/25 periods [1] 132/20 peripherally [1] 128/11 permission [1] 100/12	17/17 47/4 64/10 73/14 98/13 99/12 100/24 102/8 109/1 109/14 125/14 picture [2] 86/5 86/7 piece [2] 93/14 115/14 pieces [1] 133/16 pilot [1] 106/4 Pinching [1] 5/2 pipeline [1] 19/15 place [1] 11/14 21/18 27/1 34/21 43/19 103/5 110/22 111/14 113/12 114/21 124/10 placed [1] 11/10 planned [1] 2/9 planning [1] 75/7 plans [3] 139/3 149/8 149/9 plasma [31] 5/10 11/20 11/22 19/20 21/1 25/19 28/4 28/14 29/1 38/7 48/19 51/24 52/5 52/14 52/22 53/1 59/16 59/25 60/5 60/10 62/21 74/17 93/12 102/15 109/10

(55) order - plasma

D	pool [13] 19/21 25/24	93/16 123/25 144/19	presented [3] 1/13	54/18 62/19 117/23	Professional [1]
<u>P</u>	26/2 30/12 119/10	pre [5] 45/24 58/15	35/21 122/21	123/5 139/11	58/12
plasma [3] 128/18	119/23 119/24 126/4	58/16 60/5 60/10	presents [1] 70/9	procedures [1] 89/5	Professor [112] 1/10
137/10 144/25	130/4 130/10 130/15	pre-date [2] 58/15	president [1] 84/18	proceed [1] 128/20	1/13 1/22 10/18 10/25
platelet [1] 3/19 play [2] 36/24 65/1	136/24 137/2	58/16	press [5] 8/2 41/4	proceedings [1]	13/13 13/16 13/18
played [7] 80/15	pooled [7] 6/1 19/17	pre-March [1] 60/5	59/1 61/5 125/5	21/18	17/19 21/11 26/14
82/21 83/11 83/22	48/19 52/5 96/2	precautions [1] 95/13	pressing [2] 69/22	process [3] 91/3	29/19 31/24 33/16
84/9 84/19 85/1	125/17 125/19	Precisely [3] 4/2 79/6	100/11	136/11 142/10	34/10 44/4 54/9 63/2
please [107] 2/19 3/3	pools [5] 28/4 28/14	134/13	Preston [2] 73/16	processed [1] 136/8	68/8 72/5 72/20 73/15
4/14 5/1 5/15 6/3 6/16	29/1 38/6 74/17	predictions [1] 146/14	73/20 presumably [7] 30/1	processing [1] 138/16	73/20 73/20 81/3 82/2 82/6 82/19 85/24
7/24 9/2 13/21 13/22	poor [1] 120/4 population [3] 30/5	predominant [1]	64/2 64/16 71/18	produce [5] 24/21 101/17 114/19 117/22	85/25 86/9 87/13
14/20 14/21 16/3 16/4	95/13 125/18	101/13	107/17 110/21 124/21	130/19	87/21 88/19 90/2
21/16 21/17 23/8 25/6	posed [2] 81/4 117/17	predominantly [3] 9/6		produced [10] 24/2	90/12 90/14 90/17
25/16 26/5 26/10	position [5] 28/20	51/20 93/9	pretty [3] 85/17 94/18	34/19 50/22 77/12	91/5 92/16 93/22
26/19 27/2 27/23 31/12 31/12 33/10	32/21 45/23 46/12	prefer [4] 102/20	102/6	101/3 114/22 124/5	94/15 96/10 97/25
34/25 35/17 37/16	49/16	102/24 103/2 110/4	prevalence [1] 145/8	137/10 143/22 144/6	100/22 108/2 108/3
38/14 38/14 39/8	positive [2] 65/13	preference [2] 101/15	prevalent [1] 77/14	producer [1] 5/7	110/7 110/8 110/20
39/15 43/16 47/1 49/2	107/14	103/4	prevent [3] 5/25 20/9	producers [1] 138/7	111/3 111/22 112/4
49/3 50/13 50/20	possibilities [4] 28/9	preferences [1]	95/14	producing [1] 97/19	112/11 112/16 112/21
52/10 53/18 55/24	29/3 32/11 33/12 possibility [15] 3/10	113/13 preferred [2] 121/1	previous [2] 18/23 68/2	product [18] 17/24 34/7 73/9 100/11	113/10 113/12 113/14 115/1 115/19 115/22
57/6 58/17 63/15 65/8	15/24 19/23 34/5 45/5	130/6	previously [8] 44/13	112/15 112/21 113/20	116/1 116/3 116/10
65/25 66/8 66/24 68/7	45/16 65/16 67/9	premature [1] 3/12	99/9 107/11 136/24	125/23 130/17 133/7	116/23 117/11 118/2
70/1 71/13 75/11	67/12 79/24 127/25	preparation [6] 33/7	137/1 137/2 137/13	134/12 135/8 137/17	118/10 118/25 119/4
76/16 81/11 87/6	130/13 136/12 141/18	101/7 104/12 109/24	143/16	138/13 138/15 138/22	119/14 119/15 120/18
90/24 91/21 92/9 93/5 94/3 94/11 94/12	146/12	116/7 116/19	price [11] 113/6	142/12 146/18	121/4 121/16 121/19
94/16 95/18 97/9	possible [35] 2/24	preparations [10]	114/20 115/25 116/14	production [7] 28/6	122/7 122/9 122/20
98/19 99/11 99/15	11/8 17/8 21/1 23/4	33/13 34/1 45/17	116/15 117/16 134/6	109/5 124/25 127/15	123/1 123/12 124/10
100/20 101/25 102/8	25/19 28/2 28/25	77/12 100/9 102/18	134/9 134/23 146/7	128/1 128/23 136/14	124/13 125/4 125/21
104/2 105/10 105/11	29/25 32/3 32/15 33/5	104/17 109/20 110/4	146/18	products [103] 2/24	126/3 126/9 128/21
105/23 106/2 106/21	34/4 37/9 38/24 44/10 49/19 50/4 52/23 58/5	136/7 prepare [1] 145/1	prices [5] 116/5 116/5 116/18 134/21 146/10	3/14 3/16 5/24 8/6 8/7 8/21 9/17 10/1 12/11	129/10 131/3 131/13 131/19 132/8 132/8
107/7 108/8 108/14	58/14 60/15 61/12	prepare [1] 145/1 prepared [15] 28/3	Pricing [1] 146/5	12/16 12/21 12/23	132/14 132/16 133/12
112/7 115/16 115/24	62/21 70/10 114/10	28/25 31/13 38/6 52/5	Prime [1] 6/21	13/1 13/4 13/10 16/25	133/25 134/11 135/12
117/5 117/12 118/24	121/24 122/2 122/17	52/14 59/16 59/24	principally [1] 40/23	17/3 17/11 17/15 18/2	139/16 139/25 141/4
120/10 121/14 122/23 123/9 124/6 124/7	135/23 137/12 137/15	86/9 86/11 99/3 99/4	principle [1] 70/12	18/12 18/13 18/25	141/11 141/23 142/20
123/9 124/0 124/7	139/14 142/14 143/24	114/7 144/8 146/21	print [1] 106/12	19/17 20/2 20/22	142/24 144/3 145/14
130/20 132/12 133/19	possible risk [1]	preparing [2] 33/22	prior [2] 47/14 67/20	22/11 22/20 23/20	148/12 148/19
138/12 139/24 140/2	60/15	100/1	priority [1] 15/14	24/16 25/23 26/2	Professor Arthur
140/5 140/24 143/19	possibly [5] 29/18	presence [3] 9/16	prison [1] 47/13	26/22 27/9 27/14	Bloom [1] 82/19
pm [5] 81/12 81/14	58/15 136/7 142/6 143/25	33/6 49/22 present [27] 4/20 7/17	prisoners [1] 48/16	27/23 28/3 28/6 28/25 31/20 33/1 33/22 34/4	Professor Blackburn [1] 115/22
115/8 115/12 149/11	post [5] 45/24 58/19	11/12 12/18 19/24	47/16 47/20 47/24	35/8 36/19 36/20	Professor Bloom [74]
pneumocystis [1]	76/23 77/18 115/22	21/4 33/18 33/23 35/6	48/3 48/6 48/8 48/22	39/20 40/5 41/13 44/1	10/18 10/25 13/13
143/2	post-transfusion [2]	35/7 40/11 42/17	private [1] 128/1	44/9 44/17 44/22 45/2	21/11 26/14 29/19
point [8] 45/18 46/2 46/10 88/16 97/18	76/23 77/18	45/21 52/13 54/11	probable [2] 56/14	49/14 49/20 49/23	31/24 33/16 34/10
99/20 103/21 119/5	posting [1] 39/5	61/4 63/23 66/17	61/11	52/17 53/1 53/4 53/14	44/4 54/9 82/2 82/6
point 4 [1] 45/18	potency [1] 101/7	88/18 100/4 103/2	probably [15] 1/8 2/1	56/16 57/12 58/9 59/5	85/24 86/9 88/19
point 6 [1] 46/2	potential [5] 3/17 28/8		17/12 17/14 33/19	62/8 62/23 68/15	92/16 94/15 96/10
pointed [3] 54/13	29/2 124/22 147/5	131/1 135/25 144/23	43/17 67/14 80/9	68/25 70/11 70/19	100/22 108/2 108/3
119/7 125/24	potentially [5] 66/4 104/18 105/7 121/2	presentation [19] 1/6 1/9 1/24 2/4 2/10	81/25 99/9 99/20 109/17 135/22 145/8	72/17 73/10 75/18 75/24 85/4 100/13	110/7 111/3 111/22 112/4 112/11 112/16
points [3] 35/19 43/25	139/21	38/21 80/6 80/17	148/21	103/8 110/16 113/20	112/21 113/10 113/14
129/12	PPF [1] 114/16	80/18 82/1 82/6 82/7	problem [16] 7/10	116/24 118/11 119/9	115/19 116/1 116/3
policy [11] 30/18	practicable [2] 49/18	82/12 85/11 85/21	12/17 48/11 54/4	129/14 131/16 132/20	117/11 118/2 118/10
33/22 47/6 48/13	50/4	95/23 95/25 125/13	54/14 70/9 77/17	132/25 136/10 137/4	118/25 119/4 119/15
48/23 117/19 120/14 134/3 134/7 134/8	practical [1] 44/10	143/17	88/10 100/10 113/22	137/11 137/21 138/4	120/18 121/4 121/19
134/14	practice [6] 30/13	presentation the [1]		138/8 139/4 139/6	122/9 122/20 123/1
polyelectrolyte [2]	55/21 98/10 122/1	38/21	132/9 141/7 142/15	141/19 142/6 146/2	124/10 124/13 125/4
112/17 135/1	122/21 128/13	presentations [1]	problems [9] 12/9	146/6 147/17 147/20	125/21 126/3 126/9
	practices [4] 44/17	86/20	26/20 27/6 54/14	147/23	128/21 129/10 131/3

