

1 Thursday, 7 October 2021
 2 (10.00 am)
 3 Presentation by Counsel to the Inquiry about smaller
 4 haemophilia centres (continued)
 5 SIR BRIAN LANGSTAFF: Yes.
 6 MS RICHARDS: Good morning, sir. I'm going to start this
 7 morning with the three remaining London centres,
 8 Guy's, Lewisham and King's. Insofar as Guy's Centre
 9 is concerned, the directors of the centre in the 1970s
 10 and 1980s were Dr Percy Barkhan and Dr Clark.
 11 Dr Barkhan was director of the centre until around
 12 1984 and then Dr Clark from around 1985.
 13 You may recall the evidence of the first
 14 haemophilia clinician we heard from orally last year,
 15 Dr Mark Winter, who was a senior registrar in
 16 haematology at Guy's in 1979 to 1983, and his
 17 recollection was that there was no consultant at the
 18 centre with expertise in haemophilia and that the
 19 haemophiliac patients were managed by effectively the
 20 senior registrars. Dr Barkhan's expertise was in
 21 vitamin K metabolism.
 22 Guy's was a designated haemophilia centre
 23 certainly as at 1970. It was part of the St Thomas'
 24 supra-region in the 1970s, and it was served in terms
 25 of the provision of NHS concentrates and

1

1 numbers of different haemophiliacs treated at each
 2 Centre in 1974."
 3 You may, no doubt, also recall Dr Winter's
 4 evidence which was a recollection of there never being
 5 enough, effectively, from Tooting, so supply issues
 6 and shortages. In terms of numbers of patients
 7 treated at Guy's, we can pick the picture up at the
 8 beginning of the 1970s at DHSC0100026_022.
 9 This Dr Barkhan's response to that letter from
 10 Dr Obank at the DHSS that we looked at yesterday.
 11 This is January 1970, and he identifies there in his
 12 first paragraph that:
 13 "... Guy's has only just been added to your list
 14 of Centres and the information I give you will relate
 15 to the period when we were not an officially
 16 designated Centre."
 17 Then we can see reference to having treated 28
 18 cases at the centre, or 28 cases registered at the
 19 centre, 21 incidents of haemorrhage, and then three
 20 incidents of severe bleeding.
 21 In terms of the numbers of patients over the
 22 years that followed, the annual returns for 1976
 23 through to 1985 give a range of between 10 and 21
 24 patients with haemophilia A treated, three to eight
 25 haemophilia B patients, and up to four patients with

3

1 cryoprecipitate by the South London Blood Transfusion
 2 Centre in Tooting, and we'll obviously be coming on to
 3 explore in more detail the role of the transfusion
 4 centres in later hearings.
 5 If we go, please, Soumik to CBLA000503 -- sorry,
 6 0000503, my apologies -- we have here a letter of
 7 24 November 1976 from Professor Ingram at St Thomas',
 8 and this is concerned with the distribution of,
 9 amongst other things, NHS Elstree concentrates to the
 10 South-West and South-East Thames haemophilia region,
 11 and he explains in the first paragraph that NHS
 12 concentrates from BPL were going to be distributed
 13 through the regional blood transfusion centres.
 14 If we go to the third paragraph, we'll see the
 15 position insofar as it affected Guy's, King's and
 16 Lewisham. Professor Ingram says this:
 17 "I have therefore suggested to Dr Rogers [who
 18 was the Director of the Regional Transfusion Centre in
 19 Tooting] that he should start by putting aside
 20 one-quarter of what he receives for emergencies, and
 21 should distribute the remaining three-quarters, as he
 22 receives it, to the Haemophilia Centres in the areas
 23 to which he delivers blood: ie Guy's, King's,
 24 Lewisham, Margate, St George's, St Thomas' and the
 25 Westminster Hospitals, also in proportion to the

2

1 von Willebrand's.
 2 Soumik, if we could have BPLL0008111, please.
 3 These are the forms, the questionnaires completed by
 4 various directors in response to Dr Maycock, we
 5 looked at number of them yesterday. If we go to
 6 page 23 we can see how Dr Barkhan completed this on
 7 behalf of the Guy's centre. So:
 8 "How many patients with haemophilia do you treat
 9 regularly?"
 10 That's not, in fact, filled in.
 11 Then the question:
 12 "Would you prefer to use for the treatment of
 13 your patients [cryo; freeze-dried concentrate; some
 14 cryo and some concentrate]?"
 15 It's not very clear what the answer is in
 16 relation to those questions, unfortunately. The "No,"
 17 has been crossed out in relation to 2(c) but it's not
 18 clear how he was answering (a) and (b). Then the
 19 questionnaire goes on to give some information about
 20 estimates of cryo and concentrate that would be
 21 required.
 22 If we go to the top of the page, what I think
 23 this says in handwriting is:
 24 "If cryoprecipitate was available in units of
 25 known potency [known underlined] (say 70-100ml per

