1	Wednesday, 23 September 2020	1
2	(10.00 am)	2
3	SIR BRIAN LANGSTAFF: Ms Richards, you are going to deal	3
4	with knowledge of the risk.	4
5	MS RICHARDS: Yes, sir.	5
6	SIR BRIAN LANGSTAFF: Today, just so that everyone knows	6
7	where we will be in terms of timing, because we aren't	7
8	subject to the witnesses giving his evidence,	8
9	Ms Richards will have her timing under control,	9
10	I understand.	10
11	MS RICHARDS: I hope.	11
12	SIR BRIAN LANGSTAFF: So what we will aim to do is we will	12
13	aim to finish no later than 4.30. There will be,	13
14	again, 45-minute breaks in both the morning and in the	14
15	afternoon. The afternoon probably little bit earlier	15
16	than it was yesterday to divide up the afternoon	16
17	rather better. 45 minutes to enable you to have the	17
18	time to go safely, at distance, to pre-allocated seats	18
19	for refreshment.	19
20	So that's what we will do so you know where you	20
21	are and what the timing will be.	21
22	Ms Richards.	22
23	Presentation by MS RICHARDS	23
24	MS RICHARDS: So, sir, if I can just start by explaining	24
25	the purpose of today. Today is the provision of	25
	1	

a chronological and historical overview of material relevant to the knowledge of risk of infection from blood and blood products. It will be undertaken by showing contemporaneous materials and those will be drawn from a range of different sources, Government, scientific journals, correspondence, meetings and so on as well as media, and we'll be showing a number of documentaries or documentary excerpts in the course of the day.

The purpose of the presentation is twofold: it's to place relevant material into the public domain. So core participants have already been provided with copies of all the material that will be referred to and with a detailed chronology relevant to this issue, but the purpose of today is to ensure that the material or some key parts of it is shared with those who have not had the opportunity to work through what will be thousands of pages of material, and to ensure that the wider public is enabled to understand what was or was not known at various relevant times.

The second purpose of today is to provide a backdrop to the evidence that's going to be heard from witnesses over the coming weeks and months, from clinicians in the first instance and, in due course, from politicians, civil servants and others.

I should say what today is not: it's not going to be examining in any kind of detail what was known by a particular individual or a particular organisation, or what should have been known by that individual or organisation, nor is it going to be looking in any kind of detail at what was done in response to those risks. Again, that will be material that's explored over the coming weeks and months with witnesses.

We're very grateful to core participants who have suggested additions to the material that's in the chronology. Some of that's been incorporated in today's presentation but we would welcome any continuing suggestions and the chronology can be updated with any additional material that core participants or indeed others think is relevant and can bring to our attention.

So, sir, broadly speaking the presentation falls into four categories chronologically. The first will be looking at the developing knowledge of risk of the transmission, through blood or blood products, of hepatitis from the 1940s through to the 1970s.

The second is to look more particularly at the developing knowledge about non-A non-B hepatitis in the course of the 1970s and knowledge of the

seriousness of the condition.

The third is then to look at the developing picture in relation to HIV and AIDS in the first half of the 1980s.

The fourth then picks up the picture going up into 1991 in relation to developments, the discovery of hepatitis C and some key dates and documents in relation to that.

I don't propose, for the purposes of this presentation, to look beyond 1991, although clearly the years after 1991 contain much significant material, but those will be explored in later stages of the Inquiry's hearings and vCJD specifically will be the subject of a discrete hearing in due course next year. So I won't be touching on vCJD today.

The other point in relation to timing is I'm not quite sure how long today is going to take. If I don't get through the material that seems most important we'll continue tomorrow rather than sit late before moving on tomorrow to look at the actions of Professor Bloom and the Cardiff Haemophilia Centre.

Sir, there's no single right place to start but I'm going to start in the 1940s with observations of jaundice in army personnel and its relationship to the vaccination against yellow fever.

(1) Pages 1 - 4

1	Henry, could we have, please, RLIT0000209.	1	thank you.
2	This is a document entitled "Jaundice in army	2	So we can just pick up here a report in 1937, in
3	personnel in the western region of the United States	3	England.
4	and its relation to the vaccination against yellow	4	If we look halfway down the page, Henry, if we
5	fever". It's the second of two papers published in	5	see the whole part. Thank you.
6	the American Journal of Hygiene in 1944. The events	6	"England Post Vaccination Jaundice. In 1937,
7	to which the paper relates focus on the high	7	Findlay and MacCallum reported that in the course of 4
8	prevalence of jaundice in troops in the spring and	8	and a half years they vaccinated approximately
9	summer of 1942 in circumstances in which the troops	9	2,200 persons against yellow fever and had observed 48
10	had been vaccinated against yellow fever.	10	cases of jaundice occurring from 2 to 7 months after
11	It is a very long article, I am just going to go	11	vaccination."
12	to a small number of points from it, but I am very	12	Then if we look at the right-hand column, Henry,
13	grateful to core participants who have suggested some	13	could you highlight the first 10 or 12 lines of the
14	shorter precises of this issue. I am going to give	14	second paragraph, beginning "Findlay and MacCallum".
15	a couple of references that don't need to come up on	15	Is it possible to highlight that in yellow so it's
16	the screen; it's for the benefit of others who may	16	easier for others to read.
17	want to read about this issue.	17	Anyway, those who are looking will be able to
18	There are more recent analyses of this issue at	18	see what passage I'm referring to. So it refers to:
19	RLIT0001238, RLIT0001234, and RLIT0001237. Those are	19	"Findlay and MacCallum were firmly convinced
20	all later documents that look back but I'm focusing,	20	that the jaundice was not caused by the yellow fever
21	as I said, today on contemporaneous material.	21	virus itself. In a later report, in 1939, they
22	Henry, could we go, please, to what I think	22	analysed in detail the various factors involved in
23	should be page 39 of the document. I'm sorry, my	23	this episode and came on the conclusion that the
24	apologies, I am using the internal pagination. So it	24	causal agent of the jaundice was a virus that had been
25	will probably be page 5 on the documentation you have,	25	cultivated serially in tissue cultures in symbiosis
	5		6
1	with the yellow fever virus and that it must have been	1	investigation, which I won't go to, to pages 54 to 55
2	introduced into tissue cultures in association with	2	of 73 it's page 89 of the internal pagination.
3	human serum"	3	Next page.
4	So that's the key issue here: human serum:	4	So if we pick it up under the heading
5	" presumably derived from a donor who was	5	"Conclusion", towards the bottom of that page:
6	either in the incubation period or actually suffering	6	"It has not yet been possible to demonstrate
7	from a mild subclinical attack of epidemic catarrhal	7	conclusively which of the various materials used in
8	jaundice."	8	the preparation of yellow fever vaccine actually
9	Then if we could go, please, Henry, to I will	9	contained the agent responsible for the outbreak of
10	try to give you the right references page 58 of the	10	post-vaccination jaundice. However, in view of other
11	article, which I think might be page 24 of 73. Yes,	11	investigations that outbreaks of hepatitis have
12	that's it.	12	followed the injection of human serum alone, and also
13	If we look down the bottom half of the page,	13	that it has been possible to transmit a very similar
14	please, so we can then, picking up on what had been	14	disease by direct blood or serum transfer from
15	observed in 1942:	15	patients suffering from infective hepatitis to healthy
16	"Jaundice in the military forces in the	16	volunteers, human serum falls under suspicion much
17	United States and elsewhere following vaccination	17	more definitely than any other substance in the
18	against yellow fever.	18	vaccine."
19	"As stated in part 1 of this report, information	19	It's instructive to note, if we go to page 103
20	was received in March, 1942, that in United States	20	if you are using the internal pagination, Henry, or
21	army personnel there was a considerable amount of	21	it's pages 68 to 69, thank you, we see if we go
22	jaundice which appeared to be associated with certain	22	down to the bottom of the page, please, Henry
23	lots of yellow fever vaccine used for immunisation."	23	"Recommendation", we see that in the course of this
24	Then, Henry, if you could skip on, please,	24	investigation the investigative team in April 1942
25	because there's a very detailed account of the	25	made recommendations to the surgeon general of the
	7		8

(2) Pages 5 - 8

1 army to suspend the use of vaccinations in which human connection between human serum and jaundice, so we 2 serum had been implemented and to use, effectively, 2 have 1885 in Bremen 191 cases of jaundice follow the 3 3 different vaccinations and that had the desired effect use of humanised lymph. At (2) measles convalescent 4 of stopping the particular attacks of jaundice that 4 serum, a batch of serum used on 109 children resulted 5 5 in 41 cases of jaundice and eight deaths. On another had been observed. 6 6 Could we then turn from America to, still within occasion 57 c.c. injected and 14 children gave six 7 1942, in the war years, this country and go to 7 cases of jaundice and one death. That was picked up 8 8 DHSC0100008_024, please. by -- considered by the Chief Medical Officer of the 9 9 We can see this is headed "Emergency Blood time in the late 1930s. 10 Transfusion Services delayed jaundice". It's an 10 We then have the reference to yellow fever 11 internal DHSS document and it's a note of a discussion 11 vaccine, reports of jaundice in Brazil, in the 12 held in Dr Taylor's room on December 1st, 1942, with 12 American forces -- that's the material we've just been looking at -- reference to convalescent mumps plasma 13 a number of doctors in attendance: 13 14 "Dr Taylor said that recent investigations 14 with 87 cases of jaundice. All the above vaccines 15 suggested that blood transfusion might result in 15 et cetera contained human serum. 16 delayed jaundice and the meeting had been called to 16 Then we have reference to blood transfusion. decide whether and how hospitals, maternity units and 17 17 The first case of jaundice following a transfusion was general practitioners should be informed of the latest 18 18 notified from Wolverhampton; subsequently eight cases 19 developments on the subject and whether any 19 of jaundice resulted from 35 transfusions of serum 20 preventative administrative measures were possible." 20 given for peripheral vascular disease. 21 Then Dr Bradley gave an account of the history 21 Then it says this --22 22 NEW SPEAKER: 36 I think. of the appearance of jaundice believed to be due to 23 the introduction of human serum. 23 MS RICHARDS: I'm sorry, 36, yes apologies: 24 24 "In all 13 cases of jaundice apparently We can see from this that going back to the 19th 25 century there had been issues of concern as to the 25 resulting from transfusion were known so far to have 9 10 1 occurred in England, but it had not been possible to 1 Then if we just go down to the bottom of the 2 2 plan any follow up of transfused patients. Not page: 3 possible to rule out the possibility of natural causes 3 "It was agreed that the following action should 4 but certain information suggested there might be a 4 be taken: (a) Dr Bradley agreed to word his memorandum 5 distinguishing clinical picture in the case of 5 for The Lancet in such a way as to prevent unnecessary 6 jaundice caused by the introduction of human serum." 6 alarm. He would stress the importance of recording 7 7 the batch number of materials used in transfusion and Then if we have over the page we can see 8 8 reference to certain measures having already been of reporting cases of jaundice following blood 9 9 taken, discussions with the Medical Research Council, transfusion." 10 Dr Panton and Dr Proger and the Blood Transfusion 10 There's a reference to general practitioners being asked to report matters to the hospital, and 11 Officers: 11 12 "We are told that the MRC Transfusion Committee 12 then: 13 had convened a small ad hoc subcommittee to enquire 13 "(b) After the publication of this article the into transfusion jaundice." Ministry would issue a DGL drawing attention to it and 14 14 15 15 I emphasise this is in 1942. asking hospitals and maternity units to maintain case 16 16 "With the exception of the CMO's reports in '37 records, do all that was possible to follow up 17 and '38 on the measles case, none of the known cases 17 patients who had been transfused and report any cases 18 had been published but Dr Bradley has now been asked 18 of jaundice to the supply depot. The DGL would also 19 by the CMO [Chief Medical Officer] to publish in The 19 stress the importance of making a senior officer in 20 Lancet a memorandum which he had prepared on the 20 each hospital responsible for transfusions." 21 subject with a view to bringing it to the notice of 21 So it can be seen that at a senior level this 22 22 blood transfusion officers and general practitioners was regarded as a significant and important issue in 23 23 and urging them to record the batch numbers of 1942. 24 transfusion materials used and any cases of jaundice 24 The memorandum that's referred to there that's

25

11

going to be published in The Lancet we have at

25

resulting."

INQY1000056 0003

(3) Pages 9 - 12

24 September 2020

1 1 NHBT0000091_011, please, Henry. We can see the date It transpired that not until August 12 did the cases 2 of its publication is January 16, 1943. It's 2 in the EMS hospital [that is the particular cases that 3 3 are being looked at in part of the memorandum] come to published in The Lancet. The title is "Homologous 4 serum jaundice". It's a memorandum prepared by 4 the notice of the transfusion officers. Since then 5 medical officers of the Ministry of Health. 5 the condition has been observed at three other 6 6 I won't go through the detail of it but if we hospitals. The total of known cases following 7 could turn, please, to -- it should be the fourth 7 transfusion is now 12. It must, however, be 8 8 page, Henry -- that's the one. We can see a heading remembered that no systematic follow up of transfused 9 9 towards the bottom on the left-hand column, patients has been attempted and that since an 10 "Transfusion hepatitis". Reference is made to various 10 association between transfusion and late jaundice is 11 incidents and then if we can pick it up on the 11 unlikely to be recognised spontaneously, it is not to 12 right-hand column, Henry, the paragraph beginning, 12 be expected that such remote sequelae would be brought 13 "The appearance of this phenomenon ..." I don't know 13 to the notice of the blood transfusion officers." 14 whether it's possible to highlight that. It's about 14 Then this sentence: 15 the fifth paragraph down, please: 15 "For this reason it cannot be assumed that whole 16 "The appearance of this phenomenon [that's the 16 blood is innocent or that plasma is likely to be less 17 icterogenic than serum." 17 hepatitis jaundice appearing after some form of 18 18 receipt of human serum] was anticipated at the If we go two pages further on to the last page, 19 Ministry of Health where information had previously 19 please, Henry, under the heading "Comment", this 20 been received of another grave case of jaundice 20 Ministry of Health memorandum concludes as follows: 21 following whole blood and plasma transfusion ... on 21 "The examples of homologous serum jaundice 22 22 August 13, 1942, a meeting of the principal blood collected in this paper make it clear that the subject 23 transfusion officers was called to inquire, inter 23 is one of major importance. Our understanding of the 24 24 mechanism has not advanced since 1937 when measles alia, whether this was an isolated case or whether 25 transfusion was more frequently followed by hepatitis. 25 serum jaundice was first described. One conclusion is 13 14 1 now however, evident: any doubt as to the reality of 1 a corresponding increase in jaundice may be expected. 2 2 the association is removed by the frequency with which The problem of serum jaundice is not only an immediate 3 hepatitis has followed the injection of human blood 3 one but may become of increasing importance as the use 4 4 products. The probability that further cases will of dried human serum in therapeutics is developed." 5 occur, particularly after transfusion, must be faced." 5 Then if we go down to paragraph (d) at the 6 So that's The Lancet, Ministry of Health 6 bottom of the first page there's a discussion of the 7 7 publication, 1943. relationship between homologous serum jaundice and 8 8 Can we then please have up on screen, Henry, epidemic hepatitis and a reference to the yellow fever 9 9 DHSC0100008_051, please. It's not the easiest vaccine jaundice investigations. Then it says this: 10 document to read. I have a handy translation. It's 10 "By comparison with the estimated mortality of 11 entitled, "Prevention of homologous serum jaundice 11 epidemic hepatitis fatalities from homologous serum 12 memorandum to MRC Jaundice Committee on administrative 12 jaundice have been disproportionately numerous." 13 and field aspects". It's authored by Dr Bradley. The 13 Then if we go over the page, please, to date is 20 June 1944. There are just a couple of 14 14 paragraph(f) on page 2: 15 15 "There is a strong suspicion that the severity passages to read from this. 16 16 In the foreword, so this is the first paragraph: of hepatitis varies with different batches of serum. 17 "The observation that hepatitis may result from 17 Some kill and others produce relatively mild disease. 18 injection of homologous serum after a long interval 18 It is also probable that serum hepatitis occurs 19 has now been confirmed beyond doubt. At the present 19 without jaundice and that some patients may remain 20 time, transfusion with pooled dried serum appears to 20 ambulant and uncomplaining." 21 be the source of greatest anxiety, although 21 Then we see under the heading administrative 22 22 comparatively small quantities of this product have control, and again I emphasise this is in the 1940s: 23 23 been used. With the greater use of transfusion in the "Although medical measures for the control of 24 treatment of battle casualties [pause to observe, 24 serum jaundice must wait on further knowledge

25

15

25

obviously this is still during the Second World War]

INQY1000056 0004

16 (4) Pages 13 - 16

concerning the nature of the jaundice producing agent

The Infe	cted	Blood	Inquiry
----------	------	-------	---------

24 September 2020

1 and how to remove it, much can be done in the way of 1 deliberate and purposeful. We should evolve 2 prevention, without this knowledge by (a) avoiding 2 a carefully proposed plan, and provide adequate 3 3 facilities for it to be carried out." unnecessary transfusion. At the present time serum 4 4 transfusion should be reserved for life-saving Then we see there Ministry of Justice (sic) 5 procedures only; (b) restricting the size of pools", 5 20 June 1944. 6 6 SIR BRIAN LANGSTAFF: I think it is Minister of Health. then a number of other matters about records, sampling 7 and so on. 7 MS RICHARDS: Yes, Ministry of Health. 8 8 Then top of the next page, this is still within SIR BRIAN LANGSTAFF: Yes. 9 9 the list of suggested administrative preventative MS RICHARDS: Then, please, Henry, if we could have --SIR BRIAN LANGSTAFF: Just pausing there for a moment so 10 10 measures: 11 "As far as possible transfusing any individual 11 that most people will know I think that homologous 12 patient with serum from one pool only." 12 means from human beings as opposed to from somewhere 13 13 Then (g): 14 "Taking greater care to exclude blood from 14 MS RICHARDS: Yes, it's essentially the association 15 15 persons suffering from hepatitis on the assumption between human serum and hepatitis that is the focus of 16 16 that serum jaundice is simply transmission by unusual all of these documents in the 1940s. 17 17 routes of the agent of epidemic hepatitis." We then have, please, Henry, DHSC0100008_095. 18 18 This is a letter dated 21 March 1945 -- April has been If we go to the penultimate page, please, next 19 page, next page, next page, last but one page, please, 19 crossed out and March added. It's from -- could we 20 that's it, could we have the second paragraph 20 have the whole document, sorry, Henry. It is from the 21 highlighted, please: 21 Chief Medical Officer W Wilson Jameson and it says 22 22 "It is our duty to follow up and study serum this: 23 jaundice just as we should follow-up any other 23 "Dear Panton, homologous serum jaundice, I have 24 communicable condition. Knowledge will come quickly 24 received reports, attached, that hepatitis with a high 25 only if the collection and collation of information is 25 fatality is frequently following transfusion. I am 17 18 1 concerned for the future because blood products will 1 Ministry of Health proposed to attempt to carry over 2 2 continue to be used in civilian practice after the war into peace-time something of the transfusion 3 and it would appear that the present experience 3 arrangements that had been in operation during the 4 4 amongst battle casualties provides an opportunity, war. Unfortunately, it was beginning to appear that 5 which is unlikely to recur, for obtaining further 5 a large number of transfused persons subsequently 6 information." 6 developed jaundice and some died. He quoted 7 7 The documents to which he refers, the reports, Dr Stocks' figures culled from pensions records and 8 8 I won't bring up, but they are all in the chronologies death certificates. Although this serious 9 9 and the material that is disclosed to core complication might pass without comment in war-time, 10 participants. 10 it would seriously handicap peace-time administration. 11 Then we see -- if we have, please, Henry --11 Information concerning this puzzling condition was at 12 DHSC0100008 105, we can see that there is then what 12 present being collected independently by several 13 would appear to be, from the participants, a fairly 13 persons and he was anxious to establish an orderly high level conference held at the Ministry of Health 14 system of accumulating and using the information." 14 15 on 26 March 1945. The title of the meeting or the 15 Then if we could go to the third page, please, 16 16 notice: "Jaundice Following Transfusion". We can see Henry, we can see halfway down the page, if we just go 17 present the Chief Medical Officer, a number of senior 17 down a bit further: 18 officials within the armed services, representatives 18 "The Chief Medical Officer, summing up, said 19 of the Blood Transfusion Services, including Dr 19 that, although the accounts given were somewhat 20 Panton, to whom the previous letter was addressed, and 20 contradictory [and the accounts had been from various 21 representatives of the Ministry of Health, including 21 different military and other personnel attending the

> 20 (5) Pages 17 - 20

meeting], there was some reason for believing that

the position was not clear. Nothing definite had so

hepatic jaundice may follow blood transfusion and that

some transfused persons died of hepatic necrosis but

22

23

24

25

22

23

24

25

Dr Bradley, who had been the author of one of the

We can see here, on the first page:

"Sir William Jameson told the meeting that the

documents that we looked at earlier.

1 far been learnt from laboratory work and he hoped that can see they're printed from the proceedings of the 2 2 epidemiological study might add something useful. Royal Society of Medicine in August 1946. 3 3 This required a good system of recording and a free Again, without going into the detail, if we can 4 intercharge [that should be interchange] of 4 have up on the screen, Henry, RLIT0000052, we now have 5 information." 5 a publication in the British Medical Journal. This is 6 6 Then if we go to the fourth and final page September 1946. It's an article headed "The 7 please, Henry, just under the heading "Propaganda": 7 incidence, incubation period, and symptomatology of 8 8 "It was agreed that nothing which might cause homologous serum jaundice", by Spurling, Shone and 9 9 public alarm or discourage transfusion in necessitous Vaughan and we can see here in the introduction it 10 10 cases should be done. The Chief Medical Officer says: 11 suggested that sometimes transfusions were performed 11 "Jaundice has been recognised with increasing 12 unnecessarily and that it might be wise to send some 12 frequency as a sequela of transfusion with whole 13 publication to institutions. Dr Drury suggested, and 13 blood, plasma or serum." 14 it was agreed, that the opinions of regional 14 Reference is made, amongst other things, to the 15 15 transfusion officers on this matter should first be Ministry of Health memorandum that we have looked at. "It's generally agreed that such jaundice is 16 sought at a meeting to be held on 5 April 1945." 16 17 17 Then, again still in the 1940s, if we could go indistinguishable from, and of the same aetiology, as 18 to DHSC0100008_254, please, Henry, not going to go to 18 the jaundice following the use of convalescent serum, 19 the detail of these articles but just to note in terms 19 vaccines containing human serum and syringes of broadcasting to the wider medical profession what 20 20 contaminated with human blood. This jaundice is 21 thus far has been to some extent conversations held 21 commonly called homologous serum jaundice. 22 22 internally within the Department of Health and with "Since certain of the cases reported after 23 the armed forces, what we have here are three 23 transfusion have proved fatal, it appeared important 24 24 to determine if possible the incidence of this articles: Homologous Serum Jaundice; Homologous Serum complication since it might well be that the risk of 25 Hepatitis; Two Cases of Homologous Serum Jaundice. We 25 22 1 hepatic necrosis was greater than the risk incurred by 1 go to just one document in that regard. 2 2 withholding transfusion. Records of blood products Henry, it's RLIT0000054, please. 3 issued from the northwest London area since 1940 being 3 We can see this is an American article, 4 4 available, a follow-up of patients who had received Homologous serum jaundice in recipients of pooled 5 transfusions in this area was, therefore, instituted 5 plasma". It's published in October 1947 by Brightman 6 in 1944 with a view to determining the incidence of 6 and Korns and I will just pick it up with the first 7 7 homologous serum jaundice following transfusion, its paragraph: 8 8 incubation period and the symptomatology." "The ready availability of pooled plasma, 9 9 The article then sets out the figures from that whether secured through commercial channels, state 10 particular follow-up. We'll see, if we look at the 10 departments of health or local blood bank programs, 11 third page, it's in relation to the findings of this 11 has been a boon to medical practice. However, the 12 12 fact that plasma may carry a virus capable of inducing report. 13 Go -- right-hand column, Henry, just the 13 hepatitis in the recipient has created a new public paragraph above the heading "Summary", please. 14 health problem of major importance." 14 15 15 What this study found was that: If we then go on, please, Henry, to the fourth 16 16 "The character of the jaundice in the 77 cases page of this document, left-hand column under the 17 here recorded was, with one exception, mild." 17 heading "Comment" -- just scroll down -- so, 18 It savs: 18 "Comment": 19 "This is in accord with the majority of other 19 "A follow-up investigation of a large series of 20 observers, but it must not be forgotten that a 20 persons who received transfusions with pooled plasma 21 definite mortality after both transfusion jaundice and 21 has indicated that this form of therapy carries 22 22 a significant risk of a serious and possibly fatal syringe jaundice has been noted." 23 23 Also relevant to note, from the 1940s still, in complication." 24 1947, was the identification of higher risks 24 Then figures in relation to upstate New York are 25 associated with pooling of blood donations and we'll 25 provided. (6) Pages 21 - 24 23

	The Infected Bloo	d Inquiry	24 September 2020
1	Then if we go to the next page, please, Henry,	1	homologous serum jaundice."
2	under the heading "Summary", I will just read this:	2	Now, turning back from America to the
3	"1. Follow-up of 649 patients who received	3	United Kingdom, and we've now reached the 1950s.
4	transfusions with dried pooled plasma revealed	4	Henry, could we have DHSC0100010_405.
5	a subsequent incidence of homologous serum jaundice	5	This is a letter dated 6 January 1950. It's
6	in 4.5 per cent.	6	from Dr Drummond of the Regional Transfusion Centre in
7	"2 the causative agent appears to be widely	7	Cardiff and it's to Dr Maycock at the Ministry of
8	distributed but the attack rate is variable.	8	Health. It says this:
9	"3. The attack rate was significantly higher	9	"I have decided to abandon large pool plasma
10	among persons who were 50 years of age or more. No	10	filtration. I do not feel I can justifiably continue
11	relation of the attack rate to the amount of plasma	11	to issue large pool plasma which has an incidence of
12	administered could be demonstrated.	12	homologous serum jaundice of 10 per cent, as opposed
13	"4. Investigation of 51 deaths attributed to	13	to 1 per cent for small pool plasma. Were a case of
14	acute hepatitis revealed 15 cases in which the	14	homologous serum jaundice to go to the law courts, and
15	patients had received transfusion therapy during the	15	large pool plasma to be implicated, I don't think the
16	six months prior to death. 12 of these had received	16	court would be kindly disposed. It might argue we
17	plasma only.	17	ought not to have issued large pool plasma since the
18	"5. 12 deaths attributable to homologous serum	18	incidence of homologous serum jaundice is ten times as
19	jaundice were reported in upstate New York during	19	great as after small pool plasma. It might be argued
20	a seven-month period."	20	that the issue of large pool plasma is unjustifiable
21	Then this at 6:	21	since it is practicable to make small pool plasma,
22	"Plasma as well as other forms of transfusion	22	either filtered or unfiltered. Such an argument would
23	therapy, should be administered only when the clinical	23	be unanswerable."
24	indications are absolute, so that the benefits to be	24	Could we then, please, have, Henry, and I'm
25	derived clearly outweigh the risk of contracting	25	hoping I've got the right reference here, RLIT0000215.
	25		26
1	Yes, so we can see a World Health Organisation	1	Transfusion Centre. The next document takes us to
2	publication. This is in March 1953. The committee,	2	Scotland, PRSE0000157, please. This is a memorandum
3	the expert committee on hepatitis set up by the World	3	from the Scottish Home and Health Department which
4	Health Organisation had met in July 1952 and I'm not	4	I have a feeling I might have referred to yesterday as
5	proposing to go to any particular part of this	5	the Scottish Health and Home Department.
6	document but you'll see that by this time hepatitis,	6	16 December 1964 Scottish hospital memorandum number
7	including serum hepatitis, is as it were on the agenda	7	89, 1964, "Scottish National Blood Transfusion
8	of the World Health Organisation on an international	8	Association, hospital blood transfusion arrangements
9	stage.	9	and the supply of blood products in clinical use".
10	Then if we could	10	Then we'll see it's a memorandum describing the
11	SIR BRIAN LANGSTAFF: I think that was the document or at	11	work of the Scottish Blood Transfusion Service and
12	least part of the documentation which I referred to	12	containing some suggestions as to the management of
13	yesterday when I was asking questions of Dr David	13	hospital blood banks, reminds medical officers of the
14	Owen.	14	risk of transfusion therapy and gives guidance on how
15	MS RICHARDS: Yes.	15	the risks may be reduced. That's in paragraph 1.
16	SIR BRIAN LANGSTAFF: For those who are interested, the	16	Then if we could go please to the first page,
17	passage I was or the principles I derived from it are	17	Henry, paragraph 11 the memorandum says this:
18	set out at part 10:	18	"All blood for transfusion must be regarded as
19	"Prevention of the spread of hepatitis viruses A	19	potentially contaminated, and care must be exercised
	1.50		

21

22

23

24

25

27

20

21

22

23

24

25

due course.

SIR BRIAN LANGSTAFF: Yes.

and B by human blood and by its products."

MS RICHARDS: Yes. It's an important document and one

MS RICHARDS: We've been in Wales with the Regional

that we will no doubt return to with some witnesses in

INQY1000056_0007

(7) Pages 25 - 28

to ensure correct conditions of storage. This applies

not only during storage in the blood blank, but also

Then skipping over a sentence this:

this country is homologous serum jaundice or serum

"The most important transmissible disease in

during transportation."

The Infected Bloo	d Inquiry	24 September 2020
hepatitis, the incidence of which is 5 per 1,000	1	emerging knowledge of the Australia surface antigen at
recipients of blood or small pool plasma. No	2	PRSE0001518.
transfusion should be undertaken unless the benefits	3	What I want to pick up however is a publication
outweigh the risk of hepatitis."	4	in August 1965, PRSE0003897. Again, we're drawing on
Then it says this in 12:	5	a range of materials to show how knowledge may have
"The avoidance of transfusion accidents is	6	been how risks may have been understood by
primarily the responsibility of those medical officers	7	different cohorts of practitioners. This is
in charge of the patient"	8	a publication called "The Practitioner" and it's, this
Pausing there, whether that is intended to	9	particular part, complications of blood transfusion,
encompass the risk of hepatitis referred to in the	10	is authored by Jean Grant, the then director of the
previous paragraph is unclear:	11	Regional Transfusion Centre in Oxford. If we could go
" and of those in charge of the blood bank	12	please to page 6 of this, Henry, under the heading
and laboratory. The ramifications of the organisation	13	"Transmission of disease", we can see there what is
of a blood transfusion service within a hospital are	14	set out under the heading "Homologous serum
so widespread that it should be looked at from time to	15	hepatitis":
time by the medical staff committee"	16	"The development of homologous serum hepatitis
We are now in the 1960s and there are a number	17	is a hazard which besets rather less than 1 per cent
of reported materials in the course of the 1960s	18	of recipients of whole blood or small pool plasma."
onwards showing the emergence of knowledge of the	19	There is reference there to the MRC publication
Australia antigen. I am not going to go to the	20	in 1954:
majority of those documents but it's an important part	21	"It is caused by the transmission of a virus
of the chronological development of the knowledge of	22	from a carrier donor to a susceptible patient. The
hepatitis B and for those who are interested, you	23	donor is probably not aware that he is a carrier. He

25

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

29

liver function tests has yet been devised which would reliably distinguish carriers of the virus from normal subjects."

don't need to put this up on screen, Henry, but there

is an article in February 1965 which describes the

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

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

It then goes on to describe how recipients vary in their susceptibility. Then the next paragraph:

"Some patients suffer no upset from the transmitted virus. Some may have only a transient liver dysfunction, with or without jaundice, and yet others may develop a rapidly fatal hepatic necrosis."

Then reference is made to attempts thus far not particularly satisfactory of finding a means of killing the virus in the blood.

If we go to the last page, please, of this document I think we can see from the way in which this last conclusion is expressed that this is intended to be advice from the Regional Transfusion Centre to practitioners in the field. Under the heading "Conclusion":

"The practitioner should satisfy himself that it is really necessary to give blood and that no other treatment would be equally efficacious, even though it might take a little longer to achieve results. He might even benefit his patients by occasionally having the strength of mind to make the unfashionable decision not to transfuse. The hitherto healthy

patient can well afford a one pint haemorrhage without replacement, after all as pointed out by Chassar Moir the blood donor himself lost a pint without anybody feeling that he ought, therefore, to receive a transfusion."

gives no history of ever having had infective

hepatitis himself ... and no single test or battery of

Then, Henry, could we please have RLIT0000217. This is one of a number of documents authored by J Garrott Allen in the United States. This particular publication is I think 1 April 1966. It's headed, "Post transfusion hepatitis, a serious clinical problem", and it suffices I think only to look at the summary on this page in italics:

"The risk of serum hepatitis from transfusions derived from prison and skid row populations is at least ten times that from the use of volunteer donors."

This is being said in April 1966:

"For every 100 patients receiving a single transfusion the attack rate is 0.3 per cent where the donor is of the family or volunteer type and 3.2 per cent when the donor is from a prison or skid row population. The most practical method of reducing the hazard of serum hepatitis from blood are to limit the use of blood by giving one transfusion instead of 2, 2 instead of 3, et cetera, and especially by

(8) Pages 29 - 32

excluding, if possible, all prison and skid row donors. It is urged that the state and federal control of the quality of blood used for blood transfusions be studied with the possibility that measures may be taken to increase its safety. If it is necessary that blood from prison and skid row donors be used to meet the demands such blood should be labelled as carrying a significantly increased hazard of transmitting serum hepatitis in order that the physician prescribing blood may take the necessary precautions."

Then from the US back to the UK with

Then from the US back to the UK with RLIT0001219. This is the same year, August 1966, and the relevance of this is just to show that the same issue is raised in a leader in the British Medical Journal in that year under the heading, "Transmission of disease by blood transfusion", where it says this:

"Hepatitis, syphilis, malaria and brucellosis have all been transmitted to patients who were given whole blood or blood products. Hepatitis is by far the most serious disorder transmitted in this way ..."

Then there is a reference to the different incidence rates depending upon the size of the pool. Then it says this:

"This important hazard of blood transfusion is

not as widely appreciated as it should be."

Then reference is made to one reason for that possibly being the comparatively long incubation period.

If we could then please have up on screen, please, Henry PRSC0000821.

This is a letter dated -- or a publication again in the British Medical Journal 5 November 1966 and it's a letter from Professor Zuckerman from the London School of Hygiene and Tropical Medicine. The left-hand column please, Henry, the article headed, "Blood transfusion and infectious hepatitis".

Professor Zuckerman who was based then at the London School of Hygiene and Tropical Medicine was a leader in the field or hepatitis at this time, as we will see from later materials. He said this:

"There are at present no specific tests for virus hepatitis but the serum transaminase levels have proved a sensitive index of liver damage. These tests have not been carried out in the small series of patients reported by [he refers back to an earlier publication] and it should be difficult to draw any valid conclusions from their results on the absence of anicteric post-transfusion hepatitis in 82 patient who received 222 pints of blood. Hazardous and misleading

10001104 EEE plinte of blood. Trazaradas aris

to attempt to translate these results into national figures. Estimates of the risk of hepatitis in blood recipients in the USA vary from 0.3 to 4.13 per cent and from a number of reports it was estimated that the overall mortality from post transfusion hepatitis could be as high as 27.5 per cent. Even more significant is the fact that although infectious hepatitis cannot be considered a major cause of death it nevertheless ranked in 1959 in the USA second only to influenza among the deaths attributed to acute virus infections."

Then if we could go to the top of the next column, please, Henry:

"In this country an estimate of the size of the problem of hepatitis cannot be made since hepatitis is not notifiable on a national basis. Nevertheless it should be a matter for considerable anxiety that there are indications that the number of deaths from hepatitis after cardiac surgery in some centres exceeds the mortality from surgery. Therefore, before we can aspire to undertake any preventative measures the first step should be the notification of hepatitis and the establishment of a follow-up system for all patients who have received blood transfusion. The problem is surely of such importance as to preclude

any attempts to guess the actual figures for hepatitis."

So that is Professor Zuckerman in the mid-1960s recommending the establishment of a follow-up system for all patients receiving blood transfusion.

There's a further document from Professor Zuckerman, Henry, at RLIT0000220. You don't have that? Don't worry. We can come back to that if need be.

Can we then go to PRSE0003714. This is,
September 1969, an article in the British Medical
Journal or a letter in the British Medical Journal
from the Royal infirmary in Liverpool, headed "Serum
hepatitis in a haemophiliac". It says this:

"Serum hepatitis after the use of cryoprecipitated antihaemophilic globulin is unusual."

Refers to a reported case, and then says:

"We report a second case with a fatal outcome."

The letter then details the particular case, which I won't take time going through, but if we go to the concluding two paragraphs of the letter it says this -- Henry, sorry, you can go back up. That's great.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

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

1	Cryo represents a considerable advance in the
2	management of the severe haemophiliac. This and other
3	centres have used many thousands of units without
4	mishap and we do not know of a similar case in
5	Britain. It is important to re-emphasise the
6	potential danger of cryo to ensure its use only when
7	strictly needed. A check should be kept of the source
8	of cryo to trace any serum hepatitis which may occur
9	in the future."
10	I'm not going to go to it but there is then in
11	the British Medical Journal two months later, in
12	November 1969, another case of serum hepatitis in
13	a haemophiliac patient reported in Belfast, and the
14	reference for those who are interested is PRSE0004488.
15	Sir, that brings me to the 1970s, and the next
16	document is one that might take a little longer to
17	look at, so is that a convenient moment to break?
18	SIR BRIAN LANGSTAFF: Yes, it is.
19	So we will take our break now for the next
20	45 minutes and be back at 20 to 12.
21	(10.56 am)
22	(A short break)
23	(11.41 am)
24	MS RICHARDS: Sir, we've reached the 1970s.
25	In July 1970 the Department of Health convened
	37

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

a meeting to discuss the problems of Australia antigen in relation to blood transfusions and associated matters.

In September of 1970, following that Department of Health meeting, the Advisory Group on Testing for the Presence of Australia (hepatitis-associated) antigen and its antibody -- it's a rather lengthy name of a group -- was formed under the chairmanship of Dr Maycock. We have its first report at PRSE0000190. It's, again, quite a long document and so I won't go through all of it.

We can see if we go to the second page, please, Paul, paragraph 2 we have the terms of reference, to advise the health department -- sorry, I should pick it up, in fact, before that because we can see its geographical scope:

"... we were appointed in September 1970 as an advisory group jointly by the Department of Health and Social Security, the Scottish Home and Health Department and the Welsh Office, with the following terms of reference:

"To advise the Health Departments on:

"i. the organisation of and responsibility for testing blood donations and other specimens of blood for Australia (hepatitis-associated) antigen and its

38

antibody in the hospital service;

"ii. the provision of reagents, choice of methods and whether, and if so, what kind of, training facilities are required;

"iii. the scale of accommodation, staffing, equipment and other services necessary to implement the group's proposals."

We can see that their members included consultant virologists, directors of Regional Transfusion Centres and a senior technical officer of the Public Health Laboratory Service. They met first on 5 October 1970, met on five subsequent occasions, and then produced this particular report.

If we go, please, to page 4, paragraph 6, Paul, we can see it's there said:

"Knowledge of all aspects of Australia (hepatitis-associated) antigen is accumulating very rapidly. Our recommendation should therefore be regard as interim ones and they may have to be modified in the light of new information."

So this was, as it says there, part of the developing knowledge of what would soon be identified and labelled as hepatitis B.

If we then go to the next paragraph, please, next page, paragraph 7, we can see there:

"Australia (hepatitis-associated) antigen is the name used in WHO memorandum 1970 for the antigen apparently associated with the infective agents thought to be the cause of serum hepatitis."

Then various other names given for it are there set out.

"The association between the antigen and serum hepatitis commonly accepted as the most frequent form of hepatitis observed following the injection of blood and blood products is well-established and the antigen can now be detected by a variety of laboratory tests."

Then if we go to the next paragraph, please, paragraph 8, it says:

"Although the hepatitis agent maybe less widely dispersed in the UK than in some other countries, the institution of testing blood donations for Australia antigen should reduce the incidence of serum hepatitis, which is the most serious complication of transfusion and so avoid suffering and disablement and even death."

So the aspiration from the early '70s was that the testing that was beginning to be available would enable there to be a reduction in the incidence of serum hepatitis. We will see as we go through the 1970s how that panned out.

40 (10) Pages 37 - 40

blood. The elimination of the use of these donors would be of most help to reduce transfusion hepatitis to a minimum, until a test of greater accuracy can be developed to detect the infectious carrier. We cannot develop a reliable national all-volunteer blood programme [you see this is in the States] as long as blood insurance programmes are permitted to exist or as long as commercial blood is part of a blood bank operation functioning under the euphemism of not for profit. This is an important matter to the patient's health."

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

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

principal recommendations":

equipment. Then if we go to (iv):

please, Paul. This is April 1971.

its antibody."

be informed."

Still in 1971, could we go to DHSC0002173 048, please. This is a report that was prepared for an April 1971 meeting of haemophilia centre directors. We will be coming back, sir, to documentation relating to haemophilia centre directors many times over the coming weeks as we hear witness evidence from clinicians. For present purposes I'll just look at the first page. We'll see it's entitled:

"Jaundice and Factor VIII antibodies in treated patients with haemophilia and Christmas disease. At a meeting of the directors of the 36 haemophilia centres of Great Britain held in 1967 it was decided to make a study of the incidence of transfusion hepatitis and inhibitors, two most alarming

"Transfusion hepatitis is thought to be a virus infection transmitted to the recipient by the donor plasma. There is every reason to suppose that the virus is contained in the various protein fractions used to treat haemophilia and Christmas disease, cryoprecipitate, human antihaemophilic globulin or HAHG and factor IX concentrate."

Then this:

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

"The danger of infection can be calculated and will be related to the number of donors used to make the material used for treatment or the number of donor exposures. If large pools of plasma are used to make therapeutic concentrates the theoretical danger of infection will be increased."

As I say, it's a document we will come back to at a later stage of the hearing so I will leave that document there.