(56) plasma... - Professor Bloom

	1				1
Р	prove [1] 128/17	publications [2] 4/6	R	recently [7] 24/6	74/18 74/19 75/12
Professor Bloom	proven [3] 3/9 10/14	76/11		39/11 60/5 90/1 101/1	76/8 77/13 88/25
[ <b>19</b> ] 131/13 131/19	67/8	publicity [5] 21/9 24/1	radically [1] 32/5 raised [4] 54/4 80/20	113/17 144/17	93/20 106/4 106/7
	provide [5] 28/10 29/7			recipients [7] 28/7	106/22 108/11 108/17
132/8 132/14 132/16	96/1 115/14 125/5	publicly [1] 64/24	103/16 116/15	29/2 32/23 49/19	108/19 109/2 109/11
133/12 133/25 134/11	provided [8] 51/15	published [5] 2/20	random [2] 146/25	51/13 52/1 65/15	109/18 111/9 112/20
135/12 139/16 139/25	72/15 85/16 86/24	13/15 30/3 43/14 79/8	147/15	recognised [4] 16/14	115/17 117/8 120/15
141/11 141/23 142/20	111/22 121/13 126/19	pull [1] 85/13	range [1] 133/8	68/13 74/16 104/22	120/20 120/24 123/12
142/24 144/3 145/14	141/15	PUPS [1] 137/1	ranging [1] 102/12	recognition [3] 78/11	124/9 128/2 129/1
148/12 148/19	provides [2] 56/15	purchase [8] 100/8	rate [5] 20/5 22/3	126/5 132/10	130/11 132/6 135/4
Professor Bloom's	145/11	100/12 116/23 126/21	97/23 127/12 140/12	recollection [1] 130/8	136/12 139/23 140/5
[ <b>12</b> ] 13/16 13/18	providing [3] 6/20	131/4 131/9 131/16	rather [9] 41/11 43/7	recommend [2] 35/6	141/9 143/5 145/9
17/19 85/25 90/17	94/6 114/9	134/15	55/6 82/18 102/19	124/23	references [6] 53/20
93/22 110/20 113/12	PRSE0000199 [1]	purchased [1] 127/21	121/4 121/7 136/1	recommendation [7]	69/2 69/11 79/13
115/1 116/23 119/14	4/14	purchases [1] 113/18	142/22	22/17 23/12 28/23	85/18 129/20
122/7	PRSE0000317 [1]	purchasing [3] 109/8	ratio [1] 14/9	35/12 37/14 41/1	referred [7] 9/1 16/6
Professor Lee [1]	2/19	134/3 134/14	rationalise [1] 134/3	79/18	23/5 56/23 61/19
63/2	PRSE0000372 [1]		rationalising [1]	recommendations	120/19 137/2
profilate [2] 91/18	27/16	purity [1] 127/1 purpose [5] 21/8 70/8	134/13	<b>[10]</b> 22/23 23/1 27/18	refers [15] 2/25 19/23
93/3	PRSE0000886 [1]		rationed [1] 114/16		
programme [2] 80/12		82/1 129/11 132/15	Rawlins [1] 68/9	28/22 30/6 35/1 68/7	20/4 24/4 30/6 39/25
135/1	57/25 PRSE0000984 [1]	purposes [7] 7/9 21/4	reach [2] 20/7 65/20	68/25 75/9 79/22	40/24 50/18 59/15
progress [4] 105/15		61/5 131/1 132/1	reached [5] 1/7 35/3	recommended [1]	59/19 62/10 62/24
112/14 119/1 127/7	23/21	135/25 138/13	44/11 46/8 117/20	33/19	71/10 77/16 97/14
progressive [2] 77/22	PRSE0001094 [1]	put [11] 7/10 8/4	reaching [1] 17/16	recommending [1]	reflected [3] 13/10
78/2	01/21	12/15 28/16 42/14	reactions [2] 104/13	46/13	101/14 127/8
project [2] 114/12	PRSE0001137 [1]	43/21 59/2 68/19 69/3	104/15	recommends [2]	reflection [5] 19/13
144/12	74/11	73/14 98/7	reactivation [1] 32/14	27/25 74/5	35/16 55/16 55/17
projected [1] 129/18	PRSE0001351 [1]	putative [1] 66/16	read [3] 8/1 41/16	reconvened [2] 76/8	116/22
projects [1] 135/10	34/25	Q	53/19	108/4	refrain [1] 28/12
promising [1] 46/1	PRSE0002109 [1]		reads [1] 3/5	record [7] 54/2 55/2	refreshment [1] 81/20
proof [10] 8/5 8/19	74/22	quality [5] 53/3	realise [2] 97/23	55/15 95/3 98/20	refusing [1] 54/4
9/15 10/2 22/13 38/8	PRSE0002122 [1]	100/10 103/19 136/17	107/2	104/4 107/8	regard [3] 102/14
54/11 55/4 57/10 59/4	55/25	138/21	really [9] 21/5 38/8	recorded [6] 16/21	104/10 140/19
proper [1] 7/11	PRSE0002301 [1]	quantified [1] 32/25	43/24 86/22 87/17	55/20 95/15 110/9	regarded [4] 22/16
properly [3] 103/16	37/16	quantities [1] 126/22	93/23 101/21 122/6	110/14 120/3	105/5 105/7 117/2
138/3 147/13	PRSE0002501 [1]	quantity [2] 60/4	133/17	records [1] 95/5	regarding [4] 116/3
prophylactic [6] 96/8	79/9	103/25	reason [8] 2/2 66/20	recovery [3] 102/15	117/19 120/15 121/24
96/18 97/5 97/7	PRSE0002580 [1]	quarter [2] 81/22	101/9 108/25 116/24	102/16 138/2	region [2] 54/14 97/17
119/16 119/19	77/3	81/25	130/6 148/4 148/7	recruiters [1] 37/25	regional [12] 15/19
prophylaxis [2] 96/12	PRSE0002741 [2]	quarters [2] 46/17	reasonably [1] 114/3	recurrent [2] 3/2	38/16 38/22 41/3 47/7
123/23	26/5 26/11	110/8	reasons [8] 17/4	118/22	61/1 66/18 74/24
proportion [2] 63/18	PRSE0003126 [1]	question [28] 7/1 8/22	17/10 17/10 17/16	Red [2] 5/7 37/19	97/12 130/22 131/11
66/17	76/16	8/24 9/25 24/9 40/4	20/8 135/21 137/25	redeveloped [1] 52/15	
proportionately [1]	PRSE0003946 [1]	41/9 41/21 42/14	144/6	reduce [6] 49/19 50/4	
97/19	124/6	47/25 54/23 57/25	reassurance [1] 1/16	70/10 125/17 136/8	47/19 48/6 48/7 97/20
proposal [1] 17/4	PRSE0004440 [1]	69/19 69/24 70/4	recall [3] 6/20 13/23	137/16	97/22
proposals [2] 71/15	53/18	75/15 78/9 78/20 79/1	141/17	reduced [4] 31/4	Registrar [1] 62/4
147/14	PRSE0004496 [1]	99/24 103/16 110/18	receive [4] 33/3 44/18	42/16 136/21 137/5	regular [5] 94/20
propose [1] 80/16	20/13	117/17 118/10 121/20	44/25 54/21	reduces [2] 53/7	96/14 97/1 113/16
proposed [8] 31/3	PRSE0004509 [1]	122/11 129/3 132/6	received [16] 6/6	71/20	145/4
32/15 71/13 106/4	56/22	questions [11] 6/21	10/21 11/6 12/2 12/20	reducing [2] 33/6	regulations [3] 52/21
115/21 124/21 125/4	PRSE0004533 [1]	12/13 13/7 29/5 31/5	15/10 16/12 16/18	33/12	59/18 60/1
145/9	53/15	35/11 78/25 81/5 81/6	36/9 36/18 36/20	refer [1] 112/9	regulatory [3] 138/15
proposes [1] 68/14	PRSE0004555 [1]	122/6 131/1	86/25 86/25 99/1 99/8	reference [65] 6/9	138/19 138/23
proposing [3] 21/3	73/25	quickly [2] 80/2 112/3	140/13	7/22 9/3 9/4 9/18	relate [1] 86/15
23/6 53/5	PRSE0004729 [1]	quite [7] 36/4 55/3	receiving [8] 2/25	11/25 12/7 12/12 14/7	related [6] 44/8 56/15
prospect [1] 62/24	47/1	92/12 101/4 133/14	3/14 17/24 25/24 26/1	15/5 18/16 20/23 21/8	62/9 108/19 116/14
prospective [2] 3/10	public [5] 13/11 49/16		111/5 111/10 142/3	22/3 25/9 26/3 26/7	119/4
147/12	70/8 71/13 76/3	quote [2] 5/2 56/18	recent [8] 21/9 24/1	29/23 38/3 41/20	relates [1] 10/5
prospects [1] 62/19	publication [9] 29/13	quoting [1] 41/19	58/4 58/25 123/20	49/24 50/20 51/3	relating [4] 2/2 28/16
proteins [1] 76/19	37/17 62/25 63/8 63/9		126/16 134/20 144/10	56/20 59/24 60/18	73/6 148/19
hiorenia [1] 10/19	73/19 74/3 77/3 87/8		120/10 104/20 144/10	65/5 68/23 74/17	relation [31] 1/10 1/13