4

1 pack of 10-15ml) then I would prefer to use only
 2 cryoprecipitate. If concentrate was available in more
 3 concentrated form so that it could be administered by
 4 syringe (like cryo) then I would prefer to use only
 5 concentrate. Under the existing circumstances I am
 6 electing to use both: cryo for prophylactic purposes
 7 and treatment of 'minor' bleeds (joint and muscles);
 8 concentrate for elective surgery because it is of
 9 known potency."
 10 So that presumably is why he hasn't answered the
 11 questionnaire as such, he has given a rather more
 12 detailed answer there.
 13 **SIR BRIAN LANGSTAFF:** Something a bit odd about the
 14 apparent interpretation of the bit in brackets,
 15 because how can you have 17 to 100ml in a pack of 10
 16 to 15ml?
 17 **MS RICHARDS:** I don't know, that appears to be what the
 18 handwriting says.
 19 **SIR BRIAN LANGSTAFF:** It looks like that but we may just
 20 be misreading one of the notations or he may have
 21 miswritten it.
 22 **MS RICHARDS:** We may. In any event, I suppose the key
 23 point is he's expressing a preference for
 24 cryoprecipitate. The issue is in relation to knowing
 25 the potency in terms of presumably Factor VIII of

1 cryoprecipitate.
 2 **SIR BRIAN LANGSTAFF:** The other feature of this, which is
 3 not the only time we've come across it, is, in the
 4 early 1970s at any rate, some of the clinicians
 5 plainly do not -- are having to administer concentrate
 6 by drip --
 7 **MS RICHARDS:** Yes.
 8 **SIR BRIAN LANGSTAFF:** -- and not by syringe.
 9 **MS RICHARDS:** Yes.
 10 **SIR BRIAN LANGSTAFF:** Whereas what we have heard, in
 11 general during the Inquiry, has been that it's the
 12 cryoprecipitate which needed the lengthy infusion and
 13 the concentrated product could be injected by syringe.
 14 So what this suggests, perhaps, and it may be that
 15 further work can be done to see if this is right is
 16 that, at this stage in development, what was known as
 17 concentrate was, in general, not easily injected and
 18 it became easier as, presumably, the delivery of the
 19 product, the way in which it was presented, changed.
 20 **MS RICHARDS:** Yes, we can certainly do some more work and
 21 see whether we can find an answer to that. The other
 22 feature of this handwritten note is the use of
 23 cryoprecipitate for prophylactic purposes --
 24 **SIR BRIAN LANGSTAFF:** Yes.
 25 **MS RICHARDS:** -- which is also relatively unusual and,

1 again, the message we've heard in the later 1970s and
 2 early 1980s is clinicians extolling the virtues of
 3 concentrate for prophylactic purposes so it's
 4 interesting to see here a usage of cryoprecipitate for
 5 that reason.
 6 If we then look and see what products were then
 7 used from 1976 onwards thorough to the mid-1980s, we
 8 can pick that up at the 1976 annual return, which is
 9 HCDO0000059_002, please.
 10 If we go to page 2, we can see there, if we look
 11 at the figures in the table, cryoprecipitate is by far
 12 and away the product in greatest use as at 1976,
 13 105,000 units. No NHS concentrate in the course of
 14 that year. And then four different commercial
 15 concentrates, Factorate, Koate, Hemofil and Kryobulin,
 16 in use in 1976. With the exception of Hemofil, it's
 17 in small volumes, but nonetheless a diverse range of
 18 commercial concentrate at that point in time.
 19 1977 shows NHS concentrates being used for the
 20 first time. Also cryoprecipitate in use.
 21 Perhaps we should just go to the 1977 return.
 22 It is HCDO0001161.
 23 So we can see there from the figures more NHS
 24 concentrate than cryoprecipitate in use. And a small
 25 amount of commercial concentrate. In that year, only,

1 apparently, Koate. So none of the other commercial
 2 concentrates that have been used in the previous
 3 years.
 4 And it's a similar pattern in 1978, I won't go
 5 to the return for that, but we see cryo and NHS
 6 concentrate in roughly equal volume being used, and
 7 then a rather smaller amount of Koate for 1978.
 8 1979 shows only cryoprecipitate and NHS
 9 concentrates, and the majority product in use there is
 10 NHS concentrates.
 11 1980 is a similar pattern, by then a very small
 12 amount of cryoprecipitate used in 1980. The main
 13 product used was the NHS concentrate, with a small
 14 amount of the Cutter's product, Koate.
 15 Then in 1981 there don't appear to be any
 16 commercial concentrates identified on the annual
 17 return. It's NHS concentrates only for the treatment
 18 of haemophilia A.
 19 If we then pick the matter up in 1982 and go to
 20 HCDO0001623, please, we can see the usage now of
 21 commercial concentrates to a greater extent, so no
 22 cryoprecipitate other than for the treatment
 23 of von Willebrand's disease, which remained a fairly
 24 consistent theme throughout the period. NHS
 25 concentrates used, hospital and home treatment.