Move to 1972 back to the States. Could we have please, Paul, DHSC0100024 079. In March of 1972 in the States, President Nixon directed the Department of

44 (11) Pages 41 - 44

		,	
1	Health, Education and Welfare to study and recommend	1	blood, the CMO here saw it.
2	a safe, fast and efficient nationwide blood collection	2	MS RICHARDS: Yes, absolutely, sir. This is a Department
3	and distribution system. It's there recorded that:	3	of Health document and you are right we see from the
4	"Authorities in the health field regarded the	4	bottom original returned to CMO (Chief Medical
5	present system as inadequate, pointing out that	5	Officer) 29 March 1972.
6	hospitals in many cases are forced to buy blood from	6	Could we then have please, Paul, RLIT0000169.
7	commercial blood banks, which often accept blood from	7	This is an article by Dr Maycock whose name we've seen
8	such donors as derelicts and drug addicts who may be	8	now a number of times of the Blood Products Laboratory
9	the transmitters of such diseases as hepatitis,	9	in Elstree. It is headed "Hepatitis in transfusion
10	syphilis and malaria."	10	services". There are just two passages we'll look at.
11	There's another report, I don't ask you to put	11	The first is the first part of it:
12	it up, Paul, but in case anyone is interested in	12	"The transmission of viral hepatitis is the most
13	reading further on this, Nixon's announcement is also	13	serious complication of the use of blood and blood
14	described in RLIT000223.	14	products. Two forms of hepatitis may be transmitted
15	SIR BRIAN LANGSTAFF: Just before you leave that document,	15	in this way. One has a short incubation period of
16	this is not just an extract from an American	16	some 15 to 40 days and is generally referred to as
17	publication which stays, as it were, in American	17	infectious hepatitis, a disease usually transferred by
18	readership, because it seems the original of this was	18	the oro-faecal route and assumed to be caused by an
19	sent to the CMO.	19	agent known as virus A or IH virus. The other form is
20	MS RICHARDS: Yes.	20	serum hepatitis, one of the characteristics of which
21	SIR BRIAN LANGSTAFF: The CMO is now returning this for	21	is a prolonged incubation period of some 40 to 150
22	the files.	22	days, occasionally 180 days. It is assumed to be
23	MS RICHARDS: Yes.	23	caused by an agent known as virus B or SH virus."
24	SIR BRIAN LANGSTAFF: So some time very shortly after	24	So we see here the nomenclature or terminology
25	President Nixon said what he said about the dangers of 45	25	changes over the years but we see here what we 46
	10		
1	commonly now refer to as hepatitis A and hepatitis B	1	known to be potentially icterogenic should be used
2	being identified here:	2	with discrimination. They should be administered only
3	"Serum hepatitis seems to occur more frequently	3	when the benefits they are likely to confer upon the
4	than infectious hepatitis as a result of the	4	patient outweigh the risk to which their use exposes
5	administration of blood and blood products."	5	him."
6	Then if we could go to the last page of this	6	That's the view being expressed in 1972 by
7	document, please, Paul under the heading conclusions,	7	Dr Maycock of the Blood Products Laboratory.
8	what Dr Maycock says there is:	8	(Brief pause)
9	"The incidence of serum hepatitis will diminish	9	MS RICHARDS: From 1972 onwards we begin to see, in
10	as transfusion services adopt the practice of	10	various medical and scientific publications,
11	excluding all donations of blood in which the	11	observations from clinicians that, even after the
12	Australia antigen is detected."	12	exclusion of donors who had tested positive for
13	Then the next paragraph says this:	13	hepatitis B antigen, there were still residual cases
14	"Following the demonstration of the association	14	of post-transfusion hepatitis, and so it began to dawn
15	between the presence of Australia antigen in	15	upon clinicians that there may be another form of
16	transfused blood and the occurrence of hepatitis in	16	hepatitis transmitted by blood or blood products other
17	a proportion of the recipients, terms such as 'safe	17	than hepatitis B.
18	blood' and 'safe blood products' were applied to blood	18	There are a number of reports in relation to
19	and products derived from it in which the antigen had	19	that and we will just go, for present purposes, to one
20	not been detected. At the present time both terms are	20	of them.
21	misleading because treatment with blood and blood	21	Paul, it is PRSE0001431.
22	products, except immunoglobulin and albumin which has	22	This is a publication in The Lancet in August
23	been heated [and gives the details there] continues to	23	of 1974 by Prince and others. It is called
24	carry the risk, admittedly a diminished one, of	24	"Long-incubation post-transfusion hepatitis without
25	transmitting hepatitis. Blood and blood products	25	serological evidence of exposure to hepatitis B
	47		48 (12) Pages 45 - 48
			(12) rayes 40 - 40

The Infected Bloo	d Inquiry	24 September 2020
virus", and we can get the message from the summary:	1	Long-term complications of acute hepatitis B
"An agent other than hepatitis B (HB) virus	2	infection, such as chronic hepatitis, cirrhosis and
seemed to be the cause of 36 (71 per cent) of 51 cases	3	hepatoma, have been reported to follow mild anicteric
of post-transfusion hepatitis identified during	4	infections more frequently than severe icteric cases;
prospective biweekly serological follow-up of	5	consideration must thus also be given to the
204 cardiovascular surgery patients. The sera of the	6	possibility that non-B hepatitis may play a role in
36 cases showed no evidence of the antigen or antibody	7	the aetiology of some forms of chronic liver disease."
response expected to accompany infection by HB virus	8	So there again in this report, identification of
and to be detectable by the sensitive assays used."	9	the potential serious long-term consequences for the
Then it refers to consideration of	10	liver of this newly recognised third form of
cytomegalovirus, and then says this:	11	hepatitis.
"The data suggests that a large proportion of	12	SIR BRIAN LANGSTAFF: By the word "acute", we are to
ong-incubation post-transfusion hepatitis is	13	understand something lasting for six months or less?
unrelated to hepatitis B and that control of	14	MS RICHARDS: Yes. So the distinction is between, as it
post-transfusion hepatitis will require identification	15	were, the short-term and the longer term.
of a hepatitis virus(es) type C."	16	SIR BRIAN LANGSTAFF: So every disease will have its acut
This is, I think, probably the first reference	17	phase but once it goes past six months it becomes
in the medical literature to what was subsequently	18	known as chronic?
dentified as hepatitis C.	19	MS RICHARDS: Yes.
If we go to the last page of this document,	20	If we have, please, Paul, CGRA0000694, I think
please, Paul, the first main paragraph on the	21	we can see that this finds its way into national
eft-hand side:	22	publication. This is The Times for November 12, 1974:
"The fact that non-B hepatitis cases are less	23	"The Science Report: New Strain of Hepatitis
requently associated with serious acute illness does	24	Isolated."
not imply that such cases are of lesser importance.	25	If we just pick it up in the third paragraph:
49		50
"Two strains of virus have been known for a long	1	"Dr Pool"
time: hepatitis A (originally called infectious or	2	That's a reference to Dr Judith Pool:
short-incubation hepatitis), and hepatitis B	3	" spent the past year at Oxford and tells me
(sometimes called post-transfusion hepatitis, because	4	that at least one of the sources for commercial
it is spread through donated serum and other blood	5	Factor VIII and IX is the Hyland Laboratories in the
products, and injections with contaminated needles).	6	Los Angeles area. Dr Biggs mentioned in her letter in
"The existence of at least one other strain has	7	Lancet last June 29th that there was two other
been apparent during the past six or seven years	8	commercial sources but Judy Pool did not know which
because research has shown that a large number of	9	they were or whether they were from the United States.
patients, particularly those infected from transfusion	10	"As you know, Cutter's product Konyne for
or injection, were not carrying the hepatitis A or B	11	Factor IX deficiency has proved extraordinarily
strains. In the United States up to 50 per cent of	12	hazardous, a 50-90 per cent rate of icteric hepatitis
transfusion-associated illness is caused by this third	13	developing from it. About half of these cases prove
'non-A non-B' agent."	14	fatal. Cutter's source of blood is 100 per cent from
So we see there the terminology that, over the	15	skid row derelicts. The other imponderable which has
following years, became associated with this	16	troubled most of us is the ineffectiveness in
particular virus: "non-A non-B hepatitis".	17	screening for the HB antigen. This failure of course
Could we then, Paul, move to CBLA0000249,	18	dates back to at least 1971 and suggests that half if

please.

This is an important letter from

questions about the usage of Factors VIII and

the Blood Products Laboratory. It's dated

Dr Garrott Allen, again, to Dr Maycock this time, at

6 January 1975 and Professor Garrott Allen is raising

Factors IX, and we pick it up in the third paragraph:

25 "A blood bank for these groups in the 52 (13) Pages 49 - 52

not more of the cases of post-transfusion hepatitis

are caused by an agent other than hepatitis A or B.

socio-economic groups of paid and prison donors."

Then if we go to the next paragraph:

more frequently encountered in the lower

Whatever this other agent may be, it still seems to be

1	United States is a monetoropic establishment. The	1	MS RICHARDS: I am sure someone sitting alongside or
2	commercial blood banks attract these kinds of donors.	2	beside me will be online on the Oxford English
3	Until we understand this problem better, I would hope	3	Dictionary as we speak. That's a hint!
4	that Great Britain would give some thought to what the	4	Again, for reference, I am not going to take to
5	purchase of Factors VIII and IX from the United States	5	it but we do have Dr Maycock's reply, and for those
6	tends to do to our attempts to form a volunteer	6	who are interested, it's at CBLA0000254.
7	programme. Commercial blood banking perpetuates the	7	Can I then, and we're still in 1975 here, go to
8	high risk rates for hepatitis we encounter with their	8	PRSE000009. This is a document that Lord Owen
9	products and it also tempts those same commercial	9	referred to in his evidence yesterday, which we didn't
10	firms to sell the residual products of these high-risk	10	look at during his evidence. I might have missed out
11	donors to non-immunised patients who tend to be more	11	a zero there, Paul, sorry.
12	susceptible to post-transfusion hepatitis than is so	12	Thank you.
13	far the non-virgin haemophiliacs."	13	So it's an example of what Lord Owen referred to
14	SIR BRIAN LANGSTAFF: When he uses the word	14	as a "Dear Doctor" letter, so a means by which the
15	"monetotropic", he is saying it attracts money, is he?	15	Chief Medical Officer might communicate advice and
16	MS RICHARDS: Yes, I assume so, sir.	16	information to medical practitioners. This is dated
17	SIR BRIAN LANGSTAFF: It's an unusual word but I think	17	1 May 1975 to all regional medical officers. It is
18	that's what it means.	18	headed "Blood donation and hepatitis", and it is from
19	MS RICHARDS: It is. It's not one I've ever come across	19	Dr Yellowlees who was the then Chief Medical Officer.
20	and I'm afraid it's not one I looked up, so I'm going	20	It says:
21	to defer to your greater knowledge	21	"The Department has recently received advice
22	SIR BRIAN LANGSTAFF: Well, "tropic" I think means	22	from a group of experts on the use of blood donations
23	attracting, and "moneto" sounds like a money to me.	23	from certain categories of donors."
24	If anyone has a better definition then they can let me	24	Various matters are then set out relating to
25	know in due course.	25	geographical factors. I am not going to spend time on
	53		54
1	that for present purposes but if we could go to the	1	I propose to do now, sir, is to play the World in
2	second page under the heading "Prisons" the letter	2	Action documentary that was broadcast in two parts on
3	says this:	3	1 December 1975 and then a week later on
4	"There is a relatively high risk of hepatitis B	4	8 December 1975.
5	being transmitted by the blood of prisoners. But	5	Many of you will have seen this and be very
6	there is probably an equally high risk in other groups	6	familiar with it but not everyone, and the broader
7	of the population, eg drug addicts, who are not so	7	public may not know that in 1975 this documentary was
8	easily identified in advance as prisoners, if they can	8	made and broadcast. It's going to provide an
9	be identified at all. The advice we have received is	9	important backdrop for the evidence we hear from
10	that it is not necessary to discontinue the collection	10	clinicians and others over the coming months.
11	of blood at prisons and similar institutions provided	11	So, Paul, could we play, please, MDIA0000113.
12	all donations are subjected to one of the more	12	This is part 1 of "Blood Money", the World in Action
13	sensitive tests referred to above."	13	documentary broadcast on 1 December 1975.
14	We will come back when we look at a document in	14	(Blood Money, Part 1, World in Action, played)
15	the '80s to the question of continuing collection of	15	It will eat into lunch by probably 7 or
16	blood from prisoners in the United Kingdom.	16	8 minutes if we play the second half now, start lunch
17	Without again going to too many documents, there	17	a little late, have the full lunch and then pick up
18	are further articles reported in the course of the	18	the documents again after lunch, if that's all right?
19	mid-1970s about this newly understood and recognised	19	SIR BRIAN LANGSTAFF: That would be a good idea.
20	hepatic virus. One example again for the benefit of	20	MS RICHARDS: So if we could play the second part of this
21	those who want to look at this in more detail is	21	documentary, Paul, which is MDIA0000114.
22	a report by Alter in The Lancet in November 1975.	22	(Blood Money, Part 2, World in Action, played)
23	Paul, you don't need to put it up on screen but it is	23	Sir, it is 1.05. That would be a convenient
23 24	PRSE0001172.	23 24	point, I think, at which to break for lunch.
24 25	That brings us to the end of 1975 and what	2 4 25	SIR BRIAN LANGSTAFF: We'll take a break until 2.05.
	55	23	
			56 (14) Pages 53 - 56

1	2.05, please.	1	plasma from which pools were made, and the other the
2	(1.06 pm)	2	NHS, 100 to 200 litres of plasma.
3	(Luncheon Adjournment)	3	This is the point I want to run past you. I am
4	(Luncheon Adjournment)	4	raising it with you really so that if anyone from
5	(2.06 pm)	5	their different perspectives who's listening, from the
6	SIR BRIAN LANGSTAFF: Ms Richards, can I just raise	6	recognised legal representatives, would wish to
7	something with you which arose to me on reflection of	7	comment and correct me if this is a wrong deduction,
8	the material you produced this morning. You produced	8	one inference would be that assuming, and the
9	quite a lot of material which evidences that there was	9	assumption may be wrong but assuming, that a litre is
10	a knowledge that voluntary/non-remunerated blood	10	composed of two donations, each roughly half a litre
11	donors were less likely to produce an infected product	11	of blood, or maybe four donations, probably more
12	than were paid donors, particularly those from the	12	likely because a litre is a couple of pints, give or
13	United States in the social groups from which they	13	take, that would mean that in the States there would
14	came.	14	have been between 8,000 and 24,000 donations,
15	You have established that there was material	15	individual donations, in a pool and in the
16	which showed that as one increased the pool size so	16	UK somewhere between 400 and 600. If my arithmetic is
17	the risk of infection within that pool from one or two	17	right. Again, it may need to be checked.
18	donations was increased.	18	Of course, we don't know that's donations,
19	At the end of yesterday I asked Dr Owen what he	19	it's not necessarily donors, because if the evidence
20	could say about the relative pool sizes used to	20	produced by those who made the documentary is right,
21	produce product in the NHS on the one hand and	21	a number of those who went to give donations at the
22	commercially on the other. In the documentary which	22	blood centres, plasma collection centres in the
23	we've just seen, there was a reference two	23	States, gave it repeatedly, twice a week, and may
24	references, one to the United States, where I think	24	possibly have given it to more than one centre in
25	they quoted the figure of 2,000 to 6,000 litres of	25	addition. So there may have been a smaller number of
	57		58
1	donors but that might give some idea of the relative	1	"There's no doubt that the import into the
2	size of pools.	2	United Kingdom of Factor VIII concentrates derived
3	MS RICHARDS: Yes. Yes, it might, sir.	3	from external sources, however well-screened for
4	SIR BRIAN LANGSTAFF: That's just what I wanted to raise,	4	hepatitis viruses, represents an unequivocal pathway
5	to see if those inferential figures bear that	5	by which"
6	inference, and if anyone has any suggestion that they	6	If we can have the top of the next column,
7	don't they can come back to you.	7	please, Paul:
8	MS RICHARDS: Yes, thank you, sir.	8	" the level of a potentially lethal virus
9	Sir, the next document that we're going to look	9	into the whole community is being deliberately
10	at is PRSE0004064, and it's a response from Dr Cash to	10	increased."
11	the World in Action programme that we've just watched.	11	Sir, I draw attention to that not least because
12	It's BMJ, British Medical Journal,	12	of your question to Lord Owen yesterday about the
13	24 January 1976. If we could go down a bit further	13	concept in his evidence of deliberate decisions.
14	please, Paul, it's the letter headed "Commercial and	14	"Although the absolute magnitude of this problem
15	NHS Factor VIII Concentrates". This was Dr Cash's	15	is exaggerated and over-dramatised by the television
16	reaction to the programme:	16	programmes, nobody with direct or indirect
17	"One of the inevitable dangers of a journalistic	17	responsibilities for this phenomenon would wish to
18	approach to medical problems is that limitations in	18	belittle the serious nature of the moral and practical
19	time (radio or TV) or space (newspapers or	19	dilemma which face us all."
20	periodicals) may give rise to a selection of comments	20	Then he goes on to comment specifically about
21	periodicals) may give rise to a selection of comments made by experts which, when taken out of context and	21	the £500,000 and NHS targets, which is obviously an
21 22	periodicals) may give rise to a selection of comments made by experts which, when taken out of context and put together for a programme or article, are	21 22	the £500,000 and NHS targets, which is obviously an issue that we'll be revisiting in future hearings.
21 22 23	periodicals) may give rise to a selection of comments made by experts which, when taken out of context and put together for a programme or article, are misleading. This probably arose during the ITN	21 22 23	the £500,000 and NHS targets, which is obviously an issue that we'll be revisiting in future hearings. The next document, please, Paul, is
21 22 23 24	periodicals) may give rise to a selection of comments made by experts which, when taken out of context and put together for a programme or article, are misleading. This probably arose during the ITN television series World in Action."	21 22 23 24	the £500,000 and NHS targets, which is obviously an issue that we'll be revisiting in future hearings. The next document, please, Paul, is HSOC0016695 oh, I'm so sorry, yes, HSOC0016685.
21 22 23	periodicals) may give rise to a selection of comments made by experts which, when taken out of context and put together for a programme or article, are misleading. This probably arose during the ITN television series World in Action." Then he says in the second paragraph:	21 22 23	the £500,000 and NHS targets, which is obviously an issue that we'll be revisiting in future hearings. The next document, please, Paul, is HSOC0016695 oh, I'm so sorry, yes, HSOC0016685. I have transcribed it incorrectly in my notes.
21 22 23 24	periodicals) may give rise to a selection of comments made by experts which, when taken out of context and put together for a programme or article, are misleading. This probably arose during the ITN television series World in Action."	21 22 23 24	the £500,000 and NHS targets, which is obviously an issue that we'll be revisiting in future hearings. The next document, please, Paul, is HSOC0016695 oh, I'm so sorry, yes, HSOC0016685.

The	Infected	Blood	Inquiry
-----	----------	-------	---------

24 September 2020

1	This is an article published in July 1976 in the	1	nature of this virus and its disease is elucidated, it
2	Journal of Laboratory and Clinical Medicine. It's by	2	is important to consider human blood and pooled plasma
3	Hoofnagle and others, and the title:	3	products as potentially infectious. At the present
4	"The prevalence of hepatitis B surface antigen	4	time, fibrinogen, AHF and Factor IX concentrates
5	in commercially prepared plasma products."	5	remain high-risk plasma products which must be
6	I just want to go to the last paragraph of the	6	considered likely to produce overt hepatitis in
7	whole article, please, Paul, so the last page of the	7	susceptible recipients."
8	document.	8	So, again, the clear recognition of non-A, non-B
9	Sorry, the one before that, not the list of	9	hepatitis there.
10	references, the last text above that. Thank you.	10	Paul, if we could then have CGRA0000934. If we
11	So the last paragraph of the article, picking it	11	just zoom in a little on that letter. This is another
12	up in the second sentence:	12	letter by Professor Dr J Garrott Allen from
13	"Recently it has been shown that not all	13	Stanford University. The date of this is May 1976 and
14	post-transfusion hepatitis can be classified as type B	14	you'll see it's headed "The High Cost of Cheap Blood".
15	hepatitis. More startling was the finding that the	15	It's a communication to the New England Journal of
16	non-B post-transfusion hepatitis could not be	16	Medicine and it is essentially on the same theme as
17	classified as type A hepatitis. This has led	17	we've seen from Dr Garrott Allen and indeed we saw in
18	investigators to postulate the existence of a third	18	the programme. Just picking it up in the last the
19	human hepatitis virus, a virus which also appears to	19	paragraph that's already highlighted on this copy.
20	be harboured in blood. It's possible that this third	20	He's referring to recommendations made in the States
21	hepatitis virus can withstand the pooling and	21	from the Council on Wage and Price Stability, CWPS and
22	fractionation procedure and that it's responsible for	22	says:
23	some cases of hepatitis following the use of high-risk	23	"They reason that because patients with
24	plasma products. At present there are no markers and	24	haemophilia have been given transfusions they have had
25	no means of detecting this virus in blood. Until the	25	their hepatitis and can receive products from high
	61		62
1	risk commercial donors. This is the same error the	1	reserved until non-A, non-B hepatitis can be defined
2	British made in 1974 when they augmented their supply	2	serologically."
3	of haemophilic concentrates with commercially prepared	3	Hence we see non-A, non-B hepatitis as the
4	products form American pharmaceutical companies.	4	terminology used from pretty much this time on until
5	Craske reported a rise from 3 to 50 per cent in case	5	the late 1980s.
6	of hepatitis among his small group of patients with	6	Then if we could go to the next page, please,
7	haemophilia. As his studies have extended, the score	7	Paul, picking it up in the third paragraph:
8	in late November was 58 cases, with two deaths. This	8	"As with type B hepatitis, type non-A, non-B
9	hazard was predicted before it was observed."	9	hepatitis occurs significantly more frequently
10	Then please, Paul, PRSE0000381. This is an	10	following transfusion of commercially derived blood
11	Article published in the Yale Journal of Biology and	11	than following receipt of blood derived from volunteer
12	Medicine in July 1976 by Purcell, Alter and Dienstag,	12	sources. Thus type non-A, non-B disease has been
13	non-A, non-B hepatitis. If we could go to the second	13	found to occur five to ten times more frequently
14	page please, Paul, picking it up in the second	14	following transfusion of the former than following
15	paragraph:	15	transfusion of the latter."
16	"The development of sensitive tests for	16	Then the next paragraph begins:
17	indicators of hepatitis A virus infection now makes it	17	"The epidemiology of non-A, non-B hepatitis
18	possible to divide non-B hepatitis into type A	18	resembles more closely that of type B hepatitis than
19	hepatitis and non-A, non-B hepatitis. Although the	19	that of type A disease."
20	term type C hepatitis has been suggested for the	20	Then if we can go to the next page, please,
21	latter disease, there is evidence that non-A, non-B	21	picking it up about halfway down:
			- · · · · · · · · · · · · · · · · · · ·
22	hepatitis may be caused by more than one agent and we	22	"Although type non-A, non-B hepatitis is
22 23		22 23	"Although type non-A, non-B hepatitis is associated with less severe acute illness than type B
	hepatitis may be caused by more than one agent and we		

63

INQY1000056_0016

64 (16) Pages 61 - 64

1 prognosis for the two diseases may be similar", and present no tests are available. The existence of 2 then there's reference to elevated transaminase 2 hepatitis C was postulated recently." 3 3 That's a comment from the Royal College of values, reference to various studies on particular 4 4 patients. Then the last sentence of that paragraph: Physicians opposing the recommendation. If we look at 5 "Thus, chronic non-A, non-B hepatitis is not 5 the previous page, Paul, this is the response of the 6 6 necessarily a benign infection and may be the cause of DHSS to the observations by the Royal College of 7 a significant proportion of chronic hepatitis not 7 Physicians. They make a number of points. I just 8 8 identifiable as type B disease." wanted to pick up the point at paragraph 7: 9 9 Could we then please, Paul, still in July 1976 "The DHSS response is no evidence has been 10 10 collected yet in UK to substantiate the presence of go to PRSE0001579. Now the context of this document, 11 sir, is a discussion triggered by the recommendation 11 a hepatitis C." 12 of the advisory group on testing for the presence of 12 It may be thought there is a foreshadowing there 13 13 of the mantra of no conclusive proof that we will see hepatitis B surface antigen, a particular 14 recommendation to discontinue the practice of 14 when we look at documentation relating to HIV. 15 permanently excluding donors with a history of 15 Paul, if we could then please have PRSE0002602. 16 jaundice. 16 This is an article in The Lancet, we're now 17 17 If we could go to the fifth page please, Paul, 12 March 1977, by Dienstag, Purcell, Alter and others. 18 18 what we have there, the document is headed, "Comments If we could go to the third page please, Paul, 19 by the Royal College of Physicians", so the Royal 19 left-hand column towards the bottom of the page if you 20 College of Physicians were commenting upon this 20 could scroll down, we see a passage beginning: 21 recommendation and suggesting that the recommendation 21 "Besides these data other evidence for non-A, 22 22 should not be implemented. About halfway down the non-B [and that's the data referred to earlier in the 23 page, we have a passage which says this: 23 Article. I won't go into the detail of that] other 24 24 "Furthermore, transfusion hepatitis may be evidence for non-A, non-B agents has been 25 25 caused by viruses other than hepatitis B for which at accumulating. Non-A, non-B hepatitis has now been 65 66 1 recognised in Britain [possibly not by the Department 1 I'll just pick it up here: 2 2 of Health and Social Services if the previous document "In this study, 44 cases of acute non-A, non-B 3 is accurate] in Australia, Japan, Costa Rica and 3 post hepatitis have been followed prospectively for 4 4 possibly Germany. Not only does non-A, non-B development of chronic liver disease. Ten patients, hepatitis occur worldwide but it's apparently spread 5 5 23 per cent, had persistent liver enzyme elevations 6 by modes other than transfusion." 6 from 12 to 36 months after acute transaminase 7 7 Then we see a range of different routes elevations were first recorded. Liver biopsy 8 8 identified including haemodialysis, renal transplant: specimens from these ten patients provide evidence 9 9 "Several instances of chronic hepatitis have that acute non-A, non-B hepatitis (hepatitis C?), can 10 followed acute non-A, non-B hepatitis. We feel there 10 progress to chronic liver disease and cirrhosis." 11 are adequate data to support the existence of non-A, 11 Then if we go to the next page, top of the next 12 non-B viruses." 12 page: 13 So that's the medical and scientific 13 "The frequency with which the acute hepatitis 14 perspective. Then if we go please to RLIT0000226 we 14 cases caused by this non-A, non-B hepatitis-producing 15 15 see in this document that the existence of non-A, agent progressed to chronic liver disease was high. 16 16 non-B hepatitis now appearing to be essentially Histologically, eight of the ten cases of non-A, non-B 17 a clinical consensus, consideration being given to the 17 chronic hepatitis had progressed to chronic active 18 nature and seriousness of the disease. This is an 18 hepatitis and an additional patient already had 19 article in May 1977 in Gastroenterology entitled, 19 developed cirrhosis." 20 "Development of chronic liver disease after acute 20 Then, on the same theme, I think two further 21 non-A, non-B post-transfusion hepatitis", by Knodell 21 documents. RLIT0000228, please, Paul. This is in the 22 22 and others. Paul, if we could go to page 7. It is Annals of Internal Medicine, July 1977, an article by 23 the penultimate page. 23 Hoofnagle and others entitled "Transmission of non-A, 24 Under the heading "Discussion", that long 24 non-B hepatitis." 25 paragraph towards the end of the paragraph, please, 25 Again, Paul, if we can go to the penultimate 68 (17) Pages 65 - 68 67

1 page, so it is page 6 of 7. We see on the right-hand and we can pick it up in the summary at the top: 2 column a paragraph beginning: 2 "Systematic screening of 47 haemophiliacs in 3 3 "Several clinical and epidemiologic features of Sheffield revealed abnormal liver function tests in 36 4 4 non-A, non-B hepatitis have become clear from studies (77 per cent) with a tendency for these abnormalities 5 such as the present one. First, non-A, non-B 5 to persist. To assess the importance of these 6 6 hepatitis closely resembles type B hepatitis. The abnormalities, percutaneous liver biopsy was carried 7 incubation period, clinical symptoms and signs, and 7 out on eight symptom-free patients under Factor VIII 8 8 the potential for chronicity appear to be similar to cover. A wide spectrum of chronic liver disease was 9 9 type B hepatitis. Undoubtedly what was once referred demonstrated, including chronic aggressive hepatitis 10 10 to as 'serum hepatitis' included both type B and and cirrhosis." 11 non-A, non-B hepatitis." 11 Then if we could go to the third, the last page 12 Then it deals with the route of transmission, 12 of this document, Paul, under the heading 13 13 spread predominantly by the parenteral route, and then "Discussion", the second paragraph: 14 14 "We confirmed earlier observations that 15 "Non-A, non-B hepatitis appears to be associated 15 percutaneous liver biopsy can be carried out safely in 16 with a chronic carrier state and chronic liver 16 haemophiliacs given adequate Factor VIII cover and 17 disease." 17 appropriate laboratory control. As with any 18 18 Then skipping a few lines: non-haemophiliac patient, there is a risk of 19 "Finally, non-A, non-B hepatitis appears to be 19 haemorrhage with this procedure but experience 20 common." 20 supports the statement of Lesesne, et al, that the 21 Then, Paul, if we can have PRSE0003622 this is 21 potential risks of complications from liver biopsy in 22 22 a report in The Lancet in September of 1978 by haemophiliacs are outweighed [et cetera]. 23 Professor Preston, Dr Underwood, Dr Mitchell and 23 "We also found a wide spectrum of chronic liver 24 others based in Sheffield. It's looking at the 24 disease, including benign self-limiting hepatitis, potentially treatable chronic aggressive hepatitis and 25 position of chronic liver disease in haemophiliacs, 25 69 70 1 established cirrhosis. All our paints were 1 transfused individuals." 2 2 symptom-free at biopsy and it was impossible to So an acceptance there apparently that abnormal 3 differentiate between the different forms of liver 3 livers are evidently common among haemophiliacs. The 4 4 disease on the grounds of biochemical abnormalities. reference there to Dame Sheila is to 5 Since the patients undergoing biopsy had been 5 Dame Sheila Sherlock, who was then a leading expert on 6 arbitrarily selected, it is reasonable to conclude 6 liver disease. 7 7 that a large proportion of haemophiliacs receiving Then if we go next, please, Paul, to 8 8 treatment with Factor VIII have important chronic NHBT0000186_004. We see here a meeting invitation 9 9 from the Medical Research Council. It's dated liver disease." 10 We will undoubtedly, sir, in the course of the 10 7 February 1979. It's addressed to Dr Craske. There 11 evidence over the coming weeks return to Professor 11 are similar invitations to others to attend the 12 Preston's findings in 1978 and how others responded to 12 meeting: 13 13 "Dear Dr Craske, ad hoc meeting on non-A, non-B 14 14 If we could then, Paul, go to DHSC0002191_026. hepatitis." 15 15 This is a letter, January 1979, 8 January 1979. It's It's an invitation to attend a meeting that took 16 16 from Dr Dane the School of Pathology at the Middlesex place on 12 February. I just draw your attention to 17 Hospital Medical School, and it's addressed to 17 this: 18 Dr Waiter at the DHSS. It is about non-A, non-B 18 "The Chief Scientist of the Department of Health 19 hepatitis, and the plan was for there to be 19 and Social Security has informed the council that this 20 consideration of that at a meeting. I just wanted to 20 subject is being given high priority by the 21 pick up on the second paragraph: 21 Department. Some batches of a commercial product 22 22 containing Factor IX have been found to transmit this "If one or more of these viruses is responsible 23 23 for the abnormal livers which are evidently common form of hepatitis to chimpanzees and as a result the 24 among haemophiliacs, then chronic liver disease due to 24 product has not been given a licence. This is causing 25 these viruses might also be found among other 25 considerable anxiety from the point of view of the

71

72 (18) Pages 69 - 72

The Infected Blood Inquiry

treatment of patients. Also laboratory staff
generally are beginning to enquire about laboratory
safety, and trials of blood products are becoming
difficult to stage because of concern over hepatitis
transmission. Two aspects on which the Department
sees a need for further work: research which will
identify/characterise the agent carrying non-A, non-B
hepatitis, and studies leading to the development of
a test for the organism or its marker."
Sir, I am not going to go to the notes of the

Sir, I am not going to go to the notes of the meeting itself. Again, undoubtedly it's a document that we will look at again over coming months. For those who are interested, I think it can be found at PRSE0001960.

Could we then, please, Paul, have BART0002487. This is a communication in April 1979. It's from Dr Kernoff at the Royal Free to Dr Colvin at the London Hospital.

If we just go to the last page for a moment,
Paul, we can see it's written by Dr Kernoff in his
capacity as Chairman of the Haemophilia Working Party
of the NETR Association of Haematologists, and it's
addressed, if we go back to the beginning of the
letter -- sorry, Paul -- to Dr Colvin in his capacity
as secretary of the NETR Association of

Haematologists.

SIR BRIAN LANGSTAFF: That's North East Thames, is it?

MS RICHARDS: Yes, North East Thames Region, yes, it would be.

If we can go to the second page please, Paul, under the heading "Two types of therapeutic material available" -- sorry, I should add, of course, that both Dr Colvin and Dr Kernoff were closely involved with the treatment of patients with bleeding disorders. So, "Types of therapeutic material available". If we pick it up halfway down that paragraph, Dr Kernoff says this to Dr Colvin:

"Not only is commercial concentrate expensive but there are both clinical and moral reasons for preferring the NHS material. The clinical reason is the growing awareness of the probability that commercial concentrates have a higher risk of transmitting non-A, non-B hepatitis than NHS material."

Then Dr Kernoff says this:

"This is a serious disease with long-term consequences which, as far as is known, is at present much less common in the UK than in those parts of the world, particularly the USA, where donor blood for commercial concentrates is collected. We may

therefore be introducing diseases which are not yet endemic in the UK. The moral reason for preferring NHS material is that it seems inappropriate to many that the maintenance of adequate standards of treatment to NHS patients should be dependent on blood obtained from paid donors from foreign countries."

But we can see there a recognition of the nature of non-A, non-B hepatitis as a serious disease with long-term consequences.

If we can then move from 1979 to 1980 and have, please, RLIT0000180. This is a study which looks at the position of children. It is from the archives of Disease in Childhood, 1980, "Liver disease, complicating severe haemophilia in childhood", by McGrath and others. Again, the research appears to be based at Sheffield Children's Hospital and Sheffield University Medical School. Summary:

"Liver biopsies were performed in 5 boys aged between 2 and 9 years with severe classical haemophilia who had persistently abnormal liver function tests. Abnormal histology was present in all; 4 had chronic persistent hepatitis and the fifth chronic aggressive hepatitis with early cirrhosis. Evidence of previous hepatitis B infection was present in one patient [et cetera, et cetera]. The significance of these findings in young boys is discussed, as is the role of exposure to Factor VIII containing blood products. It is concluded that cryoprecipitate should be used in preference to large pool Factor VIII concentrates in children with haemophilia."

If we could go to the last page, please, and I'm grateful this was a document flagged up by representatives from one group of core participants on the basis it does look specifically at the position of children, and if we go to the bottom of the left-hand column on the last page, Paul:

"This study suggests that only brief exposure to Factor VIII concentrates (13 to 45 batches) is necessary to produce chronic liver damage in at least 25 per cent of haemophiliacs requiring regular treatment. As children usually receive treatment in hospital until considered suitable for treatment at home we recommend such patients should, if possible, be treated with cryoprecipitate in preference to large pool Factor VIII concentrates until the significance of the chronic liver damage is better understood or until such Factor VIII concentrates have been refined to exclude viral hepatitis agents."

Then there's a discussion about the use of

(19) Pages 73 - 76

1 biopsies. Dr Craske for a symposium of the Royal College of 2 Two further documents from 1980. The first is 2 Physicians, I think. It's called, "The epidemiology 3 3 WITN0282008 please, Paul. This is a memo, a minute, of Factor VIII and IX associated hepatitis in the UK". 4 from Dr Diana Walford to Mr Harley within the 4 If we could turn please to page 7, we see this being 5 Department of Health and Social Security and it's 5 said. Under the heading, first of all, 6 6 dated 15 September 1980. The context is, and we heard "complications", it said: 7 some allusion to this in Lord Owen's evidence 7 "Most cases of non-A, non-B hepatitis are mild 8 8 yesterday, the possible commercial takeover by illnesses. Six cases have been reported as severe. 9 9 Beecham's of BPL. In the context of discussing that, Two patients have died in the acute stage of the 10 10 disease but there were complicating factors in both Dr Walford said this, third paragraph: 11 "I must emphasise that 90 per cent of all 11 instances." 12 post-transfusion and blood product infusion hepatitis 12 Then there's a discussion of acute fulminating 13 in the USA and elsewhere is caused by non-A, non-B 13 hepatitis. Then discussion of chronic liver disease. 14 hepatitis viruses which, unlike hepatitis B, cannot at 14 There's reference to persistently elevated levels and 15 present be detected by testing donor blood. This form 15 then this: 16 of hepatitis can be rapidly fatal, particularly when 16 "Most of these patients are symptomless, however 17 17 acquired by patients with pre-existing liver disease a few have clinical features suggestive of chronic 18 18 or can lead to progressive liver damage. It can also liver disease but the ethical problems associated with 19 result in a chronic carrier state thus increasing the 19 the indications for liver biopsy meant that few 20 pool of these viruses in the community." 20 patients have so far undergone this procedure. About 21 So an important recognition there, sir, in 1980 21 40 patients have undergone biopsy in the UK and 22 by Dr Walford of the DHSS of the serious nature of 22 approximately 50 per cent of these have histological 23 non-A, non-B hepatitis. 23 evidence of chronic persistent hepatitis. Other 24 24 patients showed evidence of chronic liver disease or Then finally from 1980, Paul, could we have 25 25 cirrhosis." PRSE0003209, please. This is a document authored by 78 1 Then skipping down a sentence: 1 that under the heading "Complications" where he says 2 2 "The only common factor was regular treatment most cases of non-A, non-B hepatitis are mild 3 with Factor VIII concentrate. Most of the patients in 3 illnesses he's thinking there of the acute phase and 4 4 this group are children or young adults, though the the acute phase only, and that would make sense both 5 age range at Oxford is 6 to 70 years. It seems likely 5 of what he'd previously said and with what he then 6 that some patients will develop severe chronic liver 6 goes on to say under the heading "Chronic liver 7 7 disease over the next ten years." disease". 8 8 The reason for drawing attention to that in SIR BRIAN LANGSTAFF: So that might be a reconciliation of 9 9 particular, sir, obviously is Dr Craske's close the two? 10 10 association with the Haemophilia Centre Directors MS RICHARDS: It might be. 11 organisations, the meetings of which he attended on 11 Paul, could we then have, please, HSOC0008581, 12 a regular basis and to whom he gave regular advice. 12 please. This is a series of Hansard extracts from 13 SIR BRIAN LANGSTAFF: Can you just give me one moment. 13 various dates. Could we go to the last page of the 14 Yes, I have a note just to compare what you were 14 document, please. Here we have an extract from 15 15 saying in February 1979 with what he was saying there. Hansard on 24 February 1981, so we're now in early 16 16 My note of 1979, the reference is PRSE0001960, you 1981. This is Lord Cullen who is responding on behalf 17 mentioned it earlier, that reference, where he was 17 of the Government, that's apparent from the previous 18 quoting the views, not his views but the views of what 18 page. Lord Cullen says this: 19 he described as American and German workers, that up 19 "My Lords, blood products are not purchased 20 to 40 per cent of non-A, non-B infections progressed 20 centrally. They are purchased by health authorities. 21 to chronic liver disease and so, so far as chronic 21 I regret that up-to-date information on the 22 22 liver disease and non-A, non-B infections are expenditure on imported products is not available." 23 23 concerned, that's what he seemed to be saying then. It is obviously pertinent to some of the 24 Is he saying anything different in this article? 24 observations from the witness yesterday. 25 MS RICHARDS: I'm not sure that he is, sir. It may be 25 "The country from which these products come is 80 (20) Pages 77 - 80 79

The Infected Blood Inquiry 1 mainly the United States. Some also come from Austria Los Angeles", identification in the period 2 and one or two other European countries. So far as 2 October 1980 to May 1981, five young men, all active 3 3 homosexuals, treated for biopsy confirmed PCP at three concerns making sure that these products are free from different hospitals in Los Angeles, California. 4 infection, undoubtedly the careful checks which are 4 5 made at all stages are extremely effective for all 5 I won't go through all the various different 6 6 except a very few products, one of which is used in MMWR reports but what we see when we trace them 7 the case of haemophiliacs. There is a danger that 7 through is that as they continue through 1981, more 8 8 Factor VIII which has to be injected into and more cases are reported. So a month later, for 9 9 haemophiliacs can have in it a strain of hepatitis and example, in July 1981 the report is of 26 cases of 10 10 Kaposi's sarcoma and a number of further cases of PCP. at the moment there is no way of testing for these 11 strains. That is the one product as to whose freedom 11 That continues. 12 from infection we cannot be absolutely certain. 12 If we have, please, Paul, before I return to HIV 13 However, every effort is made to see that it is not 13 and AIDS, one further reference from this time on 14 infected and although, occasionally, something may 14 hepatitis, PRSE0003110. This is an article in the British Medical Journal July 1981. It is worth 15 happen, it is not of a serious nature." 15 16 That is obviously, it's fair to say, in fairly 16 reading the first paragraph: stark contrast to the material in the medical and 17 17 "Despite advances in screening donors and in 18 18 scientific literature that we've been looking at in blood fractionation post transfusion hepatitis remains 19 the second half of the '70s. 19 the major complication of the modern treatment of 20 1981 of course is where we begin to pick up the 20 haemophilia. The diagnosis is usually inferred from 21 first reports of what will become known as AIDS. 21 abnormalities in the results of hepatic biochemical 22 22 Paul, could we please have CGRA0000242. This is the tests rather than from clinical evidence. Surveys in 23 June 1981 morbidity and mortality weekly report by the 23 haemophiliacs have shown changes in the liver 24 Centres for Disease Control in the States and we see 24 architecture consistent with previous viral assault, 25 here under the heading, "Pneumocystis pneumonia, 25 including those of chronic persistent and chronic 81 1 active hepatitis and of cirrhosis." 1 If we could then go please Paul to PRSE0004476, 2 2 Then this: the second page please, this is The Lancet 3 "Indeed, in some cases early death from liver 3 December 1981. So we have the articles in the States 4 4 disease might prove to be the price paid by in the New England Journal of Medicine and in The 5 haemophiliacs for the improved quality of life 5 Lancet a letter which is referring to the recent 6 6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

afforded by the easy availability of clotting-factor concentrates."

7

8

9

10

11

12

13

14 15

16

17

18

19

20

21

22

23

24

25

So the issue there addressed in the British Medical Journal, obviously a very commonly read journal for medical practitioners, in those somewhat stark terms.

If we go then please, Paul, to CGRA0000424, we are now in the CDC's morbidity and mortality weekly report for the end of August of 1981 and a significant number of further cases of Kaposi's sarcoma and PCP are reported. Third line:

"Since July 3, CDC has received reports of an additional 70 cases of these two conditions in persons without underlying disease."

Again, I'm not going to go through all of them but we then pick in December of 1981 a number of articles in the New England Journal of Medicine which considered this condition about these previously healthy individuals contracting PCP and/or Kaposi's sarcoma.

reports from the United States and sets out what the authors understand to be the first report of the condition in a patient in the United Kingdom a patient who had been referred to the Brompton Hospital.

We then -- I don't ask this to be turned up, Paul, but in January of 1982, because it's a rapidly developing picture, the New England Journal of Medicine reports now 159 documented cases reported to CDC between June and November. It's described as a serious public health problem with a high mortality rate.

Then throughout 1982 the MMWR from CDC continues to report an ever-increasing number of cases of KS or serious opportunistic infections.

SIR BRIAN LANGSTAFF: These are all cases generally in the community. They are not restricted to those who receive blood or blood products in any way?

MS RICHARDS: At this stage, that's correct. At this stage they are predominantly being reported in gay men and then we pick up in July of 1982 from the MMWR for

84 (21) Pages 81 - 84

The Infected Blood Inquiry 24 September 2020 1 9 July reports of opportunistic infections in Kaposi's the information suggests that a transmissible agent 2 sarcoma amongst Haitians in the US, and that describes 2 might be involved and concern about transmission 3 3 through blood and blood products has been raised." of 19 patients it says the clinical course has been 4 4 So that's 9 July 1982, and we see there's severe. Ten patients have died. I will give the 5 reference for those who want to look it up -- I won't 5 a reference there to a meeting planned for the 6 6 put it up on screen -- but it's PRSE0003880. following week. 7 Then same date, 9 July 1982, if we could have up 7 If we could then please go to PRSE0000523, Paul. 8 8 on screen please, Paul, CGRA0000288. Here we see the We see this also being formally reported by the 9 9 first cases being reported in those who have received Centre for Disease Control in MMWR for July 16, 1982: 10 10 "CDC recently received reports of three cases of blood products. So it's a notification or a report 11 from The Department of Health and Human Services in 11 PCP among patients with haemophilia A and without 12 America to manufacturers of plasma fractionation 12 other underlying disease. Two have died. One remains 13 13 products concerning a meeting concerning opportunistic critically ill ...", et cetera. 14 infections in haemophilia A patients: 14 Details are given of those patients. 15 "Three cases of PCP in patients with haemophilia 15 Then if we go to the second page, please, under 16 A receiving anti-haemophilic factor have recently been 16 the heading "Editorial note", second paragraph: reported to the Centers for Disease Control. All 17 "The clinical and immunologic features these 17 18 18 three patients were heterosexual white men without three patients share are strikingly similar to those 19 a history of intravenous drug abuse." 19 recently observed among certain individuals from the 20 Then there is reference to over the previous 20 following groups ..." 21 year the hundreds of cases of reports, most of which 21 Then the groups are there set out: homosexual 22 22 had been at that stage in homosexual men and males, IV drug users, et cetera. 23 individuals who were IV drug abusers. Then the last 23 "Although the cause of the severe immune 24 sentence of that second paragraph: 24 dysfunction is unknown, the occurrence among three 25 25 "Although the cause of this outbreak is unknown, haemophiliac cases suggests the possible transmission of an agent through blood products." 1 in the USA have exhibited signs of the virus." 2 2 I don't think that is in fact accurate at that We see that this is immediately known to the 3 Department of Health and Social Security, and we can 3 point in time. 4 see that from DHSC0002219_009. This is an internal 4 "The report is expected to be picked up by the 5 DHSS minute. The date is 16 July 1982. It's not 5 lay press and may cause a furore. I do not know which 6 a 100 per cent accurate account but we see why when we 6 brands of Factor VIII are involved. From the DHSS 7 7 look at the document. It's addressed to a Dr Holgate: point of view, we can defend the National Blood 8 8 "Dr Holgate. Transfusion Services' own record. Someone taking 9 9 "American Factor VIII. drugs, gay or not, would not be bled provided that the 10 "You will wish to know that Dr Harold Gunson, 10 injection marks showed. In any case, with our 11 our consultant adviser in blood transfusion, has 11 voluntary unpaid donor system we do not have the same 12 received information from the American Bureau of 12 problem as in the States where drug addicts are 13 13

14

15

16

17

18

19

20

21

22

23

24

25

Biologics via Dr Joe Smith at NIBSC that there may be considerable publicity in the next couple of weeks concerning the safety of American Factor VIII. Please forgive the layman's explanation below ..." This is where it's not entirely accurate but the essential message is clear: "I hope it makes some sense. Apparently, some research is about to be published showing fairly

conclusively that plasma taken from homosexual drug

takers contains a sort of virus which goes undetected

the drugs. However, when used for Factor VIII it

when the plasma is tested because it is suppressed by

becomes active again. It seems that 400 haemophiliacs

1

14

15

16

17

18

19

20

21

22

23

24

25

tempted to give blood simply for the money. However, about half of the Factor VIII bought from commercial companies is imported from the USA. Your division, when the published study is available (I understand that one of your sections scans the technical literature for such material) may have to consider revoking licences of certain manufacturers. Of course it may turn out that none of the Factor VIII involved is supplied to this country."