(57) Professor Bloom... - relation

	1				
R	39/17 50/7 51/1 54/17	resulted [4] 125/20	49/19 50/5 58/14	say [23] 19/2 19/16	108/14 111/6 115/20
	55/3 57/4 57/19 62/14	126/9 137/16 146/10	104/12 129/21	42/9 42/25 43/9 43/13	117/14 123/10 123/11
relation [29] 2/15	63/12 72/11 73/2	resulting [1] 131/24	Rizza [8] 26/14 29/20	43/24 46/6 49/17	132/2 146/12
14/1 17/23 22/10 23/7	73/18 135/15 142/3		108/7 126/9 128/22	57/10 58/15 64/5 68/4	
25/8 28/21 29/19		results [3] 79/23			secondary [1] 51/22
29/19 31/3 38/12	reporting [3] 4/6 51/2	94/25 138/10	139/17 145/15 145/23	73/1 86/19 90/9	secondly [3] 79/3
45/24 53/3 58/13	111/1	resume [1] 148/18	Robert [2] 61/6 61/13	107/21 116/2 133/6	83/3 116/17
63/13 70/1 71/5 72/3	reports [7] 8/2 8/3	resuming [1] 1/22	role [4] 65/1 83/12	135/18 142/7 142/21	secretary [9] 49/6
	22/4 28/17 56/3 59/1	retained [1] 86/10	83/23 85/1	144/3	49/9 58/2 75/16 75/19
72/25 73/24 74/21	75/20	rethink [1] 33/21	room [2] 88/5 88/6	saying [9] 19/4 42/3	126/10 126/13 126/15
79/22 83/14 92/2	representative [2]	return [8] 45/14 90/25	rooms [1] 88/11	55/6 58/20 107/1	128/25
92/13 96/18 101/16	26/15 117/18	92/1 101/14 103/23	rose [1] 87/25	110/9 110/14 121/3	secure [1] 88/11
116/15 138/18	representatives [4]	133/1 147/4 149/9	roughly [1] 93/2	141/12	Security [3] 16/9
relationship [4] 32/16	7/3 7/13 108/21 129/7			says [41] 16/23 18/23	
38/10 41/9 130/9		returning [1] 76/6	round [2] 23/22		57/17 83/19
relative [2] 102/12	request [5] 43/7 120/5		133/21	21/22 23/14 25/12	see [136] 2/22 4/12
119/24	128/20 134/20 139/5	90/23 91/1 92/10	routes [1] 70/16	29/20 29/24 31/25	5/2 6/17 8/17 9/3 14/2
relatively [4] 24/19	requested [1] 42/20	119/2 123/18	routine [1] 4/24	39/8 51/4 51/11 56/6	17/9 17/9 18/11 18/15
	requests [1] 5/10	revealed [2] 4/22	Royal [5] 56/19 62/4	58/22 59/20 60/3 62/5	21/20 22/21 23/12
37/25 63/19 93/19	require [2] 64/2 88/20	64/17	87/19 97/16 131/19	62/11 65/10 65/17	25/7 25/15 25/17
relatives [2] 104/19	required [3] 102/18	revert [1] 54/7	RTDs [2] 38/22 39/4	71/11 72/8 74/13	26/13 27/12 28/21
105/9	129/22 138/14	review [1] 7/20		77/13 88/19 96/19	31/16 31/22 32/9
relevance [1] 134/8	requirement [3]	reviewed [2] 16/24	S	98/9 100/6 100/23	35/23 37/20 38/15
relevant [6] 34/22	123/21 127/12 130/1		safe [8] 24/19 64/25		38/20 39/8 40/7 40/10
53/20 63/1 68/17 80/4		30/23		101/5 101/20 104/6	
131/1	requirements [2]	revised [2] 65/6	137/21 145/21 146/17	116/1 119/6 123/3	41/14 43/3 45/16
reluctant [2] 38/25	129/14 138/19	117/22	147/17 147/23 149/8	123/14 123/24 126/14	48/21 50/24 51/11
114/5	requiring [4] 9/9	RHAs [1] 71/15	Safer [1] 74/12	134/1 142/13 144/7	53/9 56/1 56/2 57/18
rely [1] 48/6	32/18 136/23 145/3	Richard [1] 23/10	safety [8] 31/15 43/20	145/5	57/21 57/24 58/17
	research [15] 12/8	Richards [3] 1/3 2/10	50/6 79/15 79/21	scanning [1] 59/15	60/13 61/9 61/17
relying [1] 47/13	23/13 26/16 27/11	148/16	116/16 138/16 147/10	Scarborough [1]	61/25 62/5 63/16
remain [3] 62/14 75/5	46/4 61/13 63/11	rife [1] 41/6	said [37] 5/9 13/9	87/21	64/12 68/8 70/7 70/16
123/5	73/15 84/8 89/2 89/3	right [12] 8/24 15/3	21/5 22/21 30/25	scare [1] 54/6	73/25 74/1 74/12
remains [2] 20/20	112/18 114/12 114/13	26/11 26/12 27/1	31/16 36/25 55/3 61/9	scheduled [2] 149/1	75/18 76/16 77/3
32/16	134/25	37/22 58/1 67/14	70/17 80/10 83/25	149/3	78/16 78/19 81/9
remarks [1] 123/1			87/15 103/11 103/12		
reminder [2] 86/2	Researchers [1]	75/12 77/25 126/13		scheme [1] 12/25	83/21 87/15 88/13
121/5	76/18	133/6	104/11 104/15 106/15	School [2] 23/10	90/25 91/6 91/12
remote [2] 39/22	reserve [1] 30/16	right-hand [3] 37/22	109/22 109/25 113/23	23/11	91/16 91/17 91/19
141/18	resident [2] 33/2	58/1 77/25		Science [2] 23/4	91/21 92/4 92/14
remotely [1] 1/6	44/23	rise [2] 123/21 127/12		78/17	92/21 92/25 93/8
	resolution [2] 125/6	risk [71] 1/7 8/6 9/5	120/4 120/18 124/13	Scientific [2] 49/7	93/18 94/4 94/8 94/14
remove [1] 62/22	126/7	9/11 11/15 17/2 17/25	128/5 129/3 130/14	85/3	94/16 94/18 94/22
repeat [1] 142/18	resolving [1] 62/19	18/19 19/13 19/18	132/16 133/21 140/19	Scientists [1] 61/10	95/2 95/10 95/21 96/7
repeated [2] 8/18	resources [2] 128/9	21/5 24/22 26/1 28/11	146/21	scope [1] 49/20	97/5 98/11 98/22
32/13	147/21	29/8 30/11 31/8 32/21	sales [1] 134/25	Scotland [3] 24/3	99/14 99/16 100/16
repeatedly [4] 33/3	respect [4] 22/10 28/1	32/24 32/24 32/25	same [16] 5/12 5/16	48/12 117/22	102/2 102/5 102/6
44/18 44/25 131/7			16/19 20/14 21/14		
replacing [1] 45/7	31/20 139/6	33/23 34/13 36/25		Scott [2] 56/19 57/19	105/2 105/13 105/19
replied [1] 54/9	respects [3] 82/23	39/14 40/21 41/24	26/24 49/5 50/20	Scottish [2] 26/15	105/20 107/1 108/12
reply [3] 101/19	82/23 93/19	42/1 42/4 42/22 43/3	54/17 59/17 60/7	108/22	108/15 108/25 109/14
134/20 142/24	responding [2] 58/21	43/10 44/19 44/20	113/10 118/20 122/10	screen [9] 13/21	110/6 111/1 111/3
report [29] 3/19 3/25	72/6	44/21 45/20 47/16	122/25 125/11	26/25 64/8 68/19	112/4 115/2 115/18
	response [11] 31/7	52/3 52/12 52/23 53/1	San [5] 3/22 6/6 6/10	69/24 70/13 73/14	115/20 116/12 117/17
12/3 14/1 14/11 21/17	41/14 54/24 83/13	53/7 53/10 60/1 60/10	20/4 38/11	73/25 94/3	119/1 119/13 120/7
21/24 23/3 26/8 26/9	83/24 120/4 122/4		San Francisco [4]	screened [1] 95/16	120/12 121/17 122/8
43/18 53/16 56/10	124/21 128/24 134/17	66/13 67/5 68/1 68/13	3/22 6/10 20/4 38/11	screening [11] 33/8	123/11 124/11 126/10
56/20 56/21 57/5	143/13	70/10 70/22 71/20	satisfactory [2] 59/21	33/8 42/17 63/10	129/6 129/10 130/21
57/22 62/10 66/2	responsibility [1]	72/4 74/14 74/20	110/2	65/13 70/4 70/5 70/21	132/15 133/10 135/11
72/25 81/9 86/9 86/11	83/1	80/21 99/7 99/10	satisfactory' [1] 88/24		137/4 139/16 140/5
86/15 94/21 119/2					
140/3 141/17 144/5	responsible [4] 9/14	126/4 126/6 130/5	satisfied [1] 33/21	scroll [3] 6/3 105/17	140/17 140/23 145/22
reported [28] 3/25	32/13 44/14 76/20	130/8 136/9 137/16	satisfy [1] 33/19	106/21	see this [1] 64/12
10/19 11/19 14/5	rest [2] 1/8 135/10	138/5 138/8 143/17	save [1] 105/4	second [23] 20/24	seeing [5] 13/23
16/13 16/17 16/20	restore [1] 77/9	risk/benefit [1] 34/13	Savidge [2] 120/13	23/13 37/20 49/10	21/15 37/12 46/20
	restored [1] 113/5	risks [14] 8/8 20/18	120/13	58/23 62/1 62/12 63/7	149/9
18/1 18/5 18/7 18/24	restriction [1] 30/20	28/10 29/4 33/12	saving [2] 45/4 68/20	66/6 66/8 70/7 72/8	seeking [1] 53/2
22/7 29/15 29/25	result [1] 69/5	42/16 44/9 45/1 48/2	saw [2] 62/1 98/20	78/1 94/16 100/24	seeks [1] 70/12
					•••
L	L	L	L	L	(59) relation