1 Factorate, so the Armour product, in usage. Then the
 2 product used to the greatest extent for home treatment
 3 was the Cutter's product, Koate.
 4 So that was the picture as at 1982. Then 1983
 5 is HCDO0000146_003.
 6 We see a slightly different picture in 1983.
 7 The predominant product in use is the NHS concentrate,
 8 73,000-odd for hospital treatment, 71,000-odd for home
 9 treatment. The Koate product is not used at all that
 10 year. The Armour product is, but in rather smaller
 11 quantities than the NHS concentrate.
 12 So again, the pattern that does appear to emerge
 13 is perhaps consistent with the description given by
 14 Dr Winter of wanting to use NHS concentrates, but
 15 needing to use also commercial concentrates to make up
 16 shortfalls.
 17 1984, again, perhaps we will look at that. It
 18 is HCDO0001814. Now that shows, in 1984, some use of
 19 cryoprecipitate again for the treatment of
 20 haemophilia A patients in hospital, in a not
 21 insignificant volume: just under 50,000 units. Again,
 22 whether that's a response to what was known in
 23 relation to risks of infection or not, we simply don't
 24 know. NHS concentrate, the product in greatest use,
 25 indeed the only product used for home treatment in

1 that year, both Factorate and Koate were also used.
 2 So overall a mixed picture.
 3 It's right to recall Dr Winter's evidence was
 4 that when the first reports of AIDS in patients
 5 appeared, his recollection was that Guy's attempted to
 6 prioritise the use of NHS concentrate for children,
 7 the newly diagnosed patients, and for patients who
 8 required factor concentrate only rarely.
 9 That's not inconsistent with what we see in the
 10 returns, but whether that in truth is reflected in the
 11 individual treatment of individual patients we've no
 12 way of knowing other than through the accounts that
 13 you have from individuals.
 14 In terms of knowledge of risk, Dr Barkhan
 15 attended a fair number of UKHCDO meetings during the
 16 1970s. He was there in '71, 72, 74, 77, 78 and '81.
 17 Dr Winter attended in place of Dr Barkhan but on
 18 his behalf in 1982. Dr Clark attended in 1983, and
 19 again, reasonable to assume that Dr Barkhan would have
 20 received the minutes of meetings, and that the centre
 21 would have received copies of the various
 22 communications sent out by Professor Bloom and
 23 Dr Rizza on behalf of UKHCDO.
 24 In terms of the numbers of those infected with
 25 HIV through treatment at Guy's, the data received by

1 the Inquiry from UKHCDO suggests that four patients
 2 tested positive for HIV in 1985. We have little
 3 information about the testing or treatment of patients
 4 with hepatitis C. That may be because, as we
 5 understand it, St Thomas' Haemophilia Centre took over
 6 and so it may be that the relevant information in
 7 relation to the treatment of patients infected with
 8 hepatitis C through their treatment at Guy's would be
 9 found through St Thomas'.
 10 Sir, that's the picture, then, in relation to
 11 Guy's. I'm going to turn now to Lewisham, which was
 12 a fairly large centre. The directors at the
 13 haemophilia centre at Lewisham during the seventies
 14 and eighties include Dr Holman, who appears to have
 15 been director until around 1979, 1980, Dr Whitmore and
 16 Dr Kemp. Dr Whitmore and Dr Kemp's names appear, for
 17 example, on annual returns from 1980 onwards.
 18 A later director was Dr Tillyer. She took over
 19 as director in 1997, and remained in that post until
 20 2006. She has provided a written statement to the
 21 Inquiry. The URN for that, the reference -- we don't
 22 need it on screen, Soumik -- is WITN3298005. But
 23 obviously she's not in a position to cast much light,
 24 if any, in how things were organised in the 1970s,
 25 1980s or, indeed, the early part of the 1990s.

1 We know that Lewisham was one of the 13
 2 designated Haemophilia Centres in London as of 1970.
 3 I won't go to the details but there were discussions
 4 at a UKHCDO meeting in 1974 about how supplies should
 5 be organised, and Dr Holman did not want therapeutic
 6 material, concentrates and presumably cryoprecipitate,
 7 to be distributed or coordinated by Reference Centres,
 8 which was an idea under exploration at that time.
 9 He has recorded, along with some others, as
 10 expressing the view in the UKHCDO meeting minutes that
 11 patients would be better treated if all available
 12 material was sent out by the Transfusion Service to
 13 any hospital doctor who asked for it. And of course
 14 from 1976 or late 1976 onwards, that was the
 15 arrangement at least insofar as NHS concentrates and
 16 cryoprecipitate were concerned, and Lewisham Hospital
 17 received its supplies again from the South London
 18 Blood Transfusion Centre in Tooting.
 19 If we look at DHSC0100026_025, we have here
 20 Dr Holman's response on behalf of Lewisham to
 21 Dr Obank's letter. This is 8 January 1970 and he sets
 22 out a picture of the position in relation to Lewisham
 23 as at the end of 1969.
 24 Number of cases registered with the centre: 168.
 25 Number of incidents of haemorrhage during the year:

1 654. Point 4, number of incidents of severe bleeding
 2 in patients attending the centre: 19. Number of major
 3 surgical operations undertaken in patients: 3.
 4 He says a little further down the page, at the
 5 end of the sentence -- sorry, the end of the paragraph
 6 numbered 7:
 7 "... patients have direct access at any time to
 8 the centre, and are encouraged to attend promptly.
 9 "One problem is the distance that some of the
 10 patients have to travel for treatment which must place
 11 a heavy strain on the ambulance service, which may
 12 have to bring patients daily from up to 20 miles or
 13 more, as it is our policy to treat all haemophiliacs
 14 as out-patients as far as is possible."
 15 Over the page:
 16 "The major problem, as I am sure you know, is
 17 the relative lack of therapeutic material which leads
 18 inevitably to a tendency to undertreat individual
 19 episodes of bleeding: most of the cryoglobulin we use
 20 we have to prepare ourselves from our own donors. So
 21 far as the major haemorrhage is concerned, the lack of
 22 therapeutic material is always a worry and at times
 23 when technicians specifically trained for coagulation
 24 studies are not available, more strain is placed upon
 25 the technical resources."