Of course that was not the case. But we can see that at the same time as this information is being published in the States it's being shared with the Department of Health and Social Security in the way

(22) Pages 85 - 88

	The Infected Blo	od Inquiry	24 September 2020
1	that we see there.	1	AIDS is caused by a transmissible agent."
2	If we then have, please, Paul, BAYP0004205.	2	Then if we go next, please, to PRSE0003247 we
3	It's not the most legible of documents but we will see	3	move here from the States to an international congress
4	from the title it is "Summary report on open meeting	4	in Budapest for the International Society of
5	of PHS committee on opportunistic infections in	5	Haematology and the International Society of Blood
6	patients with haemophilia".	6	Transfusion. It was attended by Dr Peter Foster of
7	So it is a report of a meeting in the States	7	the PFC in Edinburgh in August 1982, and this is his
8	which took place on 27 July 1982 considering the	8	report.
9	significance of the occurrence of opportunistic	9	If we go to the last page, please, Paul, the
10	infections in PCP in those three patients with	10	last page with any text on most of the paper is
11	haemophilia. Wide variety of organisations and	11	concerned with a very detailed technical discussion of
12	participants.	12	issues relating to fractionation and other matters.
13	Then if we go to the second half of that page,	13	But then he makes this reference:
14	under the heading "Aspects of discussion":	14	"In discussion future problems in the treatment
15	"AIDS [it's one of the first examples of the	15	of haemophilia, Aledort reported that the most recent
16	term being used] and the sequelae of KS and OI [that's	16	problem to surface in the USA has been three deaths
17	the Kaposi's sarcoma and opportunistic infections] are	17	from pulmonary infections. This has been linked with
18	occurring in several populations [they are then	18	the development of acquired immunodeficiency
19	identified]. The possibility exists that it is	19	syndrome."
20	incurring in patients with haemophilia. If the PCP	20	So this information about the three
21	observed in three patients with haemophilia represents	21	haemophiliacs in the US is clearly by this stage being
22	the same process as seen in other groups with AIDS,	22	widely disseminated to knowledgeable individuals.
23	then a possible mode of transmission is via blood	23	Could we then have please, Paul, probably the
24	products, in this case Factor VIII concentrate. This	24	last document before the break, RLIT0000200. This is
25	finding would strengthen the existing hypothesis that 89	25	an article in the publication Science,
1	a long-established journal. This article is dated	1	Sir, I note the time. I can probably just about
2	13 August 1982, headed, "New disease baffles medical	2	fit in another document or we could break and resume
3	community".	3	after the break.
4	If we look in the first the left-hand column	4	SIR BRIAN LANGSTAFF: The only other thing just I note
5	towards the bottom of the page it says this:	5	from a quick glance at what is said there in Science
6	"Although other explanations have not been ruled	6	is if one looks at the third column across, about
7	out, most investigators currently think that the	7	halfway down, it notes that the infections seen in
8	disease is caused by an infectious agent, possibly	8	AIDS patients which first began to be noticed in about
9	a new virus or a new variant of an existing virus.	9	mid-1979. Well, if that is correct, then it would
10	The spread of AIDS resembles that of hepatitis B	10	look as though back in 1979, two years before the MMWR
11	virus."	11	reported it in June of '81 there were developing
12	Then if we could go to the next column, please,	12	infections and it might suggest, might it, a long
13	Paul, a bit further up, this is picking it up a couple	13	incubation period?
14	of paragraphs in:	14	MS RICHARDS: Yes, absolutely.
15	"Hepatitis B is also transmitted through	15	SIR BRIAN LANGSTAFF: For AIDS, from whatever was causing
16	transfusion of whole blood or blood products.	16	it.
17	Recently three individuals with haemophilia have come	17	MS RICHARDS: Yes.
18	down with AIDS, an occurrence which is particularly	18	SIR BRIAN LANGSTAFF: We will take a break until 3.45.
19	disturbing because of the possibility they acquired an	19	(3.01 pm)
20	infectious agent from the blood product they take to	20	(A short break)
21	prevent bleeding. So far, however, there is no	21	(3.43 pm)
22	evidence linking ordinary blood transfusions to the	22	MS RICHARDS: We pick the picture up in September 1982
23	immunodeficiency disease"	23	now, HCDO0000410. This is a meeting of the
24	Then the person cited there is a representative	24	Haemophilia Reference Centre directors on

91

25

of the Centers for Disease Control.

(23) Pages 89 - 92

6 September 1982, and it's the first reference in any

1 of their meetings to the question of AIDS. directors to let him know if they had any cases of the 2 If we could go please, Paul, to page 11, we'll 2 syndrome. The Working Party [that's the hepatitis 3 3 working party of the Haemophilia Centre Directors see the second paragraph and this is how it comes up: 4 "Professor Bloom asked Dr Craske if he had any 4 Organisation] was considering the implications of the 5 information about the acquired immune deficiency 5 reports in the USA." 6 6 syndrome following reports from the United States and Sir, obviously one of the many issues that you 7 the possible relationship of the syndrome with blood 7 will have to consider in due course about the response 8 8 products and hepatitis. Dr Craske said he would find of haemophilia directors is whether this was, at this 9 9 out more about this and agreed to try and have some stage, a sufficiently urgent and accurate 10 10 information available for the Haemophilia Centre appreciation, this characterisation of a "remote 11 directors at the Manchester meeting." 11 possibility" of the involvement of commercial blood 12 That Manchester meeting took place a week later. 12 products. 13 That's CBLA0001619. So we can see this is the bigger 13 Paul, could we have OXUH0002848, please. This 14 meeting, involving all of the Haemophilia Centre 14 is a further MMWR report from CDC, 24 September 1982. 15 directors and not just the directors of the reference 15 It includes now a case definition for AIDS. But for 16 centres, 13 September 1982. If you could go please, 16 present purposes if we could just look at the third 17 Paul, to page 10, we will see Dr Craske's report back 17 page, please, Paul, first main paragraph: 18 18 at the bottom of the page: "Two points in this update deserve emphasis. 19 "The Acquired Immune Deficiency Syndrome. 19 First, the eventual case-mortality rate of AIDS a few 20 "The Reference Centre directors had asked 20 years after diagnosis may be far greater than the 21 Dr Craske to look into the report from the 21 41 per cent overall case-mortality rate noted above." 22 22 United States of this syndrome, mainly in homosexuals I just draw attention to that, sir, to indicate 23 but including three haemophiliacs. It appeared that 23 that at this stage one thing that was seemingly 24 there was a remote possibility that commercial blood 24 apparent was the very high mortality rate from AIDS. 25 products had been involved. Dr Craske asked the 25 Paul, could we next have, please, MDIA0000010. 93 1 MDIA0000010. So we're now in the mainstream 1 It's concerned with AIDS, "AIDS update": 2 2 "In July of 1982 the CDC reported three cases of media. Rather than scientific journals or medical 3 journals, this is The Observer, 14 November 1982. "No 3 AIDS identified among haemophilia A patients. Since 4 4 defence against gay disease" is the heading. If we then none of these have survived. The following is a 5 look -- it's guite small print -- in the fourth column 5 summary of a December 10, 1982 CDC update on AIDS. 6 please, Paul, top half of the page -- fourth column: 6 The CDC has confirmed four additional and one highly 7 7 suspect case among haemophilia A patients." "AIDS is not infectious though as colds and 8 8 measles might be. Close relatives and friends do not There's reference to there being no suggestion 9 9 catch it. A major speculation is that the AIDS virus of the haemophiliacs acquiring the disease through 10 is carried in the blood and transmitted directly 10 contact with each other or other groups known to be at 11 either sexually or through syringes, which is how 11 increased risk. 12 hepatitis B, to which homosexuals are also prone, 12 "The MMWR points out at all of these cases to be 13 spreads. This link with hepatitis might also explain 13 supposed to Factor VIII concentrates and all but one the presence of AIDS among heterosexuals who inject 14 have also received other blood components." 14 15 drugs [et cetera, et cetera]. This could also explain 15 Then, if we go to the next page, please, Paul: 16 "CDC recommends that patients should be advised 16 the presence of AIDS in a small group of heterosexual 17 haemophiliacs who injected themselves frequently with 17 of this risk." 18 a blood concentrate designed to encourage clotting." 18 Then the last two paragraphs: 19 So The Observer there reporting in November 1982 19 "It is important to note that while there is 20 the potential connection between -- or the potential 20 insufficient data to directly link the spread of AIDS 21 blood transmission route of the AIDS virus. 21 to concentrate, there is an increased concern that 22 22 Could we then, please, Paul, have AIDS may be transmitted through blood products. It is 23 23 BYAP0000018 119. the NHF's point of view that patients and parents 24 This is a new letter from the American National 24 should be aware of the potential risks." 25 Hemophilia Foundation. The date is December 9, 1982. 25 Then it is suggested: 96 (24) Pages 93 - 96

	The Infected Blood	l Inquiry	24 September 2020
1	"If you have any questions they should be	1	report is AIDS it's occurrence following receipt of
2	directed to the treating clinician."	2	blood products from a known AIDS case adds support to
3	So that's the advice emanating from the States	3	the infectious agent hypothesis."
4	in December 1982.	4	We see there and if we go to PRSE0002436 this is
5	If we then please, Paul, go to PRSE0003276 and	5	another newsletter from the National Haemophilia
6	if we could go please to page 4, this is	6	Foundation in the States, the date now December 21,
7	10 December 1992 MMWR. This is the report of what's	7	1982. If we go further down we will see in the second
8	referred to elsewhere as the San Francisco baby case,	8	paragraph:
9	sir. Possible transfusion associated acquired	9	"There's an increased concern that AIDS may be
10	immunodeficiency syndrome, California.	10	transmitted through blood products. Patients and
11	"CDC has received a report of a 20 month old	11	parents should be aware of the potential risks. There
12	infant in the San Francisco area who developed	12	is no conclusive evidence that cryoprecipitate or
13	unexplained cellular immunodeficiency and	13	fresh frozen plasma will reduce the risk of AIDS. We
14	opportunistic infection. This occurred after multiple	14	feel however that this is no time to introduce
15	transfusions including a transfusion of platelets	15	concentrates to patients who have never used them
16	derived from the blood of a male subsequently found to	16	before, except when there is an overriding medical
17	have AIDS."	17	indication."
18	If we go to the next page please, Paul,	18	Then examples of patients who should not be
19	editorial note, just over halfway down the page:	19	introduced to the concentrates at this time: new born
20	"The aetiology of AIDS remains unknown but it is	20	infants through age 4, newly diagnosed cases of
21	reported occurrence among homosexual men, intravenous	21	haemophilia, and those with mild disease.
22	drug users and persons with haemophilia A suggests it	22	Then it continues:
23	may be caused by an infectious agent transmitted	23	"At this time the NHF AIDS task force does not
24	sexually or through exposure to blood or blood	24	recommend a change in treatment to those who have
25	products. If the infant's illness described in this 97	25	received concentrates and therapy and by all means one 98
1	should not withhold the use of clotting factor therapy	1	that commercial blood products were involved and you
2	when needed."	2	suggested I might have to resolve whether that was
3	If we then please, Paul, have CGRA0000434. This	3	a sufficient response. I don't know if we have
4	is a Cutter memo, still in December 1982. This is	4	a copy, if Paul has a copy of BPLL0011645.
5	29 December 1982, so pharmaceutical company:	5	MS RICHARDS: I'm not sure that he will, sir.
6	"It appears to me to be advisable to include an	6	SIR BRIAN LANGSTAFF: Let me tell you what my note says.
7	AIDS warning in our literature for Factor IX and	7	It will need to be checked, but I have a note that on
8	Factor VIII. I realise that very little is known	8	5 November 1982 Craske wrote a memo in respect of
9	about AIDS and the relationship that products we	9	AIDS, so this is only
10	manufacture have in causing the syndrome. However,	10	MS RICHARDS: We do have it, sir, with a different
11	litigation is inevitable and we must demonstrate	11	reference, CBLA0001653_003 is Dr Craske on 5 November.
12	diligence in passing along whatever we do know to the	12	SIR BRIAN LANGSTAFF: I think he looks at the possible
13	physicians who prescribe the product", and then there	13	cause. He puts forward three possible causes and he
14	were steps set out for inclusion in package insert,	14	discounts the first two causes. That is the use of
15	et cetera, once the wording is agreed.	15	amyl nitrate as a sexual heightener during homosexual
16	So we've looked at sir, what Cutter was	16	intercourse and the immunosupressive effects of CMV,
17	saying. We've looked at what the National Haemophilia	17	cytomegalovirus, which leaves only one.
18 10	Foundation in the States is saying. We're now going	18 10	MS RICHARDS: Yes, if we go to the next page, please,
19	to look at the domestic Haemophilia Society, the UK	19	Paul, we can see. Yes, it's put here by Dr Craske:
20	Haemophilia Society. It's first bulletin of 1983. It	20	"The association with sexual promiscuity,
21	is PRSE	21	intravenous drug abuse and possibly [again, the word
22	SIR BRIAN LANGSTAFF: Before you go to 1983, you mentioned	22	is 'possibility'] the transfusion of commercial blood

24

25

99

23

24

25

a moment or two ago by reference to CBLA0001619,

I think suggesting that Craske had made a report and

the conclusion was that it was a remote possibility

100 (25) Pages 97 - 100

concentrates, together with evidence of clustering and

a prodromal phase, suggest an infectious agent with

a similar epidemiology to that of hepatitis B."

1 Then he says --What we have towards the bottom human right 2 2 SIR BRIAN LANGSTAFF: So he discounts (2) and is left with corner is, if we scroll down: 3 3 the infectious agent idea, doesn't he? "AIDS and haemophilia; an interview with MS RICHARDS: Yes. Then he says: 4 4 Dr Peter Kernoff, director of the Haemophilia Centre 5 "If (3) is the most likely cause ..." 5 at the Royal Free Hospital in London." 6 6 Then he talks about the possibility of it being Then if we go to the next page, please, it's 7 present in plasma used to prepare hepatitis B 7 a written question and answer. I'll just refer to 8 8 vaccines. three of the questions and answers: 9 9 SIR BRIAN LANGSTAFF: I think, if you just scroll down to "What's the cause of AIDS? 10 10 the end -- I don't think there's anything else there. "That's not known, but because there are But at least it may set the record straight so far as 11 11 similarities between the groups of people who seem to 12 he is concerned. Perhaps. Something I will have to 12 be getting AIDS and those who are known to be at risk 13 13 of hepatitis B, it's been suggested that AIDS might be consider, in any event. 14 MS RICHARDS: Yes. 14 caused by an infectious agent, perhaps a virus, which 15 So, Paul, if we have, please, now -- we're in 15 is transmitted in the same way as hepatitis B. That 16 early 1983 -- PRSE0004120, please. 16 is, mainly by injected blood or blood products and 17 17 sexual contact. However, this is just a guess and This is a Haemophilia Society bulletin. We 18 18 there are several other possibilities." don't have the precise dates, sir. It is the first 19 bulletin that was the published in 1983 and so the 19 He doesn't set out what those possibilities are. 20 date that has been ascribed on our systems in the 20 "Question: I begin to see links with 21 chronology is effectively 1 January 1983. It almost 21 haemophilia. 22 22 certainly was later than that but we don't know the "Answer: Yes, but they are very tenuous. 23 precise date. 23 Certainly we know that haemophiliacs are at higher 24 24 than normal risk of getting hepatitis B because of If we could go to the penultimate page, please, their frequent exposure to infusions of blood 25 Paul. 25 101 1 products. If AIDS is caused by an infectious agent 1 took place in Atlanta, and if we go down to the second 2 2 and if this agent is transmitted by blood product half of the page, "Aspects of discussion": 3 infusion, and these are both big ifs, then it may be 3 "AIDS continues to be a major public health 4 4 that haemophiliacs could be at increased risk of problem. In addition to the previously described 5 AIDS." 5 high-risk groups [and those are then listed] persons 6 Then the question: 6 with haemophilia are also at increased risk of 7 7 "Well, do haemophiliacs get AIDS? developing AIDS, presumably by introduction of 8 8 "Amongst the group of patients with AIDS who a transmissible agent in Factor VIII concentrate. 9 9 have been reported to the American authorities, there Five cases of AIDS have been reported in persons with 10 have been 11 haemophiliacs. It's not entirely clear 10 haemophilia since the three described in July and two how many of these haemophiliacs had risk factors which to three more are considered to be possible cases. 11 11 12 were unrelated to their haemophilia." 12 One case of AIDS has occurred in an infant who 13 Pausing there, the information in the MMWRs 13 received a platelet transfusion from a man who doesn't suggest any association with any other risk 14 subsequently was diagnosed as an AIDS patient." 14 15 15 That's probably a reference to the San Francisco factors in its report of cases, and then the question: 16 16 "Could British haemophiliacs get AIDS? baby case. 17 "Of course it's possible, but I'd expect AIDS to 17 "Several other AIDS cases under investigation 18 remain a rare disease. The idea that there's an 18 [5] have no risk factors but have received blood 19 epidemic of AIDS amongst haemophiliacs is ludicrous." 19 products within the past two years. Some participants 20 Is his answer. 20 were reluctant to accept the hypothesis that AIDS has 21 Paul, if we could then have CGRA0000301, please. 21 been transmitted by whole blood in the absence of 22 22 This is 4 January 1983. It's a report on a CDC additional evidence." 23 23 multi-agency meeting, so it's, again, an American So that's the CDC meeting in January 1983. 24 meeting. 24 Then if we could, please, Paul, have

25

103

RLIT0000233.

25

If we go to the second page, the meeting that

INQY1000056 0026

104 (26) Pages 101 - 104

102

24 September 2020

	The Infected Bloc	od Inquiry	24 September 2020
1	This is a publication in Science Journal,	1	The latter possibility raises a serious health issue
2	7 January 1983, "Spread of AIDS sparks new health	2	about the safety of the blood products used by
3	concern". Picking it up in the left-hand column:	3	haemophiliacs and perhaps by the general public."
4	"The relentless new disease called AIDS	4	Then if we could, Paul, go to PRSE0002410, we
5	continues to spread."	5	are here in the New England Journal of Medicine,
6	Reference to certain data, and then the second	6	13 January 1983. The article is entitled "AIDS and
7	paragraph says this:	7	preventive treatment in haemophilia". If we could go
8	"Moreover, blood products have come under	8	to the second page please, Paul, to the last
9	increased suspicion as vehicles for spreading AIDS.	9	paragraph:
10	An infant who received several infusions of whole	10	"The fact that haemophiliacs are at risk for
11	blood in blood products developed the condition. One	11	AIDS is becoming clear. If the use of cryoprecipitate
12	of the donors who had appeared well at the time he	12	will minimise this risk, the current home infusion
13	gave blood eventually died of the disease. The CDC	13	programme needs to be revised."
14	also reports the diagnosis of AIDS in four	14	Then there's reference to the studies there
15	haemophiliacs in addition to the three previously	15	being small studies.
16	identified, confirming earlier suggestions that these	16	"Unfortunately the data are consistent with
17	individuals might be at high risk."	17	a greater potential for AIDS in the population treated
18	We see here the comment from CDC, perhaps in	18	with concentrates. Physicians involved in the care of
19	contrast to Dr Kernoff's comment:	19	haemophiliacs must now be alert to this risk.
20	"The problem in haemophiliacs is real,' says	20	Preventing the complications of the present treatment
21	the CDC's Harold Jaffe, 'It isn't going to go away.'	21	may have to take precedence over preventing the
22	Their latest reports support the hypothesis that AIDS	22	complications of haemophilia itself."
23	is caused by an infectious agent, possibly a virus,	23	Then, Paul, if we could have DHSC0002223_085.
24	that can be transmitted by close contact, including	24	Do you have that? DHSC0002223_085. Thank you.
25	that between family members, or by blood products.	25	So we're again back into the mainstream media, 106
	130		
1	the Observer, 16 January 1983, "Mystery disease	1	Department of Health and Social Security, because
2	threat":	2	there's a note to Dr Walford, saying to her:
3	"A commercial blood product imported into	3	"It would be useful to know the outcome of
4	Britain from the US may pose a grave threat to the	4	Haemophilia Centre directors meeting. Perhaps we can
5	health of haemophiliacs, who inject it to encourage	5	discuss at an opportune moment."
6	clotting."	6	She's says she's written to Professor Bloom for
7	Skip a paragraph:	7	details of the meeting. We may look at that
8	"Officials at the Government Centre for Disease	8	correspondence tomorrow when we look at
9	Control in Atlanta, Georgia, have described the spread	9	Professor Bloom.
10	of the disease as an impending epidemic among	10	So that's 16 January 1983. We then, please,
11	haemophiliacs."	11	Paul, could we have SBTS0000315_021.
12	Then the right-hand column, second paragraph,	12	This is an article that doesn't really say
13	few lines down:	13	anything different from what we have seen, but the
14	"In the past ten months the disease has spread	14	point here is this is The Lancet, so the news is being
15	from the homosexual community to include haemophiliacs	15	broadcast now in The Lancet, 22 January 1983, under
16	[and various others listed]. The cause remains	16	the heading, "Acquired immunodeficiency syndrome". At
17	baffling. One theory is that an infectious agent is	17	the very bottom of the page:
18	transmitted directly, either sexually or through	18	"There are at least four major populations at
19	contaminated blood products, in a similar manner to	19	risk in the USA, about 75 per cent of patients are
20	hepatitis B, to which homosexuals and haemophiliacs	20	homosexual males [if we scroll down please, Paul]
21	are also prone."	21	13 per cent are intravenous drug abusers with no
22	Then if we just scroll out, please, so we see	22	history of homosexuality, 6 per cent are Haitian
23	the whole document, Paul, we can see from the	23	immigrants who are not homosexual and do not abuse
24	handwritten notes at the top of the page that this is	24	drugs, 0.7 per cent are haemophiliacs, about
25	a document that came to the attention of the 107	25	5 per cent of no apparent risk factors."
			(27) Pages 105 - 108

			•
1	Then if we look down in the left-hand column	1	refers to:
2	towards the end the second long paragraph, it says:	2	"A task-force under Dr Harold Jaffe at the CDC
3	"Finally, the syndrome may well be	3	in Atlanta has found seven cases of AIDS amongst
4	transmissible, women may acquire AIDS from their male	4	haemophiliacs who do not fall into any of the other
5	partners and the disease is developed in haemophiliacs	5	categories. Jaffe believes that the spread of the
6	after Factor VIII administration, in a child after	6	disease may be connected with new preparations of
7	blood transfusion, and in four infants whose mothers	7	Factor VIII concentrate, the blood-clotting agent
8	either had or were at risk of AIDS."	8	given to haemophiliacs which are made up from blood
9	Next paragraph:	9	from large numbers of donors, rather than one
10	"The overall mortality from AIDS is an alarming	10	individual. If this is correct, any patient in
11	40 per cent and in reality it may be considerably	11	hospital who is given a blood transfusion could be at
12	greater since many patients who recover initially die	12	risk if one of the donors of the blood carries the
13	subsequently from malignant disease or overwhelming	13	virus. No cases of AIDS among British haemophiliacs
14	infection. There are few reports of complete	14	have been reported so far, even though 50 per cent of
15	remission."	15	the Factor VIII used in Britain comes from the US."
16	That's picked up then in the New Scientist a few	16	Sir, shortly before that article, there was
17	days later, PRSE0000726. You may recall we looked at	17	a meeting on 24 January 1983 at a London airport
18	this article during the evidence of Andrew Evans last	18	hotel. We're going to look at two documents that
19	year when he had a recollection of his father seeing	19	relate to that meeting. The first is at RFLT0000050,
20	this, "AIDS transfusion patients may be at risk", so	20	so you will see this is a letter being sent by
21	this is the New Scientist for 3 February 1983:	21	Mr Berry the managing director of Immuno to
22	"American scientists are scouring the country	22	Dr Kernoff, co-director of the Royal Free Hospital
23	for the first case of the bizarre new disease AIDS in	23	the Haemophilia Centre at the Royal Free hospital and
24	patients who have undergone major surgery."	24	it was Dr Kernoff who some time after this gave the
25	Then skipping over a couple of paragraphs it	25	interview in the Haemophilia Society bulletin.
	109		110
1	This is Mr Berry sending a summary of	1	all, so we can see the list of attendees. Those
2	discussions at the meeting held at the Excelsior Hotel	2	present included Dr Evans, Manchester; Dr Barrowcliff;
3	Heathrow Airport on Monday 24 January 1983. We have	3	Dr Rizza, Oxford; Dr Hamilton, Newcastle; Dr Ludlam,
4	two accounts of this meeting. This is Mr Berry of	4	Edinburgh, Dr Colvin, London Hospital; Professor
5	Immuno's account and this is a document we're highly	5	Hardisty we know from Great Ormond Street; Dr Preston,
6	likely to come back to a number of times over the	6	Sheffield, I think I'm sure I will get some of this
7	coming months, sir.	7	wrong; Dr Mayne, Belfast; we have Dr Davidson;
8	We'll see at the top of the second page:	8	Dr Aronstam, who was Treloars; Dr Hill, we know
9	"Summary of discussions of the meeting held at	9	Birmingham; Dr Edgecombe; Dr Prentice; Dr Savage, he
10	Excelsior Hotel, Heathrow Airport, Professor Bloom in	10	was St Thomas'; Dr Kernoff, Royal Free; Dr Leslie;
11	the chair", and then there is a discussion, and I'm	11	Dr Winfield; Dr Wensley, Dr Mibashan; Dr Craske; and
12	not going to go into the details of this part of the	12	then we have Professor Zuckermann, who we saw in the
13	discussion about non-A, non-B hepatitis.	13	World in Action documentary, the hepatitis expert;
14	If we could go to the last page of this note,	14	Dr Bloom; Dr Shinton; the Immuno team are led by
15	paragraph 13, this is the only reference to AIDS in	15	Dr Eibl.
16	this note and it says this:	16	So it was a meeting involving a number of
17	"The possibility of reducing the risk of AIDS	17	Haemophilia Reference Centre directors, others with
18	was not known at this stage. In any case, it is not	18	a particular interest in hepatitis and representatives
19	known if AIDS is caused by a virus or an attacker	19	of Immuno.
20	inimical to T cells."	20	Again, I'm not going to deal with the discussion
21	For a more detailed understanding of what	21	about non-A, non-B hepatitis. We'll come back to that
22	discussions took place at that hotel meeting we have	22	at another time but if we go to the previous page
23	to go to notes made we think by Dr Bolton and that is	23	please, Paul, we see a much more detailed account than
24	at PRSE0002647.	24	we saw in Mr Berry's note of the discussion that took
25	Paul, could we go to the last page, first of	25	place about AIDS at that January '83 meeting:
	111		112 (28) Pages 109 - 112
			(20) r ages 100 - 112

24 September 2020

1	"Acquired immunodeficiency syndrome. This was	1	"The incubation period for the syndrome appears	
2	discussed in the after lunch period. Dr Craske	2	to be six months to two years. In the UK so far only	
3	summarised the current position. He gave a clinical	3	one or two cases have been reported from the	
4	description of the AIDS syndrome"	4	Communicable Diseases Centre. The infectious	
5	If we go down a couple of paragraphs:	5	precautions including discouraging homosexuals from	
6	"Up to 10 December 1982 some 800 people have	6	donating blood or organs. Protocols from the US are	
/	been reported as suffering from the AIDS and there was	7	being considered by the hepatitis working party in the	
8	a 45 per cent mortality. Ten haemophiliacs in the US	8	UK. Apparently, the American fractionation companies	
9	have been affected and five have died. The youngest	9	are very aware of the problem and are taking some	
10	was aged 7. All cases have had prolonged treatment	10	unspecified measures to screen out such donors. The	
11	with Factor VIII, but there is no specific implication	11	attention of the meeting was then drawn to the two	
12	of one particular product or batch. Other cases	12	articles on the editorial in the New England Journal	
13	involving blood and blood product transmission have	13	of Medicine of 13 January, which in summary indicates	
14	included platelets transfused in three cases. In one	14	that the T4/T8 ratios among haemophiliacs receiving	
15	of these cases one of the donors was a young New York	15	Factor VIII is greater among those who have been	
16	man in his twenties. A second case was a 20-month old	16	exposed to concentrates than those exposed to	
17	child with rhesus HDN who had received several units,	17	cryoprecipitate only. However cryoprecipitate in the	
18	including platelets known to have come from	18	US comes from volunteer unpaid donors and therefore	
19	a homosexual donor who was asymptomatic at the time	19	are presumably well motivated people. Final comments	
20	but who later died."	20	on the possible nature of the transmissible agents	
21	That again is no doubt a reference to the	21	indicated that there may not be just one agent but a	
22	San Francisco baby case:	22	mixture, i.e. a barrage of viruses, including	
23	"The child had developed autoimmune haemolytic	23	hepatitis B, non-A, non-B, CMV and many others	
24	anaemia and a possible AIDS state."	24	possibly transmitted from asymptomatic healthy blood	
25	Over the page:	25	donors."	
	113			11

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

115

1 So a much more detailed account there of 2 a discussion about current up-to-date information of 3 numbers affected in the US and again, sir, no doubt 4 we'll come back with individual witnesses to their 5 recollection and understanding of that meeting and its 6 significance in terms of what was done or not done 7 subsequently. 8

SIR BRIAN LANGSTAFF: Is there anything else in that document which suggests anything other than some form of infectious agent or agents?

MS RICHARDS: No, sir.

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

That was 24 January. The next Reference Centre Director meeting, of haemophilia centre directors, was on 14 February and we'll just briefly look at that please. It is HCDO0000411. If we go to the second page please, Paul, we can see these are draft minutes but I don't think we have a final version. Minutes of the 16th meeting of haemophilia reference centre directors held at the Royal Free Hospital on Monday 14 February and we see the names of those attending almost all of whom had been at the London airport meeting approximately three weeks before.

If we look and see what was discussed about AIDS, it's the fifth page of the document, Paul. Thank you. Six lines down:

"The AIDS syndrome, Professor Bloom said that the syndrome would be discussed at the Stockholm meeting of the World Federation of Haemophilia. Reports from the United States indicated that the incidence of AIDS was higher than at first thought and there was some concern that the haemophiliac population of the UK who had received American concentrates might be at risk. Dr Craske summarised the latest information from the United States, said that approximately 10 cases of AIDS were thought to have occurred in non-haemophiliacs in London, one in Glasgow, and one in Manchester. Dr Craske had drawn up a draft form for reporting of the cases. There was a lengthy discussion regarding the report form and which of the various documents which Dr Craske had obtained from the United States should be circulated to the haemophilia centre directors. It was agreed that Dr Craske should draw up a new form for the reporting of cases and to arrange for this to be circulated to all haemophilias centre directors with appropriate notes regarding the criteria on which the diagnosis should be based. It was suggested that Dr Craske should invite an immunologist to join the hepatitis working party in view of the working party's

25 involvement with the AIDS syndrome."

116 (29) Pages 113 - 116

	The Infected Blood	d Inquiry	24 September 2020
1	That's the extent of the discussion on	1	the possibility of acquiring AIDS through blood
2	14 February. You can see the action taken there is as	2	components or blood is further suggested by several
3	regards reporting and sharing of some information	3	cases in persons with no known risk factors who have
4	about diagnosis.	4	received blood products or blood within three years of
5	There is no discussion recorded in the notes of	5	AIDS diagnosis. These cases are currently under
6	any steps to be taken to inform patients of the risk,	6	investigation."
7	in contrast to what we see from the National	7	So, sir, again picking up on one of your earlier
8	Haemophilia Foundation in the States, and no	8	observations, no suggestion of any other cause and
9	discussion recorded in the notes about any changes or	9	here the term used is "likelihood" not "possibility"
10	possible changes to treatment policies or approaches.	10	of blood transmission.
11	Paul, if we could then please have PRSE0000546.	11	If we could go to the second page, please, Paul,
12	This is now the early March 1983, 4 March. It's	12	picked it up six lines down:
13	another MMWR report from the CDC in the States. If we	13	"Furthermore, the California cluster
14	look at the third paragraph:	14	investigation and other epidemiologic findings suggest
15	"The distribution of AIDS cases parallels that	15	a latent period of several months to two years between
16	of hepatitis B virus infection, which is transmitted	16	exposure and recognisable clinical illness and imply
17	sexually and parenterally. Blood products or blood	17	that transmissibility may precede recognisable
18	appear responsible for AIDS amongst haemophilia	18	illness."
19	patients who require clotting factor replacement. The	19	So we're there in early March. There's some
20	likelihood of blood transmission is supported by the	20	relevant communications in March between Bruce Evert
21	occurrence of AIDS among IV drug abusers."	21	in the States and Professor Bloom, but I am going to
22	Then reference to:	22	deal with that when we look at Professor Bloom and
23	"Sharing of contaminated needles, to an infant	23	Cardiff tomorrow.
24	developing severe immune deficiency and opportunistic	24	Could we then please, Paul, have PRSE0000728.
25	infection [that's the San Francisco baby case again] 117	25	This is a meeting on 22 March 1983 in Scotland, 118
1	meeting of the Haemophilia and Blood Transfusion	1	potential donors, but it was hoped that homosexuals
2	Working Group. We can see there the attendees include	2	and others at risk might be discouraged from being
3	Dr McDonald, Dr Cash, Dr Forbes, Dr Foster, and	3	donors. In the meantime the transfusion directors
4	Dr Ludlam.	4	were considering how best to ensure the safety of the
5	If we turn please to the second page, bottom of	5	plasma supply and Dr Forbes was conducting a sample
6	the page:	6	study of the immunological status of haemophilia
7	"AIDS. Members were reminded of the recent	7	patients. The Chairman agreed to keep the matter in
8	articles both at home and abroad about AIDS.	8	view and bring it up for discussion at the next
9	Dr Ludlam reported that in the UK a letter and	9	meeting."
10	questionnaire had been sent out to haemophilia	10	Sir, March 1983, there was an important decision
11	directors."	11	in the States.
12	That's no doubt a reference to Dr Craske's	12	Paul, could we have DHSC0001203.
13	proposals which had been discussed at the February	13	This is 24 March 1983, a decision of the FDA,
14	reference centre directors meeting.	14	the Food and Drug Administration.
15	"AIDS was an emotive issue in the USA and Canada	15	This communication is from the director, Office
16	and was causing a move away from the Factor VIII	16	of Biologics, National Centre for Drugs and Biologics,
17	concentrates to the use of cryoprecipitate, with the	17	to all licensed manufacturers of plasma derivatives:
18	resultant supply problems. There was concern that	18	"Extensive discussions among licensed
19 20	AIDS might appear in the UK and the Haemophilia	19 20	manufacturers at the Office of biologics and concerned
20	Society was attempting to reassure its members and put	20 21	groups such as the National Haemophilia Foundation
21	fears of infection from blood products into	21	have led to a consensus concerning an appropriate
22 23	perspective."	22	approach to decreasing the potential risk of
23 24	Next page: "The transfusion directors were loath to ask	23 24	transmitting AIDS by certain plasma derivatives. Plasma collected from donors suspected of being at
2 4 25	questions to which exception could be taken by	2 4 25	increased risk of transmitting AIDS [and then they are
20	119	20	120
			(30) Pages 117 - 120

	The Infected Blood	Inquiry	24 September 2020	0
1	then defined] should not be fractionated into	1	Completely my fault, Paul, sorry. There was an update	
2	derivatives already known to have a risk of	2	a year later of this programme and I've given you the	
3	transmitting infectious diseases."	3	reference to that.	
4	Then if we skip down to the next paragraph:	4	It's BBCO0000004. Then from 39 minutes and	
5	"We request that you immediately institute	5	20 seconds into that programme.	
6	procedures with your plasma suppliers to assure that	6	(Documentary, Killer in the Village, played)	
7	they have adopted appropriate donor screening	7	So that, as I say, was broadcast on the BBC,	
8	practices and procedures."	8	I don't know whether it was BBC1 or BBC2, on	
9	How that edict from the FDA was then responded	9	25 April 1983.	
10	to and played out in this country, in particular in	10	That is probably the right point at which to	
11	decision-making by the Department of Health and Social	11	stop for the day.	
12	Security will be something that we will explore in	12	SIR BRIAN LANGSTAFF: Not bad timing. So thank you fo	r
13	some detail with witnesses next year when we hear from	13	that and we continue tomorrow. So we start at	
14	Government witnesses.	14	ten o'clock, do we?	
15	Then if we could then have, and this I think is	15	MS RICHARDS: Yes. We'll finish this presentation on	
16	probably the last reference for today, it's	16	knowledge of risk and then turn to look at certain	
17	four minutes or so from a documentary. So we're now	17	materials relevant to Professor Bloom and the Cardiff	
18	in April of 1983 and a documentary, Horizon	18	Haemophilia Centre.	
19	documentary, called "Killer in the Village" was	19	There is a very long detailed note in relation	
20	broadcast on the BBC on 25 April 1983. We only need	20	to that which has been shared with core participants	
21	a few minutes of it.	21	and their legal representatives and I won't be going	
22	Paul, it's BBCO0000002, and the clip we want is	22	through the detail of it. It will be a question of	
23	from 39 minutes and 20 seconds into the programme.	23	looking at some of the particularly key decisions and	
24	(Pause)	24	actions of Professor Bloom and the potential	
25	I'm sorry, I've given you the wrong reference.	25	implications of those decisions and actions.	122
1	SIR BRIAN LANGSTAFF: Yes, thank you very much.			
2	Until tomorrow then, and stay safe.			
3	(4.33 pm)			
4	(Adjourned until 10.00 am the following day)			

1			1		1
	048 [1] 43/12	150 [1] 46/21	1978 [2] 69/22 71/12	24 January [1] 115/12	45-minute [1] 1/14
	051 [1] 15/9	159 [1] 84/13	1979 [9] 71/15 71/15	24 January 1976 [1]	47 [1] 70/2
MS RICHARDS: [37]	079 [1] 44/24	16 [2] 13/2 86/9	72/10 73/16 75/10	59/13	48 [1] 6/9
1/4 1/10 1/23 10/22		16 December 1964 [1]		24 January 1983 [2]	
18/6 18/8 18/13 27/14		28/6	92/10	110/17 111/3	5
27/20 27/24 37/23	095 [1] 18/17				E A
45/19 45/22 46/1 48/8	1	16 January 1983 [2]	1980 [7] 75/10 75/13	24 March 1983 [1]	5 April 1945 [1] 21/16
50/13 50/18 53/15		107/1 108/10	77/2 77/6 77/21 77/24	120/13	5 November [1]
53/18 53/25 56/19	1 April [1] 32/9	16 July 1982 [1] 87/5	82/2	24 September 1982	100/11
59/2 59/7 74/2 79/24	1 December 1975 [2]	16th [1] 115/18	1980s [2] 4/4 64/5	[1] 94/14	5 November 1966 [1]
	56/3 56/13	180 [1] 46/22	1981 [11] 80/15 80/16	24,000 donations [1]	34/8
80/9 84/22 92/13	1 January 1983 [1]	1885 [1] 10/2	81/20 81/23 82/2 82/7	58/14	5 November 1982 [1]
92/16 92/21 100/4	101/21	19 [1] 85/3	82/9 82/15 83/14	25 April 1983 [2]	100/8
100/9 100/17 101/3	1 May 1975 [1] 54/17	191 [1] 10/2	83/21 84/3	121/20 122/9	5 October 1970 [1]
101/13 115/10 122/14	1 per cent [1] 26/13	1930s [1] 10/9	1982 [25] 84/11 84/17		39/12
NEW SPEAKER: [1]	1,000 [2] 29/1 42/14	1937 [3] 6/2 6/6 14/24		254 [1] 21/18	5 per cent [1] 108/25
10/21	1.05 [1] 56/23	1939 [1] 6/21	1	26 [1] 82/9	50 per cent [4] 51/12
SIR BRIAN			87/5 89/8 90/7 91/2		,
LANGSTAFF: [37]	1.06 pm [1] 57/2	1940 [1] 23/3	92/22 92/25 93/16	26 March 1945 [1]	63/5 78/22 110/14
1/2 1/5 1/11 18/5 18/7		1940s [6] 3/22 4/23	94/14 95/3 95/19	19/15	50 years [1] 25/10
18/9 27/10 27/15	42/16 93/17 96/5	16/22 18/16 21/17	95/25 96/2 96/5 97/4	27 July 1982 [1] 89/8	500,000 [1] 60/21
27/23 37/17 45/14	116/10	23/23	98/7 99/4 99/5 100/8	27.5 per cent [1] 35/6	
1	10 December 1982 [1]	1942 [9] 5/9 7/15 7/20	113/6	278 [1] 42/12	51 cases [1] 49/3
45/20 45/23 50/11	113/6	8/24 9/7 9/12 11/15	1983 [22] 99/20 99/22	29 December 1982 [1]	54 [1] 8/1
50/15 53/13 53/16	10 December 1992 [1]		101/16 101/19 101/21	99/5	55 [1] 8/1
53/21 56/18 56/24	97/7	1943 [2] 13/2 15/7	103/22 104/23 105/2	29 March 1972 [1]	57 [1] 10/6
57/5 59/3 74/1 79/12		1944 [4] 5/6 15/14	106/6 107/1 108/10	46/5	58 [2] 7/10 63/8
80/7 84/19 92/3 92/14	10.00 [2] 1/2 123/4	18/5 23/6	108/15 109/21 110/17		
92/17 99/21 100/5				Z301 [1] 32/1	6
100/11 101/1 101/8	10.56 [1] 37/21	1945 [3] 18/18 19/15	111/3 117/12 118/25	3	C January 4050 [4]
115/7 122/11 122/25	100 [2] 32/18 58/2	21/16	120/10 120/13 121/18	0 5 1 4000 141	6 January 1950 [1]
	100 per cent [1] 52/14		121/20 122/9	3 February 1983 [1]	26/5
•	103 [1] 8/19	1947 [2] 23/24 24/5	1991 [3] 4/6 4/10 4/11	109/21	6 January 1975 [1]
'37 [1] 11/16	105 [1] 19/12	1950 [1] 26/5	1992 [1] 97/7	3.01 pm [1] 92/19	51/23
'38 [1] 11/17	109 [1] 10/4	1950s [1] 26/3	19th [1] 9/24	3.2 per cent [1] 32/21	6 September 1982 [1]
'70s [2] 40/21 81/19	11 [2] 28/17 93/2	1952 [1] 27/4	•	3.43 [1] 92/21	92/25
	11 haemophiliacs [1]	1953 [1] 27/2	2	3.45 [1] 92/18	6,000 litres [1] 57/25
' 71 [1] 42/1	103/10	1954 [1] 30/20	2,000 [1] 57/25	33 [1] 42/4	600 [1] 58/16
'80s [1] 55/15	11.41 [1] 37/23	1959 [1] 35/9	2,200 persons [1] 6/9		649 [1] 25/3
'81 [1] 92/11			2.05 [2] 56/25 57/1	36 [6] 10/22 10/23	68 [1] 8/21
	1 119 [1] 95/23				
'83 [1] 112/25	119 [1] 95/23		206 nm 111 5//5		1 69 [1] 8/21
'83 [1] 112/25 'It [1] 105/21	12 [8] 14/1 14/7 25/16	36/3	2.06 pm [1] 57/5	43/22 49/3 49/7 70/3	69 [1] 8/21
	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20	36/3 1964 [2] 28/6 28/7	20 [3] 37/20 97/11	36 months [1] 68/6	69 [1] 8/21 7
'It [1] 105/21 'non [1] 51/14	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4	20 [3] 37/20 97/11 121/23	36 months [1] 68/6 39 [2] 5/23 121/23	7
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17	20 [3] 37/20 97/11 121/23 20 June 1944 [2]	36 months [1] 68/6	7 7 February 1979 [1]
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1]	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4	7 7 February 1979 [1] 72/10
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1]	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4	7 7 February 1979 [1] 72/10 7 January 1983 [1]
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1]	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1]	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 Innes [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1]	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1]	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1]	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1] 18/18	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1]	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20[2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1]	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 98/6 21 [1] 98/6 21 [1] 98/6 21 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1]	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20[2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1]	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1]
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 98/6 21 [1] 98/6 21 [1] 98/6 21 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1]	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1]
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1]	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4 011 [1] 13/1	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1] 95/3	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13 1976 [5] 59/13 61/1	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 222 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020 [1] 1/1	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2 44 per cent [1] 42/6	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15 8 minutes [1] 56/16
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4 011 [1] 13/1 021 [1] 108/11	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January 1983 [1] 106/6 13 per cent [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1] 95/3 15 [1] 46/16	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13 1976 [5] 59/13 61/1 62/13 63/12 65/9	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020 [1] 1/1 24 [1] 7/11	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2 44 per cent [1] 42/6 45 [1] 76/14	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15 8 minutes [1] 56/16 8,000 [1] 58/14
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4 011 [1] 13/1 021 [1] 108/11 024 [1] 9/8	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1] 95/3 15 [1] 46/16 15 cases [1] 25/14	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13 1976 [5] 59/13 61/1 62/13 63/12 65/9 1977 [3] 66/17 67/19	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020 [1] 1/1 24 [1] 7/11	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2 44 per cent [1] 42/6 45 [1] 76/14 45 minutes [2] 1/17	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15 8 minutes [1] 56/16 8,000 [1] 58/14 800 [1] 113/6
'It [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4 011 [1] 13/1 021 [1] 108/11	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1] 95/3 15 [1] 46/16 15 cases [1] 25/14 15 September 1980	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13 1976 [5] 59/13 61/1 62/13 63/12 65/9	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 [1] 98/6 21 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020 [1] 1/1 24 [1] 7/11	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2 44 per cent [1] 42/6 45 [1] 76/14	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15 8 minutes [1] 56/16 8,000 [1] 58/14
'it [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4 011 [1] 13/1 021 [1] 108/11 024 [1] 9/8	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1] 95/3 15 [1] 46/16 15 cases [1] 25/14	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13 1976 [5] 59/13 61/1 62/13 63/12 65/9 1977 [3] 66/17 67/19	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020 [1] 1/1 24 [1] 7/11	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2 44 per cent [1] 42/6 45 [1] 76/14 45 minutes [2] 1/17	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15 8 minutes [1] 56/16 8,000 [1] 58/14 800 [1] 113/6
'it [1] 105/21 'non [1] 51/14 'non-A [1] 51/14 'possibility' [1] 100/22 'safe [2] 47/17 47/18 'serum [1] 69/10 'The [1] 105/20 [2] 13/21 30/25 0 0.3 [1] 35/3 0.3 per cent [1] 32/19 0.7 per cent [1] 108/24 0.9 per cent [1] 42/10 003 [1] 100/11 004 [1] 72/8 009 [1] 87/4 011 [1] 13/1 021 [1] 108/11 024 [1] 9/8	12 [8] 14/1 14/7 25/16 25/18 29/5 37/20 50/22 68/6 12 February [1] 72/16 12 lines [1] 6/13 12 March 1977 [1] 66/17 13 [4] 10/24 13/22 76/14 111/15 13 August 1982 [1] 91/2 13 January [1] 114/13 13 January [1] 108/21 13 September 1982 [1] 93/16 14 [1] 10/6 14 February [3] 115/14 115/20 117/2 14 November 1982 [1] 95/3 15 [1] 46/16 15 cases [1] 25/14 15 September 1980	36/3 1964 [2] 28/6 28/7 1965 [2] 29/25 30/4 1966 [4] 32/9 32/17 33/13 34/8 1967 [1] 43/23 1969 [2] 36/11 37/12 1970 [5] 37/25 38/4 38/17 39/12 40/2 1970s [7] 3/22 3/25 37/15 37/24 40/25 41/21 55/19 1971 [4] 41/22 43/12 43/14 52/18 1972 [5] 44/23 44/24 46/5 48/6 48/9 1974 [3] 48/23 50/22 63/2 1975 [9] 51/23 54/7 54/17 55/22 55/25 56/3 56/4 56/7 56/13 1976 [5] 59/13 61/1 62/13 63/12 65/9 1977 [3] 66/17 67/19	20 [3] 37/20 97/11 121/23 20 June 1944 [2] 15/14 18/5 20 seconds [1] 122/5 200 litres [1] 58/2 2020 [1] 1/1 204 cardiovascular [1] 49/6 21 [1] 98/6 21 March 1945 [1] 18/18 22 [1] 41/1 22 January 1983 [1] 108/15 22 March 1983 [1] 118/25 22 pints [1] 34/25 23 per cent [1] 68/5 23 September 2020 [1] 1/1 24 [1] 7/11	36 months [1] 68/6 39 [2] 5/23 121/23 39 minutes [1] 122/4 4 4 4 January 1983 [1] 103/22 4 March [1] 117/12 4.13 per cent [1] 35/3 4.30 [1] 1/13 4.33 [1] 123/3 40 [3] 46/16 46/21 78/21 40 per cent [2] 79/20 109/11 400 [2] 58/16 87/25 405 [1] 26/4 41 [1] 10/5 41 per cent [1] 94/21 44 [1] 68/2 44 per cent [1] 42/6 45 [1] 76/14 45 minutes [2] 1/17	7 7 February 1979 [1] 72/10 7 January 1983 [1] 105/2 7 months [1] 6/10 70 [2] 42/17 83/18 70 years [1] 79/5 71 per cent [1] 49/3 73 [2] 7/11 8/2 75 per cent [1] 108/19 77 [1] 23/16 77 per cent [1] 70/4 8 8 December 1975 [1] 56/4 8 January 1979 [1] 71/15 8 minutes [1] 56/16 8,000 [1] 58/14 800 [1] 113/6