(58) relation ... - seeks

					, ,
S	139/22	share [1] 97/24	simple [2] 37/2 101/8	so [133] 1/16 1/20	18/15 20/20 22/1 24/1
seem [5] 52/3 58/19	September 1983 [3]	shared [3] 7/11 80/22	simply [2] 2/3 55/16	2/12 4/2 5/11 6/11	37/13 39/3 47/14 48/3
63/25 84/8 105/2	43/15 50/8 53/9	95/8	since [15] 10/22 11/6	6/17 11/20 14/13 15/6	48/18 50/25 52/18
seemed [2] 36/6	September 22 [1]	she [7] 41/22 54/6	12/19 26/21 27/7	15/25 16/7 17/7 17/10	65/3 69/8 75/9 82/13
141/6	50/15	54/15 62/10 62/17	48/14 52/4 62/20 99/5	19/3 19/4 20/8 23/2	83/16 84/9 85/5 85/22
	sequelae [1] 74/20	62/24 107/2	103/13 109/15 109/16	28/11 28/19 29/25	86/2 86/13 90/4 93/10
seemingly [1] 27/13	series [6] 2/17 2/20	sheet [1] 25/15	127/10 138/4 145/1	31/19 34/17 34/21	93/19 93/25 96/1
seems [10] 5/4 31/1	79/14 89/9 112/3	Sheffield [1] 38/16	since 1980 [1] 10/22	35/12 37/13 38/3	97/22 102/19 103/21
32/12 42/2 44/13	131/21	Sheila [1] 80/11	single [3] 26/2 32/12	38/12 38/15 40/15	104/1 104/4 105/1
56/13 65/24 84/21	serious [4] 3/15 25/4	Sherlock [1] 80/11	95/24	42/19 42/23 44/20	105/2 105/2 110/6
91/14 148/2	33/23 45/21	shift [1] 117/23	sir [71] 1/4 2/12 8/17	45/15 46/9 49/5 49/15	111/19 112/4 112/12
seen [11] 16/6 18/14	seriously [1] 137/24	short [5] 46/23 112/3	10/23 13/7 13/14	50/15 50/16 50/22	112/20 113/12 114/3
57/9 85/6 87/18	seriousness [4] 78/11	115/9 115/11 134/24	18/14 21/4 22/21	51/6 53/9 53/11 55/2	114/11 114/24 121/8
103/23 127/10 132/23	80/12 132/4 132/9	shortage [4] 47/20	22/25 27/12 28/16	55/16 57/4 58/18	121/15 121/16 130/3
134/10 144/4 144/5	serum [5] 94/7 94/10	96/4 96/6 132/21	28/21 29/5 29/12 31/5	59/19 60/7 60/9 60/18	132/22 135/22 142/11
seldom [1] 140/9	104/17 104/20 105/6	shortening [1] 1/12	37/14 40/3 41/7 43/13	60/19 60/24 62/25	148/13
seldom-treated [1]	served [2] 46/19	shorter [1] 2/8	45/13 46/6 46/8 46/25	63/12 63/16 63/25	Someone's [1] 57/8
140/9	114/17	shortfall [4] 124/5	48/17 50/1 53/9 54/23	64/20 66/4 67/15	something [4] 24/7
selected [2] 28/7	service [15] 7/5 24/3	124/14 126/18 127/20	55/8 56/2 59/10 60/24	68/10 69/6 69/21	60/19 69/17 121/2
104/8	40/25 41/23 42/18	shortly [2] 6/7 23/2	62/2 63/5 63/6 67/14	72/19 73/12 77/2	sometime [1] 81/24
selection [2] 52/22	75/8 84/25 85/2 85/10	should [68] 1/4 2/1	68/20 69/2 69/9 69/11	78/25 80/16 80/24	somewhat [1] 32/6
82/17	114/19 124/5 128/8	3/10 3/16 7/19 11/10	69/20 72/2 72/19	81/1 81/8 81/15 81/22	somewhere [1] 106/7
self [15] 12/22 13/3	129/8 130/23 147/16	11/17 13/1 15/14	73/23 76/4 76/8 77/5	82/12 82/25 85/6	soon [6] 17/7 66/20
28/5 43/11 52/17 59/8	Service-produced [1]	15/15 17/1 20/9 22/16	78/13 78/21 79/6 80/4	85/20 86/2 86/18	88/22 114/10 137/15
96/12 102/10 103/7	124/5	22/17 24/6 26/22 27/9	80/6 81/2 82/1 86/2	86/19 87/15 91/6	139/14
105/16 106/8 108/12	services [7] 37/24	30/10 34/15 35/7	87/3 115/13 116/12	91/14 92/9 94/2 94/20	sorry [9] 26/6 26/11
118/20 123/13 147/20	58/2 126/14 145/20	38/23 40/1 40/17 41/9	117/4 119/4 119/21	94/25 95/3 95/7 96/5	93/4 105/16 105/19
self-administration [1]	147/5 147/18 147/21	41/23 42/12 43/13	128/24 141/16 143/14	96/17 97/4 97/16	106/3 133/21 133/23
96/12	session [2] 39/1	49/12 53/4 54/19	143/22 145/11 147/7	97/21 99/8 101/12	142/21
self-identify [1] 43/11	64/15	54/21 59/11 61/12	147/24 148/10 148/18	103/3 106/13 106/24	sought [1] 47/9
self-sufficiency [8]	set [30] 17/4 31/9	67/6 67/11 67/18 69/1	149/4	107/16 107/20 108/5	source [9] 8/9 38/7
28/5 52/17 102/10	35/2 43/2 51/9 55/14	69/1 69/20 79/1 79/19	sister [2] 88/7 89/23	109/2 110/7 110/13	47/14 47/22 47/24
105/16 106/8 108/12	59/9 65/17 68/7 69/14	81/19 95/14 95/18	sits [1] 82/5	110/21 111/3 113/4	48/4 48/8 67/19
118/20 123/13	69/18 71/4 78/13	97/21 98/7 106/22	situation [7] 30/22	113/13 113/20 114/24	114/24
self-sufficient [4]	82/15 86/14 86/18	107/4 109/12 114/22	36/25 65/23 117/19	117/8 117/14 120/1	sources [3] 48/18
12/22 13/3 59/8 103/7	90/18 90/23 92/25	118/6 120/2 121/6	118/5 124/15 124/19	120/7 120/12 120/13	126/23 127/22
send [5] 39/1 94/25	106/25 109/9 113/6	121/25 122/12 122/16	six [4] 97/2 97/3 99/1	121/2 121/15 121/19	South [1] 24/3
95/4 98/2 112/20	118/7 121/16 127/14	123/9 125/5 125/7	125/2	122/8 124/8 124/12	Southampton [1] 54/4
senior [2] 62/4 107/11	128/17 129/11 138/14	128/8 128/18 133/23	size [4] 13/3 119/11	126/2 128/20 130/8	space [1] 88/9
sensational [1] 8/3	138/18 146/14	142/21 146/21 147/17	130/4 130/15	132/24 133/25 136/25	Spain [5] 10/6 15/11
sensationalised [1]	sets [7] 17/16 18/8	147/18 147/21 148/6	size capable [1] 13/3	140/2 142/20 143/19	16/2 16/17 36/2
7/16	19/7 21/2 22/1 32/7	shouldn't [2] 42/4	sizes [4] 119/23	149/6	sparing [1] 112/12
sense [2] 91/11	146/4	67/12	119/24 126/4 130/10	so-called [1] 51/6	sparingly [1] 34/4
100/21	setting [1] 17/10	show [7] 6/8 23/7	skip [4] 35/22 91/25	social [8] 16/9 57/17	speaker [1] 32/2
sent [5] 29/22 111/21	seven [4] 3/20 19/3	50/14 64/24 98/9	104/14 114/1	58/2 83/19 88/25	speaking [1] 99/20
125/7 126/7 135/25	115/20 120/2	127/5 133/11	skipping [2] 63/20	89/16 90/6 126/14	special [9] 8/10 21/7
sentence [3] 19/6	several [7] 18/10	showed [3] 107/14	101/5	socially [1] 46/18	66/13 68/1 68/13
64/5 138/19	19/25 51/17 78/12	133/1 133/2	slightly [2] 39/3 57/8	Societies [1] 37/19	68/22 89/7 146/18
sentences [1] 78/1	103/12 116/8 137/25	shown [1] 70/24	slip [1] 41/4	Society [11] 7/6 7/6	147/5
separate [1] 78/25	severe [10] 11/6	shows [3] 133/6 133/7		7/11 7/13 7/23 13/15	specialised [1]
September [18] 1/1	27/21 36/11 87/22	137/12	small [19] 17/23	61/22 62/25 84/16	122/13
43/15 48/1 49/1 50/8	124/14 129/25 131/23	side [1] 138/2	17/25 18/18 26/2	84/18 85/8	specific [3] 42/23
50/12 50/15 50/22	145/3 145/7 147/2	significance [5] 10/17		Society's [3] 83/20	49/24 111/5
53/9 105/13 118/23	severely [2] 88/19	22/9 63/23 108/1	93/19 98/4 99/10	83/23 87/8	specifically [2]
121/8 121/17 124/8	96/15	132/10	104/16 112/17 115/14	soluble [1] 100/11	100/15 119/4
139/22 139/23 141/16	sexual [4] 42/11 43/5	significant [5] 60/25	117/9 125/16 130/1	solution [2] 33/24	specified [1] 111/23
149/12	44/17 70/18	73/6 82/21 103/25	130/4 130/16 137/13	45/22	speculation [1] 41/5
September 1975 [1]	sexually [1] 4/19	133/6	smaller [4] 81/18	solved [3] 88/10	speed [2] 73/7 73/7
105/13	shall [5] 48/10 48/13	signs [2] 6/8 15/4	91/17 92/6 92/22	123/5 128/9	Spence [2] 14/25 16/5
September 1980 [1]	59/22 81/15 81/16	similar [2] 40/24	Smith [1] 24/2	some [60] 6/15 7/16	spend [1] 64/19
121/17	shaping [2] 83/12	116/8	snapshot [1] 93/13	8/3 10/5 10/9 10/24	spending [1] 64/18
September 1982 [1]	83/23	similarity [1] 23/17	snapshots [1] 90/22	11/19 11/21 14/18	spent [1] 64/21
			Lange Lag a strain		
L	4	4			4