1 1976, over 900,000 units.
 2 The second largest is the NHS concentrate,
 3 416,000. Then we can see also, in not insubstantial
 4 volumes, two commercial concentrates in use: the
 5 Abbott product Profilate, and the Immuno product,
 6 Kryobulin. 87,000 thereabouts of Profilate and 105 --
 7 I've lost the screen -- 105,000 of Kryobulin.
 8 If we look at 1977, HCDO0001176, page 9, we see
 9 a not dissimilar picture emerging. So again,
 10 cryoprecipitate is by far and away the major product
 11 in use as at 1977, followed by NHS concentrate, just
 12 over 300,000. A smaller amount of Profilate in use
 13 that year. Kryobulin in fairly substantial use,
 14 110,000-odd. And Koate used that year, just over
 15 32,000 units.
 16 1978, I won't -- well, no, I will take you to,
 17 because it shows the increased usage of commercial
 18 concentrates. So that is HCDO0001273. If we go to
 19 page 8, please.
 20 We can see, in 1978, cryoprecipitate still
 21 dominates. Again, over 900,000 units. NHS
 22 concentrate is the second in terms of individual
 23 analysis and volume. But the volume of commercial
 24 concentrates is increasing, and we can see over
 25 200,000 units of Factorate that year, over 100,000

1 If we go back to the previous page, we will see
 2 the heading on the letter is "Lewisham Group
 3 Laboratory", and Dr Holman himself was a pathologist,
 4 so it looks as though there was some in-house
 5 production of therapeutic materials as at 1969, 1970.
 6 If we then look at Dr Holman's response to
 7 Dr Maycock's 1972 questionnaire, BPLL0008111, please.
 8 At page 27 we see Dr Holman responding as the
 9 end of 1972:
 10 "(1) How many patients with haemophilia do you
 11 treat regularly? 47.
 12 "(2) Would you prefer to use for the treatment
 13 of your patients
 14 "(a) Cryoprecipitate? No.
 15 "(b) Freeze-dried concentrate? Yes."
 16 And he answers "No" to the question of some
 17 cryoprecipitate and some freeze-dried concentrate.
 18 In terms then of the picture that emerges from
 19 the annual returns, we can pick that up in 1976 from
 20 HCDO0000104_002.
 21 If we go to page 6, please, we can see there,
 22 number of patients treated during the year, 51. Then
 23 Christmas disease patients, six.
 24 Then if we look at the figures, we can see
 25 a very significant volume of cryoprecipitate in use in

1 units of Koate, and then 32,000 odd units of
 2 Profilate.
 3 If we go to the first page, you'll see there the
 4 forms that we've seen fairly frequently before. And
 5 we can see that there are there a number of
 6 individuals who, in the course of a single year,
 7 received more than one, and in a number of instances
 8 three different types of commercial concentrate.
 9 So no apparent policy of trying to keep patients
 10 to one type of concentrate only. The pattern in
 11 relation to 1979 is similar. I won't go to the return
 12 for that. Over 900,000 units of cryoprecipitate,
 13 230,000 units of NHS, but also substantial amounts of
 14 commercial concentrate being used, in particular
 15 Kryobulin.
 16 If we then pick the picture up in 1980, at
 17 HCDO0001438, we can see again -- and I haven't done
 18 the calculations, sir, and you'll be inevitably
 19 quicker than I am in terms of the cryoprecipitate
 20 units because the figure is given there in bags, but
 21 we can see, in any event, cryoprecipitate still in
 22 reasonably significant usage in 1980, as was NHS
 23 concentrate. The volumes of commercial
 24 concentrates --
 25 **SIR BRIAN LANGSTAFF:** If you allow for 70 units per bag,

1 then for inpatient it's just short of 49,000 units.
 2 **MS RICHARDS:** So still featuring rather more significantly
 3 in 1980 in Lewisham --
 4 **SIR BRIAN LANGSTAFF:** Sorry, 490,000, I should say.
 5 **MS RICHARDS:** -- than we've seen in other centres.
 6 **SIR BRIAN LANGSTAFF:** It is the major product.
 7 **MS RICHARDS:** It is.
 8 **SIR BRIAN LANGSTAFF:** But by comparison with concentrate,
 9 it's less than 50 per cent. Not by much.
 10 **MS RICHARDS:** Yes. So we can see Kryobulin is the major
 11 product used in hospital amongst the concentrates, and
 12 then the Factorate. And then the volume of
 13 NHS concentrate compared to the commercial
 14 concentrates appears to have reduced from previous
 15 years.
 16 **SIR BRIAN LANGSTAFF:** But what is fascinating about this
 17 is the quantity of cryo used for home treatment.
 18 **MS RICHARDS:** Yes.
 19 **SIR BRIAN LANGSTAFF:** Which is -- it's the predominant
 20 product used at home.
 21 **MS RICHARDS:** And of course, that contrasts with the
 22 evidence that you've heard from a number of clinicians
 23 to the effect that cryoprecipitate was not
 24 a convenient product for use in home treatment. But
 25 certainly that doesn't appear to have deterred the