8	15/14 58/12 91/13	a journalistic [1]	58/21 66/7 82/10	113/16	a zero [1] 54/11
	109/25 113/5	59/17	83/21 111/6 112/16	a selection [1] 59/20	abandon [1] 26/9
87 [1] 10/14	a Cutter [1] 99/4	a knowledge [1]	a one [1] 32/1	a senior [3] 12/19	able [2] 6/17 42/9
89 [2] 8/2 28/7	a danger [1] 81/7	57/10	a paragraph [2] 69/2	12/21 39/10	abnormal [5] 70/3
9	a December 10 [1]	a known [1] 98/2	107/7	a sensitive [1] 34/19	71/23 72/2 75/20
9 July [1] 85/1	96/5	a large [5] 20/5 24/19	a particular [4] 3/3	a sentence [2] 28/23	75/21
9 July 1982 [2] 85/7	a decision [1] 120/13	49/12 51/9 71/7	3/3 65/13 112/18	79/1	abnormalities [4]
86/4	a Department [1] 46/2	a latent [1] 118/15	a passage [2] 65/23	a sequela [1] 22/12	70/4 70/6 71/4 82/21
9 years [1] 75/19	a detailed [1] 2/14	a later [1] 44/21	66/20	a series [1] 80/12	about [44] 3/24 5/17
90 per cent [2] 42/24	a different [1] 100/10	a leader [1] 33/15	a patient [2] 84/8 84/8		13/14 17/6 42/4 42/13
77/11	a diminished [1]	a leading [1] 72/5	a pint [1] 32/3	32/10 74/21 81/15	42/20 45/25 51/24
	47/24	a lengthy [1] 116/14	a platelet [1] 104/13	84/15	52/13 55/19 57/20
<u>A</u>	a discrete [1] 4/14	a letter [10] 18/18	a pool [1] 58/15	a seven-month [1]	60/12 60/20 64/21
a 100 per cent [1]	a discussion [7] 9/11	26/5 34/7 34/9 36/12	a possible [2] 89/23	25/20	65/22 71/18 73/2
87/6	16/6 65/11 76/25	41/23 71/15 84/5	113/24	a sexual [1] 100/15	76/25 78/20 83/23
a 20-month [1] 113/16	78/12 111/11 115/2	110/20 119/9	a potentially [1] 60/8	a short [1] 46/15	86/2 87/20 88/14
a 45 per cent [1]	a disease [1] 46/17	a licence [1] 72/24	a prison [1] 32/21	a significant [4] 12/22	
113/8	a document [9] 5/2	a litre [3] 58/9 58/10	a programme [1]	24/22 65/7 83/14	93/5 93/9 94/7 99/9
a 50-90 per cent [1]	44/20 54/8 55/14	58/12	59/22	a significantly [1]	101/6 106/2 108/19
52/12	73/11 76/8 77/25	a little [4] 31/22 37/16		33/8	108/24 111/13 112/21
a backdrop [1] 2/22	107/25 111/5 a documentary [2]	56/17 62/11 a London [1] 110/17	a proportion [1] 47/17 a publication [6] 22/5	a similar [3] 37/4 100/25 107/19	112/25 115/2 115/23 117/4 117/9 119/8
a barrage [1] 114/22	121/17 121/18	a long [3] 15/18 38/10			above [5] 10/14 23/14
a batch [1] 10/4	a donor [3] 7/5 41/15	92/12	105/1	a single [1] 32/18 a small [3] 5/12 11/13	
a benign [1] 65/6	41/16	a long-established [1]		95/16	abroad [1] 119/8
a better [1] 53/24	a Dr Holgate [1] 87/7	91/1	a quick [1] 92/5	a smaller [1] 58/25	absence [2] 34/23
a bit [3] 20/17 59/13	a draft [1] 116/13	a lot [1] 57/9	a range [3] 2/5 30/5	a sort [1] 87/22	104/21
91/13	a fairly [1] 19/13	a major [3] 35/8 95/9	67/7	a strain [1] 81/9	absolute [2] 25/24
a blood [4] 29/14 43/8 52/25 110/11	a fatal [1] 36/18	104/3	a rapidly [2] 31/9	a strong [1] 16/15	60/14
a boon [1] 24/11	a feeling [1] 28/4	a man [1] 104/13	84/11	a study [2] 43/24	absolutely [3] 46/2
a break [2] 56/25	a few [5] 69/18 78/17	a matter [1] 35/17	a rare [1] 103/18	75/11	81/12 92/14
92/18	94/19 109/16 121/21	a means [2] 31/11	a rather [1] 38/7	a subsequent [1] 25/5	abuse [3] 85/19
a carefully [1] 18/2	a final [1] 115/17	54/14	a recognition [1] 75/7	a sufficient [1] 100/3	100/21 108/23
a carrier [2] 30/22	a follow-up [4] 23/4	a meeting [12] 13/22	a recollection [1]	a sufficiently [1] 94/9	abusers [3] 85/23
30/23	24/19 35/23 36/4	21/16 38/1 43/22 72/8	109/19	a summary [1] 111/1	108/21 117/21
a case [2] 26/13 94/15	a free [1] 21/3	72/15 85/13 86/5	a reconciliation [1]	a susceptible [1]	accept [2] 45/7
a CDC [1] 103/22	a furore [1] 88/5	92/23 110/17 112/16	80/8	30/22 A task-force [1] 110/2	104/20
	a fromth an 121 26/6		a reduction [1] 40/23	A task-torce in 110/2	accentance III ////
a change [1] 98/24	a further [2] 36/6	118/25	a vafavanaa [0] 12/10		
A check [1] 37/7	94/14	a memo [2] 77/3	a reference [9] 12/10	a test [2] 43/3 73/9	accepted [1] 40/8
A check [1] 37/7 a child [1] 109/6	94/14 a good [2] 21/3 56/19	a memo [2] 77/3 100/8	16/8 33/22 52/2 57/23	a test [2] 43/3 73/9 a third [1] 61/18	accepted [1] 40/8 accidents [1] 29/6
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16	94/14 a good [2] 21/3 56/19 a grave [1] 107/4	a memo [2] 77/3 100/8 a memorandum [4]	16/8 33/22 52/2 57/23 86/5 104/15 113/21	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3]	accepted [1] 40/8 accidents [1] 29/6 accommodation [2]
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3]	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1]	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1]	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3]
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1]	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a reliatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1]	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23 a copy [2] 100/4	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17 a history [2] 65/15	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2 a notification [1]	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18 121/2	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12 a wide [2] 70/8 70/23	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4 acquired [8] 77/17
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23 a copy [2] 100/4 100/4	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17 a history [2] 65/15 85/19	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2 a notification [1] 85/10	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18 121/2 a role [1] 50/6	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12 a wide [2] 70/8 70/23 a World [1] 27/1	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4 acquired [8] 77/17 90/18 91/19 93/5
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23 a copy [2] 100/4 100/4 a corresponding [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17 a history [2] 65/15 85/19 a homosexual [1]	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2 a notification [1] 85/10 a number [15] 2/7	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18 121/2 a role [1] 50/6 a safe [1] 45/2	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12 a wide [2] 70/8 70/23 a World [1] 27/1 a written [1] 102/7	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4 acquired [8] 77/17 90/18 91/19 93/5 93/19 97/9 108/16
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23 a copy [2] 100/4 100/4 a corresponding [1] 16/1	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17 a history [2] 65/15 85/19 a homosexual [1] 113/19	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2 a notification [1] 85/10 a number [15] 2/7 9/13 17/6 19/17 29/17	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18 121/2 a role [1] 50/6 a safe [1] 45/2 a sample [1] 120/5	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12 a wide [2] 70/8 70/23 a World [1] 27/1 a written [1] 102/7 a wrong [1] 58/7	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4 acquired [8] 77/17 90/18 91/19 93/5 93/19 97/9 108/16 113/1
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23 a copy [2] 100/4 100/4 a corresponding [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17 a history [2] 65/15 85/19 a homosexual [1]	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2 a notification [1] 85/10 a number [15] 2/7	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18 121/2 a role [1] 50/6 a safe [1] 45/2	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12 a wide [2] 70/8 70/23 a World [1] 27/1 a written [1] 102/7	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4 acquired [8] 77/17 90/18 91/19 93/5 93/19 97/9 108/16
A check [1] 37/7 a child [1] 109/6 a chronic [2] 69/16 77/19 a chronological [1] 2/1 a clinical [2] 67/17 113/3 a comment [1] 66/3 A commercial [1] 107/3 a communication [1] 62/15 a consensus [1] 120/21 a considerable [2] 7/21 37/1 a convenient [2] 37/17 56/23 a copy [2] 100/4 100/4 a corresponding [1]	94/14 a good [2] 21/3 56/19 a grave [1] 107/4 a greater [1] 106/17 a group [2] 38/8 54/22 a guess [1] 102/17 a Haemophilia [1] 101/17 a haemophiliac [2] 36/14 37/13 a handy [1] 15/10 a hazard [1] 30/17 a heading [1] 13/8 a hepatitis [1] 49/16 a hepatitis C [1] 66/11 a high [3] 18/24 42/21 84/15 a higher [1] 74/17 a history [2] 65/15 85/19 a homosexual [1] 113/19	a memo [2] 77/3 100/8 a memorandum [4] 11/20 13/4 28/2 28/10 a minimum [1] 43/3 a minute [1] 77/3 a moment [1] 99/23 a monetoropic [1] 53/1 a month [1] 82/8 a more [1] 111/21 a move [1] 119/16 a much [2] 112/23 115/1 a national [1] 35/16 a new [4] 24/13 91/9 91/9 95/24 a note [4] 9/11 79/14 100/7 108/2 a notification [1] 85/10 a number [15] 2/7 9/13 17/6 19/17 29/17	16/8 33/22 52/2 57/23 86/5 104/15 113/21 119/12 a regular [1] 79/12 a relatively [1] 55/4 a reliable [1] 43/5 a remote [2] 93/24 99/25 a report [9] 6/2 43/13 55/22 69/22 85/10 89/7 97/11 99/24 103/22 a reported [1] 36/17 a representative [1] 91/24 a response [1] 59/10 a rise [1] 63/5 a risk [3] 42/16 70/18 121/2 a role [1] 50/6 a safe [1] 45/2 a sample [1] 120/5	a test [2] 43/3 73/9 a third [1] 61/18 a transfusion [3] 10/17 32/5 97/15 a transient [1] 31/7 a transmissible [3] 86/1 90/1 104/8 a variety [1] 40/11 a very [7] 5/11 7/25 8/13 81/6 83/9 90/11 122/19 a view [2] 11/21 23/6 a virus [8] 6/24 24/12 30/21 44/6 61/19 102/14 105/23 111/19 a volunteer [2] 42/5 53/6 a week [3] 56/3 58/23 93/12 a wide [2] 70/8 70/23 a World [1] 27/1 a written [1] 102/7 a wrong [1] 58/7	accepted [1] 40/8 accidents [1] 29/6 accommodation [2] 39/5 41/13 accompany [1] 49/8 accord [1] 23/19 account [6] 7/25 9/21 87/6 111/5 112/23 115/1 accounts [3] 20/19 20/20 111/4 accumulating [3] 20/14 39/17 66/25 accuracy [1] 43/3 accurate [6] 63/24 67/3 87/6 87/17 88/2 94/9 achieve [1] 31/22 acquire [1] 109/4 acquired [8] 77/17 90/18 91/19 93/5 93/19 97/9 108/16 113/1

Α	advisory [3] 38/5	92/15 93/1 94/15	alongside [1] 54/1	answer [3] 102/7	appointed [1] 38/17
	38/18 65/12	94/19 94/24 95/7 95/9	already [6] 2/12 11/8	102/22 103/20	appreciated [1] 34/1
acquiring [1] 118/1	aetiology [3] 22/17	95/14 95/16 95/21	41/5 62/19 68/18	answers [1] 102/8	appreciation [1]
across [2] 53/19 92/6	50/7 97/20	96/1 96/1 96/3 96/5	121/2	anti [1] 85/16	94/10
action [9] 12/3 56/2	affected [2] 113/9	96/20 96/22 97/17	also [23] 8/12 12/18	anti-haemophilic [1]	approach [2] 59/18
56/12 56/14 56/22	115/3	97/20 98/1 98/2 98/9	16/18 23/23 28/21	85/16	120/22
59/11 59/24 112/13	afford [1] 32/1	98/13 98/23 99/7 99/9	45/13 50/5 53/9 61/19	antibodies [1] 43/20	approaches [1]
117/2	afforded [1] 83/6	100/9 102/3 102/9	70/23 71/25 73/1	antibody [5] 38/7 39/1	117/10
actions [3] 4/20	afraid [1] 53/20	102/12 102/13 103/1	77/18 81/1 86/8 91/15	41/10 41/15 49/7	appropriate [4] 70/17
122/24 122/25	after [25] 4/11 6/10	103/5 103/7 103/8	95/12 95/13 95/15	anticipated [1] 13/18	116/21 120/21 121/7
active [4] 68/17 82/2	12/13 13/17 15/5	103/16 103/17 103/19	96/14 104/6 105/14	antigen [21] 29/20	approximately [5] 6/8
83/1 87/25	15/18 19/2 22/22	104/3 104/7 104/9	107/21	30/1 38/1 38/7 38/25	42/10 78/22 115/22
actual [1] 36/1	23/21 26/19 32/2	104/12 104/14 104/17	Alter [3] 55/22 63/12	39/17 40/1 40/2 40/7	116/10
actually [2] 7/6 8/8	35/19 36/15 45/24	104/20 105/2 105/4	66/17	40/10 40/17 41/9	April [12] 8/24 18/18
acute [18] 25/14	48/11 56/18 67/20	105/9 105/14 105/22	although [14] 4/10	41/15 47/12 47/15	21/16 32/9 32/17
35/10 49/24 50/1	68/6 92/3 94/20 97/14	106/6 106/11 106/17	15/21 16/23 20/8	47/19 48/13 49/7	41/22 42/1 43/14
50/12 50/16 64/23	109/6 109/6 110/24	109/4 109/8 109/10	20/19 35/7 40/14	52/17 61/4 65/13	73/16 121/18 121/20
64/24 67/10 67/20	113/2	109/20 109/23 110/3	60/14 63/19 64/22	antihaemophilic [2]	122/9
68/2 68/6 68/9 68/13	afternoon [3] 1/15	110/13 111/15 111/17	81/14 85/25 86/23	36/16 44/11	April 1942 [1] 8/24
78/9 78/12 80/3 80/4	1/15 1/16	111/19 112/25 113/4	91/6	anxiety [3] 15/21	April 1966 [1] 32/17
ad [2] 11/13 72/13	again [32] 1/14 3/7	113/7 113/24 115/24	am [16] 1/2 5/11 5/12	35/17 72/25	April 1971 [2] 41/22
add [2] 21/2 74/7	16/22 21/17 22/3 30/4	116/1 116/5 116/10	5/14 5/24 18/25 29/20	anxious [1] 20/13	43/14
added [1] 18/19	34/7 38/10 41/23 50/8	116/25 117/15 117/18	37/21 37/23 54/1 54/4	any [35] 3/2 3/6 3/13	April 1979 [1] 73/16
addicts [3] 45/8 55/7	51/21 54/4 55/17	117/21 118/1 118/5	54/25 58/3 73/10	3/15 8/17 9/19 11/2	arbitrarily [1] 71/6
88/12	55/20 56/18 58/17	119/7 119/8 119/15	118/21 123/4	11/24 12/17 15/1	architecture [1] 82/24
addition [3] 58/25	62/8 64/24 68/25	119/19 120/23 120/25	ambulant [1] 16/20	17/11 17/23 27/5	archives [1] 75/12
104/4 105/15	73/11 73/12 75/15	aim [2] 1/12 1/13	America [3] 9/6 26/2	34/22 35/21 36/1 37/8	are [111] 1/3 1/21
additional [5] 3/15	83/20 87/25 100/21	airport [4] 110/17	85/12	59/6 70/17 84/22	5/18 5/19 6/17 8/20
68/18 83/18 96/6 104/22	103/23 106/25 112/20	111/3 111/10 115/21	American [16] 5/6	88/10 90/10 92/25	11/12 14/3 15/14 19/8
	113/21 115/3 117/25	al [1] 70/20	10/12 24/3 45/16	93/4 94/1 97/1 101/13	21/23 24/24 25/24
additions [1] 3/11	118/7	alarm [2] 12/6 21/9	45/17 63/4 79/19 87/9	103/14 103/14 110/4	27/16 27/17 29/14
addressed [6] 19/20 71/17 72/10 73/23	against [6] 4/25 5/4	alarming [2] 43/25	87/12 87/15 95/24	110/10 111/18 117/6	29/17 29/17 29/23
83/8 87/7	5/10 6/9 7/18 95/4	109/10	103/9 103/23 109/22	117/9 118/8	32/23 34/17 35/18
adds [1] 98/2	age [3] 25/10 79/5	albumin [1] 47/22	114/8 116/7	anybody [1] 32/3	36/24 37/14 39/4 40/5
adequate [4] 18/2	98/20	Aledort [1] 90/15	among [21] 25/10	anyone [4] 45/12	43/7 44/17 45/6 46/3
67/11 70/16 75/4	age 4 [1] 98/20	alert [1] 106/19	35/10 42/12 42/13	53/24 58/4 59/6	46/10 47/20 48/3
Adjourned [1] 123/4			63/6 71/24 71/25 72/3	anything [5] 79/24	48/18 49/23 49/25
Adjournment [2] 57/3	agency [1] 103/23	all [44] 2/13 5/20	86/11 86/19 86/24	101/10 108/13 115/8	50/12 52/20 54/6
57/4	agenda [1] 27/7	10/14 10/24 12/16	95/14 96/3 96/7 97/21	115/9	54/24 55/7 55/12
administered [3]	agent [33] 6/24 8/9	18/16 19/8 28/18 32/2	107/10 110/13 114/14	Anyway [1] 6/17	55/18 59/22 61/24
25/12 25/23 48/2	16/25 17/17 25/7	33/1 33/19 35/23 36/5	114/15 117/21 120/18	apologies [2] 5/24	66/1 67/11 70/22
administration [4]	40/14 46/19 46/23	38/11 39/16 41/8 43/5		10/23	71/23 72/3 72/11 73/2
20/10 47/5 109/6	49/2 51/14 52/20	47/11 54/17 55/9	22/14 85/2 103/8	apparent [4] 51/8	73/3 73/13 74/14 75/1
120/14	52/21 63/22 68/15	55/12 56/18 60/19	103/19 110/3 117/18	80/17 94/24 108/25	78/7 78/16 79/4 79/22
administrative [4]	73/7 86/1 87/1 90/1	61/13 71/1 75/22	amount [2] 7/21 25/11		80/2 80/19 80/20 81/3
9/20 15/12 16/21 17/9	91/8 91/20 97/23 98/3	77/11 78/5 81/5 81/5	amyl [1] 100/15	40/3 67/5 72/2 87/19	81/4 81/5 82/8 83/13
admittedly [1] 47/24	100/24 101/3 102/14	82/2 82/5 83/20 84/20	anaemia [1] 113/24	114/8	83/16 84/20 84/21
adopt [1] 47/10	103/1 103/2 104/8	85/17 93/14 96/12	analysed [1] 6/22	appear [6] 19/3 19/13	84/24 86/14 86/18
adopted [1] 121/7	105/23 107/17 110/7	96/13 98/25 112/1	analyses [1] 5/18	20/4 69/8 117/18	86/21 88/6 88/12
adults [1] 79/4	114/21 115/10	113/10 115/21 116/20	and/or [1] 83/24	119/19	89/17 89/18 95/12
advance [2] 37/1 55/8	agents [5] 40/3 66/24	120/17	Andrew [1] 109/18	appearance [3] 9/22	102/10 102/12 102/18
advanced [1] 14/24	76/24 114/20 115/10	all-volunteer [1] 43/5	Angeles [3] 52/6 82/1	13/13 13/16	102/19 102/22 102/23
advances [1] 82/17	aggressive [3] 70/9	Allen [6] 32/8 41/23	82/4	appeared [4] 7/22	103/3 104/5 104/6
advice [6] 31/16	70/25 75/23	51/21 51/23 62/12	anicteric [2] 34/24	22/23 93/23 105/12	104/11 106/5 106/10
54/15 54/21 55/9	ago [1] 99/23	62/17	50/3	appearing [2] 13/17	106/16 107/21 108/18
79/12 97/3	agreed [9] 12/3 12/4	allocated [1] 1/18	Annals [1] 68/22	67/16	108/19 108/21 108/22
advisable [1] 99/6	21/8 21/14 22/16 93/9	allowed [1] 41/16	announcement [1]	appears [8] 15/20	108/23 108/24 109/14
advise [2] 38/14	99/15 116/17 120/7	allusion [1] 77/7	45/13	25/7 61/19 69/15	109/22 110/8 112/14
38/22	AHF [1] 62/4	almost [2] 101/21	another [10] 10/5	69/19 75/15 99/6	114/6 114/9 114/9
advised [1] 96/16	AIDS [91] 4/3 81/21	115/21	13/20 37/12 45/11	114/1	114/19 115/16 118/5
adviser [1] 87/11	82/13 89/15 89/22	alone [1] 8/12	48/15 62/11 92/2 98/5	applied [1] 47/18	120/25
	90/1 91/10 91/18 92/8	along [1] 99/12	112/22 117/13	applies [1] 28/20	area [4] 23/3 23/5
	l .	İ	I	1	1

(34) acquiring... - area

	1		I		
Α	ask [3] 45/11 84/10	attracts [1] 53/15	barrage [1] 114/22	103/10 104/9 104/21	biologics [4] 87/13
area [2] 52/6 97/12	119/24	attributable [1] 25/18	Barrowcliff [1] 112/2	110/14 113/7 113/9	120/16 120/16 120/19
	asked [6] 11/18 12/11	attributed [2] 25/13	BART0002487 [1]	114/3 114/15 115/21	Biology [1] 63/11
aren't [1] 1/7	57/19 93/4 93/20	35/10	73/15	119/10 119/13 122/20	biopsies [2] 75/18
argue [1] 26/16	93/25	augmented [1] 63/2	based [4] 34/13 69/24	before [13] 4/20 35/20	
argued [1] 26/19	asking [2] 12/15	August [9] 13/22 14/1	75/16 116/22	38/15 45/15 61/9 63/9	biopsy [9] 68/7 70/6
argument [1] 26/22	27/13	22/2 30/4 33/13 48/22	basis [3] 35/16 76/10	82/12 90/24 92/10	70/15 70/21 71/2 71/5
arithmetic [1] 58/16	aspects [5] 15/13	83/14 90/7 91/2	79/12	98/16 99/22 110/16	78/19 78/21 82/3
armed [2] 19/18 21/23	39/16 73/5 89/14	August 13 [1] 13/22	batch [4] 10/4 11/23	115/22	Birmingham [1] 112/9
army [4] 4/24 5/2 7/21	104/2	August 1946 [1] 22/2	12/7 113/12	began [2] 48/14 92/8	bit [4] 1/15 20/17
9/1	1		1		
Aronstam [1] 112/8	aspiration [1] 40/21	August 1965 [1] 30/4	batches [3] 16/16	begin [4] 41/7 48/9	59/13 91/13
arose [2] 57/7 59/23	aspire [1] 35/21	August 1982 [1] 90/7	72/21 76/14	81/20 102/20	biweekly [1] 49/5
arrange [1] 116/19	assault [1] 82/24	Australia [12] 29/20	battery [1] 30/25	beginning [9] 6/14	bizarre [1] 109/23
arrangements [2]	assays [1] 49/9	30/1 38/1 38/6 38/25	battle [2] 15/24 19/4	13/12 20/4 40/22	blank [1] 28/21
20/3 28/8	assess [1] 70/5	39/16 40/1 40/16 41/9	BAYP0004205 [1]	41/20 66/20 69/2 73/2	bled [1] 88/9
article [27] 5/11 7/11	associated [17] 7/22	47/12 47/15 67/3	89/2	73/23	bleeding [2] 74/9
12/13 22/6 23/9 24/3	23/25 38/2 38/6 38/25	Australia-hepatitis-as	BBC [2] 121/20 122/7	begins [1] 64/16	91/21
I .	39/17 40/1 40/3 41/9	sociated [1] 41/9	BBC1 [1] 122/8	behalf [1] 80/16	blood [191]
29/25 34/11 36/11	49/24 51/13 51/16	Austria [1] 81/1	BBC2 [1] 122/8	being [28] 12/11 14/3	blood' [1] 47/18
46/7 59/22 61/1 61/7	64/23 69/15 78/3	author [1] 19/22	BBC00000002 [1]	20/12 23/3 32/17 34/3	blood-clotting [1]
61/11 63/11 66/16	78/18 97/9	authored [4] 15/13	121/22	47/2 48/6 55/5 60/9	110/7
66/23 67/19 68/22	association [12] 7/2	30/10 32/7 77/25	BBCO0000004 [1]	67/17 72/20 78/4	Bloom [11] 4/21 93/4
79/24 82/14 90/25	14/10 15/2 18/14 28/8	authorities [3] 45/4	122/4	84/24 85/9 86/8 88/23	108/6 108/9 111/10
91/1 106/6 108/12	40/7 47/14 73/22	80/20 103/9	be [212]	88/24 89/16 90/21	112/14 116/1 118/21
109/18 110/16	73/25 79/10 100/20		bear [1] 59/5	96/8 101/6 106/15	118/22 122/17 122/24
articles [7] 21/19	103/14	authors [1] 84/7			
21/24 55/18 83/22	ł .	autoimmune [1] 113/23	became [1] 51/16	108/14 110/20 114/7	BMJ, [1] 59/12
84/3 114/12 119/8	assume [1] 53/16		because [19] 1/7 7/25		BMJ, British [1] 59/12
as [111] 2/7 2/7 5/21	assumed [3] 14/15	availability [2] 24/8	19/1 38/15 45/18	beings [1] 18/12	Bolton [1] 111/23
7/19 9/25 12/5 12/22	46/18 46/22	83/6	47/21 51/4 51/9 58/12	Belfast [2] 37/13	boon [1] 24/11
14/20 15/1 16/3 17/11	assuming [2] 58/8	available [8] 23/4	58/19 60/11 62/23	112/7	born [1] 98/19
17/11 17/23 18/12	58/9	40/22 66/1 74/7 74/11	73/4 84/11 87/23	believe [1] 63/23	both [10] 1/14 23/21
22/12 22/17 25/22	assumption [2] 17/15	80/22 88/16 93/10	91/19 102/10 102/24	believed [1] 9/22	47/20 69/10 74/8
25/22 26/12 26/18	58/9	avoid [1] 40/19	108/1	believes [1] 110/5	74/14 78/10 80/4
26/19 27/7 28/4 28/12	assure [1] 121/6	avoidance [1] 29/6	become [3] 16/3 69/4	believing [1] 20/22	103/3 119/8
1	asymptomatic [2]	avoiding [1] 17/2	81/21	belittle [1] 60/18	bottom [14] 7/13 8/5
28/18 32/2 33/8 34/1	113/19 114/24	aware [4] 30/23 96/24	becomes [2] 50/17	below [1] 87/16	8/22 12/1 13/9 16/6
34/1 34/15 35/6 35/6	Atlanta [3] 104/1	98/11 114/9	87/25	benefit [3] 5/16 31/23	46/4 66/19 76/11 91/5
35/25 38/17 39/19	107/9 110/3	awareness [1] 74/16	becoming [2] 73/3	55/20	93/18 102/1 108/17
39/21 39/23 40/8	attached [1] 18/24	away [1] 119/16	106/11	benefits [3] 25/24	119/5
40/24 41/16 42/6 42/6	attack [5] 7/7 25/8	away.' [1] 105/21	Beecham's [1] 77/9	29/3 48/3	bought [1] 88/14
43/6 43/6 43/8 43/8	25/9 25/11 32/19		been [86] 2/12 3/4	benign [2] 65/6 70/24	
43/17 44/20 45/5 45/8	attacker [1] 111/19	В	3/12 5/10 6/24 7/1	Berry [3] 110/21	BPL [1] 77/9
45/9 45/17 46/16		B' [1] 51/14	7/14 8/6 8/13 9/2 9/5	111/1 111/4	BPLL0011645 [1]
46/19 46/23 47/1 47/4	attacks [1] 9/4	baby [4] 97/8 104/16	1		100/4
47/10 47/17 49/19	attempt [2] 20/1 35/1	113/22 117/25	9/16 9/25 10/12 11/1	Berry's [1] 112/24	
50/2 50/14 50/18	attempted [1] 14/9		11/8 11/18 11/18	besets [1] 30/17	Bradley [5] 9/21 11/18
52/10 54/3 54/14 55/8	attempting [1] 119/20	back [21] 5/20 9/24	12/17 13/20 14/5 14/9	beside [1] 54/2	12/4 15/13 19/22
57/16 61/14 61/17	attempts [3] 31/10	26/2 33/12 34/21 36/8	15/19 15/23 16/12	Besides [1] 66/21	brands [1] 88/6
62/3 62/16 63/7 64/3	36/1 53/6	36/22 37/20 43/15	18/18 19/22 20/3	best [1] 120/4	Brazil [1] 10/11
64/8 65/8 69/5 69/10	attend [2] 72/11 72/15		20/20 21/1 21/21	better [4] 1/17 53/3	break [10] 37/17
70/17 72/23 73/21	attendance [1] 9/13	55/14 59/7 73/23	22/11 23/22 24/11	53/24 76/22	37/19 37/22 56/24
73/25 74/22 74/22	attended [2] 79/11	92/10 93/17 106/25	27/25 30/6 30/6 31/1	between [17] 10/1	56/25 90/24 92/2 92/3
75/8 76/2 76/17 78/8	90/6	111/6 112/21 115/4	33/19 34/20 44/3	14/10 16/7 18/15 40/7	92/18 92/20
	attendees [2] 112/1	backdrop [2] 2/22	47/20 47/23 50/3 51/1	47/15 50/14 58/14	breaks [1] 1/14
79/19 79/21 81/2	119/2	56/9	51/8 58/14 58/25	58/16 71/3 75/19	Bremen [1] 10/2
81/11 81/21 82/7	attending [2] 20/21	bad [1] 122/12	61/13 62/24 63/20	84/14 95/20 102/11	brief [2] 48/8 76/13
84/14 88/12 88/23	115/20	baffles [1] 91/2	64/12 66/9 66/24	105/25 118/15 118/20	
89/22 92/10 95/7 97/8	attention [8] 3/17	baffling [1] 107/17	66/25 68/3 71/5 72/22	beyond [2] 4/10 15/19	, , , ,
100/15 101/11 102/15	12/14 60/11 72/16	bank [4] 24/10 29/12	72/24 76/23 78/8	big [1] 103/3	bring [3] 3/17 19/8
104/14 105/9 107/10	79/8 94/22 107/25	43/8 52/25	81/18 84/9 85/3 85/16	bigger [1] 93/13	120/8
113/7 117/2 120/20	114/11	banking [1] 53/7	85/22 86/3 90/16	Biggs [1] 52/6	bringing [1] 11/21
122/7	attract [1] 53/2	banks [3] 28/13 45/7	90/17 91/6 93/25	biochemical [2] 71/4	brings [2] 37/15 55/25
ascribed [1] 101/20	attracting [1] 53/23	53/2	101/20 102/13 103/9	82/21	
	amacing [1] 00/20	001 <u>L</u>	101/20 102/10 100/9	02/21	Britain [6] 37/5 43/23
		L			(35) area Britain
					(UU) alta * Diildii)

Britain [4] 53/4 67/1 107/4 110/15 British [12] 22/5 33/15 34/8 36/11 36/12 37/11 59/12 63/2 82/15 83/8 103/16 110/13 broadcast [6] 56/2	54/14 55/5 55/22 56/15 58/20 59/21 60/5 60/15 61/2 62/12 63/12 63/22 65/11 65/19 65/25 66/6 66/17 67/1 67/6 67/21 68/14 68/22 69/13 69/22 72/20 73/20 75/14 76/8 77/8 77/13	35/15 43/4 77/14 81/12 capable [1] 24/12 capacity [2] 73/21 73/24 cardiac [1] 35/19 Cardiff [4] 4/21 26/7 118/23 122/17 cardiovascular [1]	Cash's [1] 59/15 casualties [2] 15/24 19/4 catarrhal [1] 7/7 catch [1] 95/9 categories [3] 3/19 54/23 110/5 causal [1] 6/24 causative [1] 25/7	93/10 93/14 93/20 94/3 102/4 107/8 108/4 110/23 112/17 114/4 115/12 115/13 115/18 116/17 116/20 119/14 120/16 122/18 Centre for [1] 86/9 centres [9] 35/19 37/3 39/10 41/7 43/23	76/17 79/4
56/8 56/13 108/15	77/15 77/17 77/22 77/25 80/20 81/23	49/6 care [3] 17/14 28/19	cause [13] 21/8 35/8 40/4 49/3 65/6 85/25	58/22 58/22 81/24 93/16	Children's [1] 75/16 chimpanzees [1]
121/20 122/7 broadcasting [1]	83/4 83/6 86/8 87/23	106/18	86/23 88/5 100/13	century [1] 9/25	72/23
21/20	88/4 90/1 90/6 90/21 91/8 97/23 98/25	careful [1] 81/4 carefully [1] 18/2	101/5 102/9 107/16 118/8	certain [11] 7/22 11/4 11/8 22/22 54/23	choice [1] 39/2 Christmas [2] 43/21
broader [1] 56/6 broadly [1] 3/18	99/23 100/19 102/14	carried [5] 18/3 34/20	caused [18] 6/20 11/6	81/12 86/19 88/19	44/10
Brompton [1] 84/9	102/16 103/1 103/2	70/6 70/15 95/10	30/21 46/18 46/23	105/6 120/23 122/16	chronic [36] 50/2 50/7
brought [1] 14/12	104/7 104/21 105/23 105/24 105/25 106/2	carrier [5] 30/22 30/23 43/4 69/16	51/13 52/20 63/22 65/25 68/14 77/13	certainly [2] 101/22 102/23	50/18 65/5 65/7 67/9 67/20 68/4 68/10
Bruce [1] 118/20 brucellosis [1] 33/18	106/3 110/20 111/19	77/19	90/1 91/8 97/23	certificates [1] 20/8	68/15 68/17 68/17
Budapest [1] 90/4	111/23 112/14 114/7 117/20 118/2 119/25	carriers [1] 31/2 carries [3] 24/21	102/14 103/1 105/23 111/19	cetera [10] 10/15 32/25 70/22 75/25	69/16 69/16 69/25 70/8 70/9 70/23 70/25
bulletin [4] 99/20	120/23 121/11	42/15 110/12	causes [3] 11/3	75/25 86/13 86/22	71/8 71/24 75/22
101/17 101/19 110/25 Bureau [1] 87/12	BYAP0000018 [1]	carry [3] 20/1 24/12	100/13 100/14	95/15 95/15 99/15	75/23 76/15 76/22
but [72] 2/15 3/13	95/23	47/24 carrying [3] 33/8	causing [5] 42/16 72/24 92/15 99/10	CGRA0000242 [1] 81/22	77/19 78/13 78/17 78/23 78/24 79/6
4/12 4/22 5/12 5/20	<u>C</u>	51/11 73/7	119/16	CGRA0000288 [1]	79/21 79/21 80/6
11/1 11/4 11/18 13/6 16/3 17/19 19/8 20/24	c.c [1] 10/6	case [33] 10/17 11/5	CBLA0000249 [1]	85/8	82/25 82/25
21/19 23/20 25/8 27/6	calculated [1] 44/14 California [4] 41/25	11/17 12/15 13/20 13/24 26/13 36/17	51/18 CBLA0000254 [1]	CGRA0000301 [1] 103/21	chronicity [1] 69/8 chronological [2] 2/1
28/21 29/21 29/24 34/18 36/20 37/10	82/4 97/10 118/13	36/18 36/19 37/4	54/6	CGRA0000424 [1]	29/22
45/12 46/25 50/17	called [10] 9/16 13/23	37/12 42/12 42/13	CBLA0001619 [2]	83/12	chronologically [1]
52/8 53/17 54/5 55/1	22/21 30/8 48/23 51/2 51/4 78/2 105/4	45/12 63/5 81/7 88/10 88/22 89/24 94/15	93/13 99/23 CBLA0001653 [1]	CGRA0000434 [1] 99/3	3/19 chronologies [1] 19/8
55/5 55/23 56/6 58/9 59/1 63/24 67/5 70/19	121/19	94/19 94/21 96/7 97/8	100/11	CGRA0000694 [1]	chronology [4] 2/14
74/14 75/7 78/10	came [3] 6/23 57/14	98/2 104/12 104/16	CDC [16] 83/17 84/14	50/20	3/12 3/14 101/21
78/18 79/18 82/6	107/25 can [82] 1/24 3/14	109/23 111/18 113/16 113/22 117/25	84/17 86/10 94/14 96/2 96/5 96/6 96/16	CGRA0000934 [1] 62/10	circulated [2] 116/16 116/20
83/21 84/11 85/6 87/6 87/17 88/22 89/3	3/17 6/2 7/14 9/9 9/24	case-mortality [2]	97/11 103/22 104/23	chair [1] 111/11	circumstances [2] 5/9
90/13 93/23 94/15	11/7 12/21 13/1 13/8	94/19 94/21	105/13 105/18 110/2	Chairman [2] 73/21	42/8
96/13 97/20 100/7	13/11 15/8 17/1 19/12 19/16 19/24 20/16	cases [72] 6/10 10/2 10/5 10/7 10/14 10/18	117/13 CDC's [2] 83/13	120/7 chairmanship [1]	cirrhosis [8] 50/2 68/10 68/19 70/10
101/11 101/22 102/10 102/22 103/17 104/18	2211 2213 2219 2413	10/24 11/17 11/24	105/21	38/8	71/1 75/23 78/25 83/1
108/13 112/22 113/11	26/10 27/1 30/13 31/14 32/1 35/21 36/8	12/8 12/17 14/1 14/2 14/6 15/4 21/10 21/25	cells [1] 111/20 cellular [1] 97/13	change [1] 98/24 changes [4] 46/25	cited [1] 91/24 civil [1] 2/25
113/20 114/21 115/17	36/10 36/22 38/12	22/22 23/16 25/14	cent [32] 25/6 26/12	82/23 117/9 117/10	civilian [1] 19/2
118/21 120/1 buy [1] 45/6	38/15 39/8 39/15	45/6 48/13 49/3 49/7	26/13 30/17 32/19	channels [1] 24/9	classical [1] 75/19
by [123] 1/23 1/24 2/3	39/25 40/11 42/22 42/25 43/3 44/14 49/1	49/23 49/25 50/4 52/13 52/19 61/23	32/21 35/3 35/6 42/6 42/10 42/24 49/3	chapter [1] 41/2 character [1] 23/16	classified [2] 61/14 61/17
3/3 3/4 6/20 8/14 10/8 10/8 11/6 11/19 13/4	50/21 53/24 54/7 55/8	63/8 68/2 68/14 68/16	51/12 52/12 52/14	characterisation [1]	clear [7] 14/22 20/25
13/25 15/2 15/13	57/6 59/7 60/6 61/14	78/7 78/8 80/2 82/8	63/5 68/5 70/4 76/16	94/10	62/8 69/4 87/18
16/10 17/2 17/16	61/21 62/25 64/1 64/20 68/9 68/25	82/9 82/10 83/3 83/15 83/18 84/13 84/18	77/11 78/22 79/20 87/6 94/21 108/19	characterise [1] 73/7 characteristics [1]	103/10 106/11 clearly [3] 4/10 25/25
20/12 22/8 23/1 24/5 27/3 27/6 27/20 27/20	69/21 70/1 70/15	84/20 85/9 85/15	108/21 108/22 108/24	46/20	90/21
29/16 30/6 30/10	73/13 73/20 74/5 75/7 75/10 77/16 77/18	85/21 86/10 86/25	108/25 109/11 110/14	charge [2] 29/8 29/12	clinical [18] 11/5
30/21 31/23 32/2 32/7	77/18 79/13 81/9 87/3	94/1 96/2 96/12 98/20	113/8 Centers [2] 85/17	Chassar [1] 32/2 Cheap [1] 62/14	25/23 28/9 32/10 36/24 41/17 61/2
32/24 32/25 33/17 33/20 34/21 38/18	88/7 88/22 92/1 93/13	104/17 110/3 110/13	91/25	check [1] 37/7	67/17 69/3 69/7 74/14
40/11 44/7 46/7 46/17	100/19 105/24 107/23 108/4 112/1 115/16	113/10 113/12 113/14 113/15 114/3 116/10	centrally [1] 80/20 centre [29] 4/21 26/6	checked [2] 58/17 100/7	74/15 78/17 82/22 85/3 86/17 113/3
46/18 46/23 48/6	117/2 119/2	116/13 116/19 117/15	28/1 30/11 31/16	checks [1] 81/4	118/16
48/16 48/23 49/8 49/9 50/12 51/13 52/20	Canada [1] 119/15	118/3 118/5	43/14 43/16 58/24	Chief [10] 10/8 11/19	clinician [1] 97/2
	cannot [6] 14/15 35/8	Cash [2] 59/10 119/3	79/10 86/9 92/24	18/21 19/17 20/18	clinicians [6] 2/24
					(36) Britain clinicians