(59) seem - spent

	1				
S	64/16 73/10 74/22	42/12 43/6	supposed [2] 32/17	124/17 127/19 129/4	62/15 66/21 81/18
Cnowned [7] 110/11	91/15 96/4 103/24	suffers [1] 104/7	108/16	talk [2] 62/18 124/4	82/14 82/18 97/19
Speywood [7] 112/11	127/20 129/25	sufficiency [8] 28/5	suppressed [1] 3/13	talked [1] 123/3	97/21 100/3 121/4
116/22 133/11 133/19	stock [1] 60/4	52/17 102/10 105/16	suppressor [1] 14/9	talking [2] 60/19	121/7 133/3 136/1
134/1 134/18 135/2	Stockholm [1] 35/20	106/8 108/12 118/20	sure [10] 36/4 46/18	119/18	140/14 142/22
spirit [1] 128/3	stocks [1] 60/6	123/13	65/7 75/11 92/12	tally [1] 16/19	thank [18] 3/4 13/6
spleen [1] 122/15	stop [2] 54/10 148/11	sufficient [7] 12/22	124/16 133/22 139/19	tap [1] 19/14	23/22 26/12 27/5
split [1] 113/18	stopped [1] 113/21	13/3 59/8 74/4 101/22	142/2 143/8	target [9] 32/3 110/18	43/12 56/1 57/8 73/25
Spooner [1] 143/20	stories [2] 6/21 6/23	103/7 114/19		110/21 117/20 117/22	81/4 81/9 106/11
spread [6] 47/18			surprising [2] 110/3 145/13	117/24 118/4 118/6	106/14 112/12 120/12
51/12 51/18 51/22	story [1] 6/12	sufficiently [2] 13/10	1		
70/9 95/14	straightforward [2]	118/12	surrogate [8] 74/5	118/6	143/1 148/16 149/10
spreading [1] 40/21	40/3 40/4	suggest [4] 10/23		targets [2] 47/9 47/22	Thanks [1] 57/14
spreads [1] 5/17	strain [1] 76/24	14/17 83/11 132/23	76/13 79/2 79/11	team [1] 144/12	that [450]
St [3] 5/3 82/12	Strategies [1] 44/8	suggested [8] 31/15	surrounding [1] 40/17		that's [42] 13/19 26/8
120/13	strength [1] 41/15	32/2 32/7 34/17 41/11	surveillance [3] 8/10	85/2	34/17 40/12 53/19
St Thomas' [1] 82/12	strengthened [1] 5/21	62/7 62/9 137/4	8/11 12/6	technician [1] 98/2	54/19 55/6 56/18 57/4
St Thomas's [1]	stressed [3] 37/3	suggesting [3] 20/8	survey [2] 105/25	Tedder [1] 23/10	57/18 60/19 61/6
120/13	63/22 103/17	33/15 53/12	111/2	Telegraph [1] 56/3	62/25 65/6 67/14 68/5
stability [1] 146/5	strict [1] 34/21	suggestion [11] 33/25	surveyor [1] 140/6	telephoned [2] 14/25	73/21 76/9 80/16 86/4
	striking [1] 23/17	34/3 50/3 98/6 101/12	susceptibility [1]	144/14	89/12 89/19 92/7
staff [9] 58/11 87/5	strong [6] 36/15 37/25	114/9 118/16 131/8	44/15	tell [4] 86/5 96/9	93/13 101/14 104/9
88/14 88/15 89/1	64/17 65/1 72/16	136/25 143/11 144/12	susceptible [5] 24/12	97/25 107/25	106/11 106/17 107/16
89/16 95/15 98/5	125/6	suggestive [3] 10/4	24/15 25/3 43/2 51/7	ten [6] 22/6 39/23	111/20 116/13 116/14
128/17	strongly [4] 3/9 38/23	38/10 52/9	suspect [2] 10/15	74/16 124/12 141/2	116/21 116/24 117/3
staffing [2] 87/14	41/17 62/7	suggests [8] 3/9	12/3	148/17	120/13 139/1 139/18
89/14	struck [1] 4/19	20/20 32/1 37/2 43/14	suspected [2] 4/23	ten o'clock [1] 148/17	139/21 139/24 141/20
Staffs [1] 49/8	structure [2] 134/23	44/20 75/7 78/6	36/20	tending [1] 9/14	148/2
stage [7] 12/17 45/15	146/19	suitable [4] 80/5	suspicion [1] 38/5	tension [2] 76/2 121/2	
69/21 69/23 91/15	studied [1] 89/11	124/2 127/17 135/6	suspicions [1] 5/21	term [3] 100/9 104/22	the non-A [1] 76/24
108/2 108/24	studies [9] 3/10 35/10	suite [1] 88/11	Sweden [1] 36/8	104/24	their [28] 2/7 10/8
standardise [1]	62/8 63/24 78/20 89/8	summarise [1] 35/19	Swiss [2] 5/7 15/23	terms [22] 21/4 31/10	24/16 25/4 29/9 32/15
130/18	136/19 137/24 138/3	summary [4] 3/2	switch [2] 11/17 55/23		39/5 45/3 47/10 48/1
stark [1] 53/11	study [8] 79/7 79/24	43/25 94/21 129/12	switching [1] 116/25	70/15 70/17 89/2	53/3 54/22 58/25
start [9] 1/20 82/3	106/5 137/7 137/12	Sunday [4] 4/15 4/22	Switzerland [1] 5/8	89/14 91/16 91/18	65/23 85/23 86/6 95/7
82/7 85/12 87/3 88/21	140/10 147/2 147/16	5/12 10/19	symposium [4] 121/9	91/20 91/22 93/13	96/11 97/24 103/13
101/15 135/17 148/20	subcommittee [6]	supervise [1] 88/8	121/16 122/24 123/8	93/14 93/18 95/9	106/25 113/2 115/3
started [1] 89/8	31/14 31/18 31/23	supplement [1]	symptoms [5] 9/4	113/1 130/17 131/15	116/6 116/19 137/22
starting [1] 114/13	43/19 44/3 46/13	132/19	15/4 18/2 18/24 19/25	132/8 134/18	138/8 139/9
state [12] 7/17 40/12	subject [9] 17/5 21/23	supplementary [1]	syndrome [10] 6/19	territories [1] 29/16	them [15] 11/1 43/21
49/9 58/2 71/10 75/16	59/17 59/25 86/22	7/1	14/3 14/4 21/21 25/22	test [21] 3/15 5/6	43/22 45/7 47/21
75/19 121/24 126/10	86/23 114/14 136/11	supplied [1] 111/16	58/8 66/7 143/8	42/17 61/12 63/10	68/19 68/21 81/1
126/14 126/15 128/25	147/25	supplier [1] 113/6	144/11 144/17	63/12 64/7 64/11	89/18 102/22 112/6
stated [1] 103/4	submission [4] 70/3	suppliers [2] 114/4	system [5] 8/10 25/5	64/18 65/13 69/24	118/20 136/15 139/14
statement [8] 72/20	70/4 70/8 71/11	134/22	48/5 88/4 111/14	70/13 70/21 71/5	142/21
89/22 89/24 90/2 90/6	submissions [1]	supplies [14] 5/4 8/9		76/25 76/25 78/18	theme [1] 95/21
90/11 133/14 147/11	139/20	15/20 15/23 30/16	Т	79/5 79/23 107/14	themes [3] 118/22
statements [5] 7/15		31/2 54/16 56/9 56/13	take [20] 1/8 6/24	140/22	148/2 148/3
13/11 76/3 89/15	submitted [4] 21/24	99/18 102/17 117/15	7/19 7/25 11/13 22/18		
89/15	77/1 90/19 91/1		28/1 28/23 34/20 48/6	tested [3] 63/19 98/16 136/15	
States [4] 4/1 20/24	subsequent [1] 94/5	125/9 139/9			112/25
27/25 72/12	substantial [2] 67/6	supply [22] 25/19	79/6 80/8 86/13	testing [18] 9/16	then [263]
statistics [2] 127/4		34/2 45/9 45/19 45/24	115/22 122/5 148/13	49/21 65/4 74/5 74/9	theories [1] 143/24
127/10	subtext [1] 42/2	52/24 59/23 60/7 96/3		74/23 75/2 76/12	theory [2] 6/5 34/6
status [1] 146/18	succeed [1] 115/21	96/23 97/10 99/24	<b>taken [11]</b> 8/14 13/12 20/9 20/17 21/18 25/2	76/14 79/2 79/3 79/11	therapeutic [2] 62/22
stay [1] 149/8	Successful [1] 123/4	100/10 101/3 102/10	51/24 68/4 69/21	79/19 79/23 94/25	99/18 Therapoutics [1]
steady [1] 109/16	such [20] 3/10 5/25	106/14 107/1 107/3	79/25 95/14	98/13 112/21 113/1	Therapeutics [1]
step [1] 33/18	9/7 9/17 13/13 22/16	111/4 117/19 118/21		tests [7] 9/18 63/21	20/17
steps [6] 21/2 22/19	25/25 28/6 28/8 30/12	128/6	takeover [2] 124/22	73/8 78/20 107/25	therapy [21] 30/22
28/1 28/23 69/20 96/1	31/9 45/21 53/7 58/13	supplying [2] 110/2	128/21	122/15 123/6	54/8 54/21 64/2 88/19
still [16] 1/6 36/13	60/6 75/24 96/21	111/14	takes [2] 115/5	text [1] 60/21	88/21 96/8 96/18 97/5
37/11 38/23 48/21	123/22 130/16 138/7	support [1] 139/10	124/10	than [24] 2/8 4/20	97/7 97/8 103/9
49/15 60/4 60/11	suffering [7] 4/24 5/5	suppose [2] 71/12	taking [8] 11/24 37/6	11/15 22/6 26/1 36/7	103/17 103/17 103/20
	22/13 39/24 40/1	133/13	49/18 50/4 82/14	41/11 43/7 43/24 55/6	103/22 119/16 119/19
			1		