17

1 Lewisham centre.
 2 **SIR BRIAN LANGSTAFF:** No.
 3 **MS RICHARDS:** Then if we go to the return for 1981, which
 4 is HCDO0001539, again, we can see that as at 1981,
 5 substantial volumes of cryoprecipitate still in use.
 6 Happily the maths has been done for me here by whoever
 7 completed the returns. So we've got, for hospital
 8 treatment, about 452,000 units of cryo, and for home
 9 treatment, 472,000 units. So as at 1981 we see
 10 cryoprecipitate still very much in use for home
 11 treatment, for haemophilia A patients.
 12 Then we can see NHS concentrate also used in
 13 relatively substantial volumes, but not as extensively
 14 as the cryoprecipitate. And then we have the figures
 15 there in relation to the commercial products. We've
 16 got four different commercial products in use in the
 17 course of that year: Factorate, Koate, Hemofil and
 18 Kryobulin. I won't go through all the figures but we
 19 can see -- I think it is that Factorate which
 20 predominates but also Kryobulin used to a significant
 21 extent.
 22 **SIR BRIAN LANGSTAFF:** I mean, the predominance of
 23 cryoprecipitate for use at home is even more emphatic
 24 during that year.
 25 **MS RICHARDS:** Yes.

18

1 **SIR BRIAN LANGSTAFF:** That's 1981.
 2 **MS RICHARDS:** That's 1981. If we just go to page 4,
 3 again, we've got the entries for individual patients.
 4 And we can see, although it's a varied picture, there
 5 are some patients who receive only one type of
 6 product. There are others who are recorded as
 7 receiving, for example, three different types of
 8 commercial concentrate in the course of the year. And
 9 it's a similar pattern on the following pages. I
 10 won't go through all of them. So, again, there are
 11 some patients who receive only one, some who receive
 12 two, some who receive three different types of
 13 commercial concentrate.
 14 The picture in 1982 -- HCDO0001637, please --
 15 shows again in 1982, cryoprecipitate remains very much
 16 in active use: 221,000-odd units in hospital, 350 --
 17 just under 350,000 units for home treatment. So
 18 again, it appears to be the major product used for
 19 home treatment in Lewisham. Albeit there are also
 20 significant volumes of NHS concentrate used, 151,000
 21 or so.
 22 Then in terms of commercial concentrates we have
 23 Factorate, Koate, Kryobulin, and the Alpha product all
 24 in use. The product, I think, in greatest use is
 25 Factorate: 290,000-odd hospital, just under 69,000 for

19

1 home treatment.
 2 So, again, a somewhat different picture emerging
 3 from the Lewisham returns than from a number of the
 4 others sets of returns that we have seen.
 5 Then if we go to 1983, HCDO0001736, it's a not
 6 dissimilar picture in terms of usage of
 7 cryoprecipitate and then a range of different
 8 commercial concentrates being used. Although the
 9 entry for NHS Factor VIII concentrate appears to be
 10 blank, that is explained by the fact that the list of
 11 products seems to have gone further down the table.
 12 So where it says, "Other human Factor VIII
 13 [Concentrate] LISTER" I think it has just been put in
 14 the wrong box by whoever completed the return. So we
 15 can see relatively substantial volumes of NHS
 16 concentrate being used there: 224,000-odd at hospital,
 17 just under 171,000 for home treatment.
 18 But the figures again for cryoprecipitate remain
 19 remarkably high, compared to what we've seen in other
 20 centres, including for home use. It remains, in terms
 21 of volume, the largest for home treatment.
 22 **SIR BRIAN LANGSTAFF:** The impact of the colloquial is
 23 plain here. It's called Lister.
 24 **MS RICHARDS:** Yes.
 25 **SIR BRIAN LANGSTAFF:** Lister ceased in 1978, so BPL

20

1 products or Elstree, you might have expected, but it's
2 still being called "Lister".

3 **MS RICHARDS:** It is.

4 We can see, of course, that there is significant
5 usage of commercial concentrate, as well. So the
6 Armour product, for example, 308,000 hospital, just
7 over 100,000 home treatment; Hemofil, 186,000-odd
8 hospital, 73,000-plus home treatment. So it's not
9 that commercial concentrates are not used, they're
10 used to a considerable extent. It's just interesting
11 to see also the usage of cryoprecipitate and NHS
12 concentrates.

13 The picture in 1984, we can see from
14 HCDO0001829, the figures given in bags for cryo, and
15 the maths hasn't been done although it has for the
16 others, but, in any event, we see it remains the case
17 in 1984 that cryoprecipitate is very extensively used,
18 in particular for home treatment in Lewisham.

19 We can see then also NHS concentrate used to
20 a significant extent and the Armour product used to
21 a significant extent, to a lesser extent Kryobulin,
22 and no other commercial concentrates in that year.

23 What we don't, I'm afraid, have is anything
24 other than the returns themselves. Because Dr Tillyer
25 doesn't come on the scene until 1997, we don't have

21

1 once he became director so he's there at all or most
2 of the meetings throughout the 1980s.

3 Again, reasonable potentially to assume receipt
4 of minutes and of communications from Professor Bloom,
5 Dr Craske, Dr Rizza and others. Dr Kemp also attended
6 the UKHCDO meetings -- sorry, the UKHCDO meeting in
7 October 1983 at which we know the issue of AIDS was
8 discussed.