(36) Britain... - clinicians

		400/40 444/40 440/0	400/40	0/40 7/0 7/04 0/0 40/7	00/40 400/44 444/47
<u>C</u>	comments [3] 59/20 65/18 114/19	106/18 114/16 116/8 119/17	106/16	6/13 7/9 7/24 9/6 13/7 17/20 18/9 18/19	98/12 106/11 114/17 114/17 119/17
clinicians [5] 43/18	commercial [23] 24/9	concept [1] 60/13	consultant [2] 39/9 87/11	20/15 21/17 25/12	cryoprecipitated [1]
44/4 48/11 48/15	42/15 42/25 43/8 45/7	concern [8] 9/25 73/4	contact [3] 96/10	26/4 26/24 27/10	36/16
56/10	52/4 52/8 53/2 53/7	86/2 96/21 98/9 105/3	102/17 105/24	28/16 30/11 32/6 34/5	culled [1] 20/7
clip [1] 121/22	53/9 59/14 63/1 72/21	116/6 119/18	contain [1] 4/11	35/6 35/12 43/12	Cullen [2] 80/16 80/18
close [3] 79/9 95/8	74/13 74/17 74/25	concerned [6] 19/1	contained [3] 8/9	44/23 46/6 47/6 51/18	cultivated [1] 6/25
105/24	77/8 88/14 93/24	79/23 90/11 96/1	10/15 44/9	55/1 56/11 56/20	cultures [2] 6/25 7/2
closely [3] 64/18 69/6 74/8	94/11 100/1 100/22	101/12 120/19	containing [4] 22/19	57/20 59/13 61/16	current [3] 106/12
clotting [6] 83/6 95/18	107/3	concerning [6] 16/25	28/12 72/22 76/3	62/10 63/13 64/6 65/9	113/3 115/2
99/1 107/6 110/7	commercially [4]	20/11 85/13 85/13	contains [1] 87/22	65/17 66/15 66/18	currently [2] 91/7
117/19	57/22 61/5 63/3 64/10	87/15 120/21	contaminated [6]	66/20 67/22 70/11	118/5
clotting-factor [1]	committee [6] 11/12	concerns [1] 81/3	22/20 28/19 42/6 51/6	71/14 73/15 76/7	Cutter [2] 99/4 99/16
83/6	15/12 27/2 27/3 29/16 89/5	conclude [1] 71/6	107/19 117/23	77/24 78/4 80/11	Cutter's [2] 52/10 52/14
cluster [1] 118/13	common [5] 69/20	concluded [1] 76/3 concludes [1] 14/20	contemporaneous [2] 2/4 5/21	80/13 81/22 84/1 85/7 86/7 90/23 91/12 92/2	CWPS [1] 62/21
clustering [1] 100/23	71/23 72/3 74/23 79/2	concluding [1] 36/21	context [4] 59/21	93/2 93/16 94/13	cytomegalovirus [2]
CMO [5] 11/19 45/19	commonly [4] 22/21	conclusion [6] 6/23	65/10 77/6 77/9	94/16 94/25 95/15	49/11 100/17
45/21 46/1 46/4	40/8 47/1 83/9	8/5 14/25 31/15 31/18	continue [6] 4/19 19/2		
CMO's [1] 11/16	communicable [2]	99/25	26/10 41/16 82/7	103/4 103/16 103/21	<u>D</u>
CMV [2] 100/16	17/24 114/4	conclusions [2] 34/23		104/24 106/4 106/7	damage [4] 34/19
114/23 co [1] 110/22	communicate [1]	47/7	continues [6] 47/23	106/23 108/11 110/11	76/15 76/22 77/18
co-director [1] 110/22	54/15	conclusive [2] 66/13	82/11 84/17 98/22	111/14 111/25 117/11	Dame [2] 72/4 72/5
coagulation [1] 44/1	communication [3]	98/12	104/3 105/5	118/11 118/24 119/25	Dame Sheila Sherlock
cohorts [1] 30/7	62/15 73/16 120/15	conclusively [2] 8/7	continuing [2] 3/14	120/12 121/15	[1] 72/5
colds [1] 95/7	communications [1]	87/21	55/15	council [4] 11/9 62/21	
collation [1] 17/25	118/20	condition [7] 4/1 14/5	contracting [2] 25/25	72/9 72/19	danger [4] 37/6 44/14 44/18 81/7
collected [5] 14/22	community [5] 60/9 77/20 84/21 91/3	17/24 20/11 83/23 84/8 105/11	83/24 contradictory [1]	countries [3] 40/15 75/6 81/2	dangers [2] 45/25
20/12 66/10 74/25	107/15	conditions [2] 28/20	20/20	country [7] 9/7 28/25	59/17
120/24	companies [3] 63/4	83/18	contrast [3] 81/17	35/14 80/25 88/21	data [7] 49/12 66/21
collection [5] 17/25	88/15 114/8	conducting [1] 120/5	105/19 117/7	109/22 121/10	66/22 67/11 96/20
45/2 55/10 55/15 58/22	company [1] 99/5	confer [1] 48/3	control [11] 1/9 16/22	couple [7] 5/15 15/14	105/6 106/16
College [5] 65/19	comparatively [2]	conference [1] 19/14	16/23 33/3 49/14	58/12 87/14 91/13	date [12] 13/1 15/14
65/20 66/3 66/6 78/1	15/22 34/3	confirmed [4] 15/19	70/17 81/24 85/17	109/25 113/5	41/8 62/13 80/21 85/7
column [20] 6/12 13/9	compare [1] 79/14	70/14 82/3 96/6	86/9 91/25 107/9	course [20] 2/8 2/24	87/5 95/25 98/6
13/12 23/13 24/16	comparison [1] 16/10		convalescent [3] 10/3		101/20 101/23 115/2
34/11 35/13 42/22	compatible [1] 36/25	congress [1] 90/3	10/13 22/18	27/23 29/18 52/17	dated [8] 18/18 26/5
60/6 66/19 69/2 76/12	complete [1] 109/14 Completely [1] 122/1	connected [1] 110/6 connection [2] 10/1	convened [2] 11/13 37/25	53/25 55/18 58/18 71/10 74/7 81/20 85/3	34/7 51/22 54/16 72/9 77/6 91/1
91/4 91/12 92/6 95/5	complicating [2]	95/20	convenient [2] 37/17		dates [4] 4/7 52/18
95/6 105/3 107/12	75/14 78/10	consensus [2] 67/17	56/23	103/17	80/13 101/18
109/1	complication [6] 20/9	120/21	conversations [1]	court [1] 26/16	David [1] 27/13
Colvin [5] 73/17 73/24	22/25 24/23 40/18	consequences [3]	21/21	courts [1] 26/14	Davidson [1] 112/7
74/8 74/12 112/4 come [16] 5/15 14/3	46/13 82/19	50/9 74/22 75/9	convinced [1] 6/19	cover [2] 70/8 70/16	dawn [1] 48/14
17/24 36/8 44/20	complications [8]	consider [4] 62/2	copies [1] 2/13	Craske [19] 63/5	day [3] 2/9 122/11
53/19 55/14 59/7	30/9 44/1 50/1 70/21	88/18 94/7 101/13	copy [3] 62/19 100/4	72/10 72/13 78/1 93/4	123/4
80/25 81/1 91/17	78/6 80/1 106/20	considerable [5] 7/21	100/4	93/8 93/21 93/25	days [4] 46/16 46/22
105/8 111/6 112/21	106/22	35/17 37/1 72/25 87/14	core [7] 2/12 3/10 3/15 5/13 19/9 76/9	99/24 100/8 100/11	46/22 109/17 deal [3] 1/3 112/20
113/18 115/4	components [2] 96/14 118/2	considerably [1]	122/20	100/19 112/11 113/2 116/8 116/12 116/15	118/22
comes [3] 93/3	composed [1] 58/10	109/11	corner [1] 102/2	116/18 116/23	deals [1] 69/12
110/15 114/18	concentrate [8] 44/12			Craske's [3] 79/9	Dear [3] 18/23 54/14
coming [8] 2/23 3/8	74/13 79/3 89/24	49/10 50/5 67/17	84/23 92/9 110/10	93/17 119/12	72/13
43/15 43/17 56/10	95/18 96/21 104/8	71/20	correspondence [2]	created [1] 24/13	death [6] 10/7 20/8
71/11 73/12 111/7 comment [9] 14/19	110/7	considered [7] 10/8	2/6 108/8	criteria [1] 116/21	25/16 35/8 40/20 83/3
20/9 24/17 24/18 58/7	concentrates [21]	35/8 62/6 76/18 83/23	corresponding [1]	critically [1] 86/13	deaths [7] 10/5 25/13
60/20 66/3 105/18	44/18 59/15 60/2 62/4	104/11 114/7	16/1	crossed [1] 18/19	25/18 35/10 35/18
105/19	63/3 74/17 74/25 76/5	considering [3] 89/8	Cost [1] 62/14	cryo [3] 37/1 37/6	63/8 90/16
commenting [1]	76/14 76/21 76/23	94/4 120/4	Costa [1] 67/3	37/8	December [15] 9/12
65/20	83/7 96/13 98/15	considers [1] 42/11	Costa Rica [1] 67/3 could [83] 5/1 5/22	cryoprecipitate [8] 44/11 76/4 76/20	28/6 56/3 56/4 56/13 83/21 84/3 95/25 96/5
	98/19 98/25 100/23	consistent [2] 82/24	could [03] 3/1 3/22	77/11/0/4/10/20	00121 0710 90120 9010
				(3	7) clinicians December

D derivatives [3] 120/17 | 106/23 106/24 120/2 distribution [2] 45/3 47/11 54/22 55/12 120/23 121/2 DHSC0100008 [5] 9/8 discouraging [1] 117/15 57/18 58/10 58/11 December... [6] 97/4 derived [9] 7/5 25/25 15/9 18/17 19/12 114/5 disturbing [1] 91/19 58/14 58/15 58/18 97/7 98/6 99/4 99/5 27/17 32/14 47/19 21/18 discovery [1] 4/6 divide [2] 1/16 63/18 58/21 113/6 done [5] 3/6 17/1 60/2 64/10 64/11 DHSC0100010 [1] discrete [1] 4/14 division [1] 88/15 December 1981 [1] do [18] 1/12 1/20 97/16 26/4 discrimination [1] 21/10 115/6 115/6 84/3 describe [1] 31/4 DHSC0100024 [1] 48/2 12/16 26/10 37/4 53/6 donor [15] 7/5 30/22 December 1982 [1] described [8] 14/25 44/24 discuss [2] 38/1 54/5 56/1 88/5 88/11 30/23 32/3 32/20 97/4 45/14 79/19 84/14 DHSS [7] 9/11 66/6 108/5 95/8 99/12 100/10 32/21 41/15 41/16 December 1st, 1942 97/25 104/4 104/10 66/9 71/18 77/22 87/5 discussed [5] 76/2 103/7 106/24 108/23 44/7 44/16 74/24 [1] 9/12 113/2 115/23 116/2 110/4 122/14 77/15 88/11 113/19 107/9 December 21 [1] 98/6 describes [2] 29/25 diagnosed [2] 98/20 119/13 doctor [2] 42/20 54/14 121/7 December 9 [1] 95/25 85/2 104/14 discussing [1] 77/9 doctors [1] 9/13 donors [32] 32/16 decide [1] 9/17 diagnosis [7] 36/25 discussion [22] 9/11 document [43] 5/2 describing [1] 28/10 33/2 33/7 42/7 42/12 decided [2] 26/9 82/20 94/20 105/14 5/23 9/11 15/10 18/20 description [1] 113/4 16/6 65/11 67/24 42/17 43/1 44/15 45/8 43/23 deserve [1] 94/18 116/22 117/4 118/5 70/13 76/25 78/12 24/1 24/16 27/6 27/11 48/12 52/23 53/2 decision [4] 31/25 designation [1] 63/24 Diana [1] 77/4 78/13 89/14 90/11 27/21 28/1 31/14 36/6 53/11 54/23 57/11 120/10 120/13 121/11 designed [1] 95/18 **Dictionary** [1] 54/3 90/14 104/2 111/11 37/16 38/10 44/20 57/12 58/19 59/1 63/1 decision-making [1] desired [1] 9/3 did [2] 14/1 52/8 111/13 112/20 112/24 44/22 45/15 46/3 47/7 65/15 75/6 82/17 121/11 Despite [1] 82/17 didn't [1] 54/9 115/2 116/14 117/1 49/20 54/8 55/14 59/9 105/12 110/9 110/12 decisions [3] 60/13 detail [10] 3/2 3/6 die [2] 42/9 109/12 117/5 117/9 120/8 60/23 61/8 65/10 113/15 114/10 114/18 122/23 122/25 6/22 13/6 21/19 22/3 65/18 67/2 67/15 114/25 120/1 120/3 died [8] 20/6 20/24 discussions [5] 11/9 decreasing [1] 120/22 55/21 66/23 121/13 78/9 85/4 86/12 111/2 111/9 111/22 70/12 73/11 76/8 120/24 deduction [1] 58/7 122/22 105/13 113/9 113/20 120/18 77/25 80/14 87/7 doubt [7] 15/1 15/19 defects [1] 44/2 detailed [7] 2/14 7/25 Dienstag [2] 63/12 disease [68] 8/14 90/24 92/2 107/23 27/22 60/1 113/21 defence [1] 95/4 90/11 111/21 112/23 66/17 10/20 16/17 28/24 107/25 111/5 115/9 115/3 119/12 defend [1] 88/7 down [29] 6/4 7/13 115/1 122/19 different [14] 2/5 9/3 30/13 33/17 42/10 115/24 defer [1] 53/21 43/21 44/10 46/17 details [5] 36/19 documentaries [1] 8/22 12/1 13/15 16/5 16/16 20/21 30/7 deficiency [4] 52/11 33/22 58/5 67/7 71/3 47/23 86/14 108/7 50/7 50/16 62/1 63/21 20/16 20/17 24/17 93/5 93/19 117/24 59/13 64/21 65/22 79/24 82/4 82/5 64/12 64/19 64/24 documentary [12] 2/8 111/12 defined [2] 64/1 121/1 65/8 67/18 67/20 68/4 56/2 56/7 56/13 56/21 detect [1] 43/4 100/10 108/13 66/20 74/11 79/1 definite [2] 20/25 differentiate [1] 71/3 57/22 58/20 112/13 91/18 92/7 97/19 98/7 detectable [1] 49/9 68/10 68/15 69/17 23/21 detected [4] 40/11 difficult [2] 34/22 73/4 69/25 70/8 70/24 71/4 121/17 121/18 121/19 101/9 102/2 104/1 definitely [1] 8/17 dilemma [1] 60/19 47/12 47/20 77/15 71/9 71/24 72/6 74/21 122/6 107/13 108/20 109/1 definition [2] 53/24 detecting [1] 61/25 diligence [1] 99/12 75/8 75/13 75/13 documentation [4] 113/5 115/25 118/12 94/15 diminish [1] 47/9 determine [1] 22/24 77/17 78/10 78/13 5/25 27/12 43/15 121/4 delayed [2] 9/10 9/16 determining [1] 23/6 diminished [1] 47/24 78/18 78/24 79/7 66/14 Dr [107] 9/12 9/14 deliberate [2] 18/1 develop [4] 31/9 42/3 direct [2] 8/14 60/16 79/21 79/22 80/7 9/21 11/10 11/10 documented [1] 60/13 43/5 79/6 11/18 12/4 15/13 directed [2] 44/25 81/24 83/4 83/19 84/13 deliberately [1] 60/9 developed [8] 16/4 85/17 86/9 86/12 91/2 documents [14] 4/7 19/19 19/22 20/7 demands [1] 33/7 20/6 43/4 68/19 97/12 directly [3] 95/10 91/8 91/23 91/25 95/4 5/20 18/16 19/7 19/23 21/13 26/6 26/7 27/13 demonstrate [2] 8/6 105/11 109/5 113/23 96/20 107/18 96/9 98/21 103/18 29/21 32/7 55/17 38/9 46/7 47/8 48/7 99/11 105/4 105/13 107/1 56/18 68/21 77/2 89/3 51/21 51/21 52/1 52/2 developing [9] 3/20 director [6] 30/10 demonstrated [2] 3/24 4/2 39/22 52/13 102/4 110/21 110/22 107/8 107/10 107/14 110/18 116/15 52/6 54/5 54/19 57/19 25/12 70/9 84/12 92/11 104/7 109/5 109/13 109/23 does [4] 49/24 67/4 59/10 59/15 62/12 115/13 120/15 demonstration [1] 110/6 76/10 98/23 62/17 69/23 69/23 117/24 directors [23] 39/9 47/14 development [7] 43/14 43/16 43/22 diseases [5] 45/9 71/16 71/18 72/10 doesn't [4] 101/3 department [21] 102/19 103/14 108/12 29/22 30/16 63/16 79/10 92/24 93/11 65/1 75/1 114/4 121/3 72/13 73/17 73/17 21/22 28/3 28/5 37/25 67/20 68/4 73/8 90/18 93/15 93/15 93/20 disorder [1] 33/21 domain [1] 2/11 73/20 73/24 74/8 74/8 38/4 38/14 38/18 developments [2] 4/6 94/1 94/3 94/8 108/4 disorders [1] 74/10 domestic [1] 99/19 74/12 74/12 74/20 38/20 44/25 46/2 9/19 112/17 115/13 115/19 dispersed [1] 40/15 don't [20] 4/9 4/18 77/4 77/10 77/22 78/1 54/21 67/1 72/18 devised [1] 31/1 116/17 116/20 119/11 disposed [1] 26/16 5/15 13/13 26/15 79/9 87/7 87/8 87/10 72/21 73/5 77/5 85/11 **DGL [2]** 12/14 12/18 119/14 119/24 120/3 disproportionately [1] 29/24 36/7 36/8 45/11 87/13 90/6 93/4 93/8 87/3 88/25 108/1 DHSC0001203 [1] disability [1] 42/9 16/12 55/23 58/18 59/7 93/17 93/21 93/25 121/11 120/12 disablement [1] 40/19 disseminated [1] 84/10 88/2 100/3 100/11 100/19 102/4 departments [2] DHSC0002173 [1] 101/10 101/18 101/22 105/19 108/2 110/2 disclosed [1] 19/9 90/22 24/10 38/22 43/12 discontinue [2] 55/10 distance [1] 1/18 115/17 122/8 110/22 110/24 111/23 dependent [1] 75/5 DHSC0002191 [1] 65/14 distinction [1] 50/14 donated [1] 51/5 112/2 112/2 112/3 depending [1] 33/23 71/14 discounts [2] 100/14 distinguish [1] 31/2 donating [1] 114/6 112/3 112/3 112/4 depot [1] 12/18 DHSC0002219 [1] 101/2 donation [1] 54/18 112/5 112/7 112/7 distinguishing [1] derelicts [2] 45/8 87/4 discourage [1] 21/9 11/5 donations [14] 23/25 112/8 112/8 112/9 52/15 38/24 40/16 41/8 DHSC0002223 [2] discouraged [1] distributed [1] 25/8 112/9 112/9 112/10

(38) December... - Dr

D	Dr Leslie [1] 112/10	25/15 25/19 28/21	94/18	32/25 70/22 75/25	67/15
	Dr Ludlam [3] 112/3		emphasise [4] 11/15	75/25 86/22 95/15	existing [3] 77/17
Dr [22] 112/10 112/11 112/11 112/11	119/4 119/9	59/23 100/15 109/18	16/22 37/5 77/11	95/15 99/15	89/25 91/9
112/11 112/14 112/14	Dr Maycock [6] 26/7	duty [1] 17/22	EMS [1] 14/2	ethical [1] 78/18	exists [1] 89/19
112/15 113/2 116/8	38/9 46/7 47/8 48/7	dysfunction [2] 31/8	enable [2] 1/17 40/23	euphemism [1] 43/9	expect [1] 103/17
116/12 116/15 116/18	51/21	86/24	enabled [1] 2/19	European [1] 81/2	expected [4] 14/12
116/23 119/3 119/3	Dr Maycock's [1] 54/5	E	encompass [1] 29/10	Evans [2] 109/18	16/1 49/8 88/4
119/3 119/3 119/4	Dr Mayne [1] 112/7		encounter [1] 53/8	112/2	expenditure [1] 80/22
119/9 119/12 120/5	Dr McDonald [1]	each [3] 12/20 58/10	encountered [1]	even [6] 31/21 31/23	expensive [1] 74/13
Dr Aronstam [1]	119/3	96/10 earlier [8] 1/15 19/23	52/22	35/6 40/20 48/11 110/14	experience [3] 19/3 42/12 70/19
112/8	Dr Mibashan [1] 112/11	34/21 66/22 70/14	encourage [2] 95/18 107/5	event [1] 101/13	expert [3] 27/3 72/5
Dr Barrowcliff [1]	Dr Mitchell [1] 69/23	79/17 105/16 118/7	end [6] 55/25 57/19	events [1] 5/6	112/13
112/2	Dr Owen [1] 57/19	earliest [1] 41/7	67/25 83/14 101/10	eventual [1] 94/19	experts [2] 54/22
Dr Biggs [1] 52/6	Dr Panton [1] 11/10	early [7] 40/21 75/23	109/2	eventually [1] 105/13	59/21
Dr Bloom [1] 112/14	Dr Peter [1] 102/4	80/15 83/3 101/16	endemic [1] 75/2	ever [3] 30/24 53/19	explain [2] 95/13
Dr Bolton [1] 111/23	Dr Peter Foster [1]	117/12 118/19	England [9] 6/3 6/6	84/18	95/15
Dr Bradley [5] 9/21 11/18 12/4 15/13	90/6	easier [1] 6/16	11/1 62/15 83/22 84/4	ever-increasing [1]	explaining [1] 1/24
19/22	Dr Pool [1] 52/1	easiest [1] 15/9	84/12 106/5 114/12	84/18	explanation [1] 87/16
Dr Cash [2] 59/10	Dr Prentice [1] 112/9	easily [1] 55/8	English [1] 54/2	Evert [1] 118/20	explanations [1] 91/6
110/3	Dr Preston [1] 112/5	East [2] 74/2 74/3		7	explore [1] 121/12
Dr Cash's [1] 59/15	Dr Proger [1] 11/10	easy [1] 83/6	ensure [5] 2/15 2/18	42/14 44/8 50/16	explored [2] 3/8 4/12
Dr Colvin [4] 73/17	Dr Rizza [1] 112/3	eat [1] 56/15	28/20 37/6 120/4	81/13	exposed [2] 114/16
74/8 74/12 112/4	Dr Savage [1] 112/9	economic [1] 52/23 Edgecombe [1] 112/9	entirely [2] 87/17 103/10	everyone [2] 1/6 56/6	114/16
Dr Craske [16] 72/10	Dr Shinton [1] 112/14 Dr Stocks' [1] 20/7	edict [1] 121/9	entitled [6] 5/2 15/11	evidence [26] 1/8 2/22 43/17 48/25 49/7	exposes [1] 48/4 exposure [6] 48/25
72/13 78/1 93/4 93/8	Dr Taylor [1] 9/14	Edinburgh [2] 90/7	43/19 67/19 68/23	54/9 54/10 56/9 58/19	76/2 76/13 97/24
93/21 93/25 100/11	Dr Taylor's [1] 9/12	112/4	106/6	60/13 63/21 66/9	102/25 118/16
100/19 112/11 113/2	Dr Underwood [1]	editorial [3] 86/16	enzyme [1] 68/5	66/21 66/24 68/8	exposures [1] 44/17
116/8 116/12 116/15	69/23	97/19 114/12	epidemic [6] 7/7 16/8	71/11 75/24 77/7	expressed [2] 31/15
116/18 116/23	Dr Waiter [1] 71/18	Education [1] 45/1	16/11 17/17 103/19	78/23 78/24 82/22	48/6
Dr Craske's [3] 79/9	Dr Walford [3] 77/10	effect [1] 9/3	107/10	91/22 98/12 100/23	extended [1] 63/7
93/17 119/12 Dr Dane [1] 71/16	77/22 108/2	effective [1] 81/5	epidemiologic [2]	104/22 109/18	Extensive [1] 120/18
Dr David [1] 27/13	Dr Wensley [1]	effectively [2] 9/2	69/3 118/14	evidences [1] 57/9	extent [2] 21/21 117/1
Dr Diana [1] 77/4	112/11	101/21	epidemiological [1]	evident [1] 15/1	external [1] 60/3
Dr Drummond [1]	Dr Winfield [1] 112/11	effects [1] 100/16	21/2	evidently [2] 71/23	extract [2] 45/16
26/6	Dr Yellowlees [1]	efficacious [1] 31/21	epidemiology [3]	72/3	80/14
Dr Drury [1] 21/13	54/19 draft [2] 115/16	efficient [1] 45/2 effort [1] 81/13	64/17 78/2 100/25	evolve [1] 18/1 exaggerated [1] 60/15	extracts [1] 80/12
Dr Edgecombe [1]	116/13	eg [1] 55/7	episode [1] 6/23 equally [2] 31/21 55/6	exaggerated [1] 60/15 examining [1] 3/2	52/11
112/9	dramatised [1] 60/15	Eibl [1] 112/15	equipment [2] 39/6	example [3] 54/13	extremely [1] 81/5
Dr Eibl [1] 112/15	draw [5] 34/22 60/11	eight [4] 10/5 10/18	41/14	55/20 82/9	
Dr Evans [1] 112/2	72/16 94/22 116/18	68/16 70/7	error [1] 63/1	examples [3] 14/21	F
Dr Forbes [2] 119/3	drawing [3] 12/14	either [5] 7/6 26/22	es [1] 49/16	89/15 98/18	face [1] 60/19
120/5 Dr Foster [1] 119/3	30/4 79/8	95/11 107/18 109/8	especially [1] 32/25	exceeds [1] 35/20	faced [1] 15/5
Dr Garrott Allen [2]	drawn [3] 2/5 114/11	elevated [2] 65/2	essential [1] 87/18	Excelsior [2] 111/2	facilities [2] 18/3 39/4
51/21 62/17	116/12	78/14	essentially [3] 18/14	111/10	fact [6] 24/12 35/7
Dr Harold [1] 87/10	dried [3] 15/20 16/4	elevations [2] 68/5	62/16 67/16	except [3] 47/22 81/6	38/15 49/23 88/2
Dr Harold Jaffe [1]	25/4	68/7	establish [1] 20/13	98/16	106/10
110/2	drug [12] 45/8 55/7	elimination [1] 43/1 else [3] 18/13 101/10	established [4] 40/10	exception [3] 11/16	factor [41] 43/20 44/12 52/5 52/11
Dr Hill [1] 112/8	85/19 85/23 86/22 87/21 88/12 97/22	115/8	57/15 71/1 91/1 establishment [3]	23/17 119/25 excerpts [1] 2/8	59/15 60/2 62/4 70/7
Dr Holgate [1] 87/8	100/21 108/21 117/21	elsewhere [3] 7/17	35/23 36/4 53/1	exclude [2] 17/14	70/16 71/8 72/22 76/2
Dr J [1] 62/12	120/14	77/13 97/8	estimate [1] 35/14	76/24	76/5 76/14 76/21
Dr Joe [1] 87/13	drugs [5] 87/24 88/9	Elstree [1] 46/9	estimated [2] 16/10	excluding [3] 33/1	76/23 78/3 79/2 79/3
Dr Judith Pool [1]	95/15 108/24 120/16	elucidated [1] 62/1	35/4	47/11 65/15	81/8 83/6 85/16 87/9
52/2 Dr Kernoff [7] 73/17	Drummond [1] 26/6	emanating [1] 97/3	Estimates [1] 35/2	exclusion [1] 48/12	87/15 87/24 88/6
Dr Kernoff [7] 73/17 73/20 74/8 74/12	Drury [1] 21/13	emergence [1] 29/19	et [11] 10/15 32/25	exercised [1] 28/19	88/14 88/20 89/24
74/20 110/22 110/24		Emergency [1] 9/9	70/20 70/22 75/25	exhibited [1] 88/1	96/13 99/1 99/7 99/8
Dr Kernoff's [1]	1 27/22 52/25 74/24	emerging [1] 30/1	75/25 86/13 86/22	exist [1] 43/7	104/8 109/6 110/7
	27/23 53/25 71/24	4			
105/19	94/7	emotive [1] 119/15	95/15 95/15 99/15	existence [5] 51/7	110/15 113/11 114/15
			95/15 95/15 99/15 et cetera [9] 10/15	existence [5] 51// 61/18 66/1 67/11	110/15 113/11 114/15 117/19 119/16
	94/7		•		

_				FAMS 10/00	00117 10710 10111
<u>F</u>	fever [11] 4/25 5/5	following [27] 7/17	frequency [3] 15/2	given [17] 10/20	80/17 107/8 121/14
Factor IX [4] 52/11	5/10 6/9 6/20 7/1 7/18 7/23 8/8 10/10 16/8	10/17 12/3 12/8 13/21 14/6 18/25 19/16	22/12 68/13	20/19 33/19 40/5 41/5 50/5 58/24 62/24	GP [1] 41/18
62/4 72/22 99/7	few [9] 69/18 78/17	22/18 23/7 38/4 38/20	frequent [2] 40/8 102/25	67/17 70/16 72/20	Grant [1] 30/10 grateful [3] 3/10 5/13
Factor VIII [31] 43/20	78/19 81/6 94/19	40/9 41/6 47/14 51/16		72/24 86/14 110/8	76/8
52/5 59/15 60/2 70/7	107/13 109/14 109/16	61/23 64/10 64/11	18/25 47/3 49/24 50/4	110/11 121/25 122/2	grave [2] 13/20 107/4
70/16 71/8 76/2 76/5	121/21	64/14 64/14 86/6	52/22 64/9 64/13	gives [3] 28/14 30/24	great [5] 26/19 36/23
76/14 76/21 76/23	fibrinogen [1] 62/4	86/20 93/6 96/4 98/1	95/17	47/23	43/23 53/4 112/5
78/3 79/3 81/8 87/9	field [4] 15/13 31/17	123/4	fresh [1] 98/13	giving [2] 1/8 32/24	greater [10] 15/23
87/15 87/24 88/6	34/15 45/4	follows [1] 14/20	friends [1] 95/8	glance [1] 92/5	17/14 23/1 42/17 43/3
88/14 88/20 89/24	fifth [4] 13/15 65/17	Food [1] 120/14	from [196]	Glasgow [1] 116/12	53/21 94/20 106/17
96/13 99/8 104/8	75/22 115/24	Forbes [2] 119/3	frozen [1] 98/13	globulin [2] 36/16	109/12 114/15
109/6 110/7 110/15	figure [1] 57/25	120/5	full [1] 56/17	44/11	greatest [1] 15/21
113/11 114/15 119/16	figures [6] 20/7 23/9	force [2] 98/23 110/2	fully [1] 36/25	go [108] 1/18 5/11	grounds [1] 71/4
factors [11] 6/22 51/24 51/25 53/5	24/24 35/2 36/1 59/5	forced [1] 45/6	fulminating [1] 78/12	5/22 7/9 8/1 8/19 8/21	group [11] 38/5 38/8
54/25 78/10 103/11	files [1] 45/22	forces [3] 7/16 10/12	function [3] 31/1 70/3	9/7 12/1 13/6 14/18	38/18 54/22 63/6
103/15 104/18 108/25	filtered [1] 26/22	21/23	75/21	16/5 16/13 17/18	65/12 76/9 79/4 95/16
118/3	filtration [1] 26/10	foreign [1] 75/6	functioning [1] 43/9	20/15 20/16 21/6	103/8 119/2
Factors IX [1] 51/25	final [3] 21/6 114/19	foreshadowing [1]	furore [1] 88/5	21/17 21/18 23/13	group's [1] 39/7
Factors VIII [1] 51/24	115/17	66/12	further [19] 14/18	24/1 24/15 25/1 26/14	groups [11] 52/23
faecal [1] 46/18	finally [3] 69/19 77/24	foreword [1] 15/16	15/4 16/24 19/5 20/17	27/5 28/16 29/20	52/25 55/6 57/13
failure [1] 52/17	109/3	forgive [1] 87/16	36/6 45/13 55/18	30/11 31/13 35/12	86/20 86/21 89/22
fair [1] 81/16	find [1] 93/8	forgotten [1] 23/20	59/13 68/20 73/6 77/2	36/10 36/20 36/22	96/10 102/11 104/5
fairly [3] 19/13 81/16	finding [3] 31/11	form [15] 13/17 24/21	82/10 82/13 83/15	37/10 38/10 38/12	120/20
87/20	61/15 89/25	40/8 41/12 46/19	91/13 94/14 98/7	39/14 39/24 40/12	growing [1] 74/16
fall [1] 110/4	findings [5] 23/11	48/15 50/10 53/6 63/4	118/2	40/24 41/1 41/14	guess [2] 36/1 102/17
falls [2] 3/18 8/16	36/24 71/12 76/1 118/14	72/23 77/15 115/9	Furthermore [2] 65/24 118/13	42/22 43/12 47/6 48/19 49/20 52/24	guidance [1] 28/14
familiar [1] 56/6	Findlay [3] 6/7 6/14	116/13 116/14 116/18 formally [1] 86/8	future [4] 19/1 37/9	54/7 55/1 59/13 61/6	Gunson [1] 87/10
family [2] 32/20	6/19	formed [1] 38/8	60/22 90/14	63/13 64/6 64/20	Н
105/25	finds [1] 50/21	former [1] 64/14		65/10 65/17 66/18	had [54] 2/17 5/10 6/9
far [16] 10/25 17/11	finish [2] 1/13 122/15	forms [5] 25/22 44/3	G	66/23 67/14 67/22	6/24 7/14 9/2 9/3 9/5
21/1 21/21 31/10	firmly [1] 6/19	46/14 50/7 71/3	Garrott [6] 32/8 41/23	68/11 68/25 70/11	9/16 9/25 11/1 11/13
33/20 53/13 74/22	firms [1] 53/10	forward [1] 100/13	51/21 51/23 62/12	71/14 72/7 73/10	11/18 11/20 12/17
78/20 79/21 81/2	first [43] 2/24 3/19 4/3		62/17	73/19 73/23 74/5 76/7	13/19 19/22 20/3
91/21 94/20 101/11	6/13 10/17 14/25	found [9] 23/15 41/15	Garrott Allen [1]	76/11 80/13 82/5	20/20 20/25 23/4
110/14 114/2	15/16 16/6 19/24	64/13 70/23 71/25	62/12	83/12 83/20 84/1 86/7	25/15 25/16 27/4
fast [1] 45/2 fatal [7] 22/23 24/22	21/15 24/6 28/16	72/22 73/13 97/16	Gastroenterology [1]	86/15 89/13 90/2 90/9	30/24 47/19 48/12
31/9 36/18 42/13	35/22 38/9 39/11 42/3	110/3	67/19	91/12 93/2 93/16	62/24 68/5 68/17
52/14 77/16	43/19 46/11 46/11	Foundation [5] 95/25	gave [7] 9/21 10/6	96/15 97/5 97/6 97/18	68/18 71/5 75/20
fatalities [1] 16/11	49/17 49/21 64/25	98/6 99/18 117/8	58/23 79/12 105/13	98/4 98/7 99/22	75/22 84/9 85/22 93/4
fatality [1] 18/25	68/7 69/5 77/2 78/5	120/20	110/24 113/3	100/18 101/24 102/6	93/20 93/25 94/1
father [1] 109/19	81/21 82/16 84/7 85/9	four [7] 3/19 58/11	gay [3] 84/24 88/9	103/25 104/1 105/21	99/24 103/11 105/12
fault [1] 122/1	89/15 91/4 92/8 92/25	96/6 105/14 108/18	95/4	106/4 106/7 111/12	109/8 109/19 113/10
FDA [2] 120/13 121/9	94/17 94/19 99/20	109/7 121/17	general [5] 8/25 9/18 11/22 12/10 106/3	111/14 111/23 111/25	113/17 113/23 115/21 116/7 116/12 116/15
fears [1] 119/21	100/14 101/18 109/23 110/19 111/25 116/5	four minutes [1] 121/17	generally [4] 22/16	112/22 113/5 115/15 118/11	119/10 119/13
features [3] 69/3	fit [1] 92/2	fourth [6] 4/5 13/7	46/16 73/2 84/20	goes [5] 31/4 50/17	Haematologists [2]
78/17 86/17	five [5] 39/12 64/13	21/6 24/15 95/5 95/6	geographical [2]	60/20 80/6 87/22	73/22 74/1
February [10] 29/25	82/2 104/9 113/9	fractionated [1] 121/1		going [31] 1/3 2/22	Haematology [1] 90/5
72/10 72/16 79/15	flagged [1] 76/8	fractionation [5]	Georgia [1] 107/9	3/1 3/5 4/5 4/17 4/23	haemodialysis [1]
80/15 109/21 115/14	focus [2] 5/7 18/15	61/22 82/18 85/12	German [1] 79/19	5/11 5/14 9/24 12/25	67/8
115/20 117/2 119/13	focusing [1] 5/20	90/12 114/8	Germany [1] 67/4	21/18 22/3 29/20	haemolytic [1] 113/23
February 1965 [1]	follow [15] 10/2 11/2	fractions [1] 44/9	get [5] 4/18 49/1	36/20 37/10 53/20	haemophilia [61] 4/21
29/25	12/16 14/8 17/22	Francisco [5] 97/8	103/7 103/16 112/6	54/4 54/25 55/17 56/8	43/14 43/16 43/21
February 1979 [1]	17/23 20/23 23/4	97/12 104/15 113/22	getting [2] 102/12	59/9 73/10 83/20	43/22 44/10 62/24
79/15	23/10 24/19 25/3	117/25	102/24	99/18 105/21 110/18	63/7 73/21 75/14
federal [1] 33/2	35/23 36/4 49/5 50/3	free [10] 21/3 70/7	give [12] 5/14 7/10	111/12 112/20 118/21	75/20 76/6 79/10
Federation [1] 116/3 feel [3] 26/10 67/10	follow-up [4] 17/23	71/2 73/17 81/3 102/5	31/20 41/18 53/4	122/21	82/20 85/14 85/15
98/14	23/10 25/3 49/5	110/22 110/23 112/10		good [2] 21/3 56/19	86/11 89/6 89/11
feeling [2] 28/4 32/4	followed [5] 8/12	115/19	59/20 79/13 85/4	got [1] 26/25	89/20 89/21 90/15
	13/25 15/3 67/10 68/3	freedom [1] 81/11	88/13	Government [4] 2/5	91/17 92/24 93/10
				1 4	0) Factor IX - haemophilia
				{4	ui raciui IA - Haemophilla

u	80/15	14/19 16/21 21/7	107/20 114/23 117/16	Holgate [2] 87/7 87/8	44/11 61/19 62/2
H	happen [1] 81/15	23/14 24/17 25/2	hepatitis C [4] 4/7	home [6] 28/3 28/5	85/11 102/1
haemophilia [36]	harboured [1] 61/20	30/12 30/14 31/17	49/19 66/2 68/9	38/19 76/19 106/12	humanised [1] 10/3
93/14 94/3 94/8 96/3	Hardisty [1] 112/5		hepatitis' [1] 69/10	119/8	hundreds [1] 85/21
96/7 97/22 98/5 98/21	Harley [1] 77/4	70/12 74/6 78/5 80/1	hepatitis-associated	homologous [24]	Hygiene [3] 5/6 34/10
99/17 99/19 99/20	Harold [3] 87/10	80/6 81/25 86/16	[4] 38/6 38/25 39/17	13/3 14/21 15/11	34/14
101/17 102/3 102/4	105/21 110/2	89/14 95/4 108/16	40/1	15/18 16/7 16/11	Hyland [1] 52/5
102/21 103/12 104/6	Harold Jaffe [1]	health [44] 13/5 13/19	hepatitis-producing	18/11 18/23 21/24	hypothesis [4] 89/25
104/10 106/7 106/22	105/21	14/20 15/6 18/6 18/7	[1] 68/14	21/24 21/25 22/8	98/3 104/20 105/22
108/4 110/23 110/25	has [51] 8/6 8/13	19/14 19/21 20/1	hepatoma [1] 50/3	22/21 23/7 24/4 25/5	
112/17 115/13 115/18 116/3 116/17 117/8	11/18 14/5 14/9 14/24	21/22 22/15 24/10	her [3] 1/9 52/6 108/2	25/18 26/1 26/12	<u> </u>
117/18 119/1 119/10	15/3 15/19 18/18	24/14 26/8 27/1 27/4	here [24] 6/2 7/4	26/14 26/18 28/25	l am [12] 5/11 5/12
119/19 120/6 120/20	21/21 22/11 23/22	27/8 28/3 28/5 37/25	19/24 21/23 22/9	30/14 30/16	5/14 5/24 18/25 29/20
122/18	24/11 24/13 24/21	38/5 38/14 38/18	23/17 26/25 36/24	homosexual [9] 85/22	
haemophilia A [1]	26/11 31/1 46/15	38/19 38/22 39/11	46/1 46/24 46/25 47/2	86/21 87/21 97/21	73/10 118/21
96/3	47/22 51/7 51/9 52/11	43/11 45/1 45/4 46/3	54/7 68/1 72/8 80/14	100/15 107/15 108/20	l asked [1] 57/19
haemophiliac [6]	52/15 53/24 54/21	67/2 72/18 77/5 80/20	81/25 85/8 90/3	108/23 113/19	I begin [1] 102/20
36/14 37/2 37/13	59/6 61/13 61/17	84/15 85/11 87/3	100/19 105/18 106/5	homosexuality [1]	I can [3] 1/24 26/10
70/18 86/25 116/6	63/20 64/12 66/9	88/25 104/3 105/2	108/14 118/9	108/22	92/1
haemophiliacs [42]	66/24 66/25 72/19	106/1 107/5 108/1 121/11	heterosexual [2]	homosexuals [6] 82/3	I do [2] 26/10 88/5
53/13 69/25 70/2	72/24 81/8 83/17 85/3 86/3 87/11 90/16	healthy [4] 8/15 31/25	85/18 95/16	93/22 95/12 107/20 114/5 120/1	I don't [11] 4/9 4/18
70/16 70/22 71/7	90/17 96/6 97/11	83/24 114/24	95/14	Hoofnagle [2] 61/3	13/13 26/15 45/11
71/24 72/3 76/16 81/7	100/4 101/20 104/12	hear [3] 43/17 56/9	high [19] 5/7 18/24	68/23	84/10 88/2 100/3
81/9 82/23 83/5 87/25	104/20 107/14 110/3	121/13	19/14 35/6 42/21 53/8	hope [3] 1/11 53/3	101/10 115/17 122/8
90/21 93/23 95/17	122/20	heard [2] 2/22 77/6	53/10 55/4 55/6 61/23	87/19	I draw [1] 60/11
96/9 102/23 103/4	have [172]	hearing [2] 4/14 44/21		hoped [2] 21/1 120/1	I emphasise [2] 11/15
103/7 103/10 103/11	having [4] 11/8 30/24	hearings [2] 4/13	68/15 72/20 84/15	hoping [1] 26/25	16/22
103/16 103/19 105/15	31/23 44/3	60/22	94/24 104/5 105/17	Horizon [1] 121/18	I have [6] 15/10 18/23
105/20 106/3 106/10 106/19 107/5 107/11	hazard [5] 30/17	heated [1] 47/23	high-risk [4] 53/10	hospital [19] 12/11	26/9 28/4 60/25 100/7
107/15 107/20 108/24	32/23 33/9 33/25 63/9	Heathrow [2] 111/3	61/23 62/5 104/5	12/20 14/2 28/6 28/8	I hope [2] 1/11 87/19
109/5 110/4 110/8	hazardous [2] 34/25	111/10	higher [5] 23/24 25/9	28/13 29/14 39/1	I just [5] 61/6 66/7
110/13 113/8 114/14	52/12	heightener [1] 100/15		71/17 73/18 75/16	71/20 72/16 94/22
116/11	HB [3] 49/2 49/8 52/17		highlight [3] 6/13 6/15		l looked [1] 53/20
haemophilias [1]	HCDO0000410 [1]	21/16 21/21 43/23	13/14	110/11 110/22 110/23	I might [3] 28/4 54/10
116/20	92/23	111/2 111/9 115/19	highlighted [2] 17/21	112/4 115/19	100/2
haemophilic [2] 63/3	HCDO0000411 [1]	help [1] 43/2	62/19	hospitals [5] 9/17	I must [1] 77/11
85/16	115/15		highly [2] 96/6 111/5	12/15 14/6 45/6 82/4 hotel [4] 110/18 111/2	I note [2] 92/1 92/4
haemorrhage [2] 32/1	HDN [1] 113/17 he [49] 11/20 12/6	Hence [1] 64/3 Henry [36] 5/1 5/22	Hill [1] 112/8 him [2] 48/5 94/1	111/10 111/22	I realise [1] 99/8
70/19	19/7 20/6 20/13 21/1	6/4 6/12 7/9 7/24 8/20		how [14] 4/17 9/17	I referred [1] 27/12
HAHG [1] 44/12	30/23 30/23 31/22	8/22 13/1 13/8 13/12	31/19 32/3		I regret [1] 80/21
Haitian [1] 108/22	32/4 34/16 34/21	14/19 15/8 18/9 18/17		31/4 40/25 71/12 93/3	
Haitians [1] 85/2	41/17 42/2 45/25	18/20 19/11 20/16	30/25	95/11 103/11 120/4	I said [1] 5/21
half [12] 4/3 6/8 7/13	53/14 53/15 53/15	21/7 21/18 22/4 23/13		121/9	I say [2] 44/20 122/7
52/13 52/18 56/16	57/19 59/25 60/20	24/2 24/15 25/1 26/4	his [18] 1/8 12/4	however [15] 8/10	I should [3] 3/1 38/14
58/10 81/19 88/14	79/11 79/12 79/15	26/24 28/17 29/24	31/23 41/18 42/20	14/7 15/1 24/11 30/3	74/7
89/13 95/6 104/2 halfway [7] 6/4 20/16	79/17 79/19 79/23	30/12 32/6 34/6 34/11	42/23 54/9 54/10	60/3 78/16 81/13	I think [20] 5/22 7/11
64/21 65/22 74/11	79/24 79/25 80/1 80/5	35/13 36/7 36/22	60/13 63/6 63/7 73/20	87/24 88/13 91/21	10/22 18/11 31/14
92/7 97/19	90/13 93/4 93/8 100/5	hepatic [6] 20/23	73/24 79/18 90/7	98/14 99/10 102/17	32/9 32/11 49/17
Hamilton [1] 112/3	100/12 100/13 100/13	20/24 23/1 31/9 55/20	103/20 109/19 113/16	114/17	50/20 53/17 53/22
hand [15] 6/12 13/9	101/1 101/2 101/3	82/21	histological [1] 78/22		56/24 57/24 68/20
13/12 23/13 24/16	101/4 101/6 101/12	hepatitis [225]	Histologically [1]	80/11	73/13 78/2 99/24
34/11 49/22 57/21	102/19 105/12 109/19	hepatitis A [3] 51/11	68/16	HSOC0016685 [1]	100/12 112/6 121/15
66/19 69/1 76/11 91/4	112/9 113/3	52/20 63/17	histology [1] 75/21	60/24	l understand [2] 1/10
105/3 107/12 109/1	he'd [1] 80/5	hepatitis B [23] 29/23		HSOC0016695 [1]	88/16
handicap [1] 20/10	he's [2] 62/20 80/3		history [5] 9/21 30/24	60/24	I want [2] 30/3 58/3
handwritten [1]	headed [12] 9/9 22/6	49/2 49/14 50/1 51/3	65/15 85/19 108/22	human [22] 7/3 7/4	I wanted [1] 59/4
107/24	32/9 34/11 36/13 41/2	55/4 65/13 65/25	hitherto [1] 31/25	8/12 8/16 9/1 9/23	I was [2] 27/13 27/17 I will [6] 7/9 24/6
handy [1] 15/10	46/9 54/18 59/14 62/14 65/18 91/2	75/24 77/14 91/10 95/12 100/25 101/7	HIV [3] 4/3 66/14 82/12	10/1 10/15 11/6 13/18 15/3 16/4 18/12 18/15	44/21 85/4 101/12
Hansard [2] 80/12	heading [25] 8/4 13/8	102/13 102/15 102/24		22/19 22/20 27/20	112/6
	Juding [20] 0/7 10/0	132/10 102/10 102/24		10	. 1
			i		