(60) Speywood - therapy

	1		1		
Т	things [1] 94/23	53/13 61/8 75/17	toward [1] 120/1	20/18	62/14 66/10 68/18
	think [41] 2/21 7/12	75/23 80/2 85/14	towards [8] 17/17	treat [5] 52/19 92/10	69/11 69/12 69/25
therapy [3] 120/17	13/6 22/25 23/23 26/6	86/13 88/14 92/21	23/24 50/11 105/16	93/6 101/22 103/12	78/1 78/25 85/5 90/21
120/23 121/1	26/10 26/24 27/3	97/5 142/10 147/13	106/13 110/17 118/9	treated [27] 15/8	96/3 98/3 100/7
there [193]	28/19 34/19 36/6	throughout [1] 117/25	1	15/12 53/5 56/13 66/3	113/20 114/4 115/13
there's [61] 7/22	38/11 42/21 49/12	Thursday [4] 1/1	traced [1] 10/20	67/5 67/9 67/24 68/15	130/4 140/5 144/17
11/25 12/7 12/9 14/7	54/3 57/4 57/24 69/25	148/22 149/1 149/3	transfer [1] 131/9	73/9 73/10 91/6 91/9	144/24
19/2 20/23 24/9 25/9	71/7 72/2 78/15 80/9	thus [2] 62/14 138/21	transferred [1] 48/7	91/23 92/3 92/17	type [3] 91/13 117/1
29/12 38/8 39/11	81/18 87/10 92/7	time [44] 21/12 21/14	transfused [2] 3/12	92/18 92/19 93/7 94/9	140/15
41/11 41/20 46/4			16/22	95/7 97/17 107/18	
49/24 51/3 53/6 56/4	97/22 99/9 112/3	23/3 46/18 47/14 49/5		137/3 138/9 140/9	types [5] 78/5 90/21 92/20 121/25 129/22
60/18 66/25 69/3	115/5 121/11 122/19	52/18 56/12 59/12	transfusion [58] 7/5		
74/10 74/20 79/7	123/10 130/25 133/2	61/24 68/20 69/15	12/1 12/7 15/19 15/20	140/12	TYWE0000048 [1]
79/16 79/18 88/25	133/5 133/23 145/13	72/14 72/23 79/6 81/9	21/20 22/11 22/20	treating [3] 34/6 96/24	00/20
92/3 95/11 96/9 98/6	148/5 148/8 148/10	81/21 81/24 82/9	24/1 24/3 24/20 27/11	119/17	U
100/5 103/8 105/25	thinking [1] 137/25	83/16 87/21 88/16	37/17 37/23 38/13	treatment [76] 2/7 9/9	
106/4 109/16 109/23	third [10] 25/16 27/19	100/23 101/13 101/24	38/16 38/22 39/19	30/10 30/14 30/24	UK [35] 10/11 10/14
111/12 111/14 112/19	33/10 35/1 62/18	109/9 112/12 114/14	40/25 41/3 41/23	33/15 35/6 35/7 56/15	24/18 24/18 24/25
114/8 116/10 118/1	63/15 93/4 109/22	114/16 115/6 115/7	42/18 47/8 47/12	62/24 66/4 67/20 72/1	30/5 33/20 33/21 34/1
119/22 121/5 121/6	143/25 147/9	116/8 116/20 121/11	47/18 48/12 50/9	78/4 83/1 83/17 85/24	41/18 45/8 45/17 46/5
122/4 126/24 129/3	thirdly [3] 28/10 83/8	125/19 131/7 132/20	51/23 61/2 70/19	87/20 88/1 88/4 88/6	53/1 53/23 65/12
129/18 130/11 132/6	86/8	132/20 139/11 140/8	74/25 75/8 76/1 76/7	88/8 88/20 90/4 90/21	66/10 74/8 79/18
132/7 135/4 136/12	this [295]	140/12 145/16 148/10	76/21 76/23 77/18	91/15 92/5 92/25 93/1	103/7 109/6 110/2
137/20 140/3 140/9	Thomas [2] 90/3	148/14	84/9 84/24 85/2 85/9	93/3 93/10 93/15 96/8	117/25 123/15 126/16
142/11 148/6	122/4	times [2] 37/1 77/7	97/12 98/17 102/4	96/12 96/21 96/22	128/2 128/10 138/15
thereabouts [2] 80/9	Thomas' [1] 82/12	timetable [1] 82/15	108/10 108/18 109/6	97/2 97/3 97/15 99/1	143/9 146/8 146/11
81/17	Thomas's [1] 120/13	timing [1] 68/15	128/8 128/9 128/11	99/8 99/17 99/22	146/24 147/2 147/3
thereby [1] 40/21	those [41] 1/5 1/19	timings [1] 1/19	128/12 129/8 130/22	102/11 104/5 104/8	147/5
therefore [11] 18/2	2/7 2/7 5/25 6/23 20/8	tip [2] 37/12 122/15	130/23 131/11 131/12	110/11 110/12 110/13	UKHCDO [1] 121/4
18/11 18/25 35/7 78/4	25/2 26/1 28/5 28/11	tissues [2] 32/19 89/6	144/1 145/20	111/8 113/13 120/16	ultimate [1] 83/1
83/11 99/6 104/18	33/3 40/20 43/1 44/24	to [868]	transfusionists [1]	121/24 122/2 122/17	unacceptably [1]
	47/19 48/7 48/20 51/7	today [6] 1/14 1/20	37/21	123/4 123/22 123/25	146/9
136/18 138/25 145/6	53/10 68/2 69/20	18/16 56/10 145/17	transfusions [9] 3/1	124/3 126/20 127/2	unavailable [1]
these [38] 8/6 17/2 17/19 28/10 32/4 39/4	73/10 73/12 77/21	149/6	4/21 4/25 6/7 10/10	127/8 127/17 128/4	138/10
	80/3 85/14 86/18 90/8	together [5] 6/25	39/23 51/14 52/2 71/3	129/15 129/25 133/14	unavoidable [1] 105/5
41/15 51/14 61/23	100/15 103/1 127/10	44/10 51/5 85/13	transmissible [6] 3/8	134/4 136/11 136/13	unavoidably [1]
65/19 67/7 72/9 72/13	132/8 136/22 136/25	93/15	17/13 22/14 23/19	136/23 138/7 140/15	104/17
72/21 77/7 77/12	137/3 137/7 137/8	told [12] 15/17 76/24	27/22 62/9	144/19 145/4 147/22	uncertain [2] 32/16
86/21 91/1 94/12	137/18 149/7 149/8	88/9 88/15 88/17 89/2	transmission [13]	treatments [4] 87/25	34/12
94/25 102/7 104/16	though [5] 37/1 67/7	92/3 94/21 96/11	2/24 17/2 22/19 32/18	91/12 100/22 132/18	unclear [2] 119/18
105/20 110/4 112/1	117/1 123/4 145/8	107/24 108/16 111/25	36/16 60/16 62/7	TREL0000145 [1]	132/25
112/25 117/10 121/24	thought [10] 15/12	tonight [1] 81/23	66/12 70/11 70/16	132/12	uncontrollable [1]
125/25 128/7 134/18	24/6 36/4 41/16 51/2	Tony [1] 5/2	130/5 130/9 142/5	Treloars [1] 132/14	131/23
137/4 138/23 139/4	52/12 77/5 118/8	too [10] 29/9 34/14	transmit [7] 3/18 8/7	trend [1] 127/11	under [36] 9/4 15/22
139/8 139/11 144/17	120/6 124/23	47/13 48/2 69/10 98/4		trial [7] 39/5 96/25	21/20 26/19 31/20
144/24	thousands [2] 4/18	103/13 103/14 128/14	67/13	97/1 138/20 139/5	32/6 32/9 37/20 42/14
they [50] 5/9 7/6	52/6	132/24	transmitted [30] 4/19	147/14 147/19	43/2 49/9 51/2 52/10
11/15 16/18 25/3	threatened [1] 146/12		8/5 8/20 10/1 10/3	trials [7] 31/3 79/23	63/16 66/6 66/25
25/24 42/4 42/21	threatening [1] 4/18	113/12	10/10 17/14 20/21	138/10 139/3 139/7	70/20 84/21 85/24
42/21 45/3 47/9 48/15	three [23] 13/2 1//8	top [8] 5/23 15/15	24/20 25/22 26/21	139/8 147/12	87/20 90/1 90/16
51/9 52/5 54/17 61/14	15/11 16/7 16/16 37/9	24/14 58/1 70/20 95/2	27/8 38/1 39/19 40/5	true [3] 12/15 19/13	94/20 95/10 96/7
64/2 64/5 65/22 67/13	40/13 46/17 51/5	110/14 125/15	41/12 45/2 49/13	76/20	108/25 115/24 117/14
68/4 68/4 69/15 71/2	52/16 53/18 65/11	topic [9] 4/8 74/23	51/20 53/13 57/11	try [1] 75/12	119/1 119/22 129/11
71/2 71/22 76/19 80/3	82/23 85/11 88/11	75/4 82/5 94/19		trying [3] 73/18	129/21 145/24 146/20
80/25 81/18 85/15	99/19 109/1 110/8	121/18 122/10 122/22	72/16 75/17 75/23	115/15 134/3	146/23 147/9
86/22 95/4 97/23	111/9 113/18 142/2	140/25	75/25 107/23	Tuesday [2] 76/18	under-reporting [1]
97/25 98/1 102/20	143/24 146/4	topics [1] 100/7	transmitting [4] 30/11		51/2
103/12 103/15 107/4	three-quarters [2]	total [6] 63/19 92/16	53/8 55/12 136/9	turn [3] 1/9 23/22 81/2	
113/21 117/21 122/13			1		49/9
131/14 137/1 137/4	46/17 110/8	92/17 92/18 93/7 95/8	travelling [2] 81/23 149/7	turning [1] 113/3	undergo [1] 67/20
1	through 1941 410 E144		143/1	turnover [1] 146/2	
138/9 139/4 142/22	through [24] 1/6 5/11	toto [1] 109/4			underlined [4] 54/40
138/9 139/4 142/22   145/22	5/12 5/22 5/24 26/21	touch [3] 7/3 15/19	travels [2] 72/13	two [30] 4/22 18/10	underlined [1] 54/19
	5/12 5/22 5/24 26/21 27/8 41/13 45/10	touch [3] 7/3 15/19 112/14	<b>travels [2]</b> 72/13 72/21	<b>two [30]</b> 4/22 18/10 18/20 28/22 35/3 36/9	underlying [1] 14/10
145/22	5/12 5/22 5/24 26/21	touch [3] 7/3 15/19	travels [2] 72/13	two [30] 4/22 18/10	
145/22	5/12 5/22 5/24 26/21 27/8 41/13 45/10	touch [3] 7/3 15/19 112/14	<b>travels [2]</b> 72/13 72/21	<b>two [30]</b> 4/22 18/10 18/20 28/22 35/3 36/9	underlying [1] 14/10