9 In terms of any processes for testing or
10 providing information in relation to diagnosis, we
11 don't have any contemporaneous documents to cast any
12 light on that. So your best guide there, as with
13 a number of other centres, is going to be the evidence
14 you have received from individuals treated at the
15 centre or whose family members were treated at the
16 centre.

17 Dr Tillyer came on the scene a number of years
18 after testing and diagnosis, so she was not able to
19 cast any light on that.

20 The information the Inquiry has received from
21 UKHCDO suggests 28 patients infected with HIV: three
22 with positive results in 1984, 23 in 1985, one in 1986
23 and one in 1987.

24 In terms of testing for hepatitis C,
25 Dr Tillyer's recollection was that there were many

23

1 anything which helps us understand the particular
2 thinking of the consultants behind this approach to
3 treatment.

4 The Inquiry has received a number of statements
5 from patients treated at or whose family members were
6 treated at the centre. We have referred to some of
7 them in the written note, I won't go through them now,
8 but they show a very similar picture in terms of the
9 provision of information to patients, as has emerged
10 in relation to other centres. So accounts of not
11 being told or of parents not being told about risks of
12 commercial concentrate or relative risks as between
13 commercial and NHS or potential reduced risks in
14 relation to cryoprecipitate.

15 We've nothing by way of direct evidence of the
16 knowledge of risks of viral infection on the part of
17 the directors or other doctors, save to the extent,
18 obviously, we heard Dr Winter's perspective as a more
19 junior doctor. But we do know that Dr Holman during
20 his time as director of the centre did attend a number
21 of UKHCDO meetings. He was there in '68, '71, '74,
22 '77 and '78. We also see also Dr Whitmore attending
23 UKHCDO meetings, either in place of or as well as
24 Dr Holman, in '72, '75, '77, '78 and '79. He
25 continued to be a regular attendee at UKHCDO meetings

22

1 patients with hepatitis C. As far as she could
2 recall, they'd all been diagnosed before she arrived
3 in 1997. She explains how they were monitored in
4 follow-up clinics with liver function tests and
5 testing of viral loads, that a number had already
6 received the first generation hepatitis C treatments,
7 and she talks of referring patients with hepatitis C
8 to gastroenterologists working with the liver team at
9 King's College Hospital.

10 Again, you have evidence from individuals
11 treated at the hospital describing how they learnt
12 that they had been infected with hepatitis C and, as
13 I say, that's before Dr Tillyer takes over.

14 In terms of the treatment of those with HIV,
15 Dr Tillyer said that, by the time she arrived in 1997,
16 there was only one haemophilia patient with HIV. She
17 did have two patients she recalls presenting *de novo*
18 with HIV-related disease, and they were referred to
19 an HIV team for care. That's her recollection of the
20 picture.

21 The last London centre, then, is King's. The
22 names we see as directors from meetings and on annual
23 returns are those of Professor Davidson, who appears
24 to have been director of the centre at King's until
25 around '76, '77, and then Dr Mibashan, director at

24

1 King's from around 1977 to 1989, and we previously saw
2 his name yesterday at the Hammersmith, where he was in
3 the earlier part of the 1970s.

4 Again, King's was one of the 13 designated
5 Haemophilia Centres as at 1970. If we look at the
6 letter to Dr Obank from Professor Davidson, it's at
7 DHSC0100026_023. He explains:

8 "In reply to your letter of 19th December 1969,
9 I am writing to give you details of our work as
10 a Haemophilia Centre."

11 Paragraph 1:

12 "... we had 50 patients who were likely to
13 attend the Centre, together with a further 10 patients
14 who are living at a distance and are unlikely to
15 attend here for treatment.

16 "145 incidents of haemorrhage treated as
17 out-patients at the Centre ..."

18 Then if we go down to paragraph 4, he says:

19 "Taking severe bleeding as those incidents which
20 required admission to hospital, we have had 20 such
21 incidents during the year. It should be noted that
22 a fairly high proportion of these were in children."

23 Then at paragraph 7, he says this:

24 "It is now unusual for a day to pass without at
25 least one haemophilic patient being treated on

25

1 an out-patient basis. The number of incidents
2 occurring at night are increasing. The major
3 difficulty is the supply of suitable replacement
4 materials. At the moment we depend heavily on fresh
5 frozen plasma. It would be of enormous help if
6 a suitable supply of cryoprecipitate could be
7 organised and efforts are being directed to this end
8 through Professor Stafford at St George's Hospital and
9 the Regional Transfusion [Centre]."

10 So that's the picture as at 1970.

11 If we go, then, to the response to Dr Maycock's
12 questionnaire at BPLL0008111, page 26. So this is
13 Professor Davidson, December 1972.

14 "How many patients with haemophilia do you treat
15 regularly? 14

16 "Would you prefer to use for the treatment of
17 your patients ..."

18 We can see (a) and (c) are crossed out, so cryo
19 and a mixed of cryo and concentrates, the "Yes",
20 I think, is crossed out and the answer that's given,
21 in terms of preference, is to (b): the preference is
22 for the use of freeze-dried concentrate. Then there
23 are estimates of potential usage set out further down
24 the page.