47/22 13/4 13/14 13/14 15/9 increase [2] 16/1 33/5 95/7 97/23 98/3 interested [6] 27/16 immunologic [1] increased [12] 33/8 100/24 101/3 102/14 29/23 37/14 45/12 15/10 15/13 18/14 I won't [9] 4/15 8/1 86/17 44/19 57/16 57/18 103/1 105/23 107/17 54/6 73/13 18/19 22/6 22/16 13/6 19/8 36/20 38/10 immunological [1] 60/10 96/11 96/21 114/4 115/10 121/3 interim [1] 39/19 23/11 24/2 24/5 26/5 66/23 82/5 122/21 120/6 98/9 103/4 104/6 infective [3] 8/15 internal [6] 5/24 8/2 26/7 27/21 28/10 I would [1] 53/3 immunologist [1] 105/9 120/25 30/24 40/3 8/20 9/11 68/22 87/4 29/21 30/8 32/9 34/9 I'd [1] 103/17 116/23 increasing [4] 16/3 **inference** [2] 58/8 internally [1] 21/22 38/7 38/10 39/15 41/1 I'II [3] 43/18 68/1 immunosupressive 22/11 77/19 84/18 59/6 international [4] 27/8 41/23 43/19 44/20 102/7 [1] 100/16 incubation [12] 7/6 inferential [1] 59/5 90/3 90/4 90/5 45/3 51/22 53/17 I'm [20] 4/16 4/23 5/20 22/7 23/8 34/3 46/15 53/19 53/20 54/6 impending [1] 107/10 inferred [1] 82/20 interval [1] 15/18 5/23 6/18 10/23 26/24 implement [1] 39/6 46/21 48/24 49/13 infirmary [1] 36/13 interview [2] 102/3 54/13 56/8 58/19 27/4 37/10 53/20 implemented [2] 9/2 51/3 69/7 92/13 114/1 influenza [1] 35/10 110/25 59/10 59/12 59/14 53/20 60/24 76/7 65/22 incurred [1] 23/1 inform [1] 117/6 into [24] 2/11 3/19 4/6 61/2 61/20 61/22 79/25 83/20 100/5 implicated [1] 26/15 incurring [1] 89/20 information [21] 7/19 7/2 11/14 20/2 22/3 62/14 62/15 67/5 111/11 112/6 112/20 11/4 13/19 17/25 19/6 35/1 50/21 56/15 60/1 implication [1] 113/11 indeed [3] 3/16 62/17 69/24 71/15 71/17 121/25 implications [2] 94/4 83/3 20/11 20/14 21/5 60/9 63/18 66/23 81/8 72/9 72/10 72/15 I've [4] 26/25 53/19 122/25 independently [1] 39/20 54/16 80/21 93/21 106/25 107/3 73/11 73/16 73/20 121/25 122/2 imply [2] 49/25 20/12 86/1 87/12 88/23 110/4 111/12 119/21 73/22 77/5 78/2 81/16 i.e [1] 114/22 118/16 index [1] 34/19 90/20 93/5 93/10 121/1 121/23 122/5 84/11 84/14 85/6 icteric [2] 50/4 52/12 imponderable [1] indicate [1] 94/22 103/13 115/2 116/9 intravenous [4] 85/19 85/10 87/5 87/7 87/17 icterogenic [2] 14/17 52/15 indicated [3] 24/21 97/21 100/21 108/21 88/24 89/3 89/15 117/3 48/1 informed [3] 9/18 import [1] 60/1 114/21 116/4 introduce [1] 98/14 92/25 95/5 96/1 98/1 idea [4] 56/19 59/1 importance [8] 12/6 indicates [1] 114/13 41/19 72/19 introduced [2] 7/2 99/20 100/19 102/6 101/3 103/18 98/19 12/19 14/23 16/3 indication [1] 98/17 infusion [3] 77/12 102/13 103/10 103/17 identifiable [1] 65/8 24/14 35/25 49/25 indications [3] 25/24 103/3 106/12 introducing [1] 75/1 103/22 103/23 115/24 identification [4] introduction [4] 9/23 35/18 78/19 infusions [2] 102/25 117/12 121/16 121/22 23/24 49/15 50/8 82/1 important [16] 4/19 indicators [1] 63/17 105/10 11/6 22/9 104/7 122/4 identified [10] 39/22 indirect [1] 60/16 investigation [7] 8/1 italics [1] 32/12 12/22 22/23 27/21 inhibitors [1] 43/25 47/2 49/4 49/19 55/8 28/24 29/21 33/25 8/24 24/19 25/13 ITN [1] 59/23 indistinguishable [1] inimical [1] 111/20 55/9 67/8 89/19 96/3 37/5 43/10 51/20 56/9 initially [1] 109/12 its [19] 4/24 5/4 13/2 22/17 104/17 118/6 118/14 105/16 individual [6] 3/3 3/5 62/2 71/8 77/21 96/19 inject [2] 95/14 107/5 investigations [3] 23/7 27/20 33/5 37/6 identify [1] 73/7 injected [4] 10/6 81/8 38/7 38/9 38/15 38/25 120/10 17/11 58/15 110/10 8/11 9/14 16/9 identify/characterise imported [3] 80/22 115/4 95/17 102/16 investigative [1] 8/24 41/10 50/16 50/21 [1] 73/7 individuals [7] 72/1 88/15 107/3 injection [6] 8/12 15/3 investigators [2] 62/1 73/9 103/15 if [168] impossible [1] 71/2 83/24 85/23 86/19 15/18 40/9 51/11 61/18 91/7 115/5 119/20 ifs [1] 103/3 90/22 91/17 105/17 improved [1] 83/5 88/10 invitation [2] 72/8 itself [3] 6/21 73/11 **IH [1]** 46/19 in 4.5 per cent [1] inducing [1] 24/12 injections [1] 51/6 72/15 106/22 ii [1] 39/2 invitations [1] 72/11 iv [4] 41/14 85/23 25/6 ineffectiveness [1] innocent [1] 14/16 iii [1] 39/5 in May 1977 [1] 67/19 52/16 inquire [1] 13/23 invite [1] 116/23 86/22 117/21 ill [1] 86/13 in September 1982 [1] inevitable [2] 59/17 Inquiry's [1] 4/13 invited [2] 41/18 44/4 IX [9] 44/12 51/25 illness [6] 49/24 92/22 99/11 insert [1] 99/14 involved [8] 6/22 74/8 52/5 52/11 53/5 62/4 51/13 64/23 97/25 inadequate [1] 45/5 infant [4] 97/12 instance [1] 2/24 86/2 88/6 88/20 93/25 72/22 78/3 99/7 118/16 118/18 104/12 105/10 117/23 100/1 106/18 inappropriate [1] 75/3 instances [3] 42/19 illnesses [2] 78/8 involvement [2] 94/11 incidence [14] 22/7 infant's [1] 97/25 67/9 78/11 80/3 J Garrott [1] 32/8 22/24 23/6 25/5 26/11 infants [2] 98/20 instead [2] 32/24 116/25 immediate [1] 16/2 26/18 29/1 33/23 Jaffe [3] 105/21 110/2 109/7 32/25 involving [3] 93/14 immediately [2] 87/2 110/5 40/17 40/23 43/24 infected [3] 51/10 institute [1] 121/5 112/16 113/13 121/5 is May 1976 [1] 62/13 Jameson [2] 18/21 44/5 47/9 116/5 57/11 81/14 instituted [1] 23/5 immigrants [1] 19/25 infection [17] 2/2 44/7 incidents [1] 13/11 institution [1] 40/16 isn't [1] 105/21 108/23 January [20] 13/2 include [3] 99/6 44/14 44/19 49/8 50/2 institutions [2] 21/13 isolated [2] 13/24 immune [4] 86/23 26/5 51/23 59/13 107/15 119/2 57/17 63/17 65/6 55/11 50/24 93/5 93/19 117/24 71/15 71/15 84/11 included [4] 39/8 75/24 81/4 81/12 instructive [1] 8/19 issue [14] 2/14 5/14 immunisation [1] 69/10 112/2 113/14 97/14 109/14 117/16 insufficient [1] 96/20 5/17 5/18 7/4 12/14 101/21 103/22 104/23 includes [1] 94/15 117/25 119/21 insurance [1] 43/7 12/22 26/11 26/20 105/2 106/6 107/1 immunised [1] 53/11 including [13] 19/19 infections [13] 35/11 intended [3] 29/9 33/15 60/22 83/8 108/10 108/15 110/17 **Immuno [3]** 110/21 19/21 27/7 67/8 70/9 50/4 79/20 79/22 31/15 41/17 111/3 112/25 114/13 106/1 119/15 112/14 112/19 115/12 84/19 85/1 85/14 89/5 issued [2] 23/3 26/17 70/24 82/25 93/23 inter [1] 13/23 Immuno's [1] 111/5 January 16 [1] 13/2 97/15 105/24 113/18 89/10 89/17 90/17 interchange [1] 21/4 issues [3] 9/25 90/12 immunodeficiency [6] January 1979 [1] 114/5 114/22 92/7 92/12 intercharge [1] 21/4 94/6 90/18 91/23 97/10 infectious [21] 34/12 it's [97] 2/10 3/1 5/5 71/15 inclusion [1] 99/14 intercourse [1] 97/13 108/16 113/1 35/7 43/4 46/17 47/4 incorporated [1] 3/12 100/16 5/16 6/15 8/2 8/19 January 1983 [1] immunoglobulin [1] 104/23 incorrectly [1] 60/25 51/2 62/3 91/8 91/20 interest [1] 112/18 8/21 9/10 9/11 13/2

(42) I won't - January 1983

8	just [50] 1/6 1/24 5/11	118/3 121/2	76/11 91/4 101/2	58/12	54/13 60/12
J	6/2 10/12 12/1 15/14	knows [1] 1/6	105/3 109/1	litres [2] 57/25 58/2	Lord Owen's [1] 77/7
Japan [1] 67/3	17/23 18/10 20/16	Konyne [1] 52/10	left-hand [9] 13/9	little [6] 1/15 31/22	Lords [1] 80/19
jaundice [75] 4/24 5/2	21/7 21/19 23/13 24/1	Korns [1] 24/6	24/16 34/11 49/22	37/16 56/17 62/11	Los [3] 52/6 82/1 82/4
5/8 6/6 6/10 6/20 6/24	24/6 24/17 25/2 33/14	KS [2] 84/18 89/16	66/19 76/11 91/4	99/8	Los Angeles [3] 52/6
7/8 7/16 7/22 8/10 9/4 9/10 9/16 9/22 10/1	43/18 45/15 45/16	1	105/3 109/1	liver [40] 31/1 31/8	82/1 82/4
10/2 10/5 10/7 10/11	46/10 48/19 50/25	<u>L</u>	legal [2] 58/6 122/21	34/19 50/7 50/10	lost [1] 32/3
10/14 10/17 10/19	57/6 57/23 59/4 59/11	labelled [2] 33/8	legible [1] 89/3	67/20 68/4 68/5 68/7	lot [1] 57/9
10/24 11/6 11/14	61/6 62/11 62/18 66/7	39/23	lengthy [2] 38/7	68/10 68/15 69/16	lots [1] 7/23
11/24 12/8 12/18 13/4	68/1 71/20 72/16	Laboratories [1] 52/5	116/14	69/25 70/3 70/6 70/8	low [1] 42/21
13/17 13/20 14/10	73/19 79/13 79/14	laboratory [11] 21/1 29/13 39/11 40/11	Lesesne [1] 70/20 Leslie [1] 112/10	70/15 70/21 70/23	lower [1] 52/22
14/21 14/25 15/11	92/1 92/4 93/15 94/16 94/22 97/19 101/9	46/8 48/7 51/22 61/2	less [9] 14/16 30/17	71/3 71/9 71/24 72/6 75/13 75/18 75/20	ludicrous [1] 103/19 Ludlam [3] 112/3
15/12 16/1 16/2 16/7	102/7 102/17 107/22	70/17 73/1 73/2	40/14 49/23 50/13	76/15 76/22 77/17	119/4 119/9
16/9 16/12 16/19	114/21 115/14	Lancet [14] 11/20	57/11 63/23 64/23	77/18 78/13 78/18	lunch [6] 56/15 56/16
16/24 16/25 17/16	Justice [1] 18/4	12/5 12/25 13/3 15/6	74/23	78/19 78/24 79/6	56/17 56/18 56/24
17/23 18/23 19/16	justifiably [1] 26/10	48/22 52/7 55/22	lesser [1] 49/25	79/21 79/22 80/6	113/2
20/6 20/23 21/24 21/25 22/8 22/11	V	66/16 69/22 84/2 84/5	let [3] 53/24 94/1	82/23 83/3	Luncheon [2] 57/3
22/16 22/18 22/20	K	108/14 108/15	100/6	Liverpool [1] 36/13	57/4
22/21 23/7 23/16	Kaposi's [5] 82/10	large [14] 20/5 24/19	lethal [1] 60/8	livers [2] 71/23 72/3	lymph [1] 10/3
23/21 23/22 24/4 25/5	83/15 83/24 85/1	26/9 26/11 26/15	letter [22] 18/18 19/20		M
25/19 26/1 26/12	89/17 keep [1] 120/7	26/17 26/20 44/17	26/5 34/7 34/9 36/12	local [1] 24/10	
26/14 26/18 28/25	keep [1] 120/7 kept [1] 37/7	49/12 51/9 71/7 76/4 76/20 110/9	36/19 36/21 41/23 51/20 52/6 54/14 55/2	London [9] 23/3 34/9 34/13 73/18 102/5	MacCallum [3] 6/7 6/14 6/19
31/8 43/20 44/5 65/16	Kernoff [9] 73/17	last [28] 14/18 17/19	59/14 62/11 62/12	110/17 112/4 115/21	made [19] 8/25 13/10
Jean [1] 30/10	73/20 74/8 74/12	31/13 31/15 47/6	71/15 73/24 84/5	116/11	22/14 31/10 34/2
Joe [1] 87/13	74/20 102/4 110/22	49/20 52/7 61/6 61/7	95/24 110/20 119/9	long [20] 4/17 5/11	35/15 41/11 44/3 56/8
join [1] 116/23	110/24 112/10	61/10 61/11 62/18	level [3] 12/21 19/14	15/18 34/3 38/10 43/6	58/1 58/20 59/21
jointly [1] 38/18 journal [21] 5/6 22/5	Kernoff's [1] 105/19	65/4 70/11 73/19 76/7	60/8	43/8 48/24 49/13 50/1	62/20 63/2 81/5 81/13
33/16 34/8 36/12	key [4] 2/16 4/7 7/4	76/12 80/13 85/23	levels [2] 34/18 78/14	50/9 51/1 64/25 67/24	99/24 110/8 111/23
36/12 37/11 59/12	122/23	90/9 90/10 90/24	licence [1] 72/24	74/21 75/9 91/1 92/12	magnitude [1] 60/14
61/2 62/15 63/11	kill [1] 16/17 Killer [2] 121/19 122/6	96/18 106/8 109/18	licences [1] 88/19	109/2 122/19	main [2] 49/21 94/17 mainly [3] 81/1 93/22
82/15 83/9 83/10	Kinei [2] 121/19 122/0	111/14 111/23 121/10	licensed [2] 120/17	long-incubation [2]	mainly [3] Off 1 93/22
	killing [1] 31/12	lasting [1] 50/13	120/18	48/24 49/13	102/16
83/22 84/4 84/12 91/1	killing [1] 31/12 kind [3] 3/2 3/6 39/3	lasting [1] 50/13	120/18 life [2] 17/4 83/5	48/24 49/13	102/16 mainstream [2] 95/1
83/22 84/4 84/12 91/1 105/1 106/5 114/12	killing [1] 31/12 kind [3] 3/2 3/6 39/3 kindly [1] 26/16	lasting [1] 50/13 late [6] 4/19 10/9 14/10 56/17 63/8 64/5	life [2] 17/4 83/5	48/24 49/13 long-term [5] 50/1 50/9 64/25 74/21 75/9	102/16 mainstream [2] 95/1 106/25
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17	kind [3] 3/2 3/6 39/3	late [6] 4/19 10/9	•	long-term [5] 50/1	mainstream [2] 95/1 106/25
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12	life [2] 17/4 83/5 life-saving [1] 17/4	long-term [5] 50/1 50/9 64/25 74/21 75/9	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1981 [2] 82/9	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1]	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17 June [6] 15/14 18/5	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22 known [24] 2/20 3/2 3/4 10/25 11/17 14/6 46/19 46/23 48/1	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15 leaves [1] 100/17	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1 listed [2] 104/5 107/16 listening [1] 58/5	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24 81/18 122/23 looks [3] 75/11 92/6 100/12	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20 malignant [1] 109/13 man [2] 104/13 113/16
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17 June [6] 15/14 18/5 52/7 81/23 84/14	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22 known [24] 2/20 3/2 3/4 10/25 11/17 14/6 46/19 46/23 48/1 50/18 51/1 74/22	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15 leaves [1] 100/17 led [3] 61/17 112/14	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1 listed [2] 104/5 107/16 listening [1] 58/5 literature [4] 49/18	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24 81/18 122/23 looks [3] 75/11 92/6 100/12 Lord [6] 54/8 54/13	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20 malignant [1] 109/13 man [2] 104/13 113/16 management [2]
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17 June [6] 15/14 18/5	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22 known [24] 2/20 3/2 3/4 10/25 11/17 14/6 46/19 46/23 48/1 50/18 51/1 74/22 81/21 87/2 96/10 98/2	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15 leaves [1] 100/17 led [3] 61/17 112/14 120/21	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1 listed [2] 104/5 107/16 listening [1] 58/5 literature [4] 49/18 81/18 88/18 99/7	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24 81/18 122/23 looks [3] 75/11 92/6 100/12 Lord [6] 54/8 54/13 60/12 77/7 80/16	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20 malignant [1] 109/13 man [2] 104/13 113/16 management [2] 28/12 37/2
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1970 [1] 37/25 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17 June [6] 15/14 18/5 52/7 81/23 84/14 92/11	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22 known [24] 2/20 3/2 3/4 10/25 11/17 14/6 46/19 46/23 48/1 50/18 51/1 74/22 81/21 87/2 96/10 98/2 99/8 102/10 102/12	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15 leaves [1] 100/17 led [3] 61/17 112/14 120/21 left [10] 13/9 24/16	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1 listed [2] 104/5 107/16 listening [1] 58/5 literature [4] 49/18 81/18 88/18 99/7 litigation [1] 99/11	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24 81/18 122/23 looks [3] 75/11 92/6 100/12 Lord [6] 54/8 54/13 60/12 77/7 80/16 80/18	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20 malignant [1] 109/13 man [2] 104/13 113/16 management [2] 28/12 37/2 managing [1] 110/21
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17 June [6] 15/14 18/5 52/7 81/23 84/14 92/11 June 1981 [1] 81/23	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22 known [24] 2/20 3/2 3/4 10/25 11/17 14/6 46/19 46/23 48/1 50/18 51/1 74/22 81/21 87/2 96/10 98/2	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15 leaves [1] 100/17 led [3] 61/17 112/14 120/21	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1 listed [2] 104/5 107/16 listening [1] 58/5 literature [4] 49/18 81/18 88/18 99/7	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24 81/18 122/23 looks [3] 75/11 92/6 100/12 Lord [6] 54/8 54/13 60/12 77/7 80/16	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 43/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20 malignant [1] 109/13 man [2] 104/13 113/16 management [2] 28/12 37/2 managing [1] 110/21
83/22 84/4 84/12 91/1 105/1 106/5 114/12 journalistic [1] 59/17 journals [3] 2/6 95/2 95/3 Judith [1] 52/2 Judy [1] 52/8 Judy Pool [1] 52/8 July [18] 27/4 37/25 61/1 63/12 65/9 68/22 82/9 82/15 83/17 84/25 85/1 85/7 86/4 86/9 87/5 89/8 96/2 104/10 July 16 [1] 86/9 July 1952 [1] 27/4 July 1976 [3] 61/1 63/12 65/9 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1977 [1] 68/22 July 1981 [2] 82/9 82/15 July 3 [1] 83/17 June [6] 15/14 18/5 52/7 81/23 84/14 92/11 June 1981 [1] 81/23	kind [3] 3/2 3/6 39/3 kindly [1] 26/16 kinds [1] 53/2 Kingdom [4] 26/3 55/16 60/2 84/8 Knodell [1] 67/21 know [21] 1/20 13/13 18/11 37/4 42/20 52/8 52/10 53/25 56/7 58/18 87/10 88/5 94/1 99/12 100/3 101/22 102/23 108/3 112/5 112/8 122/8 knowledge [17] 1/4 2/2 3/20 3/24 3/25 16/24 17/2 17/24 29/19 29/22 30/1 30/5 39/16 39/22 53/21 57/10 122/16 knowledgeable [1] 90/22 known [24] 2/20 3/2 3/4 10/25 11/17 14/6 46/19 46/23 48/1 50/18 51/1 74/22 81/21 87/2 96/10 98/2 99/8 102/10 102/12	late [6] 4/19 10/9 14/10 56/17 63/8 64/5 latent [1] 118/15 later [14] 1/13 4/12 5/20 6/21 34/16 37/11 44/21 56/3 82/8 93/12 101/22 109/17 113/20 122/2 latest [3] 9/18 105/22 116/9 latter [3] 63/21 64/15 106/1 law [1] 26/14 lay [1] 88/5 layman's [1] 87/16 lead [1] 77/18 leader [2] 33/15 34/14 leading [2] 72/5 73/8 learnt [1] 21/1 least [9] 27/12 32/15 51/7 52/4 52/18 60/11 76/15 101/11 108/18 leave [2] 44/21 45/15 leaves [1] 100/17 led [3] 61/17 112/14 120/21 left [10] 13/9 24/16	life [2] 17/4 83/5 life-saving [1] 17/4 light [1] 39/20 like [1] 53/23 likelihood [2] 117/20 118/9 likely [8] 14/16 48/3 57/11 58/12 62/6 79/5 101/5 111/6 limit [1] 32/23 limitations [1] 59/18 limiting [1] 70/24 line [1] 83/16 lines [5] 6/13 69/18 107/13 115/25 118/12 link [2] 95/13 96/20 linked [1] 90/17 linking [1] 91/22 links [1] 102/20 list [3] 17/9 61/9 112/1 listed [2] 104/5 107/16 listening [1] 58/5 literature [4] 49/18 81/18 88/18 99/7 litigation [1] 99/11	long-term [5] 50/1 50/9 64/25 74/21 75/9 longer [3] 31/22 37/16 50/15 look [38] 3/23 4/2 4/10 4/20 5/20 6/4 6/12 7/13 23/10 32/11 37/17 43/18 46/10 54/10 55/14 55/21 59/9 66/4 66/14 73/12 76/10 85/5 87/7 91/4 92/10 93/21 94/16 95/5 99/19 108/7 108/8 109/1 110/18 115/14 115/23 117/14 118/22 122/16 looked [8] 14/3 19/23 22/15 29/15 53/20 99/16 99/17 109/17 looking [7] 3/6 3/20 6/17 10/13 69/24 81/18 122/23 looks [3] 75/11 92/6 100/12 Lord [6] 54/8 54/13 60/12 77/7 80/16 80/18	mainstream [2] 95/1 106/25 maintain [1] 12/15 maintenance [1] 75/4 major [8] 14/23 24/14 35/8 82/19 95/9 104/3 108/18 109/24 majority [2] 23/19 29/21 make [9] 14/22 26/21 31/24 41/5 44/24 44/15 44/17 66/7 80/4 makes [3] 63/17 87/19 90/13 making [3] 12/19 81/3 121/11 malaria [2] 33/18 45/10 male [2] 97/16 109/4 males [2] 86/22 108/20 malignant [1] 109/13 man [2] 104/13 113/16 management [2] 28/12 37/2

(43) Japan - Manchester

			I		I
M	58/11	112/16 112/25 114/11	mishap [1] 37/4	90/15 91/7 101/5	needed [2] 37/7 99/2
Manchester [3]	Maycock [6] 26/7 38/9		misleading [3] 34/25	mothers [1] 109/7	needles [2] 51/6
93/12 112/2 116/12	46/7 47/8 48/7 51/21	115/22 116/3 118/25	47/21 59/23	motivated [1] 114/19	117/23
manner [1] 107/19	Maycock's [1] 54/5	119/1 119/14 120/9	missed [1] 54/10	move [6] 41/21 44/23	needs [1] 106/13
mantra [1] 66/13	Mayne [1] 112/7	meetings [3] 2/6 79/11 93/1	Mitchell [1] 69/23	51/18 75/10 90/3	NETR [2] 73/22 73/25
manufacture [1]	McDonald [1] 119/3 McGrath [1] 75/15	mellifluous [1] 63/24	mixture [1] 114/22 MMWR [9] 82/6 84/17	119/16 moving [1] 4/20	never [1] 98/15 nevertheless [2] 35/9
99/10	MDIA0000010 [2]	members [4] 39/8	84/25 86/9 92/10	Mr [5] 77/4 110/21	35/16
manufacturers [4]	94/25 95/1	105/25 119/7 119/20	94/14 96/12 97/7	111/1 111/4 112/24	new [24] 24/13 24/24
85/12 88/19 120/17	MDIA0000113 [1]	memo [3] 77/3 99/4	117/13	Mr Berry [3] 110/21	25/19 39/20 50/23
120/19	56/11	100/8	MMWRs [1] 103/13	111/1 111/4	62/15 83/22 84/4
many [10] 37/3 43/16	MDIA0000114 [1]	memorandum [13]	mode [1] 89/23	Mr Berry's [1] 112/24	84/12 91/2 91/9 91/9
45/6 55/17 56/5 75/3	56/21	11/20 12/4 12/24 13/4	modern [1] 82/19	Mr Harley [1] 77/4	95/24 98/19 105/2
94/6 103/11 109/12	me [10] 37/15 52/3	14/3 14/20 15/12	modes [1] 67/6	MRC [3] 11/12 15/12	105/4 106/5 109/16
March [15] 7/20 18/18	53/23 53/24 54/2 57/7	22/15 28/2 28/6 28/10	modified [1] 39/20	30/19	109/21 109/23 110/6
18/19 19/15 27/2	58/7 79/13 99/6 100/6	28/17 40/2	Moir [1] 32/2	Ms [5] 1/3 1/9 1/22	113/15 114/12 116/18
44/24 46/5 66/17	mean [1] 58/13	men [5] 82/2 84/24	moment [7] 18/10	1/23 57/6	New England [5]
117/12 117/12 118/19	means [7] 18/12	85/18 85/22 97/21	37/17 73/19 79/13	Ms Richards [4] 1/3	62/15 83/22 84/4
118/20 118/25 120/10	31/11 53/18 53/22	mentioned [3] 52/6	81/10 99/23 108/5	1/9 1/22 57/6	84/12 114/12
120/13	54/14 61/25 98/25	79/17 99/22	Monday [2] 111/3	much [9] 4/11 8/16	New York [3] 24/24
March 1953 [1] 27/2	meant [1] 78/19	message [2] 49/1 87/18	115/19	17/1 42/6 64/4 74/23 112/23 115/1 123/1	25/19 113/15 Newcastle [1] 112/3
March 1983 [2]	meantime [1] 120/3 measles [4] 10/3	met [3] 27/4 39/11	moneto [1] 53/23 monetoropic [1] 53/1	multi [1] 103/23	newly [3] 50/10 55/19
117/12 120/10	11/17 14/24 95/8	39/12	monetotropic [1]	multi-agency [1]	98/20
marker [1] 73/9	measures [7] 9/20	method [1] 32/22	53/15	103/23	news [1] 108/14
markers [1] 61/24	11/8 16/23 17/10 33/5	methods [1] 39/3	money [6] 53/15	multiple [1] 97/14	newsletter [1] 98/5
marks [1] 88/10	35/21 114/10	Mibashan [1] 112/11	53/23 56/12 56/14	mumps [1] 10/13	newspapers [1] 59/19
material [24] 2/1 2/11	mechanism [1] 14/24	mid [3] 36/3 55/19	56/22 88/13	must [12] 7/1 14/7	next [44] 4/15 8/3
2/13 2/16 2/18 3/7	media [3] 2/7 95/2	92/9	month [4] 25/20 82/8	15/5 16/24 23/20	17/8 17/18 17/19
3/11 3/15 4/12 4/18 5/21 10/12 19/9 44/16	106/25	mid-1960s [1] 36/3	97/11 113/16	28/18 28/19 50/5 62/5	17/19 25/1 28/1 31/5
57/8 57/9 57/15 74/6	medical [41] 10/8	mid-1970s [1] 55/19	months [15] 2/23 3/8	77/11 99/11 106/19	35/12 37/15 37/19
74/10 74/15 74/19	11/9 11/19 13/5 16/23	mid- 1979 [1] 92/9	6/10 25/16 37/11	my [7] 5/23 58/16	39/24 39/25 40/12
75/3 81/17 88/18	18/21 19/17 20/18	Middlesex [1] 71/16	50/13 50/17 56/10	60/25 79/16 80/19	41/11 42/22 44/5
materials [8] 2/4 8/7	21/10 21/20 22/5	might [33] 7/11 9/15	64/25 68/6 73/12	100/6 122/1	47/13 52/24 59/9 60/6
11/24 12/7 29/18 30/5	24/11 28/13 29/7	11/4 20/9 21/2 21/8	107/14 111/7 114/2	Mystery [1] 107/1	60/23 64/6 64/16
34/16 122/17	29/16 33/15 34/8 36/11 36/12 37/11	21/12 22/25 26/16 26/19 28/4 31/22	118/15 moral [3] 60/18 74/14	N	64/20 68/11 68/11 72/7 79/7 87/14 90/2
maternity [2] 9/17	41/25 46/4 48/10	31/23 37/16 54/10	75/2	name [3] 38/7 40/2	91/12 94/25 96/15
12/15	49/18 54/15 54/16	54/15 59/1 59/3 71/25	morbidity [2] 81/23	46/7	97/18 100/18 102/6
matter [4] 21/15 35/17	54/17 54/19 59/12	80/8 80/10 83/4 86/2	83/13	names [2] 40/5	109/9 115/12 119/23
43/10 120/7	50/18 67/13 71/17	92/12 92/12 95/8	more [29] 3/23 5/18	115/20	120/8 121/4 121/13
matters [5] 12/11 17/6	72/9 75/17 81/17	95/13 100/2 102/13		national [12] 28/7	NHBT0000091 [1]
38/3 54/24 90/12	82/15 83/9 83/10 91/2	105/17 116/8 119/19	47/3 50/4 52/19 52/22	35/1 35/16 43/5 50/21	13/1
may [60] 5/16 15/17 16/1 16/3 16/19 20/23	95/2 98/16	120/2	53/11 55/12 55/21	88/7 95/24 98/5 99/17	NHBT0000186 [1]
24/12 28/15 30/5 30/6	Medicine [14] 22/2	mild [7] 7/7 16/17	58/11 58/24 61/15	117/7 120/16 120/20	72/8
31/7 31/9 33/5 33/10	34/10 34/14 41/25	23/17 50/3 78/7 80/2	63/22 63/24 64/9	nationwide [1] 45/2	NHF [1] 98/23
37/8 39/19 45/8 46/14	42/1 61/2 62/16 63/12	98/21	64/13 64/18 71/22	natural [1] 11/3	NHF's [1] 96/23
48/15 50/6 52/21	68/22 83/22 84/4	military [2] 7/16 20/21	82/7 82/8 93/9 104/11	nature [8] 16/25 60/18	,
54/17 56/7 58/9 58/17	84/13 106/5 114/13	mind [1] 31/24	111/21 112/23 115/1	62/1 67/18 75/7 77/22	59/15 60/21 74/15
58/23 58/25 59/20	meet [1] 33/7	minimise [1] 106/12	Moreover [1] 105/8	81/15 114/20 necessarily [2] 58/19	74/18 75/3 75/5
62/13 63/22 65/1 65/6	meeting [48] 9/16 13/22 19/15 19/25	minimum [1] 43/3 Minister [1] 18/6		65/6	NIBSC [1] 87/13 nitrate [1] 100/15
65/24 66/12 67/19	20/22 21/16 38/1 38/5	Minister [1] 18/6 Ministry [12] 12/14	mortality [12] 16/10 23/21 35/5 35/20	necessary [6] 31/20	Nixon [2] 44/25 45/25
74/25 79/25 81/14	43/14 43/22 71/20	13/5 13/19 14/20 15/6	81/23 83/13 84/15	33/6 33/10 39/6 55/10	Nixon's [1] 45/13
82/2 87/13 88/5 88/18	72/8 72/12 72/13	18/4 18/7 19/14 19/21	94/19 94/21 94/24	76/15	no [37] 1/13 4/22 14/8
88/20 94/20 96/22	72/15 73/11 85/13	20/1 22/15 26/7	109/10 113/8	necessitous [1] 21/9	25/10 27/22 29/2
97/23 98/9 101/11	86/5 89/4 89/7 92/23	minute [3] 1/14 77/3	most [22] 4/18 18/11	necroscopy [1] 36/24	
103/3 106/21 107/4	93/11 93/12 93/14	87/5	28/24 32/22 33/21	necrosis [3] 20/24	31/20 34/17 49/7 60/1
108/7 109/3 109/4 109/11 109/17 109/20	103/23 103/24 103/25	minutes [9] 1/17	40/8 40/18 42/19 43/2	23/1 31/9	61/24 61/25 66/1 66/9
110/6 114/21 118/17	104/23 108/4 108/7	37/20 56/16 115/16	43/25 46/12 52/16	need [8] 5/15 29/24	66/13 81/10 91/21
maybe [2] 40/14	110/17 110/19 111/2	115/17 121/17 121/21	78/7 78/16 79/3 80/2	36/9 55/23 58/17 73/6	95/3 96/8 98/12 98/14
	111/4 111/9 111/22	121/23 122/4	85/21 89/3 90/10	100/7 121/20	104/18 108/21 108/25
					(44) Manchester no

(44) Manchester... - no

	_
N	
no [10] 110/13	
113/11 113/21 115/3	
115/11 117/5 117/8	
118/3 118/8 119/12 nobody [1] 60/16	
nomenclature [1]	
46/24	
non [102] 3/24 3/24	١.
49/23 50/6 51/14	ľ
51/17 51/17 53/11	ľ
53/13 57/10 61/16 62/8 62/8 63/13 63/13	ŀ
63/18 63/19 63/19	
63/21 63/21 63/24	ŀ
63/24 64/1 64/1 64/3	١.
64/3 64/8 64/8 64/12	
64/12 64/17 64/17	l.
64/22 64/22 65/5 65/5 66/21 66/22 66/24	ı
66/24 66/25 66/25	ŀ
67/4 67/4 67/10 67/10	١.
67/11 67/12 67/15	
67/16 67/21 67/21	ľ
68/2 68/2 68/9 68/9	ľ
68/14 68/14 68/16 68/16 68/23 68/24	
69/4 69/4 69/5 69/5	
69/11 69/11 69/15	
69/15 69/19 69/19	
70/18 71/18 71/18	
72/13 72/13 73/7 73/7	
74/18 74/18 75/8 75/8 77/13 77/13 77/23	
77/23 78/7 78/7 79/20	
79/20 79/22 79/22	
80/2 80/2 111/13	
111/13 112/21 112/21	
114/23 114/23 116/11 non-A [46] 3/24 51/17	
62/8 63/13 63/19	
63/21 63/24 64/1 64/3	
64/8 64/12 64/17	
64/22 65/5 66/21	
66/24 66/25 67/4 67/10 67/11 67/15	
67/21 68/2 68/9 68/14	
68/16 68/23 69/4 69/5	
69/11 69/15 69/19	
71/18 72/13 73/7	
74/18 75/8 77/13	
77/23 78/7 79/20 79/22 80/2 111/13	
112/21 114/23	1
non-B [50] 3/24 49/23	
50/6 51/17 61/16 62/8	
63/13 63/18 63/19	
63/21 63/24 64/1 64/3 64/8 64/12 64/17	
64/22 65/5 66/22	1
66/24 66/25 67/4	

67/10 67/12 67/16 67/21 68/2 68/9 68/14 68/16 68/24 69/4 69/5 69/11 69/15 69/19 71/18 72/13 73/7 74/18 75/8 77/13 77/23 78/7 79/20 79/22 80/2 111/13 112/21 114/23 non-B' [1] 51/14 non-haemophiliac [1] 70/18 non-haemophiliacs **[1]** 116/11 non-immunised [1] 53/11 non-virgin [1] 53/13 none [3] 11/17 88/20 96/4 nor [1] 3/5 normal [2] 31/2 102/24 North [2] 74/2 74/3 northwest [1] 23/3 not [99] 2/17 2/20 3/1 3/1 4/16 6/20 8/6 11/1 11/2 14/1 14/11 14/24 15/9 16/2 20/25 21/18 23/20 26/10 26/17 27/4 28/21 29/20 30/23 31/10 31/25 34/1 34/20 35/16 37/4 37/10 41/16 42/19 43/9 45/16 47/20 49/25 51/11 52/8 52/19 53/19 53/20 54/4 54/25 55/7 55/10 56/6 56/7 58/19 60/11 61/9 61/13 61/16 65/5 65/7 65/22 67/1 67/4 72/24 73/10 74/13 75/1 79/18 79/25 80/19 80/22 81/13 81/15 83/20 84/21 87/5 87/17 88/5 88/9 88/9 88/11 88/22 89/3 91/6 93/15 95/7 95/8 98/18 98/23 99/1 100/5 102/10 103/10 108/23 108/23 110/4 111/12 111/18 111/18 112/20 114/21 115/6 118/9 121/1 122/12 note [18] 8/19 9/11 21/19 23/23 79/14 79/16 86/16 92/1 92/4 96/19 97/19 100/6 100/7 108/2 111/14 111/16 112/24 122/19 noted [2] 23/22 94/21 notes [8] 60/25 73/10 92/7 107/24 111/23

116/21 117/5 117/9 occasionally [3] nothing [2] 20/25 21/8 31/23 46/22 81/14 notice [4] 11/21 14/4 occasions [1] 39/12 14/13 19/16 noticed [1] 92/8 notifiable [1] 35/16 notification [2] 35/22 85/10 notified [1] 10/18 November [10] 34/8 37/12 50/22 55/22 63/8 84/14 95/3 95/19 100/8 100/11 November 12 [1] 50/22 November 1969 [1] 37/12 November 1975 [1] 55/22 now [33] 11/18 14/7 15/1 15/19 22/4 26/2 26/3 29/17 37/19 40/11 45/21 46/8 47/1 56/1 56/16 63/17 65/10 66/16 66/25 67/16 80/15 83/13 84/13 92/23 94/15 95/1 98/6 99/18 101/15 106/19 108/15 117/12 121/17 number [26] 2/7 5/12 9/13 12/7 17/6 19/17 20/5 28/6 29/17 32/7 35/4 35/18 44/15 44/16 46/8 48/18 51/9 58/21 58/25 66/7 82/10 83/15 83/21 84/18 111/6 112/16 numbers [5] 11/23 42/3 42/7 110/9 115/3 numerous [1] 16/12 o'clock [1] 122/14 observation [1] 15/17 observations [6] 4/23 48/11 66/6 70/14 80/24 118/8 observe [1] 15/24 observed [8] 6/9 7/15 9/5 14/5 40/9 63/9 86/19 89/21 **Observer [3]** 95/3 95/19 107/1 observers [1] 23/20 obtained [2] 75/6

116/16

obtaining [1] 19/5

60/21 79/9 80/23

81/16 83/9 94/6

occasion [1] 10/6

obviously [7] 15/25

occur [5] 15/5 37/8 47/3 64/13 67/5 occurred [4] 11/1 97/14 104/12 116/11 occurrence [7] 47/16 86/24 89/9 91/18 97/21 98/1 117/21 occurring [2] 6/10 89/18 occurs [2] 16/18 64/9 October [3] 24/5 39/12 82/2 October 1947 [1] 24/5 October 1980 [1] 82/2 117/24 of 1974 [1] 48/23 Office [3] 38/20 120/15 120/19 officer [11] 10/8 11/19 26/12 12/19 18/21 19/17 20/18 21/10 39/10 46/5 54/15 54/19 officers [10] 11/11 11/22 13/5 13/23 14/4 14/13 21/15 28/13 29/7 54/17 officials [2] 19/18 107/8 often [1] 45/7 oh [1] 60/24 OI [1] 89/16 old [2] 97/11 113/16 once [3] 50/17 69/9 99/15 one [70] 10/7 13/8 14/23 14/25 16/3 17/12 17/19 19/22 23/17 24/1 27/21 32/1 32/7 32/24 34/2 37/16 42/11 42/12 42/13 46/15 46/20 47/24 48/19 51/7 52/4 53/19 53/20 55/12 55/20 57/16 57/17 57/21 57/24 58/8 58/24 59/17 61/9 63/22 69/5 71/22 75/25 76/9 79/13 81/2 81/6 81/11 82/13 86/12 88/17 89/15 92/6 94/6 94/23 96/6 96/13 98/25 100/17 104/12 105/11 107/17 110/9 110/12 113/12 113/14 113/15 114/3 114/21 116/11 116/12 118/7 ones [1] 39/19 online [1] 54/2 only [25] 16/2 17/5 17/12 17/25 25/17

25/23 28/21 31/7 32/11 35/9 37/6 42/11 48/2 67/4 74/13 76/13 79/2 80/4 92/4 100/9 100/17 111/15 114/2 114/17 121/20 onwards [2] 29/19 48/9 open [1] 89/4 operation [2] 20/3 43/9 opinions [1] 21/14 **opportune** [1] 108/5 opportunistic [8] 84/19 85/1 85/13 89/5 89/9 89/17 97/14 opportunity [2] 2/17 19/4 opposed [2] 18/12 opposing [1] 66/4 or [104] 2/8 2/16 2/20 3/3 3/4 3/5 3/16 3/21 6/13 7/6 8/14 8/20 13/24 14/16 19/15 21/9 22/13 24/10 25/10 26/22 27/11 27/17 28/25 29/2 30/18 30/25 31/8 32/20 32/21 33/20 34/7 34/15 36/12 41/15 42/9 42/13 42/21 42/25 43/7 44/11 44/16 46/19 46/23 46/24 48/16 49/7 50/13 51/2 51/8 51/11 51/11 52/9 52/20 54/1 56/15 57/17 58/11 58/12 59/19 59/19 59/19 59/22 60/16 71/22 73/9 76/22 77/18 78/24 79/4 81/2 83/24 84/18 84/22 85/10 88/9 91/9 91/16 92/2 95/2 95/11 95/20 96/10 97/24 97/24 98/12 99/23 102/16 105/25 107/18 109/8 109/13 111/19 113/12 114/3 114/6 115/6 115/10 117/9 117/10 117/17 118/2 118/4 121/17 122/8 order [1] 33/9 orderly [1] 20/13 ordinary [1] 91/22 organisation [8] 3/4 3/5 27/1 27/4 27/8 29/13 38/23 94/4 organisations [2]

79/11 89/11 organism [1] 73/9 organs [1] 114/6 original [2] 45/18 46/4 originally [1] 51/2 Ormond [1] 112/5 oro [1] 46/18 oro-faecal [1] 46/18 other [51] 4/16 8/10 8/17 14/5 17/6 17/23 20/21 22/14 23/19 25/22 31/20 37/2 38/24 39/6 40/5 40/15 46/19 48/16 49/2 51/5 51/7 52/7 52/15 52/20 52/21 55/6 57/22 58/1 65/25 66/21 66/23 67/6 71/25 78/23 81/2 86/12 89/22 90/12 91/6 92/4 96/10 96/10 96/14 102/18 103/14 104/17 110/4 113/12 115/9 118/8 118/14 others [20] 2/25 3/16 5/16 6/16 16/17 31/9 48/23 56/10 61/3 66/17 67/22 68/23 69/24 71/12 72/11 75/15 107/16 112/17 114/23 120/2 ought [2] 26/17 32/4 our [11] 3/17 14/23 17/22 37/19 39/18 53/6 71/1 87/11 88/10 99/7 101/20 out [28] 11/3 18/3 18/19 23/9 27/18 30/14 32/2 34/20 40/6 40/25 45/5 54/10 54/24 59/21 70/7 70/15 84/6 86/21 88/20 91/7 93/9 96/12 99/14 102/19 107/22 114/10 119/10 121/10 outbreak [2] 8/9 85/25 outbreaks [1] 8/11 outcome [2] 36/18 108/3 outweigh [3] 25/25 29/4 48/4 outweighed [1] 70/22 over [21] 2/23 3/8 11/7 16/13 20/1 28/23 43/16 46/25 51/15 56/10 60/15 71/11 73/4 73/12 79/7 85/20 97/19 106/21 109/25 111/6 113/25 over-dramatised [1] 60/15 overall [3] 35/5 94/21 109/10