(61) therapy ... - understand

U	50/11 51/17 54/5	67/22 68/14 75/23	32/16 41/24 46/16	79/21	148/7 148/18
	64/10 68/25 69/3 69/5	92/23 100/18 101/10	48/15 80/18 81/1 81/4	virologists [2] 17/6	we're [19] 6/14 21/15
understand [6] 8/2	69/14 69/18 73/14	101/15 103/4 103/22	81/10 93/11 93/23	143/6	42/1 55/24 61/23 63/6
24/2 55/21 57/22 99/3	73/14 73/23 73/25	104/12 105/2 110/10	99/24 103/24 110/2	virtual [1] 64/23	76/24 88/9 88/17 89/2
131/3	82/5 98/12 98/13	111/18 115/1 118/21	110/4 110/15 112/3	virus [18] 9/12 9/14	92/3 96/10 97/11
understanding [1]	99/12 99/17 100/24	119/15 119/19 120/16	120/8 121/13 124/14	20/21 23/5 52/9 55/6	107/21 108/16 115/15
57/15	102/2 102/8 106/13	125/23 127/9 127/18	126/2 134/5 136/18	61/11 61/16 61/18	124/7 133/18 134/24
understatement [1]	106/24 107/6 107/17	130/1 133/2 133/12	137/14 142/8 143/1	63/13 66/17 70/14	we've [18] 1/7 5/11
77/6					6/23 14/16 16/6 41/1
understood [2]	109/1 109/14 109/21	135/5 137/22 138/22	143/13 145/17 148/16	72/18 76/17 76/19	
114/25 130/10	115/22 116/22 117/13	140/7 147/4	149/5 149/10	79/4 98/11 104/17	58/16 62/10 80/21
undertake [2] 86/20	118/10 118/23 119/5	used [34] 4/21 5/25	via [2] 5/22 34/14	viruses [5] 32/14 33/7	
107/4	120/2 123/2 125/14	48/20 51/23 64/7 69/1	victim [1] 21/1	61/14 61/15 77/15	105/3 112/23 120/21
undertaken [4] 63/21	128/17 129/20 130/25	91/13 92/10 92/20	view [15] 7/11 11/13	volume [1] 91/16	134/10 141/8 141/14
87/20 88/2 112/18	132/3 132/22 133/15	92/24 93/1 93/6 93/8	30/21 47/21 47/24	voluntary [1] 128/3	Wednesday [9] 1/15
underway [1] 63/13	133/19 134/6 140/1	93/14 93/16 95/9	54/6 58/18 81/8 96/17	von [9] 30/9 89/10	1/21 2/1 82/5 106/10
undesirable [2]	141/22 143/17 145/24	100/22 100/25 103/16	99/7 109/11 119/8	92/2 92/12 92/18	135/22 148/7 148/17
137/17 137/23	148/3	104/24 109/23 113/24	125/8 145/12 145/14	92/23 125/21 125/23	149/12
undoubtedly [1] 81/6	up-to-date [1] 134/6	117/25 119/10 119/24	views [3] 64/17	130/2	week [17] 2/4 7/8 14/1
uneasy [1] 37/11	update [3] 62/3 135/9	127/5 129/15 132/24	103/21 106/25	von Willebrand [1]	16/11 65/2 74/2 82/10
unexposed [1] 30/15	141/14	133/7 133/9 136/13	VIII [124] 9/17 10/8	89/10	91/4 98/3 108/6
Unfortunately [1]	updated [2] 26/9	137/16 144/23 145/1	10/21 11/2 11/7 11/11	von Willebrand's [3]	112/13 121/11 131/25
139/10	50/18	useful [1] 72/3	11/14 14/23 15/8	92/2 92/23 125/21	141/15 144/14 148/22
unhappy [1] 101/2	updating [1] 29/14	users [1] 146/24	15/13 15/21 16/13	W	149/7
unit [2] 97/23 122/13	upon [3] 59/22 73/14	using [13] 4/16 43/5	16/18 17/22 19/17		weekend [3] 5/9 5/14
United [8] 2/18 6/11	143/17	54/8 54/10 67/3 67/4	20/10 25/25 31/4	Wagstaff [1] 38/15	6/22
14/12 39/16 48/23	urban [1] 36/13	73/10 103/24 104/22	32/10 32/22 33/13	Waiter [2] 106/22	weekend's [1] 8/1
72/12 76/13 78/23	urgent [2] 99/24	113/21 121/7 135/8	36/16 38/6 39/25 40/2	107/1	weekly [1] 97/2
United Kingdom [7]	109/23	137/13	52/14 52/18 53/6 54/5	waiting [1] 135/6	weeks [3] 53/18 56/11
2/18 6/11 14/12 39/16	urgently [3] 35/10	usual [5] 30/13 54/22	56/9 56/12 57/2 58/4	Wales [4] 1/18 36/3	87/1
	102/19 124/24	55/21 81/17 144/18	58/9 59/23 64/3 66/3	83/14 87/24	welcome [3] 5/9 7/7
48/23 76/13 78/23	us [24] 11/10 11/13		67/4 67/5 67/10 67/18	Walford [5] 23/11	142/16
United States [1] 72/12	12/17 15/16 34/1 34/4	<u>v</u>	67/25 68/1 68/3 71/23	25/13 25/18 26/17	well [22] 6/13 7/5 8/2
	38/3 38/7 45/17 56/6	vaccine [5] 46/3	74/12 74/15 75/24	57/16	10/3 36/19 41/16
units [12] 36/9 91/14	56/10 56/11 57/1	140/6 141/4 141/5	77/20 89/9 91/7 91/14	want [7] 1/18 20/16	46/16 58/24 65/22
91/19 95/9 100/5	59/18 64/23 74/3 80/1	144/9	91/17 91/18 92/6	56/1 97/25 129/20	71/8 72/13 72/22
114/2 118/7 123/19	80/8 90/20 104/4	vagaries [1] 128/14	92/24 93/3 95/20	131/14 133/23	82/16 84/17 110/15
123/21 127/5 127/13	113/11 115/5 123/25	valuable [1] 51/15	96/13 96/15 96/20	wanted [2] 1/16 80/6	118/12 121/5 135/11
127/20	137/22	value [3] 122/17	100/8 106/14 107/3	wanting [1] 63/3	135/20 139/9 148/16
University [1] 87/24	US FDA [1] 59/18	138/11 141/5	107/18 107/23 109/5	wants [1] 43/22	149/5
unknown [6] 9/13	USA [30] 8/14 8/16	variable [1] 9/23	109/8 109/13 109/16	ward [1] 90/3	Wellcome [1] 71/15
44/12 52/8 55/10 59/3	10/6 16/13 16/18	variants [2] 61/10	109/17 110/2 111/8	wards [2] 88/2 95/15	Welsh [3] 97/12
142/11	16/20 16/22 17/1	61/14	111/11 111/18 112/19		108/21 130/22
Unless [1] 130/15	17/11 17/12 18/1 18/2	variation [1] 98/10	113/17 113/19 114/13	38/12	went [2] 6/24 22/24
unlikely [4] 18/4 19/1	18/12 18/25 24/11	various [20] 18/8	115/25 116/4 116/7	warrant [1] 30/20	were [59] 6/20 7/12
100/3 136/16	24/23 29/16 36/2 36/7	27/10 34/13 45/11	116/20 117/15 117/16	was [202]	13/11 14/18 16/11
unlimited [1] 54/16	36/8 36/14 36/24 37/3	49/24 53/2 59/8 61/22	120/23 120/25 123/15	wasn't [1] 45/18	22/6 22/23 23/1 28/17
unproven [1] 146/18	39/23 50/24 52/20	71/4 76/11 78/13	124/18 124/25 125/6	watching [2] 1/5 1/17	36/6 37/10 38/24
unreasonable [1]	59/23 66/14 75/20	78/19 99/2 106/25	125/9 125/19 125/25	way [16] 1/6 33/20	40/20 42/4 44/9 44/11
122/19	76/1	112/9 121/25 123/6	126/22 127/1 127/9	42/14 52/4 54/22	45/11 52/22 54/12
unrecognised [1]	USA however [1]	136/20 138/18 146/14	127/20 128/1 128/6	55/13 77/11 96/25	55/4 55/11 55/20
44/14	36/14	vary [1] 51/16	129/19 130/3 131/4	105/3 109/22 110/8	64/20 64/24 68/25
until [14] 3/20 17/2	usage [10] 93/10	vast [1] 59/11	131/10 132/19 132/24	118/14 133/21 136/21	69/13 72/13 72/21
18/12 42/19 42/19	93/12 97/7 101/13	vehemently [1]	134/4 134/21 136/7	138/1 140/21	75/21 77/22 78/21
52/17 61/18 64/7	109/17 110/22 123/15	131/12	137/9 140/13 142/4	ways [1] 113/18	81/18 87/18 89/5 89/7
67/18 72/17 82/20	123/19 125/16 129/19	venipuncture [1]	142/5 142/8 143/2	we [470]	91/1 91/1 94/21 96/24
113/17 115/7 149/12	use [54] 3/16 11/22	88/22	145/1 145/4 145/21	we'll [25] 1/25 22/25	97/18 100/7 100/11
untreated [1] 137/14	17/2 20/9 24/16 28/3	verbatim [1] 55/15	146/1 146/3 146/8	23/1 45/16 53/24 56/5	101/2 102/18 102/22
unusual [2] 32/6		version [3] 26/8 26/9		61/25 62/5 63/2 74/7	
44/16	28/25 30/20 31/1	65/6	146/17 147/2 147/10	81/2 83/21 90/22 91/2	102/25 103/15 103/21
up [60] 4/3 4/12 5/17	33/14 34/4 34/7 39/25	versus [1] 120/22	Village [1] 2/14	95/21 97/5 99/11	112/25 118/18 119/5
6/1 6/12 17/17 39/1	42/18 45/3 47/3 47/20		viral [3] 46/1 78/6		121/1 122/6 124/14
43/22 46/19 47/4	52/13 58/3 58/9 60/6	very [36] 8/1 17/23	85/3	105/19 106/18 114/3	127/5 127/10 129/24
	63/9 64/22 66/3 67/17	18/3 19/1 27/3 27/4	virological [2] 79/15	118/23 139/21 143/12	142/3 145/15