25 In the following years, the annual returns

26

1 suggest, in terms of numbers of patients treated, the
2 following: a range of between 12 and 24 patients with
3 haemophilia A; up to eight patients with haemophilia
4 B; and two to three patients with von Willebrand's.
5 There is the occasional treatment of a patient who is
6 a carrier of haemophilia A.

7 The products used for the treatment of the
8 patients again appear from the annual returns. If we
9 start with 1976, HCDO000105_002, and if we go to
10 page 5, we can see a range of different products in
11 use. So cryoprecipitate is, I think, the product in
12 largest use, and, obviously at this stage, the returns
13 don't distinguish between home treatment and hospital
14 treatment, NHS concentrate to a smaller extent. Then
15 we can see four different commercial concentrates in
16 use, Profilate, Factorate, Koate and Hemofil, all
17 being used in relatively large volumes, given the size
18 of the centre.

19 If we then look at 1977, HCDO0001171, we see
20 a different picture emerging in relation to
21 cryoprecipitate so no apparent usage of
22 cryoprecipitate at all, NHS concentrate used, and then
23 again, a range of different commercial concentrates.
24 We seem to have a full house there in terms of the
25 commercial concentrates: Profilate, Factorate, Koate,

27

1 Hemofil and Kryobulin, all identified as being used.

2 1978, which is HCDO0001268, page 3 shows a very
3 small amount of cryoprecipitate in use, and then
4 a much larger volume of NHS concentrates in use, so
5 221,000 units of NHS concentrate.

6 Then not insignificant volumes of commercial
7 concentrates, but not as much as the NHS. So we can
8 see Factorate, Hemofil and Kryobulin all in use, but,
9 as I say, to a significantly lesser extent than the
10 NHS concentrates in 1978.

11 1979, HCDO0001337, shows again a relatively
12 small amount of cryoprecipitate in use. And treatment
13 is dominated by NHS concentrate and then use of the
14 Hyland product, Hemofil. So 225,000 units of NHS
15 concentrate and just over 163,000 units of Hemofil.

16 If we move forward to the 1980s, to HCDO0001432,
17 we can see there a mixed picture. There's a small
18 amount, a relatively small amount of cryoprecipitate
19 used only in hospital. NHS concentrates used to
20 a significant extent, but we also then have a full
21 range of commercial concentrates, with the exception
22 of Profilate, being used. So we've got Factorate,
23 Koate, Hemofil, Kryobulin and Humanate all in use to
24 a varying extent.

25 It's a similar picture in 1981. I won't go to

28

1 that. Cryoprecipitate, tiny usage. Then the largest
2 single product is NHS concentrates but relatively
3 substantial volumes overall of Factorate, Koate,
4 Kryobulin and Humanate being used. Both home and in
5 hospital.

6 I'll pick it up again in 1982. Again, it's
7 a similar pattern. It's HCDO0001633, please. So we
8 can see in 1982, no cryoprecipitate used at all in the
9 treatment of patients with haemophilia A or, indeed,
10 von Willebrand's, in that year. And we see
11 a relatively unusual although not unique account of
12 some commercial concentrates being used for the
13 treatment of von Willebrand's patients.
14 Cryoprecipitate seems to have been used only for
15 a haemophilia A carrier.

16 Then you can see the pattern there set out, so
17 NHS concentrate in fairly significant usage, but so
18 too are a range of commercial concentrates, Hemofil
19 only to a small extent. Kryobulin, Koate, Factorate
20 and Profilate all in use.

21 Then 1983, HCDO0000241_008. Some
22 cryoprecipitate usage in the course of 1983. Again,
23 not possible to know what led to that. NHS
24 concentrate is still the largest in terms of single
25 product being used, both in hospital and for home

29

1 [Concentrate]", there is a reference there to
2 "Edinburgh NHS" concentrate being used: 2,900
3 hospital, 31,900 home treatment.

4 Why NHS concentrate, the Scottish concentrate,
5 was being used at King's centre in 1984 is, I'm
6 afraid, unclear.

7 We know, of course, of the circumstances in
8 which it was learnt that a number of individuals
9 treated with Edinburgh concentrate in Scotland had
10 been infected in the latter half of 1984, so it's
11 somewhat surprising to see it appear there, but we
12 know no more than what is on the return, I'm afraid.

13 In terms of knowledge of risks of viral
14 transmission, again, there is nothing by way of direct
15 evidence that we have. Professor Davidson attended
16 some UKHCDO meetings. He was there in '68 and '71,
17 and others attended in his place in 1972 and 1974.

18 Dr Mibashan was a regular attendee and, on
19 behalf of King's, he was there from 1977 onwards at
20 most of the meetings.

21 Dr Mibashan was also in attendance at that
22 meeting at the London Heathrow Airport hotel with
23 Immuno in January 1983.

24 In terms of the treatment arrangements, or the
25 arrangements for testing and diagnosis, we've

31

1 treatment. But there are still reasonably substantial
2 volumes of commercial concentrates being used,
3 Profilate, Factorate, largely in the course of 1983,
4 with some usage, in smaller volumes, of Koate and
5 Kryobulin.

6 We can see also, if we look towards the bottom
7 of the page, the annual return recording use of DDAVP
8 in 1983. I think that's the first time it appears on
9 the annual returns. I'll double check but I'm fairly
10 confident that's the case.