(45) no ... - overall

19/13 76/9 89/12 24/5 24/8 24/12 24/20 0 8/21 14/18 56/11 56/21 59/14 permanently [1] pages 54 [1] 8/1 104/19 122/20 60/7 60/23 61/7 62/10 65/15 25/4 25/11 25/17 overriding [1] 98/16 pages 68 [1] 8/21 particular [17] 3/3 3/3 63/10 63/14 64/7 65/9 permission [1] 41/18 25/22 26/9 26/11 overt [1] 62/6 9/4 14/2 23/10 27/5 65/17 66/5 66/15 26/13 26/15 26/17 pagination [3] 5/24 permitted [1] 43/7 overview [1] 2/1 8/2 8/20 30/9 32/8 36/19 39/13 66/18 67/22 68/21 perpetuates [1] 53/7 26/19 26/20 26/21 overwhelming [1] paid [4] 52/23 57/12 51/17 65/3 65/13 79/9 68/25 69/21 70/12 persist [1] 70/5 29/2 30/18 44/8 44/17 109/13 75/6 83/4 112/18 113/12 121/10 71/14 72/7 73/15 persistent [4] 68/5 58/1 58/2 58/22 61/5 Owen [5] 27/14 54/8 particularly [9] 3/23 73/20 73/24 74/5 75/22 78/23 82/25 61/24 62/2 62/5 85/12 paints [1] 71/1 54/13 57/19 60/12 persistently [2] 75/20 15/5 31/11 51/10 76/12 77/3 77/24 87/21 87/23 98/13 panned [1] 40/25 Owen's [1] 77/7 80/11 81/22 82/12 Panton [3] 11/10 57/12 74/24 77/16 78/14 101/7 120/5 120/17 own [1] 88/8 91/18 122/23 83/12 84/1 84/11 85/8 120/23 120/24 121/6 18/23 19/20 person [1] 91/24 Oxford [5] 30/11 52/3 paper [3] 5/7 14/22 partners [1] 109/5 86/7 89/2 90/9 90/23 personnel [4] 4/24 5/3 platelet [1] 104/13 54/2 79/5 112/3 parts [3] 2/16 56/2 90/10 91/13 93/2 93/17 7/21 20/21 platelets [3] 97/15 OXUH0002848 [1] 94/13 94/17 94/25 papers [1] 5/5 74/23 persons [12] 6/9 113/14 113/18 94/13 party [5] 73/21 94/2 95/6 95/22 96/15 97/5 17/15 20/5 20/13 paragraph [57] 6/14 play [5] 50/6 56/1 13/12 13/15 15/16 94/3 114/7 116/24 97/18 99/3 100/4 20/24 24/20 25/10 56/11 56/16 56/20 16/5 16/14 17/20 party's [1] 116/24 100/19 101/15 101/25 83/18 97/22 104/5 played [4] 56/14 package [1] 99/14 23/14 24/7 28/15 pass [1] 20/9 103/21 104/24 106/4 104/9 118/3 56/22 121/10 122/6 page [100] 5/23 5/25 28/17 29/11 31/5 passage [4] 6/18 106/8 106/23 107/23 perspective [2] 67/14 please [123] 5/1 5/22 6/4 7/10 7/11 7/13 8/2 38/13 39/14 39/24 27/17 65/23 66/20 108/11 108/20 111/25 119/22 7/9 7/14 7/24 8/22 9/8 8/3 8/5 8/19 8/22 11/7 39/25 40/12 40/13 112/23 115/16 115/24 13/1 13/7 13/15 14/19 passages [2] 15/15 perspectives [1] 58/5 12/2 13/8 14/18 16/6 41/11 44/5 47/13 117/11 118/11 118/24 15/8 15/9 16/13 17/18 46/10 pertinent [1] 80/23 16/13 16/14 17/8 Peter [2] 90/6 102/4 49/21 50/25 51/25 passing [1] 99/12 120/12 121/22 122/1 17/19 17/21 18/9 17/18 17/19 17/19 52/24 59/25 61/6 past [6] 50/17 51/8 pause [3] 15/24 48/8 **PFC [1]** 90/7 18/17 19/11 20/15 17/19 17/19 19/24 61/11 62/19 63/15 52/3 58/3 104/19 21/7 21/18 23/14 24/2 121/24 pharmaceutical [2] 20/15 20/16 21/6 64/7 64/16 65/4 66/8 107/14 pausing [3] 18/10 63/4 99/5 24/15 25/1 26/24 28/2 23/11 24/16 25/1 67/25 67/25 69/2 Pathology [1] 71/16 29/9 103/13 phase [4] 50/17 80/3 28/16 30/12 31/13 28/16 30/12 31/13 70/13 71/21 74/12 PCP [8] 82/3 82/10 32/6 34/5 34/6 34/11 pathway [1] 60/4 80/4 100/24 32/12 38/12 39/14 77/10 82/16 85/24 83/15 83/24 85/15 35/13 38/12 39/14 patient [16] 17/12 phenomenon [3] 39/25 41/1 43/19 47/6 86/16 93/3 94/17 98/8 29/8 30/22 32/1 34/24 86/11 89/10 89/20 13/13 13/16 60/17 39/24 40/12 41/1 49/20 55/2 61/7 63/14 105/7 106/9 107/7 37/13 42/20 44/1 48/4 peace [2] 20/2 20/10 PHS [1] 89/5 41/22 42/22 43/13 64/6 64/20 65/17 107/12 109/2 109/9 44/24 46/6 47/7 49/21 68/18 70/18 75/25 peace-time [2] 20/2 physician [1] 33/10 65/23 66/5 66/18 111/15 117/14 121/4 84/8 84/8 104/14 20/10 physicians [7] 65/19 50/20 51/19 56/11 66/19 67/22 67/23 paragraph 1 [1] 28/15 110/10 pensions [1] 20/7 65/20 66/4 66/7 78/2 57/1 59/14 60/7 60/23 68/11 68/12 69/1 69/1 patient's [1] 43/10 penultimate [4] 17/18 99/13 106/18 61/7 63/10 63/14 64/6 paragraph 11 [1] 70/11 73/19 74/5 76/7 28/17 patients [70] 8/15 67/23 68/25 101/24 Physicians involved 64/20 65/9 65/17 76/12 78/4 80/13 paragraph 13 [1] 11/2 12/17 14/9 16/19 people [4] 18/11 **[1]** 106/18 66/15 66/18 67/14 80/18 84/2 86/15 23/4 25/3 25/15 31/6 102/11 113/6 114/19 67/25 68/21 72/7 111/15 pick [18] 6/2 8/4 89/13 90/9 90/10 91/5 31/23 32/18 33/19 per [33] 25/6 26/12 13/11 24/6 30/3 38/14 73/15 74/5 75/11 76/7 paragraph 2 [1] 38/13 93/2 93/17 93/18 paragraph 6 [1] 39/14 34/21 35/24 36/5 42/3 26/13 29/1 30/17 50/25 51/25 56/17 77/3 77/25 78/4 80/11 94/17 95/6 96/15 97/6 paragraph 7 [2] 39/25 42/7 42/13 42/14 32/19 32/21 35/3 35/6 66/8 68/1 70/1 71/21 80/12 80/14 81/22 97/18 97/19 100/18 43/21 49/6 51/10 42/6 42/10 42/24 49/3 74/11 81/20 83/21 82/12 83/12 84/1 84/2 101/24 102/6 103/25 53/11 62/23 63/6 65/4 51/12 52/12 52/14 84/25 92/22 85/8 86/7 86/15 87/15 paragraph 8 [1] 40/13 104/2 106/8 107/24 68/4 68/8 70/7 71/5 63/5 68/5 70/4 76/16 89/2 90/2 90/9 90/23 paragraphs [5] 36/21 picked [4] 10/7 88/4 108/17 111/8 111/14 91/12 93/2 93/16 91/14 96/18 109/25 73/1 74/9 75/5 76/19 77/11 78/22 79/20 109/16 118/12 111/25 112/22 113/25 77/17 78/9 78/16 87/6 94/21 108/19 picking [9] 7/14 61/11 94/13 94/17 94/25 113/5 115/16 115/24 118/11 108/21 108/22 108/24 parallels [1] 117/15 78/20 78/21 78/24 62/18 63/14 64/7 95/6 95/22 96/15 97/5 119/5 119/6 119/23 parenteral [1] 69/13 79/3 79/6 85/3 85/4 108/25 109/11 110/14 64/21 91/13 105/3 97/6 97/18 99/3 page 10 [1] 93/17 parenterally [1] 85/14 85/15 85/18 113/8 118/7 100/18 101/15 101/16 page 103 [1] 8/19 117/17 86/11 86/14 86/18 percutaneous [2] picks [1] 4/5 101/24 102/6 103/21 page 11 [1] 93/2 parents [2] 96/23 89/6 89/10 89/20 70/6 70/15 picture [5] 4/3 4/5 104/24 106/8 107/22 page 2 [1] 16/14 98/11 89/21 92/8 96/3 96/7 performed [2] 21/11 11/5 84/12 92/22 108/10 108/20 112/23 page 22 [1] 41/1 part [16] 6/5 7/19 14/3 96/16 96/23 98/10 75/18 pint [2] 32/1 32/3 115/15 115/16 117/11 page 24 [1] 7/11 27/5 27/12 27/18 98/15 98/18 103/8 perhaps [5] 101/12 pints [2] 34/25 58/12 118/11 118/24 119/5 page 39 [1] 5/23 29/21 30/9 39/21 43/8 108/19 109/12 109/20 102/14 105/18 106/3 place [8] 2/11 4/22 pm [5] 57/2 57/5 page 4 [2] 39/14 97/6 92/19 92/21 123/3 46/11 56/12 56/14 109/24 117/6 117/19 72/16 89/8 93/12 page 5 [1] 5/25 56/20 56/22 111/12 120/7 period [13] 7/6 22/7 104/1 111/22 112/25 Pneumocystis [1] page 58 [1] 7/10 part 1 [2] 7/19 56/12 Paul [89] 38/13 39/14 23/8 25/20 34/4 46/15 plan [3] 11/2 18/2 81/25 page 6 [2] 30/12 69/1 part 10 [1] 27/18 41/1 41/22 42/23 46/21 69/7 82/1 92/13 71/19 pneumonia [1] 81/25 page 7 [2] 67/22 78/4 point [11] 4/16 42/23 44/24 45/12 46/6 47/7 113/2 114/1 118/15 Part 2 [1] 56/22 planned [1] 86/5 page 89 [1] 8/2 participants [10] 2/12 48/21 49/21 50/20 periodicals [1] 59/20 plasma [41] 10/13 56/24 58/3 66/8 72/25 pages [4] 2/18 8/1 3/10 3/16 5/13 19/10 51/18 54/11 55/23 peripheral [1] 10/20 13/21 14/16 22/13 88/3 88/7 96/23

(46) overriding - point

P	82/18	34/17 43/18 45/5	84/15 88/12 90/16	profit [1] 43/10	PRSE0001172 [1]
point [2] 108/14	post-transfusion [13]	47/20 48/19 55/1	104/4 105/20 114/9	Proger [1] 11/10	55/24
122/10	34/24 48/14 48/24	61/24 62/3 66/1 69/5	problems [5] 38/1	prognosis [1] 65/1	PRSE0001431 [1]
pointed [1] 32/2	49/4 49/13 49/15 51/4	74/22 75/21 75/24	59/18 78/18 90/14	programme [10] 43/6	48/21
pointing [1] 45/5	52/19 53/12 61/14	77/15 94/16 101/7	119/18	53/7 59/11 59/16	PRSE0001518 [1]
points [4] 5/12 66/7	61/16 67/21 77/12	106/20 112/2	procedure [3] 61/22	59/22 62/18 106/13	30/2
94/18 96/12	post-vaccination [1]	presentation [6] 1/23	70/19 78/20	121/23 122/2 122/5	PRSE0001579 [1]
policies [1] 117/10	8/10	2/10 3/13 3/18 4/10	procedures [3] 17/5 121/6 121/8	programmes [2] 43/7	65/10
politicians [1] 2/25	postulate [1] 61/18 postulated [1] 66/2	122/15 President [2] 44/25		60/16	PRSE0001960 [2] 73/14 79/16
pool [22] 17/12 26/9	potential [12] 37/6	45/25	proceedings [1] 22/1 process [1] 89/22	programs [1] 24/10 progress [1] 68/10	PRSE0002410 [1]
26/11 26/13 26/15	50/9 69/8 70/21 95/20	press [1] 88/5	prodromal [1] 100/24	progressed [3] 68/15	106/4
26/17 26/19 26/20	95/20 96/24 98/11	Preston [2] 69/23	produce [5] 16/17	68/17 79/20	PRSE0002436 [1]
26/21 29/2 30/18	106/17 120/1 120/22	112/5	57/11 57/21 62/6	progressive [1] 77/18	98/4
33/23 52/1 52/2 52/8	122/24	Preston's [1] 71/12	76/15	prolonged [2] 46/21	PRSE0002602 [1]
57/16 57/17 57/20 59/45 76/5 76/24	potentially [5] 28/19	presumably [3] 7/5	produced [4] 39/13	113/10	66/15
58/15 76/5 76/21 77/20	48/1 60/8 62/3 70/25	104/7 114/19	57/8 57/8 58/20	promiscuity [1]	PRSE0002647 [1]
pooled [6] 15/20 24/4	practicable [1] 26/21	pretty [1] 64/4	producing [2] 16/25	100/20	111/24
24/8 24/20 25/4 62/2	practical [2] 32/22	prevalence [2] 5/8	68/14	prone [2] 95/12	PRSE0003110 [1]
pooling [2] 23/25	60/18	61/4	product [14] 15/22	107/21	82/14
61/21	practice [4] 19/2	prevent [2] 12/5 91/21	1	proof [1] 66/13	PRSE0003209 [1]
pools [4] 17/5 44/17	24/11 47/10 65/14	preventative [3] 9/20	72/21 72/24 77/12	Propaganda [1] 21/7	77/25
58/1 59/2	practices [1] 121/8 practitioner [2] 30/8	17/9 35/21 preventing [2] 106/20	81/11 91/20 99/13 103/2 107/3 113/12	proportion [4] 47/17	PRSE0003247 [1] 90/2
population [6] 32/22	31/19	106/21	113/13	49/12 65/7 71/7 proposals [2] 39/7	PRSE0003276 [1]
42/5 42/21 55/7	practitioners [7] 9/18	prevention [3] 15/11	products [61] 2/3	119/13	97/5
106/17 116/7	11/22 12/10 30/7	17/2 27/19	3/21 15/4 19/1 23/2	propose [2] 4/9 56/1	PRSE0003622 [1]
populations [3] 32/14	31/17 54/16 83/10	preventive [1] 106/7	27/20 28/9 33/20	proposed [2] 18/2	69/21
89/18 108/18	pre [2] 1/18 77/17	previous [9] 19/20	40/10 46/8 46/14 47/5	20/1	PRSE0003714 [1]
pose [1] 107/4	pre-allocated [1] 1/18		47/19 47/22 47/25	proposing [1] 27/5	36/10
position [5] 20/25 69/25 75/12 76/10	pre-existing [1] 77/17	80/17 82/24 85/20	48/7 48/16 51/6 51/22		PRSE0003880 [1]
113/3	precautions [3] 33/11	112/22	53/9 53/10 61/5 61/24	prospectively [1] 68/3	85/6
positive [2] 41/16	41/13 114/5	previously [5] 13/19	62/3 62/5 62/25 63/4	protein [1] 44/9	PRSE0003897 [1]
48/12	precede [1] 118/17	80/5 83/23 104/4	73/3 76/3 80/19 80/22		30/4
possibilities [2]	precedence [1]	105/15	80/25 81/3 81/6 84/22	prove [2] 52/13 83/4	PRSE0004064 [1]
102/18 102/19	106/21	price [2] 62/21 83/4	85/10 85/13 86/3 87/1	proved [3] 22/23	59/10
possibility [13] 11/3	precise [2] 101/18 101/23	primarily [1] 29/7 Prince [1] 48/23	89/24 91/16 93/8 93/25 94/12 96/22	34/19 52/11 provide [4] 2/21 18/2	PRSE0004120 [1] 101/16
33/4 50/6 89/19 91/19	precises [1] 5/14	principal [3] 13/22	97/25 98/2 98/10 99/9	56/8 68/8	PRSE0004476 [1]
93/24 94/11 99/25	preclude [1] 35/25	41/2 41/4	100/1 102/16 103/1	provided [4] 2/12	84/1
101/6 106/1 111/17	predicted [1] 63/9	principles [1] 27/17	104/19 105/8 105/11	24/25 55/11 88/9	PRSE0004488 [1]
118/1 118/9	predominantly [2]	print [1] 95/5	105/25 106/2 107/19	provides [1] 19/4	37/14
possible [28] 6/15 8/6	69/13 84/24	printed [1] 22/1	117/17 118/4 119/21	provision [2] 1/25	public [9] 2/11 2/19
8/13 9/20 11/1 11/3 12/16 13/14 17/11	preference [2] 76/4	prior [1] 25/16	products' [1] 47/18	39/2	21/9 24/13 39/11 56/7
22/24 33/1 41/8 42/19	76/20	priority [1] 72/20	profession [1] 21/20	PRSC0000821 [1]	84/15 104/3 106/3
61/20 63/18 76/19	preferring [2] 74/15	prison [7] 32/14 32/21	professor [21] 4/21	34/6	publication [18] 12/13
77/8 86/25 89/23 93/7	75/2	33/1 33/6 42/7 42/25	34/9 34/13 36/3 36/7	PRSE [1] 99/21	13/2 15/7 21/13 22/5
97/9 100/12 100/13	Prentice [1] 112/9	52/23	41/24 51/23 62/12	PRSE000009 [1] 54/8	27/2 30/3 30/8 30/19
103/17 104/11 113/24	preparation [1] 8/8	prisoners [3] 55/5	69/23 71/11 93/4	PRSE0000157 [1]	32/9 34/7 34/22 41/25
114/20 117/10	preparations [1] 110/6	55/8 55/16	108/6 108/9 111/10 112/4 112/12 116/1	28/2 PRSE0000190 [1]	45/17 48/22 50/22 90/25 105/1
possibly [9] 24/22	prepare [1] 101/7	prisons [2] 55/2 55/11 probability [2] 15/4	118/21 118/22 122/17	38/9	publications [1] 48/10
34/3 58/24 67/1 67/4	prepared [6] 11/20	74/16	122/24	PRSE0000381 [1]	publicity [1] 87/14
91/8 100/21 105/23	13/4 43/13 44/3 61/5	probable [1] 16/18	Professor Bloom [10]	63/10	publish [1] 11/19
114/24	63/3	probably [13] 1/15	4/21 93/4 108/6 108/9		published [11] 5/5
post [22] 6/6 8/10	prescribe [1] 99/13	5/25 30/23 49/17 55/6	111/10 116/1 118/21	86/7	11/18 12/25 13/3 24/5
32/10 34/24 35/5 42/1 42/3 42/24 48/14	prescribing [1] 33/10	56/15 58/11 59/23	118/22 122/17 122/24		61/1 63/11 87/20
48/24 49/4 49/13	presence [7] 38/6	90/23 92/1 104/15	Professor Zuckerman		88/16 88/24 101/19
49/15 51/4 52/19	41/9 47/15 65/12	121/16 122/10	[1] 36/7	PRSE0000726 [1]	pulmonary [1] 90/17
53/12 61/14 61/16	66/10 95/14 95/16	problem [13] 16/2	Professor	109/17	Purcell [2] 63/12
67/21 68/3 77/12	present [23] 15/19	24/14 32/11 35/15	Zuckermann [1]	PRSE0000728 [1]	66/17
	17/3 19/3 19/17 20/12	35/25 53/3 60/14	112/12	118/24	purchase [1] 53/5
ĺ					

(47) point... - purchase

purpose (1) 125 210 210 2115 2210 21		<u> </u>				
Second 1 2019 1900 1	P					
purpose [4] 1/25 //16 1/35 /	purchased [2] 80/19					
purpose [4] 475 2716 2715 2715 2715 2715 2715 2715 2715 2715			l			
29.15 227 19.17 29						
purposes [3] 49 reagents [1] 399 reagents [1] 391 reagents [1] 392 reaction [1] 4071 and [3] 2722 7111 reagents [4] 392 series [4] 392 series [5] 3912 series [7] 392 serie				• • •		
purposes [5] 4-99 4/18 4/18 4/18 4/18 4/18 4/18 4/18 4/18	purposeful [1] 18/1					
## require [4] #7619 791 962 put [7] 9924 45/11 put [7] 19920 put [7] 19	purposes [5] 4/9					
19/10 19/1						
relate [1] 19074 1977 1971						
200 2014 2015 2016 2	1					
1887 1887	i e					
puzzling [1] 20/11 Q	1				reporting [5] 12/8	revised [1] 106/13
Quality [2] 333 835 are assonable [1] 716 parts [2] 415 presents [3] 415 presents [4] 216 p				relating [4] 43/15		revisiting [1] 60/22
quality [2] 33/3 83/5 quantities [1] 15/22 quotisting [3] 51/25 footnotes [2] 41/5 footno	puzziing [1] 20/11	20/22 34/2 44/8 62/23				
quantities [1] 15/2 question [8] 55/16 60/12 93/1 10/2 10/2 10/3 10/3 15/2 12/2 12/2 questions [8] 55/16 60/12 93/1 10/2 10/3 10/3 15/2 12/2 12/2 questions [9] 55/16 60/12 93/1 10/2 11/2 11/2 11/2 11/2 11/2 11/2 11	Q					
quantities [1] 15/22 question [8] 53/11 62/7 recall [1] 19/12 recall [1] 19/13 recall [1] 19/14 recall [1] 19/15 recall [1] 19/15 recall [1] 19/16 recall [1] 19/16 recall [1] 19/17 recall [1] 1	quality [2] 33/3 83/5		l			
reduced [1] 1992 reduced [1] 1992 reduced [1] 28/15 reduced	quantities [1] 15/22					
Feasure [1] 119/10 reducide [3] 40/11 43/2 reducide [1] 20/15 redu	question [8] 55/15	i e				
receipt [3] 13/18 reduced [1] 28/15 reducing [2] 32/22 reducing [2] 32/23 reducing [2] 32/22 reducing [2] 32/23 reducing [2	60/12 93/1 102/7					
reducing [2] 32/22 reducing [2] 37/10 reducing [2] 37/20 reducing [3] 37/40 reducing						
	i					
relatives [1] 958 relatives [1		l				
received [25] 7/20 119/25			l			
13/20 18/24 23/4 23/4 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/25 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/15 24/20 25/3 25/3		ł				
quick [1] 92/5 quick [2] 92/5 25/6 5/6 quick [3] 1/1724 quick [4] 1/1724 quick [4] 1/1724 quoting [1] 79/18 R quicing [4] 1/1724 quoting [1] 79/18 R radio [1] 59/19 raise [2] 57/6 59/4 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 51/23 58/4 ramifications [1] 29/13 range [4] 2/5 30/5 6/77 79/5 ranked [1] 39/9 rapidly [4] 31/9 39/18 rate [1] 35/9 rapidly [4] 31/9 39/18 rate [1] 35/9 ratios [1] 103/18 rate [2] 25/8 25/12 84/16 94/19 94/21 94/17 84/19 30/17 38/7 82/29 52/ 24/18 11/18 11/17 recombraise [1] 11/14 re [1] 13/75 recommendation [7] recommendation [1] 59/16 reliable [1] 15/19 reliable [1] 15/47 reliable [1] 14/2 20/20 22/14 22/20 31/6 23/3 reliable [1] 13/75 recommendation [7] resommendation [7] respect [8] 37/14 2/2 23/20 reliable [1] 13/12 require [8] 22/21/11 request [8] 37/16 60/48 reliable [1] 13/12 require [8] 37/16 60/48 reliable [1] 13/12 require [8] 37/16 60/48 reliable [1] 13/12 require [8] 21/21/21 reliable [1] 13/12 require [8] 37/16 60/48 reliable [1] 13/12 require [1] 13/12 require [2] 21/13 39/14 require [1] 13/12 require [2] 21/13 39/14 remains [4] 82/18 86/12 97/20 107/16 remembered [1] 12/15 remembered [1] 104/20 respect [6] 14/12 15/26 remembered [1] 109/15 remembered [1] 109/15 responding [1] 80/16 responding [1] 80/16						
quicky [1] 17/24 quite [4] 4/17 38/10 for property and the property of the pro	i i	1				
guite [4] 4/17 38/10 57/9 95/5 quoting [1] 79/18 R radio [1] 59/19 raised [2] 33/15 86/3 raises [2] 57/6 59/4 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 51/25 30/5 raising [2] 51/25 30/5 ramiked [1] 35/9 ranked [1] 35/9 recopinate [2] 24/13 rate [9] 103/8 ranked [1] 35/9 reconsisable [2] rate [9] 103/8 rather [7] 1/17 4/19 rate [1] 103/8 rather [7] 1/17 4/19 recognisable [2] ratios [1] 14/14 reception [3] 62/8 rather [7] 1/17 4/19 recognisable [2] ratios [1] 14/14 reception [3] 62/8 rather [7] 1/17 4/19 recognisable [2] ratios [1] 14/14 reception [3] 62/8 ratios [1] 14/14 reception [3] 64/8 recepti	1	25/16 34/25 35/24	12/10 13/10 16/8			
67/7 95/5 quoting [1] 79/18 R radio [1] 59/19 raise [2] 57/6 59/4 raises [2] 57/6 59/4 raises [2] 33/15 86/3 ramifications [1] 29/13 range [4] 2/5 30/5 67/7 79/5 range [4] 103/18 range [4] 2/5 30/5 67/7 79/5 range [4] 103/18 range [4] 2/5 30/5 67/7 79/5 range [4] 103/18 range [4] 2/5 30/5 67/7 79/5 range [4] 103/18 rate [9] 25/8 25/9 25/13 39/18 66/2 87/7 62/7 receptions [7] 54/2 118/16 118/17 recognision [3] 62/8 77/16 84/11 rates [2] 33/2 53/8 rate [7] 1/7 4/19 30/17 38/7 82/22 95/2 51/13 37/5 reached [2] 26/3 37/24 reaction [1] 59/16				•		
quoted [2] 20/6 57/2 quoting [1] 79/18 R Rido [1] 59/19 raise [2] 57/6 59/4 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 57/8 59/4 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 57/8 59/4 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 55/8 59/8 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 55/8 59/8 59/14 84/5 90/15 119/7 recently [7] 54/2 61/13 66/2 85/16 86/19 91/17 recipient [2] 24/13 range [4] 25/3 30/5 67/17 85/16 86/19 91/17 recipient [2] 24/13 range [4] 25/8 25/9 25/9 11/13 29/19 52/12 84/16 94/19 52/12 84/16 94/19 52/12 84/16 94/19 52/12 84/16 94/19 52/12 84/16 94/19 54/			l			
A		i				
R radio [1] 59/19 raise [2] 57/6 59/4 raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 57/23 58/4 ramifications [1] 29/13 29/13 29/24 92/25 93/15 86/12 range [4] 2/5 30/5 67/7 79/5 ranked [1] 31/9 39/18 77/16 84/11 72/7 recipient [2] 24/13 44/7 racipient [7] 10/3 68/2 85/9 86/19 31/9 39/18 77/16 84/11 72/11 7	quoting [1] 79/18	ł				
radio [1] 59/19 raise [2] 57/6 59/4 raise [2] 57/6 59/4 raise [2] 57/6 59/4 raise [2] 57/6 59/4 raises [3] 166/17 raising [2] 51/23 58/4 ramifications [1] 29/13 range [4] 2/5 30/5 67/7 79/5 ranked [1] 35/9 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/7 recognisable [2] rare [1] 103/18 rate [9] 25/6 25/9 28/16 94/19 94/21 94/24 rate [9] 25/6 25/9 28/16 94/19 94/21 94/24 rate [1] 103/18 rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 recommendation [3] 45/17 recommendation [4] 37/5 recommendation [7] 7/7 recommendation [7] 59/16 7/7 78/5 16 8/70 88/19 90/15 119/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/7 62/7 recognisable [2] 111/16 18/17 recognisable [2] 111/16 18/17 recognisable [2] 111/17 22/11 50/10 55/19 58/6 67/1 recognisable [3] 111/17 22/11 50/10 55/19 58/6 67/1 recommendation [7] 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 110/9 30/17 38/7 82/22 95/2 30/18 31/4 35/3 7/17 62/7 recommendation [7] 30/17 38/7 82/22 95/2 30/18 31/4 35/3		l .				
raise [2] 57/6 59/4 raised [2] 33/15 86/3 raises [1] 106/1 racising [2] 51/23 58/4 84/5 90/15 119/7 recently [7] 54/21 86/6 99/23 range [4] 2/5 30/5 range [4] 2/5 30/5 range [4] 2/5 30/5 ranked [1] 35/9 rapidly [4] 31/9 39/18 rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 94/24 rates [2] 23/23 58/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 110/9 ratios [1] 110/9 ratios [1] 110/9 ratios [1] 114/14 re [1] 37/5 recommend [3] 45/1 76/19 98/24 reaction [1] 59/16 85/20 86/5 90/13 92/24 92/25 93/15 93/20 96/8 99/23 recently [7] 54/21 100/11 104/15 105/6 106/14 111/15 10/6 106/14				i l		
raised [2] 33/15 86/3 raises [1] 106/1 raising [2] 51/23 58/4 racent [5] 5/18 9/14 84/5 90/15 119/7 raising [2] 51/23 58/4 racent [7] 5/18 9/14 84/5 90/15 119/7 raising [2] 51/23 58/4 racent [7] 5/18 9/14 84/5 90/15 119/7 raising [2] 51/23 58/4 racent [7] 5/18 9/14 84/5 90/15 119/7 raising [2] 51/23 58/4 racent [7] 5/17 79/5 range [4] 2/5 30/5 67/7 79/5 rapidly [4] 31/9 39/18 7/16 84/11 rare [1] 103/18 rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 74/2 74 racestale [2] 28/2 84/16 94/19 94/21 94/24 rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 re-emphasise [1] 37/5 re-emphasise [1] 37/5 re-emphasise [1] 5/18 84/5 90/15 119/7 recommend [3] 45/1 76/19 98/24 reaction [1] 59/16 recent [5] 5/18 9/14 84/5 90/15 119/7 recinity [7] 54/21 100/11 104/15 105/6 106/14 111/15 112/17 113/21 115/12 115/18 12/24 27/12 28/4 12/24 27/12 28/4 12/24 27/12 28/4 12/24 27/12 28/4 12/24 27/12 28/4 12/24 27/12 28/4 12/24 27/12 28/4 12/24 27/12 28/4 12/21 67/2 12/24 27/12 28/4 12/21 66	radio [1] 59/19		l			
raises [1] 106/1 raising [2] 51/23 58/4 ramifications [1] 29/13 range [4] 2/5 30/5 67/7 79/5 ranked [1] 35/9 rapidly [4] 31/9 39/18 rate [9] 25/8 25/9 25/71 32/19 52/12 rates [2] 33/23 53/8 rate [7] 1/17 4/19 39/19 39/12 rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 1109/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16						
raising [2] 51/23 58/4 ramifications [1] 29/13 range [4] 2/5 30/5 67/7 79/5 ranked [1] 35/9 rapidly [4] 31/9 39/18 77/16 84/11 rare [1] 103/18 rate [9] 25/8 25/9 25/11 32/14 50/14 24/2 rates [2] 33/23 53/8 rates [2] 33/23 53/8 rates [2] 33/23 53/8 rates [2] 33/23 53/8 rates [2] 116/9 ratios [1] 114/14 re [1] 37/5 recommend [3] 45/7 recommend [3] 45/7 recemphasise [1] 114/14 re [1] 37/5 recommend [3] 45/3 recommend [3] 45/3 recommend [3] 45/3 reference [3] 114/14 re [1] 37/5 recommendation [7] regarded [2] 28/13 37/24 reaction [1] 59/16						
ramifications [1] 29/13 range [4] 2/5 30/5 e7/7 79/5 recipient [2] 24/13 4/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/17 62/7 recognisable [2] 118/16 118/17 recognisable [2] 118/16 118/17 recognisable [3] 118/16 118/17 recognisable [4] 14/12 recognisable [5] 118/16 118/17 recognisable [5] 118/16 118/17 recognisable [5] 118/16 118/17 recognisable [1] 118/16 118/17 recognisable [3] 118/16 118/17 recognisable [3] 18/16 18/17 recognisable [3] 18/16 18/17 recognisable [3] 18/16 18/17 recognisable [4] 18/17 recognisable [5] 18/16 18/17 recognisable [3] 18/16 18/17 recognisable [4] 18/17 recognisable [5] 18/16 18/17 recognisable [3] 18/16 18/17 recognisable [4] 18/17 recognisable [5] 18/16 118/17 recognisable [5] 18/16 18/17 recognisable						
29/13 range [4] 2/5 30/5 67/7 79/5 recipient [2] 24/13 44/7 recipient [2] 24/13 free ferences [4] 5/15 7/10 57/24 61/10 referred [13] 2/13 recognisable [2] 118/16 118/17 recognisable [3] 114/14 parket [1] 14/14 recognisable [1] 15/5 recognition [3] 62/8 75/7 77/21 recoglection [2] 110/19 reterring [3] 6/18 6/19 98/24 recommend [3] 45/1 76/19 98/24 recommend [3] 45/1 66/4 66/4 84/19 regarded [3] 12/22 28/18 45/4 reaction [1] 59/16 recognical [3] 12/22 28/18 45/4 recommend [3] 11/4 14 recipient [2] 24/13 36/14 98/10 99/25 remove [1] 17/1 remove [1] 15/2 remove [1] 15/2 reponding [1] 80/16 responded [2] 71/12 109/20 110/12 111/17 responding [1] 80/16						
range [4] 2/5 30/5 67/7 79/5 ranked [1] 35/9 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/17 62/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/17 62/7 recognisable [2] 118/16 118/17 recognisable [3] 12/24 27/12 28/4 29/10 46/16 54/9 recognistion [3] 62/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 reached [2] 26/3 37/24 reaction [1] 59/16 reaction [1] 59/16 recipients [7] 24/13 55/13 66/24 references [4] 5/15 removed [1] 17/1 removed [1] 15/2 responsibilities [1] 66/5 66/9 94/7 100/3 responsibilities [1] 60/17 responsibility [2] 29/7 38/23 responsibility [2] 11/19 responsibility [2] 29/7 38/23 responsibility [2] 11/2 responsibility [2] 29/7 38/23 reflection [1] 57/7 refreshment [1] 1/19 responsibili						
77/7 79/5 ranked [1] 35/9 rapidly [4] 31/9 39/18 77/16 84/11 rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 94/24 rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 59/16 44/17 recipients [7] 24/4 29/12 30/18 31/4 35/3 7/10 57/24 61/10 referreces [4] 5/15 7/10 57/24 61/10 referred [13] 2/13 12/24 27/12 28/4 29/10 46/16 54/9 54/13 55/13 66/22 69/9 84/9 97/8 referring [3] 6/18 62/20 84/5 report [37/49/8 100/3 responsibilities [1] 60/17 resp	1				respect [1] 100/8	
ranked [1] 35/9 rapidly [4] 31/9 39/18 77/16 84/11 rare [1] 103/18 rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 94/24 rates [2] 33/23 53/8 ratete [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/17 62/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/17 62/7 recipients [7] 24/4 29/2 30/18 31/4 35/3 47/17 62/7 recognisade [2] 118/16 118/17 7/10 57/24 61/10 referred [13] 2/13 12/24 27/12 28/4 29/10 46/16 54/9 29/10 46/16 54/9 29/10 46/16 54/9 referring [3] 66/22 69/9 84/9 97/8 62/20 84/5 referring [3] 6/18 62/20 84/5 referring [1] 57/5 referring [3] 6/18 62/20 84/5 referring [1] 57/5 referring [3] 6/18 62/20 84/5 r				• •		
rapidly [4] 31/9 39/18 77/16 84/11 rare [1] 103/18 rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 94/24 78/77 77/21 recognision [3] 62/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 7/10 5/12 47/12 47/10 7/10 5/12 47/12 28/4 7/17 62/7 recognisable [2] 118/16 118/17 12/24 27/12 28/4 29/10 46/16 54/9 20/10 4/10 4/10/1 20/11 10/3 29/13 43/13 44/4 29/10 4/16 54/9 29/10 46/16 54/9 20/14 24/2 20/15 50/2 20/17 50/2 20/17 50/2 20/17 50/2 20/17 50/2 20/17 50/2 20/17 50/2 20/17 50/2	ranked [1] 35/9					
77/16 84/11 rare [1] 103/18 rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 94/24 rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 59/16 4//17 62// recognisable [2] 118/16 118/17 recognisable [2] 29/10 46/16 54/9 54/13 55/13 66/22 69/9 84/9 97/8 referring [3] 6/18 62/20 84/5 report [37/10/3 reparted[1] 58/23 replacement [2] 32/2 117/19 60/17 responsibilities [1] 62/20 84/5 report [37/6/26/21 report [3] 6/28 report [3] 6/26 responsibilities [1] 60/17 responsibilities [1] 60/17 responsibilities [1] 60/17 responsibility [2] 29/7 38/23 responsibility [2] 29/7 38	rapidly [4] 31/9 39/18			• •		
rate [9] 25/8 25/9 25/11 32/19 52/12 84/16 94/19 94/21 94/24 94/24 94/24 94/29 30/17 38/7 82/22 95/2 110/9 recommend [3] 45/1 7e-emphasise [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 118/16 118/17 recognised [6] 14/11 22/11 50/10 55/19 54/13 55/13 66/22 69/9 84/9 97/8 referring [3] 6/18 62/20 84/5 referring [3] 6/26 7/19 12/11 12/17 23/12 36/18 38/9 12/20 61/22 71/22 117/18 restricted [1] 84/21 restricted [1] 84/21 restricting [1] 17/5 result [5] 9/15 15/17 75/11 RLIT0000200 [1] 90/24 RLIT0000200 [1] 90/24 RLIT0000200 [1] 5/1	77/16 84/11					
25/11 32/19 52/12 84/16 94/19 94/21 94/24	rare [1] 103/18					
84/16 94/19 94/21 94/21 94/21 94/21 94/24 rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16	rate [9] 25/8 25/9	i e				
64/10 94/24			l			
rates [2] 33/23 53/8 rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 recognition [3] 62/8 75/7 77/21 refers [6] 6/18 19/7 34/21 36/17 49/10 34/21 36/18 38/9 12/20 61/22 71/22 11/18 responsible [5] 8/9 12/20 61/22 71/22 11/24 responsible [5		l .				
rather [7] 1/17 4/19 30/17 38/7 82/22 95/2 110/9 ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 75/7 77/21 76/19 12/11 12/17 23/12 36/18 38/9 12/20 61/22 71/22 110/1 39/13 43/13 44/4 45/11 50/8 50/23 75/22 69/22 81/23 75/22 69/22 81/23 75/24 75/7 77/21 7/19 12/11 12/17 23/12 36/18 38/9 110/1 75/17 18 71/19 12/11 12/17 23/12 36/18 38/9 12/20 61/22 71/22 117/18 76/19 98/24 75/7 77/21 7/19 12/11 12/17 23/12 36/18 38/9 12/20 61/22 71/22 117/18 76/19 98/24 75/7 77/21 7/19 12/11 12/17 7/19 12/11	l .					
Tecollection [2] 10/17 38/7 82/22 95/2 10/9 115/5 recommend [3] 45/1 76/19 98/24 recommendation [7] 8/23 39/18 65/11 65/14 65/21 66/4 reaction [1] 59/16 recollection [2] 10/9 115/5 recollection [2] 110/1 23/12 36/18 38/9 39/13 43/13 44/4 45/11 50/8 50/23 reflection [1] 57/7 refreshment [1] 1/19 8/23 39/18 65/11 66/4 28/18 45/4 28/18 45/4 94/14 97/7 97/11 98/1 resulted [2] 10/4 RLIT0000076 [1] 46/6 RLIT0000076 [1] 46/6 RLIT00000180 [1] 75/11 RLIT0000200 [1] 90/24 RLIT0000200 [1] 90/24 RLIT0000200 [1] 5/1						RLIT0000054 [1] 24/2
109/19 115/5 recommend [3] 45/1 refined [1] 76/23 reflection [1] 57/7 refreshment [1] 1/19 regardd [2] 26/3 37/24 reaction [1] 59/16 recommend [3] 45/1 refined [1] 76/23 reflection [1] 59/16 recommendation [7] state of the commendation [7] state		l .				
ratios [1] 114/14 re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 recommend [3] 45/1 76/19 98/24 recommendation [7] 8/23 39/18 65/11 65/14 65/21 65/21 66/4 refined [1] 76/23 reflection [1] 57/7 refreshment [1] 1/19 regard [2] 24/1 39/19 regarded [3] 12/22 28/18 45/4 refined [1] 76/23 reflection [1] 57/7 refreshment [1] 1/19 8/23 39/18 65/11 65/14 65/21 65/21 66/4 restricted [1] 84/21 restricting [1] 17/5 result [5] 9/15 15/17 47/4 72/23 77/19 resultant [1] 119/18 resulted [2] 10/4 RLIT0000169 [1] 46/6 RLIT0000169 [1] 46/6 RLIT0000109 [1] 75/11 RLIT0000200 [1] 90/24 RLIT0000209 [1] 5/1		109/19 115/5		39/13 43/13 44/4		
re [1] 37/5 re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 reflection [1] 5/// refreshment [1] 1/19 regard [2] 24/1 39/19 regarded [3] 12/22 28/18 45/4 reflection [1] 5/// refreshment [1] 1/19 regard [2] 24/1 39/19 regarded [3] 12/22 28/18 45/4 reflection [1] 5/// refreshment [1] 1/19 82/9 83/14 84/7 84/18 85/10 88/4 89/4 89/7 90/8 93/17 93/21 resulted [2] 10/4 RLIT0000180 [1] 75/11 RLIT0000200 [1] 90/24 RLIT0000200 [1] 90/24 RLIT0000200 [1] 91/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5						RLIT0000169 [1] 46/6
re-emphasise [1] 37/5 reached [2] 26/3 37/24 reaction [1] 59/16 recommendation [7] 8/23 39/18 65/11 65/21 65/21 65/21 66/4 reaction [1] 59/16 recommendation [7] refreshment [1] 1/19 8/29 83/14 84/7 84/18 result [5] 9/15 15/17 47/4 72/23 77/19 85/10 88/4 89/4 89/7 90/8 93/17 93/21 90/8 93/17 93/21 resulted [2] 10/4 resulted [2] 10/4 RLIT0000209 [1] 5/1	re [1] 37/5					
reached [2] 26/3 37/24 65/14 65/21 65/21 66/4 regard [2] 24/1 39/19 88/10 88/4 89/4 89/7 47/4 72/23 77/19 7/4 72/23 77/19 8/23 39/18 65/11 65/14 65/21 65/21 66/4 regarded [3] 12/22 90/8 93/17 93/21 resultant [1] 119/18 90/24 RLIT0000209 [1] 5/1	re-emphasise [1] 37/5					
37/24 reaction [1] 59/16 66/4 regarded [3] 12/22 90/8 93/17 93/21 resultant [1] 119/18 90/24 RLIT0000209 [1] 5/1	reached [2] 26/3	8/23 39/18 65/11				
reaction [1] 53/10	37/24					
(48) purchased - RLIT0000209	reaction [1] 59/16	00/4	20/10/40/4	94/14 97/1 97/11 98/1	resulted [2] 10/4	KL1100000209[7] 5/7
(48) purchased - RLIT0000209						
	L	L	L	L	(48)	purchased - RLIT0000209