(62) understand... - were

	•				
w	4/10 4/19 6/1 6/13	widely [2] 7/2 89/20	89/9 113/7 128/2	72/24 75/6 81/1 84/8	18/22 20/16 21/20
	6/22 6/24 7/2 7/15	widespread [3] 64/22	128/9 128/18 133/17	86/13 94/25 95/1	23/7 23/12 23/22 26/6
weren't [1] 1/5	7/17 7/18 8/3 8/22	65/20 103/18	140/15	101/7 101/8 101/10	26/11 26/12 27/5
West [1] 66/14 what [74] 1/12 3/25	11/3 11/22 17/4 19/21	wife [1] 104/10	without [6] 29/12 68/2	101/17 102/20 102/24	27/12 28/16 29/5 29/6
	20/10 21/9 23/18	will [122] 1/8 1/9 1/14	69/11 78/24 129/17	103/2 105/6 107/2	29/9 29/10 31/5 38/15
9/3 11/24 12/10 13/9	24/16 25/23 33/9	1/20 2/3 6/20 8/17	144/18	113/5 114/11 119/16	38/20 40/3 43/12
19/7 19/14 19/15 21/5	34/10 35/24 38/20	8/22 8/25 10/16 12/22	WITN0047002 [1]	124/18 124/23 125/17	45/13 46/6 46/18
21/13 22/1 22/21	46/10 46/12 47/17	13/2 13/7 14/2 18/14	104/2	125/22 126/5 126/7	46/20 46/21 48/10
22/23 28/13 28/19	47/21 48/11 51/9	18/15 23/2 23/12	WITN0047003 [1]	129/25 130/18 130/18	
31/19 38/11 39/8	51/19 51/19 52/5	27/12 28/12 29/6 29/9	107/7	131/10 132/23 134/5	56/2 57/8 57/9 59/14
39/14 43/24 48/24	52/22 58/25 60/4	29/10 29/18 30/22	WITN2554013 [1]	134/21 137/21 137/23	62/1 69/9 69/19 72/3
50/14 55/3 57/19 58/2	61/15 63/3 64/3 64/15	31/5 32/4 33/16 38/15	98/19	139/13 142/16 142/17	74/1 76/5 76/8 78/14
60/9 66/17 68/13	69/5 69/18 76/11	38/20 40/7 45/13 46/6	witness [4] 82/11	144/3 144/5 145/13	78/16 78/21 81/4 81/4
68/25 74/4 77/5 78/9	78/13 79/2 79/16 81/6	46/17 48/3 48/8 50/1	86/11 89/15 148/23	wouldn't [1] 142/9	81/10 81/11 81/15
79/10 80/10 80/16	82/22 83/15 83/18	52/19 52/25 53/9	witness' [1] 98/21	write [3] 81/9 97/24	81/19 81/22 81/23
81/15 81/23 85/12	84/21 88/16 88/17	54/23 56/2 57/23 61/3	witnesses [11] 2/5	116/11	100/25 101/6 106/11
86/15 86/18 87/14	93/1 95/13 97/6 97/10	61/17 65/1 65/11	13/24 46/7 53/25 63/2	writing [2] 126/10	106/12 106/14 107/13
89/17 92/13 95/1	98/23 99/4 99/5	66/19 66/21 67/19	68/17 68/21 73/22	138/25	112/12 112/14 116/12
102/2 102/11 105/4	101/19 104/21 106/8	68/16 68/20 69/9	80/5 86/25 139/19	written [6] 6/25 25/14	117/4 119/1 119/5
106/11 107/25 108/1	107/18 110/24 111/13	69/20 69/23 69/25	won't [16] 1/12 1/14	57/8 85/16 87/4 88/17	120/12 121/6 122/5
111/1 111/25 114/25	111/13 112/24 113/16	71/1 71/2 73/11 73/21	2/4 2/11 6/13 45/15	wrong [4] 26/6 73/3	123/10 133/1 134/5
115/3 116/22 118/15	115/14 117/25 120/21	74/12 75/12 76/4 76/8	56/21 61/8 76/9 79/6	75/5 133/21	135/2 135/7 135/7
120/14 121/15 121/23	121/10 121/16 124/15	76/16 78/14 78/16	81/20 82/12 88/14	wrote [2] 57/15	135/9 136/5 137/22
122/11 127/14 130/24	133/1 133/11 135/2	78/21 80/3 80/8 80/9	92/21 118/19 141/16	144/12	138/25 139/13 142/2
131/20 132/16 133/15	135/14 138/24 140/18	80/22 81/5 82/3 82/4	wonder [2] 117/21		142/16 142/17 143/1
134/8 134/9 134/10	140/20 142/12 143/17	82/10 85/7 85/11	142/11	Y	143/13 147/8 148/16
134/13 136/20 137/18	143/24 144/6 144/10	85/20 86/2 86/8 86/14	wondered [4] 54/6	year [24] 8/19 13/24	149/7 149/8 149/9
141/4 147/7	144/20 144/20 144/25	86/17 86/24 86/24	118/6 125/22 141/4	14/5 18/12 19/4 20/6	149/10
what's [5] 60/14 108/9	146/17 147/24 148/3	89/20 90/9 95/4 95/16	word [3] 86/22 86/23	52/21 59/17 62/3 72/7	you'll [4] 28/21 31/16
110/18 111/24 131/1	148/7	101/21 101/23 106/8	98/14	72/12 73/2 77/2 86/3	93/18 141/17
whatever [5] 35/8	while [3] 16/11 20/19	106/9 109/2 110/3	words [2] 29/2 55/3	88/21 90/20 91/7 91/9	young [2] 122/14
46/20 55/9 81/7 149/7	70/22	112/14 116/10 116/12	work [7] 46/4 62/11	92/4 95/5 95/9 98/21	128/24
whatsoever [1] 53/7	Whilet [1] 7/9	123/21 127/12 135/3	88/25 89/16 114/7	135/9 135/14	your [12] 21/6 73/13
when [31] 2/4 2/12 6/6	who [65] 1/5 1/5 1/18	135/8 135/8 136/17	114/14 117/24	years [18] 9/23 13/2	99/6 112/12 113/6
10/17 12/22 13/18	2/7 6/6 9/5 11/5 12/20	137/22 138/6 138/7	worked [3] 89/16 90/3		119/21 134/6 134/20
21/10 63/1 64/20	13/24 15/2 15/16 16/5	138/9 138/10 139/4	90/7	37/10 51/17 52/16	134/22 142/15 143/1
67/19 69/21 75/16	16/12 24/7 24/10	139/8 139/8 139/19	worker [2] 90/7	74/16 83/6 84/17	149/8
82/5 82/11 82/14 90/1	24/12 24/15 24/21	142/14 143/7 143/10	114/13	87/15 87/23 89/4	
90/16 91/3 102/21	25/13 33/3 36/9 39/14	143/13 143/15 145/7	working [15] 65/2	90/16 93/17 94/19	Z
102/22 104/24 106/12	40/20 40/22 42/3	148/13 148/19 148/24	73/17 76/7 84/2 84/11	96/4	zero [1] 91/10
106/19 108/6 114/8	42/10 42/10 43/1 43/2	Willebrand [1] 89/10	84/15 84/25 85/3	yes [32] 1/3 1/25 3/23	zoom [3] 56/5 57/6
120/22 122/13 127/10	44/18 44/25 50/9 54/3		119/22 139/1 139/1	4/11 19/6 19/11 22/25	57/17
135/21 141/6 148/7	56/7 57/15 61/13	92/2 92/12 92/19	140/2 140/4 144/9	24/18 39/17 39/21	
where [10] 13/19 22/8	62/14 67/23 70/25	92/23 125/21 125/24	145/15	40/6 42/6 42/8 43/7	
28/5 30/25 38/9 47/8	72/5 89/16 89/22	130/2	world [8] 34/23 35/14	43/11 43/12 46/15	
87/19 97/16 101/19	89/24 90/3 90/6 90/7	Williams [1] 134/18	35/20 75/4 84/20	49/4 55/13 57/14	
118/19	90/13 94/4 94/9 95/6	Winter [1] 148/24	84/22 93/24 146/5	58/20 59/19 60/12	
whereas [1] 54/15	104/7 121/23 122/12	wisdom [1] 47/23	worried [1] 24/7	60/21 60/22 67/14	
whereby [1] 48/5 wherever [2] 28/2	122/14 131/23 136/23	wish [5] 8/23 13/8	worries [1] 116/9	72/24 106/24 133/24	
28/25	137/1 140/13 142/18	35/4 65/11 80/25	worry [3] 26/7 53/19	148/15 148/18 149/1	
whether [33] 4/2 7/22	144/16 145/2 148/23	wishes [2] 131/3	54/6	yesterday [3] 1/5 2/12	
8/23 11/8 13/8 29/7	148/24 149/7 149/8	139/15	worrying [1] 124/15	81/18	
31/6 31/9 31/19 50/2	whole [2] 56/1 120/12	with [165]	worth [1] 74/11	yet [12] 8/4 10/2	
54/7 54/24 69/9 69/20	whom [5] 10/6 10/15	withdraw [3] 33/13	would [68] 1/18 5/9	10/20 22/15 22/22	
74/8 75/11 76/2 78/21	48/7 65/15 144/17	34/1 128/19	7/6 7/12 10/23 11/2	30/19 32/25 59/3	
79/1 79/3 100/14	whose [1] 58/11	withdrawal [3] 17/11	11/14 11/15 12/17	63/23 65/15 71/25	
101/23 102/24 103/10	why [10] 36/4 39/10	146/10 146/13	15/17 18/11 19/18	130/25	
104/20 111/21 117/21	97/20 116/25 130/6	withdrawing [3] 8/9	30/18 33/21 41/6	York [2] 36/10 44/24	
119/18 119/20 125/22	135/18 148/2 148/4	45/5 45/17	41/17 41/20 46/11	you [104] 2/8 3/4 4/10	
137/4 137/15 143/11	148/4 148/8	withdrawn [1] 17/1	57/23 58/19 59/1	6/20 8/17 8/22 10/17	
which [97] 2/14 4/8	wide [3] 85/7 98/10	within [13] 7/2 14/18	59/12 60/7 65/2 67/24	13/6 13/7 13/14 13/23	
	102/12	22/5 40/8 57/16 89/3	67/25 68/12 72/23	14/2 16/11 18/14	

(63) weren't - zoom