Б		74/04 74/5 04/40 04/0		46/40 47/40 67/0	-h[2] 20/E 22/44
R	satisfy [1] 31/19 Savage [1] 112/9	71/21 74/5 81/19 84/2 85/24 86/15 86/16	sensitive [4] 34/19 49/9 55/13 63/16	46/10 47/10 67/2 85/11	show [3] 30/5 33/14 42/9
RLIT0000215 [1]	saving [1] 17/4	89/13 93/3 98/7	sent [3] 45/19 110/20	Services' [1] 88/8	showed [4] 49/7
26/25	saw [4] 46/1 62/17	103/25 104/1 105/6	119/10	set [9] 27/3 27/18	57/16 78/24 88/10
RLIT0000217 [1] 32/6	112/12 112/24	106/8 107/12 109/2	sentence [6] 14/14	30/14 40/6 54/24	showing [4] 2/4 2/7
RLIT0000220 [1] 36/7	say [7] 3/1 44/20	111/8 113/16 115/15	28/23 61/12 65/4 79/1	86/21 99/14 101/11	29/19 87/20
RLIT0000226 [1]	57/20 80/6 81/16	118/11 119/5	85/24	102/19	shown [3] 51/9 61/13
67/14	108/12 122/7	seconds [2] 121/23	September [11] 1/1	sets [2] 23/9 84/6	82/23
RLIT0000228 [1]	saying [8] 53/15	122/5	22/6 36/11 38/4 38/17	seven [3] 25/20 51/8	sic [1] 18/4
68/21 RLIT0000233 [1]	79/15 79/15 79/23	secretary [1] 73/25	69/22 77/6 92/22	110/3	side [1] 49/22
104/25	79/24 99/17 99/18	sections [1] 88/17	92/25 93/16 94/14	several [10] 20/12	significance [4] 76/1
RLIT0001219 [1]	108/2	secured [1] 24/9	September 1946 [1]	67/9 69/3 89/18	76/21 89/9 115/6
33/13	says [38] 10/21 16/9	Security [7] 38/19	22/6	102/18 104/17 105/10	significant [6] 4/11
RLIT0001234 [1] 5/19	18/21 22/10 23/18	72/19 77/5 87/3 88/25	September 1969 [1]	113/17 118/2 118/15	12/22 24/22 35/7 65/7
RLIT0001237 [1] 5/19	26/8 28/17 29/5 33/17	108/1 121/12	36/11	severe [10] 37/2 50/4	83/14
RLIT0001238 [1] 5/19	33/24 36/14 36/17	see [84] 6/5 6/18 8/21	sequela [1] 22/12	64/23 75/14 75/19	significantly [3] 25/9
RLIT000223 [1] 45/14	36/21 39/21 40/13	8/23 9/9 9/24 11/7	sequelae [2] 14/12	78/8 79/6 85/4 86/23	33/8 64/9
role [2] 50/6 76/2	42/2 47/8 47/13 49/11	13/1 13/8 16/21 18/4	89/16	117/24	signs [2] 69/7 88/1
room [1] 9/12	54/20 55/3 59/25 62/22 65/23 74/12	19/11 19/12 19/16 19/24 20/16 22/1 22/9	sera [1] 49/6 serially [1] 6/25	severity [1] 16/15 sexual [3] 100/15	similar [9] 8/13 37/4 55/11 65/1 69/8 72/11
roughly [1] 58/10	74/20 80/1 80/18 85/3	23/10 24/3 27/1 27/6	series [4] 24/19 34/20	100/20 102/17	86/18 100/25 107/19
route [4] 46/18 69/12	91/5 100/6 101/1	28/10 30/13 31/14	59/24 80/12	sexually [4] 95/11	similarities [1] 102/11
69/13 95/21	101/4 105/7 105/20	34/15 38/12 38/15	serious [17] 20/8	97/24 107/18 117/17	simply [2] 17/16
routes [2] 17/17 67/7	108/6 109/2 111/16	39/8 39/15 39/25	24/22 32/10 33/21	SH [1] 46/23	88/13
row [5] 32/14 32/22	SBTS0000315 [1]	40/24 43/6 43/19 46/3	40/18 42/13 46/13	share [1] 86/18	since [14] 14/4 14/9
33/1 33/6 52/15	108/11	46/24 46/25 48/9	49/24 50/9 60/18	shared [3] 2/16 88/24	14/24 22/22 22/25
Royal [13] 22/2 36/13	scale [1] 39/5	50/21 51/15 59/5	74/21 75/8 77/22	122/20	23/3 26/17 26/21
65/19 65/19 66/3 66/6 73/17 78/1 102/5	scans [1] 88/17	62/14 64/3 66/13	81/15 84/15 84/19	sharing [2] 117/3	35/15 71/5 83/17 96/3
110/22 110/23 112/10	School [6] 34/10	66/20 67/7 67/15 69/1	106/1	117/23	104/10 109/12
115/19	34/14 41/24 71/16	72/8 73/20 75/7 78/4	seriously [1] 20/10	she's [2] 108/6 108/6	single [3] 4/22 30/25
rule [1] 11/3	71/17 75/17	81/13 81/24 82/6 85/8	seriousness [2] 4/1	Sheffield [5] 69/24	32/18
ruled [1] 91/6	Science [4] 50/23	86/4 86/8 87/2 87/4	67/18	70/3 75/16 75/16	sir [36] 1/5 1/24 3/18
run [1] 58/3	90/25 92/5 105/1	87/6 88/22 89/1 89/3	serological [2] 48/25	112/6	4/22 19/25 37/15
	scientific [5] 2/6	93/3 93/13 93/17 98/4	49/5	Sheila [2] 72/4 72/5	37/24 43/15 46/2
<u>S</u>	48/10 67/13 81/18 95/2	98/7 100/19 102/20 105/18 107/22 107/23	serologically [1] 64/2 serum [72] 7/3 7/4	Sherlock [1] 72/5 Shinton [1] 112/14	53/16 56/1 56/23 59/3 59/8 59/9 60/11 65/11
safe [2] 45/2 123/2	Scientist [3] 72/18	110/20 111/8 112/1	8/12 8/14 8/16 9/2	Shone [1] 22/8	71/10 73/10 77/21
safely [2] 1/18 70/15	109/16 109/21	112/23 115/16 115/20	9/23 10/1 10/4 10/4	short [6] 37/22 46/15	79/9 79/25 92/1 94/6
safety [6] 33/5 41/13	scientists [1] 109/22	115/23 117/2 117/7	10/15 10/19 11/6 13/4	50/15 51/3 64/25	94/22 97/9 99/16
73/3 87/15 106/2	scope [1] 38/16	119/2	13/18 14/17 14/21	92/20	100/5 100/10 101/18
120/4	score [1] 63/7	seeing [1] 109/19	14/25 15/11 15/18	short-incubation [1]	110/16 111/7 115/3
said [16] 5/21 9/14 20/18 32/17 34/16	Scotland [2] 28/2	seem [1] 102/11	15/20 16/2 16/4 16/7	51/3	115/11 118/7 120/10
39/15 45/25 45/25	118/25	seemed [2] 49/3	16/11 16/16 16/18	short-term [2] 50/15	sit [1] 4/19
77/10 78/5 78/6 80/5	Scottish [6] 28/3 28/5	79/23	16/24 17/3 17/12	64/25	sitting [1] 54/1
92/5 93/8 116/1 116/9	28/6 28/7 28/11 38/19	seemingly [1] 94/23	17/16 17/22 18/15	shorter [1] 5/14	six [10] 10/6 25/16
same [12] 22/17	scouring [1] 109/22	seems [7] 4/18 45/18	18/23 21/24 21/24	shortly [2] 45/24	50/13 50/17 51/8
33/13 33/14 53/9	screen [9] 5/16 15/8	47/3 52/21 75/3 79/5	21/25 22/8 22/13	110/16	64/25 78/8 114/2
62/16 63/1 68/20 85/7	22/4 29/24 34/5 55/23	87/25	22/18 22/19 22/21	should [47] 3/1 3/4	115/25 118/12
88/11 88/23 89/22	85/6 85/8 114/10	seen [8] 12/21 46/7	23/7 24/4 25/5 25/18	5/23 9/18 12/3 13/7	six months [1] 25/16
102/15	screened [1] 60/3 screening [4] 52/17	56/5 57/23 62/17 89/22 92/7 108/13	26/1 26/12 26/14 26/18 27/7 28/25	17/4 17/23 18/1 21/4 21/10 21/15 25/23	sixth [1] 42/23 size [5] 17/5 33/23
sample [1] 120/5	70/2 82/17 121/7	sees [1] 73/6	28/25 30/14 30/16	29/3 29/15 31/19 33/7	35/14 57/16 59/2
sampling [1] 17/6	scroll [6] 24/17 66/20	selected [1] 71/6	32/13 32/23 33/9	34/1 34/22 35/17	sizes [1] 57/20
San [5] 97/8 97/12	101/9 102/2 107/22	selection [1] 59/20	34/18 36/13 36/15	35/22 37/7 38/14	skid [5] 32/14 32/21
104/15 113/22 117/25	108/20	self [1] 70/24	36/25 37/8 37/12 40/4	39/18 40/17 41/7	33/1 33/6 52/15
San Francisco [4]	seats [1] 1/18	self-limiting [1] 70/24	40/7 40/17 40/24	41/16 41/17 48/1 48/2	skip [3] 7/24 107/7
97/8 104/15 113/22 117/25	second [39] 2/21 3/23		46/20 47/3 47/9 51/5	63/25 65/22 74/7 75/5	121/4
sarcoma [5] 82/10	5/5 6/14 15/25 17/20	send [1] 21/12	servants [1] 2/25	76/4 76/19 96/16	skipping [4] 28/23
83/15 83/25 85/2	35/9 36/18 38/12	sending [1] 111/1	service [4] 28/11	96/24 97/1 98/11	69/18 79/1 109/25
89/17	42/15 55/2 56/16	senior [4] 12/19 12/21	1	98/18 99/1 116/16	small [13] 5/12 11/13
satisfactory [1] 31/11	56/20 59/25 61/12	19/17 39/10	services [8] 9/10	116/18 116/22 116/23	15/22 26/13 26/19
	63/13 63/14 70/13	sense [2] 80/4 87/19	19/18 19/19 39/6	121/1	26/21 29/2 30/18
L	I	L	<u> </u>		(40) DI IT0000345 amali

(49) RLIT0000215 - small

S	121/13 122/23	Stanford University	subjected [1] 55/12	112/6	taking [3] 17/14 88/8
	compone [2] 54/1	[2] 41/24 62/13	subjects [1] 31/3	surely [1] 35/25	114/9
small [5] 34/20 63/6	88/8	stark [2] 81/17 83/11	subsequent [2] 25/5	surface [4] 30/1 61/4	talks [1] 101/6
95/5 95/16 106/15	something [7] 20/2	start [5] 1/24 4/22	39/12	65/13 90/16	targets [1] 60/21
smaller [1] 58/25	21/2 50/13 57/7 81/14	4/23 56/16 122/13	subsequently [7]	surgeon [1] 8/25	task [2] 98/23 110/2
Smith [1] 87/13	101/12 121/12	startling [1] 61/15	10/18 20/5 49/18	surgery [5] 35/19	Taylor [1] 9/14
so [113] 1/6 1/12 1/20	sometimes [2] 21/11	state [5] 24/9 33/2	97/16 104/14 109/13	35/20 41/24 49/6	Taylor's [1] 9/12
1/20 1/24 2/6 2/11	51/4	69/16 77/19 113/24	115/7	109/24	team [2] 8/24 112/14
3/18 4/15 5/24 6/2	somewhat [2] 20/19	stated [1] 7/19	substance [1] 8/17	Surveys [1] 82/22	technical [3] 39/10
6/15 6/18 7/4 7/14 8/4	83/10	statement [1] 70/20	substantiate [1] 66/10		88/17 90/11
10/1 10/25 12/21 15/6	somewhere [2] 18/12	States [36] 5/3 7/17	such [17] 12/5 14/12	susceptibility [1] 31/5	television [2] 59/24
15/16 17/7 18/10	58/16	7/20 32/8 43/6 44/23	22/16 26/22 33/7	susceptible [3] 30/22	60/15
20/25 24/17 25/24	soon [1] 39/22	44/25 51/12 52/9 53/1	35/25 45/8 45/9 47/17	53/12 62/7	tell [1] 100/6
27/1 29/15 36/3 37/17	sorry [12] 5/23 10/23	53/5 57/13 57/24	49/25 50/2 69/5 76/19	suspect [1] 96/7	tells [1] 52/3
37/19 38/10 39/3	18/20 36/22 38/14	58/13 58/23 62/20	76/23 88/18 114/10	suspected [1] 120/24	tempted [1] 88/13
39/21 40/19 40/21	54/11 60/24 61/9	81/1 81/24 84/3 84/6	120/20	suspend [1] 9/1	tempts [1] 53/9
41/3 41/18 44/21	73/24 74/7 121/25	88/12 88/24 89/7 90/3	suffer [1] 31/6	suspicion [3] 8/16	ten [11] 26/18 32/15
45/24 46/24 48/14	122/1	93/6 93/22 97/3 98/6	suffering [5] 7/6 8/15	16/15 105/9	64/13 68/4 68/8 68/16
50/8 50/14 50/16	sort [1] 87/22	99/18 116/4 116/9	17/15 40/19 113/7	symbiosis [1] 6/25	79/7 85/4 107/14
51/15 53/12 53/16	sought [1] 21/16	116/16 117/8 117/13	suffices [1] 32/11	symposium [1] 78/1	113/8 122/14
53/20 54/13 54/14 55/7 56/11 56/20	sounds [1] 53/23	118/21 120/11	sufficient [1] 100/3	symptom [2] 70/7	ten o'clock [1] 122/14
57/16 58/4 58/25	source [3] 15/21 37/7	status [1] 120/6	sufficiently [1] 94/9	71/2	tend [1] 53/11
60/24 61/7 61/11 62/8	52/14	stay [1] 123/2	suggest [4] 92/12	symptom-free [2]	tendency [1] 70/4
64/25 65/19 67/13	sources [5] 2/5 52/4	stays [1] 45/17	100/24 103/14 118/14	70/7 71/2	tends [1] 53/6
69/1 72/2 74/10 77/21	52/8 60/3 64/12	step [1] 35/22	suggested [13] 3/11	symptomatology [2]	tenuous [1] 102/22
78/20 79/21 79/21	space [1] 59/19	steps [2] 99/14 117/6	5/13 9/15 11/4 17/9	22/7 23/8	term [12] 50/1 50/9
80/8 80/15 81/2 82/8	sparks [1] 105/2	still [11] 9/6 15/25	21/11 21/13 63/20	symptomless [1]	50/15 50/15 63/20
83/8 84/3 85/10 86/4	speak [1] 54/3	17/8 21/17 23/23	96/25 100/2 102/13	78/16	63/25 64/25 64/25
89/7 90/20 91/21	speaking [1] 3/18	43/12 48/13 52/21	116/22 118/2	symptoms [1] 69/7	74/21 75/9 89/16
93/13 95/1 95/19 97/3	specific [2] 34/17	54/7 65/9 99/4	suggesting [2] 65/21	syndrome [16] 90/19	118/9
99/5 99/16 100/9	113/11	Stockholm [1] 116/2	99/24	93/6 93/7 93/19 93/22	terminology [3] 46/24
101/2 101/11 101/15	specifically [3] 4/13	Stocks' [1] 20/7	suggestion [3] 59/6	94/2 97/10 99/10	51/15 64/4
101/19 103/23 104/23	60/20 76/10	stop [1] 122/11	96/8 118/8	108/16 109/3 113/1	terms [8] 1/7 21/19
106/25 107/22 108/10	specimens [2] 38/24	stopping [1] 9/4	suggestions [3] 3/14	113/4 114/1 116/1	38/13 38/21 47/17
108/14 109/20 110/14	68/8	storage [2] 28/20	28/12 105/16	116/2 116/25	47/20 83/11 115/6
110/20 112/1 112/16	spectrum [2] 70/8	28/21	suggestive [1] 78/17	syphilis [2] 33/18	test [4] 30/25 41/8
114/2 115/1 118/7	70/23	straight [1] 101/11	suggests [7] 49/12	45/10	43/3 73/9
118/19 121/17 121/17	speculation [1] 95/9	strain [3] 50/23 51/7	52/18 76/13 86/1	syringe [1] 23/22	tested [2] 48/12 87/23
122/7 122/12 122/13	spend [1] 54/25	81/9	86/25 97/22 115/9	syringes [2] 22/19	testing [8] 38/5 38/24
social [9] 38/19 57/13	spent [1] 52/3	strains [3] 51/1 51/12	suitable [1] 76/18	95/11	40/16 40/22 41/12
67/2 72/19 77/5 87/3	spontaneously [1]	81/11		system [7] 20/14 21/3	
88/25 108/1 121/11	14/11 spread [11] 27/19	Street [1] 112/5	116/8	35/23 36/4 45/3 45/5 88/11	tests [10] 31/1 34/17
Society [8] 22/2 90/4	51/5 67/5 69/13 91/10	strength [1] 31/24	summary [13] 23/14 25/2 32/12 41/2 41/3	systematic [2] 14/8	34/19 40/11 55/13 63/16 66/1 70/3 75/21
90/5 99/19 99/20	96/20 105/2 105/5	strengthen [1] 89/25	49/1 70/1 75/17 89/4	70/2	82/22
101/17 110/25 119/20	107/9 107/14 110/5	stress [2] 12/6 12/19 strictly [1] 37/7	96/5 111/1 111/9	systems [1] 101/20	text [2] 61/10 90/10
socio [1] 52/23	spreading [1] 105/9	strikingly [1] 86/18	114/13		Thames [2] 74/2 74/3
socio-economic [1]	spreads [1] 95/13	strong [1] 16/15	summer [1] 5/9	T	than [36] 1/13 1/16
52/23	spring [1] 5/8	studied [1] 33/4	summing [1] 20/18	T4 [1] 114/14	4/19 8/17 14/17 23/1
some [45] 2/16 3/12	Spurling [1] 22/8	studies [6] 63/7 65/3	supplied [1] 88/21	T4/T8 [1] 114/14	30/17 40/15 42/17
4/7 5/13 13/17 16/17	St [1] 112/10	69/4 73/8 106/14	suppliers [1] 121/6	T8 [1] 114/14	47/4 48/17 49/2 50/4
16/19 20/6 20/22	Stability [1] 62/21	106/15	supply [5] 12/18 28/9	take [12] 4/17 31/22	52/20 53/12 57/12
20/24 21/12 21/21	staff [2] 29/16 73/1	study [10] 17/22 21/2	63/2 119/18 120/5	33/10 36/20 37/16	58/24 63/22 64/11
27/22 28/12 31/6 31/7	staffing [2] 39/5 41/13		support [3] 67/11	37/19 54/4 56/25	64/14 64/18 64/23
35/19 40/15 45/24	stage [11] 27/9 44/21	75/11 76/13 88/16	98/2 105/22	58/13 91/20 92/18	65/25 67/6 74/18
46/16 46/21 50/7 53/4	73/4 78/9 84/23 84/24	120/6	supported [1] 117/20	106/21	74/23 82/22 94/20
59/1 61/23 72/21 77/7	85/22 90/21 94/9	subclinical [1] 7/7	supports [1] 70/20	taken [8] 11/9 12/4	95/2 101/22 102/24
79/6 80/23 81/1 83/3	94/23 111/18	subcommittee [1]	suppose [1] 44/8	33/5 59/21 87/21	110/9 112/23 114/16
87/19 87/19 93/9	stages [2] 4/12 81/5	11/13	supposed [1] 96/13	117/2 117/6 119/25	115/9 116/5
104/19 110/24 112/6	standards [1] 75/4	subject [6] 1/8 4/14		takeover [1] 77/8	thank [11] 6/1 6/5
113/6 114/9 115/9	Stanford [2] 41/24	9/19 11/21 14/22	sure [6] 4/17 54/1	takers [1] 87/22	8/21 41/3 54/12 59/8
116/6 117/3 118/19	62/13	72/20	79/25 81/3 100/5	takes [1] 28/1	61/10 106/24 115/25
					(50) small thank

91/24 92/5 92/11 77/10 83/16 92/6 title [4] 13/3 19/15 43/2 43/24 44/6 46/9 90/14 98/24 106/7 93/24 95/19 96/8 94/16 117/14 61/3 89/4 47/10 48/14 48/24 106/20 113/10 117/10 thank... [2] 122/12 96/19 96/21 98/4 this [276] to [685] 49/4 49/13 49/15 51/4 **Treloars [1]** 112/8 123/1 98/11 98/16 99/13 Thomas' [1] 112/10 to May 1981 [1] 82/2 51/10 51/13 52/19 trials [1] 73/3 that [325] 101/10 102/10 102/18 those [41] 2/4 2/16 today [10] 1/6 1/25 53/12 61/14 61/16 triggered [1] 65/11 that's [44] 1/20 2/22 103/9 103/13 106/14 3/7 4/12 5/19 6/17 1/25 2/15 2/21 3/1 64/10 64/14 64/15 troops [2] 5/8 5/9 3/8 3/11 3/12 7/4 7/12 108/18 109/14 110/16 27/16 29/7 29/12 4/15 4/17 5/21 121/16 65/24 67/6 67/21 tropic [1] 53/22 10/12 12/24 12/24 111/11 113/7 113/11 29/21 29/23 37/14 77/12 82/18 87/11 Tropical [2] 34/10 today's [1] 3/13 13/8 13/16 15/6 17/20 41/20 51/10 53/9 54/5 together [2] 59/22 88/8 90/6 91/16 97/9 34/14 114/21 115/1 115/8 28/15 36/22 48/6 52/2 116/6 116/13 117/2 55/21 57/12 58/20 97/15 100/22 104/13 troubled [1] 52/16 100/23 53/18 54/3 56/18 117/5 118/19 119/2 58/21 59/5 73/13 told [3] 11/12 19/25 109/7 109/20 110/11 **try [2]** 7/10 93/9 58/18 59/4 62/19 66/3 119/18 120/10 122/1 74/23 82/25 83/10 41/18 119/1 119/24 120/3 turn [6] 9/6 13/7 78/4 66/22 67/13 74/2 122/19 84/21 85/5 85/9 86/14 tomorrow [6] 4/19 transfusion ... on [1] 88/20 119/5 122/16 79/23 80/17 84/23 there's [19] 4/22 7/25 86/18 89/10 98/21 4/20 108/8 118/23 13/21 turned [1] 84/10 86/4 89/16 93/13 94/2 12/10 16/6 36/6 45/11 98/24 102/12 102/19 122/13 123/2 transfusion-associate turning [1] 26/2 97/3 102/10 104/15 60/1 65/2 76/25 78/12 104/5 112/1 114/15 too [1] 55/17 d[1] 51/13 **TV [1]** 59/19 104/23 108/10 109/16 78/14 86/4 96/8 98/9 114/16 115/20 122/25 took [6] 72/15 89/8 transfusions [12] twenties [1] 113/16 117/1 117/25 119/12 101/10 103/18 106/14 though [5] 31/21 79/4 93/12 104/1 111/22 10/19 12/20 21/11 twice [1] 58/23 the reference [1] 108/2 118/19 92/10 95/7 110/14 112/24 23/5 24/20 25/4 32/13 two [38] 5/5 14/18 79/16 thought [6] 40/4 44/6 therefore [7] 23/5 top [8] 17/8 35/12 33/4 38/2 62/24 91/22 21/25 36/21 37/11 their [15] 31/5 34/23 32/4 35/20 39/18 53/4 66/12 116/5 60/6 68/11 70/1 95/6 97/15 43/25 46/10 46/14 39/8 48/4 53/8 58/5 63/23 75/1 114/18 116/10 107/24 111/8 transient [1] 31/7 51/1 52/7 56/2 57/17 62/25 63/2 93/1 these [36] 18/16 thousands [2] 2/18 total [2] 14/6 42/11 translate [1] 35/1 57/23 58/10 63/8 65/1 102/25 103/12 105/22 21/19 25/16 34/19 37/3 touching [1] 4/15 translation [1] 15/10 68/20 73/5 74/6 77/2 109/4 115/4 122/21 35/1 42/8 43/1 52/13 threat [2] 107/2 107/4 towards [7] 8/5 13/9 transmissibility [1] 78/9 80/9 81/2 83/18 them [6] 11/23 48/20 66/19 67/25 91/5 52/25 53/2 53/10 three [23] 14/5 21/23 118/17 86/12 92/10 94/18 71/13 82/6 83/20 82/3 85/15 85/18 66/21 68/8 70/4 70/5 102/1 109/2 transmissible [6] 96/18 99/23 100/14 98/15 71/22 71/25 76/1 86/10 86/18 86/24 trace [2] 37/8 82/6 28/24 86/1 90/1 104/8 104/10 104/19 110/18 theme [2] 62/16 68/20 traced [1] 42/25 77/20 78/16 78/22 89/10 89/21 90/16 109/4 114/20 111/4 114/2 114/3 themselves [1] 95/17 training [1] 39/3 80/25 81/3 81/10 90/20 91/17 93/23 transmission [16] 114/11 118/15 then [188] 83/18 83/23 84/20 96/2 100/13 102/8 transaminase [3] 3/21 17/16 30/13 twofold [1] 2/10 theoretical [1] 44/18 104/10 104/11 105/15 34/18 65/2 68/6 type [19] 32/20 49/16 86/17 96/4 96/12 30/21 33/16 46/12 theory [1] 107/17 103/3 103/11 105/16 113/14 115/22 118/4 transcribed [1] 60/25 68/23 69/12 73/5 86/2 61/14 61/17 63/18 therapeutic [3] 44/18 113/15 115/16 118/5 through [26] 2/17 transfer [1] 8/14 86/25 89/23 95/21 63/20 63/25 63/25 74/6 74/10 they [31] 6/8 6/21 3/21 3/22 4/18 13/6 transferred [1] 46/17 113/13 117/20 118/10 64/8 64/8 64/12 64/18 therapeutics [1] 16/4 64/19 64/22 64/23 19/8 39/11 39/19 48/2 24/9 36/20 38/11 transfuse [1] 31/25 transmit [2] 8/13 therapy [6] 24/21 48/3 52/9 52/9 53/24 40/24 51/5 82/5 82/7 transfused [11] 11/2 72/22 65/8 69/6 69/9 69/10 25/15 25/23 28/14 55/8 57/13 57/25 59/6 82/7 83/20 86/3 87/1 12/17 14/8 20/5 20/24 transmitted [19] 31/7 types [2] 74/6 74/10 98/25 99/1 59/7 62/23 62/24 63/2 91/15 95/11 96/9 42/4 42/11 42/14 33/19 33/21 44/7 there [113] 1/13 5/18 66/7 80/20 82/7 84/21 96/22 97/24 98/10 47/16 72/1 113/14 46/14 48/16 55/5 7/21 9/25 11/4 12/24 UK [14] 33/12 40/15 84/24 89/18 91/19 98/20 107/18 118/1 transfusing [1] 17/11 91/15 95/10 96/22 15/14 16/15 18/4 58/16 66/10 74/23 91/20 94/1 97/1 transfusion [110] 97/23 98/10 102/15 122/22 18/10 19/12 20/22 75/2 78/3 78/21 99/19 102/22 120/25 121/7 9/10 9/15 10/16 10/17 103/2 104/21 105/24 throughout [1] 84/17 29/9 29/17 29/24 107/18 114/24 117/16 114/2 114/8 116/7 they're [1] 22/1 thus [6] 21/21 31/10 10/25 11/10 11/12 30/13 30/19 30/19 50/5 64/12 65/5 77/19 119/9 119/19 thing [2] 92/4 94/23 11/14 11/22 11/24 transmitters [1] 45/9 33/22 34/17 35/17 things [1] 22/14 time [31] 1/18 10/9 12/7 12/9 13/10 13/21 transmitting [6] 33/9 UK somewhere [1] 37/10 39/15 39/21 think [30] 3/16 5/22 15/20 17/3 20/2 20/9 13/23 13/25 14/4 14/7 47/25 74/18 120/23 58/16 39/25 40/5 40/23 44/8 7/11 10/22 18/6 18/11 20/10 27/6 29/15 14/10 14/13 15/5 120/25 121/3 unanswerable [1] 44/22 45/3 46/10 47/8 26/23 26/15 27/11 31/14 29/16 34/15 36/20 15/20 15/23 17/3 17/4 transpired [1] 14/1 47/23 48/13 48/15 unclear [1] 29/11 32/9 32/11 49/17 45/24 47/20 51/2 18/25 19/16 19/19 transplant [1] 67/8 48/18 50/8 51/15 52/7 uncomplaining [1] 50/20 53/17 53/22 51/21 54/25 59/19 20/2 20/23 21/9 21/15 transportation [1] 54/11 55/4 55/6 55/17 56/24 57/24 68/20 62/4 64/4 82/13 88/3 22/12 22/23 23/2 23/7 28/22 16/20 57/9 57/15 57/23 73/13 78/2 88/2 91/7 88/23 92/1 98/14 23/21 25/15 25/22 treat [1] 44/10 under [32] 1/9 8/4 58/13 58/25 61/24 99/24 100/12 101/9 98/19 98/23 105/12 26/6 28/1 28/7 28/8 treatable [1] 70/25 8/16 14/19 16/21 21/7 62/9 63/21 64/24 101/10 111/23 112/6 110/24 112/22 113/19 28/11 28/14 28/18 treated [4] 43/20 24/16 25/2 30/12 65/18 66/12 66/12 29/3 29/6 29/14 30/9 76/20 82/3 106/17 30/14 31/17 33/16 115/17 121/15 times [9] 2/20 26/18 67/10 70/18 71/19 38/8 42/8 43/9 47/7 thinking [1] 80/3 32/15 42/17 43/16 30/11 31/16 32/5 treating [1] 97/2 72/2 72/4 72/10 74/14 55/2 67/24 70/7 70/12 third [19] 4/2 20/15 46/8 50/22 64/13 32/10 32/19 32/24 treatment [20] 15/24 75/7 77/21 78/10 74/6 78/5 80/1 80/6 23/11 42/19 50/10 111/6 33/17 33/25 34/12 31/21 44/1 44/16 79/15 80/3 81/7 81/10 50/25 51/13 51/25 timing [5] 1/7 1/9 1/21 34/24 35/5 35/24 36/5 47/21 71/8 73/1 74/9 81/25 86/15 89/14 83/8 85/20 86/5 86/21 61/18 61/20 64/7 39/10 40/19 41/7 42/1 75/5 76/17 76/17 4/16 122/12 104/17 105/8 108/15 87/13 89/1 91/21 110/2 118/5 66/18 69/14 70/11 tissue [2] 6/25 7/2 42/4 42/8 42/16 42/24 76/18 79/2 82/19

(51) thank... - under

	ı	Т			
U	114/10	19/2 33/3 33/7 37/3	88/14 88/20 89/24	43/19 46/10 56/25	108/13 111/21 115/6
undergoing [1] 71/5	until [13] 14/1 43/3	40/2 42/18 44/10	96/13 99/8 104/8	60/22 93/2 111/8	115/23 117/7
undergone [3] 78/20	53/3 56/25 61/25 64/1	44/15 44/16 44/17	109/6 110/7 110/15	112/21 115/4 115/14	what's [2] 97/7 102/9
78/21 109/24	64/4 76/18 76/21	48/1 49/9 57/20 64/4	113/11 114/15 119/16	122/15	whatever [3] 52/21
underlying [2] 83/19	76/23 92/18 123/2	76/4 81/6 87/24 89/16	Village [2] 121/19	we're [14] 3/10 30/4	92/15 99/12
86/12	123/4	98/15 101/7 106/2	122/6	54/7 59/9 66/16 80/15	when [25] 14/24 25/23
understand [6] 1/10	unusual [3] 17/16	110/15 118/9	viral [3] 46/12 76/24	95/1 99/18 101/15	27/13 32/21 37/6 42/5
2/19 50/13 53/3 84/7	36/16 53/17	useful [2] 21/2 108/3	82/24	106/25 110/18 111/5	42/17 48/3 53/14
88/16	up [73] 1/16 4/5 4/5	users [2] 86/22 97/22	virgin [1] 53/13	118/19 121/17	55/14 59/21 63/2
understanding [3]	5/15 6/2 7/14 8/4 10/7	uses [1] 53/14	virologists [1] 39/9	we've [11] 10/12 26/3	66/14 77/16 82/6 87/6
14/23 111/21 115/5	11/2 12/16 13/11 14/8	using [3] 5/24 8/20	virus [42] 6/21 6/24	27/25 37/24 46/7	87/23 87/24 88/16
understood [3] 30/6	15/8 17/22 17/23 19/8	20/14	7/1 24/12 30/21 31/2	57/23 59/11 62/17	98/16 99/2 108/8
55/19 76/22	20/18 22/4 23/4 23/10	usually [3] 46/17	31/7 31/12 34/18	81/18 99/16 99/17	109/19 118/22 121/13
undertake [1] 35/21	24/6 24/19 25/3 27/3	76/17 82/20	35/11 44/6 44/9 46/19	Wednesday [1] 1/1	where [12] 1/7 1/20
undertaken [2] 2/3	29/24 30/3 34/5 35/23	v	46/19 46/23 46/23	week [4] 56/3 58/23	13/19 32/19 33/17
29/3	36/4 36/22 38/15		49/1 49/2 49/8 49/16	86/6 93/12	57/24 74/24 79/17
Underwood [1] 69/23	45/12 49/5 50/25	vaccinated [2] 5/10	51/1 51/17 55/20 60/8	weekly [2] 81/23	80/1 81/20 87/17
undetected [1] 87/22	51/12 51/25 53/20	6/8	61/19 61/19 61/21	83/13	88/12
undoubtedly [4] 69/9	55/23 56/17 61/12	vaccination [6] 4/25 5/4 6/6 6/11 7/17 8/10	61/25 62/1 63/17	weeks [6] 2/23 3/8	whether [12] 9/17
71/10 73/11 81/4	62/18 63/14 64/7 64/21 66/8 68/1 70/1	vaccinations [2] 9/1	87/22 88/1 91/9 91/9 91/11 95/9 95/21	43/17 71/11 87/14 115/22	9/19 13/14 13/24 13/24 24/9 29/9 39/3
unequivocal [1] 60/4	71/21 74/11 76/8	9/3	102/14 105/23 110/13	welcome [1] 3/13	52/9 94/8 100/2 122/8
unexplained [1] 97/13	79/19 80/21 81/20	vaccine [5] 7/23 8/8	111/19 117/16	Welfare [1] 45/1	which [90] 5/7 5/9
unfashionable [1]	84/10 84/25 85/5 85/6	8/18 10/11 16/9	viruses [9] 27/19 60/4		7/11 7/22 8/1 8/7 9/1
31/24	85/7 88/4 91/13 91/13	vaccines [3] 10/14	65/25 67/12 71/22	25/22 32/1 40/10	11/20 15/2 19/5 19/7
unfiltered [1] 26/22	92/22 93/3 105/3	22/19 101/8	71/25 77/14 77/20	53/22 60/3 92/9 103/7	21/8 25/14 26/11
Unfortunately [2] 20/4	109/16 110/8 113/6	valid [1] 34/23	114/22	105/12 109/3 114/19	27/12 28/3 29/1 29/25
106/16	115/2 116/13 116/18	values [1] 65/3	voluntary [2] 57/10	well-established [1]	30/17 31/1 31/14
United [21] 5/3 7/17	118/7 118/12 120/8	variable [1] 25/8	88/11	40/10	36/20 37/8 40/18 44/4
7/20 26/3 32/8 51/12	up-to-date [2] 80/21	variant [1] 91/9	voluntary/non-remun	well-screened [1]	45/7 45/17 46/20
52/9 53/1 53/5 55/16	115/2	varies [1] 16/16	erated [1] 57/10	60/3	47/11 47/19 47/22
57/13 57/24 60/2 81/1	update [4] 94/18 96/1	variety [2] 40/11	volunteer [9] 32/15	Welsh [1] 38/20	48/4 52/8 52/15 54/9
しゅんに しょし ひつだ ひつだり	upuate [+] OT/10 OU/1	valiety [E] TO/II	volunteer [3] 32/13	WEISH [1] 30/20	40/4 32/0 32/13 34/3
84/6 84/8 93/6 93/22	96/5 122/1	89/11	32/20 42/5 42/11	Wensley [1] 112/11	54/14 56/21 56/24
116/4 116/9 116/16			32/20 42/5 42/11		
116/4 116/9 116/16 United Kingdom [4]	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3	89/11	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20	54/14 56/21 56/24
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3	32/20 42/5 42/11 42/17 43/5 53/6 64/11	Wensley [1] 112/11 went [1] 58/21	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 while [1] 96/19
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 while [1] 96/19 white [1] 85/18
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 while [1] 96/19
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1]	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 while [1] 96/19 white [1] 85/18 who [71] 2/17 3/10
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 warning [1] 99/7 was [124]	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 while [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 warning [1] 99/7 was [124]	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessary [2] 12/5 17/3	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5 17/3 unpaid [2] 88/11	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15 37/6 41/17 42/15	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11 way [10] 12/5 17/1 31/14 33/21 46/15 50/21 81/10 84/22	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25 47/8 49/18 53/4 53/18	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 while [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10 27/16 29/23 33/19
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5 17/3 unpaid [2] 88/11 114/18	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15 37/6 41/17 42/15 42/25 43/1 46/13 48/4 54/22 61/23 63/23 76/25 99/1 100/14	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18 79/18 VIII [33] 43/20 51/24 52/5 53/5 59/15 60/2 70/7 70/16 71/8 76/2	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11 way [10] 12/5 17/1 31/14 33/21 46/15 50/21 81/10 84/22 88/25 102/15	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25 47/8 49/18 53/4 53/18 54/13 55/25 57/19 59/4 65/18 69/9 79/14 79/15 79/18 79/23	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10 27/16 29/23 33/19 34/13 34/24 35/24 37/14 40/2 42/3 42/8 42/9 45/8 48/12 53/11
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5 17/3 unpaid [2] 88/11 114/18 unrelated [2] 49/14	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15 37/6 41/17 42/15 42/25 43/1 46/13 48/4 54/22 61/23 63/23 76/25 99/1 100/14 106/11 119/17	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18 79/18 VIII [33] 43/20 51/24 52/5 53/5 59/15 60/2 70/7 70/16 71/8 76/2 76/5 76/14 76/21	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11 way [10] 12/5 17/1 31/14 33/21 46/15 50/21 81/10 84/22 88/25 102/15 we [340]	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25 47/8 49/18 53/4 53/18 54/13 55/25 57/19 59/4 65/18 69/9 79/14 79/15 79/18 79/23 80/5 80/5 81/21 82/6	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10 27/16 29/23 33/19 34/13 34/24 35/24 37/14 40/2 42/3 42/8 42/9 45/8 48/12 53/11 54/6 54/19 55/7 55/21
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5 17/3 unpaid [2] 88/11 114/18 unrelated [2] 49/14 103/12	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15 37/6 41/17 42/15 42/25 43/1 46/13 48/4 54/22 61/23 63/23 76/25 99/1 100/14 106/11 119/17 used [29] 7/23 8/7	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18 79/18 VIII [33] 43/20 51/24 52/5 53/5 59/15 60/2 70/7 70/16 71/8 76/2 76/5 76/14 76/21 76/23 78/3 79/3 81/8	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11 way [10] 12/5 17/1 31/14 33/21 46/15 50/21 81/10 84/22 88/25 102/15 we [340] we'll [15] 2/7 4/19	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25 47/8 49/18 53/4 53/18 54/13 55/25 57/19 59/4 65/18 69/9 79/14 79/15 79/18 79/23 80/5 80/5 81/21 82/6 84/6 92/5 99/16 99/17	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10 27/16 29/23 33/19 34/13 34/24 35/24 37/14 40/2 42/3 42/8 42/9 45/8 48/12 53/11 54/6 54/19 55/7 55/21 58/20 58/21 72/5
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5 17/3 unpaid [2] 88/11 114/18 unrelated [2] 49/14	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15 37/6 41/17 42/15 42/25 43/1 46/13 48/4 54/22 61/23 63/23 76/25 99/1 100/14 106/11 119/17	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18 79/18 VIII [33] 43/20 51/24 52/5 53/5 59/15 60/2 70/7 70/16 71/8 76/2 76/5 76/14 76/21	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11 way [10] 12/5 17/1 31/14 33/21 46/15 50/21 81/10 84/22 88/25 102/15 we [340]	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25 47/8 49/18 53/4 53/18 54/13 55/25 57/19 59/4 65/18 69/9 79/14 79/15 79/18 79/23 80/5 80/5 81/21 82/6	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10 27/16 29/23 33/19 34/13 34/24 35/24 37/14 40/2 42/3 42/8 42/9 45/8 48/12 53/11 54/6 54/19 55/7 55/21
116/4 116/9 116/16 United Kingdom [4] 26/3 55/16 60/2 84/8 United States [17] 5/3 7/17 7/20 32/8 51/12 52/9 53/1 53/5 57/13 57/24 81/1 84/6 93/6 93/22 116/4 116/9 116/16 units [4] 9/17 12/15 37/3 113/17 University [3] 41/24 62/13 75/17 unjustifiable [1] 26/20 unknown [3] 85/25 86/24 97/20 unless [1] 29/3 unlike [1] 77/14 unlikely [2] 14/11 19/5 unnecessarily [1] 21/12 unnecessary [2] 12/5 17/3 unpaid [2] 88/11 114/18 unrelated [2] 49/14 103/12	96/5 122/1 updated [1] 3/15 upon [5] 33/23 48/3 48/15 64/24 65/20 upset [1] 31/6 upstate [2] 24/24 25/19 urged [1] 33/2 urgent [1] 94/9 urging [1] 11/23 us [13] 28/1 33/12 52/16 55/25 60/19 85/2 90/21 107/4 110/15 113/8 114/6 114/18 115/3 USA [10] 35/3 35/9 74/24 77/13 88/1 88/15 90/16 94/5 108/19 119/15 usage [1] 51/24 use [25] 9/1 9/2 10/3 15/23 16/3 22/18 28/9 32/15 32/24 36/15 37/6 41/17 42/15 42/25 43/1 46/13 48/4 54/22 61/23 63/23 76/25 99/1 100/14 106/11 119/17 used [29] 7/23 8/7	89/11 various [14] 2/20 6/22 8/7 13/10 20/20 40/5 44/9 48/10 54/24 65/3 80/13 82/5 107/16 116/15 vary [2] 31/4 35/3 vascular [1] 10/20 Vaughan [1] 22/9 vCJD [2] 4/13 4/15 vehicles [1] 105/9 version [1] 115/17 very [18] 3/10 5/11 5/12 7/25 8/13 39/17 45/24 56/5 81/6 83/9 90/11 94/24 99/8 102/22 108/17 114/9 122/19 123/1 via [2] 87/13 89/23 view [9] 8/10 11/21 23/6 48/6 72/25 88/7 96/23 116/24 120/8 views [3] 79/18 79/18 79/18 VIII [33] 43/20 51/24 52/5 53/5 59/15 60/2 70/7 70/16 71/8 76/2 76/5 76/14 76/21 76/23 78/3 79/3 81/8	32/20 42/5 42/11 42/17 43/5 53/6 64/11 114/18 volunteers [1] 8/16 W Wage [1] 62/21 wait [1] 16/24 Waiter [1] 71/18 Wales [1] 27/25 Walford [4] 77/4 77/10 77/22 108/2 want [7] 5/17 30/3 55/21 58/3 61/6 85/5 121/22 wanted [3] 59/4 66/8 71/20 war [5] 9/7 15/25 19/2 20/4 20/9 war-time [1] 20/9 warning [1] 99/7 was [124] watched [1] 59/11 way [10] 12/5 17/1 31/14 33/21 46/15 50/21 81/10 84/22 88/25 102/15 we [340] we'll [15] 2/7 4/19	Wensley [1] 112/11 went [1] 58/21 were [42] 6/19 9/20 10/25 20/19 21/11 25/10 25/19 26/13 27/7 33/19 38/17 41/20 44/4 45/17 47/18 48/13 50/15 51/11 52/9 52/9 57/11 57/12 58/1 65/20 68/7 71/1 74/8 75/18 78/10 79/14 85/18 85/23 92/11 99/14 100/1 103/12 104/20 109/8 116/10 119/7 119/24 120/4 western [1] 5/3 what [52] 1/12 1/20 1/21 2/17 2/19 3/1 3/2 3/4 3/6 5/22 6/18 7/14 19/12 21/20 21/23 23/15 30/3 30/13 39/3 39/22 45/25 46/25 47/8 49/18 53/4 53/18 54/13 55/25 57/19 59/4 65/18 69/9 79/14 79/15 79/18 79/23 80/5 80/5 81/21 82/6 84/6 92/5 99/16 99/17	54/14 56/21 56/24 57/7 57/9 57/13 57/16 57/22 58/1 59/21 60/5 60/19 60/21 61/19 62/5 65/23 65/25 68/13 71/23 73/5 73/6 74/22 75/1 75/11 77/14 79/11 80/25 81/4 81/6 81/8 83/22 84/5 85/21 87/22 88/5 89/8 91/18 92/8 95/11 95/12 100/17 102/14 103/11 107/20 110/8 114/13 115/9 116/15 116/15 116/21 117/16 119/13 119/25 122/10 122/20 white [1] 96/19 white [1] 96/19 white [1] 85/18 who [71] 2/17 3/10 5/13 5/16 6/17 7/5 12/17 19/22 23/4 24/20 25/3 25/10 27/16 29/23 33/19 34/13 34/24 35/24 37/14 40/2 42/3 42/8 42/9 45/8 48/12 53/11 54/6 54/19 55/7 55/21 58/20 58/21 72/5

(52) undergoing - who

w	19/18 21/22 29/14	51/16 75/19 79/5 79/7		
	57/17 77/4 104/19	92/10 94/20 104/19		
who [35] 84/9 84/21	118/4	114/2 118/4 118/15		
85/5 85/9 85/23 95/14	without [13] 16/19	yellow [12] 4/25 5/4		
95/17 97/12 98/15 98/18 98/24 99/13	17/2 20/9 22/3 31/8	5/10 6/9 6/15 6/20 7/1		
102/11 102/12 103/8	32/1 32/3 37/3 48/24	7/18 7/23 8/8 10/10		
104/12 104/13 105/10	55/17 83/19 85/18	16/8		
105/12 107/5 108/23	86/11	Yellowlees [1] 54/19		
109/12 109/24 110/4	withstand [1] 61/21	yes [34] 1/5 7/11		
110/11 110/24 112/8	WITN0282008 [1] 77/3 witness [2] 43/17	18/14 27/1 27/15		
112/12 113/17 113/19	80/24	27/21 27/24 37/18		
113/20 114/15 116/7	witnesses [7] 1/8 2/23			
117/19 118/3	3/9 27/22 115/4	50/14 50/19 53/16		
who's [1] 58/5 whole [13] 6/5 13/21	121/13 121/14	59/3 59/3 59/8 60/24		
14/15 18/20 22/12	Wolverhampton [1]	74/3 74/3 79/14 92/14		
30/18 33/20 60/9 61/7	10/18	92/17 100/18 100/19		
91/16 104/21 105/10	women [1] 109/4	101/4 101/14 102/22		
107/23	won't [10] 4/15 8/1	122/15 123/1		
whom [3] 19/20 79/12	13/6 19/8 36/20 38/10 66/23 82/5 85/5	yesterday [8] 1/16 27/13 28/4 54/9 57/19		
115/21	122/21	60/12 77/8 80/24		
whose [3] 46/7 81/11	word [5] 12/4 50/12	yet [5] 8/6 31/1 31/8		
109/7	53/14 53/17 100/21	66/10 75/1		
why [1] 87/6 wide [3] 70/8 70/23	wording [1] 99/15	York [3] 24/24 25/19		
89/11	work [4] 2/17 21/1	113/15		
widely [4] 25/7 34/1	28/11 73/6	you [57] 1/3 1/17 1/20		
40/14 90/22	workers [1] 79/19	1/20 5/25 6/1 6/5 6/13		
wider [2] 2/19 21/20	working [7] 73/21	7/10 7/24 8/20 8/21		
widespread [1] 29/15	94/2 94/3 114/7 116/24 116/24 119/2	29/23 36/7 36/22 41/3 43/6 45/11 45/15 46/3		
will [69] 1/7 1/9 1/12	world [13] 15/25 27/1	52/10 54/12 55/23		
1/12 1/13 1/20 1/21	27/3 27/8 56/1 56/12	56/5 57/7 57/8 57/8		
2/3 2/4 2/13 2/18 3/7 3/19 4/12 4/13 5/25	56/14 56/22 59/11	57/15 58/3 58/4 59/7		
6/17 7/9 15/4 17/24	59/24 74/24 112/13	59/8 61/10 66/19		
18/11 19/1 24/6 25/2	116/3	79/13 79/14 79/16		
27/22 34/15 37/19	worldwide [1] 67/5	87/10 93/16 94/6 97/1		
40/24 41/21 42/4 42/9	worry [1] 36/8	99/22 99/22 100/1		
42/9 42/10 43/15	worth [1] 82/15 would [32] 3/13 12/6	106/24 109/17 110/20		
44/15 44/19 44/20	12/14 12/18 14/12	115/25 117/2 121/5		
44/21 47/9 48/19	19/3 19/13 20/10	121/25 122/2 122/12		
49/15 50/16 54/2 55/14 56/5 56/15	26/16 26/22 31/1	123/1		
66/13 71/10 73/6	31/21 39/22 40/22	you'll [2] 27/6 62/14		
73/12 79/6 81/21 85/4	43/2 53/3 53/4 56/19	young [4] 76/1 79/4		
87/10 89/3 92/18	56/23 58/6 58/8 58/13 58/13 60/17 74/3 80/4	82/2 113/15		
93/17 94/7 98/7 98/13	88/9 89/25 92/9 93/8	youngest [1] 113/9 your [7] 53/21 60/12		
100/5 100/7 101/12	108/3 116/2	72/16 88/15 88/17		
106/12 110/20 112/6	written [3] 73/20	118/7 121/6		
121/12 121/12 122/22 William [1] 19/25	102/7 108/6			
William [1] 19/25 Wilson [1] 18/21	wrong [4] 58/7 58/9	<u>Z</u>		
Winfield [1] 112/11	112/7 121/25	zero [1] 54/11		
wise [1] 21/12	wrote [1] 100/8	zoom [1] 62/11		
wiser [1] 63/23	Υ	Zuckerman [4] 34/9 34/13 36/3 36/7		
wish [3] 58/6 60/17	Yale [1] 63/11	Zuckermann [1]		
87/10	year [8] 4/15 33/13	112/12		
with [135]	33/16 52/3 85/21			
withhold [1] 99/1	109/19 121/13 122/2			
withholding [1] 23/2 within [9] 9/6 17/8	years [16] 4/11 6/8			
	9/7 25/10 46/25 51/8			
				(53) who Zuckermann

(53) who... - Zuckermann