11 And then lastly in terms of actually looking at
12 returns, if we go to 1984, which is at HCDO0001824, we
13 can see some usage of cryoprecipitate in hospital for
14 the treatment of haemophilia A. Again, it appears,
15 unsurprisingly, for the treatment of von Willebrand's
16 disease. The largest volume in terms of usage is
17 NHS concentrate, in particular for home treatment,
18 just under 300,000 units. But we see, again,
19 commercial concentrates being used in not
20 insignificant volumes: Factorate, just under 78,000 in
21 hospital, 117,000 for home treatment, and Hemofil,
22 14,750 hospital, 77,500 for home treatment. There's
23 a small amount of Koate.

24 Then if you look further down the page, you'll
25 see where it says, "Other Human Factor VIII

30

1 relatively little information, I'm afraid, and so,
2 again, your best guide will be such statements as the
3 Inquiry has received from patients treated at the
4 hospital or whose family members were.

5 In terms of numbers, the UKHCDO data suggests
6 nine patients testing positive for HIV, eight in the
7 course of 1985, and one in 1986. We don't have any
8 data in relation to numbers infected with hepatitis C.

9 Sir, that completes the look at the London
10 Haemophilia Centres. If you give me a moment to move
11 my files around, I'm going to move next to the south.
12 So we'll start with Southampton.

13 The Centre Director at Southampton until 1975
14 was Dr John Leslie. And then he was succeeded by
15 Dr Morag Chisholm in 1975.

16 Dr Chisholm wrote to the Department of Health
17 after taking up her appointment as consultant
18 haematologist asking to be appointed as a Haemophilia
19 Centre Director, and that was duly arranged and she
20 remained in that role until her retirement in 1998.

21 In terms of its location, the Southampton
22 Haemophilia Centre was based in the Royal South Hants
23 Hospital in Southampton and then moved to Southampton
24 General Hospital. It received its supplies of NHS
25 concentrates from the Wessex Regional Transfusion

32

1 Centre.
 2 We will be looking in the course of today at
 3 a number of issues arising in relation to Wessex.
 4 In terms of the annual returns and the
 5 information they contain, if we pick the picture up in
 6 1976 at HCDO0000021_003, please. If we go to page 9.
 7 We can get a sense here of both the size of the
 8 centre and the products in use. So total number of
 9 haemophilic patients treated during the year: 22. Two
 10 with antibodies. Then two patients with
 11 haemophilia B. Then we can see, in terms of the
 12 materials used for treatment, cryoprecipitate,
 13 a mainstay of the treatment as at 1976, so just under
 14 47,000 units of cryoprecipitate; around 22,500 units
 15 of NHS concentrate; and then, in smaller volumes,
 16 three commercial concentrates in use in 1976,
 17 Factorate, Hemofil and Kryobulin.
 18 Then there was one patient with von Willebrand's
 19 disease which appears on a separate entry treated with
 20 cryoprecipitate.
 21 If we then move to 1977. HCDO0001203, please,
 22 Soumik. And we go to page 2.
 23 We can again get a sense of the number of
 24 patients treated, so 16 haemophilic patients in that
 25 year, again two with haemophilia B. Cryoprecipitate

33

1 treatment, and two types of commercial concentrate in
 2 use that year, relatively small amount of Kryobulin.
 3 A larger volume of Factorate used both in hospital and
 4 home treatment although still smaller than the volume
 5 of NHS concentrate in use.
 6 So that's the picture in 1980.
 7 In 1981, HCDO0001570, we can see, again, there
 8 is some usage of cryoprecipitate in hospital. In
 9 terms of single product, NHS concentrate is the
 10 product in greatest use: 122,000-plus units used for
 11 home treatment, just under 26,000 units in hospital.
 12 But we can see four different commercial concentrates
 13 also being used for treatment in the Southampton
 14 centre in that year, Factorate, Koate, Hemofil and
 15 Kryobulin.
 16 1982, HCDO0001667. We can see again
 17 cryoprecipitate in use in hospital, just under 32,000
 18 units. A similar picture in terms of NHS
 19 concentrates, so it's the largest single product in
 20 use, and then a range of different commercial
 21 concentrates also used in smaller volumes but not
 22 insignificant volumes: Factorate, Hemofil and
 23 Kryobulin.
 24 Then if we come to 1983, HCDO0001763. Now 1983,
 25 of course, is the year in which at the UKHCDO meeting

35

1 still in use, but now to a reduced extent. And the
 2 main treatment in use in that year is the NHS
 3 concentrate: 95,750 units. Then, rather smaller
 4 volumes of commercial concentrates but four different
 5 types of commercial concentrate in use: Factorate,
 6 Koate, Hemofil and Kryobulin.
 7 Then if we go to 1979. I don't think we have
 8 a return for 1978. HCDO0001371.
 9 We see a larger number of patients treated, 31
 10 in that year. No cryoprecipitate at all in use in
 11 1979 for the treatment of haemophilia. The main
 12 product in use is the NHS concentrate, 167,500, but
 13 again a range of commercial concentrates, so
 14 Factorate, Hemofil and Kryobulin all used, of which
 15 the largest in terms of volume is Kryobulin at just
 16 over 30,000 units.
 17 Cryoprecipitate was used, I should say, for the
 18 treatment of patients with von Willebrand's disease.
 19 If we then pick it up in 1980, at HCDO0001468.
 20 We see there a pattern. There is some cryoprecipitate
 21 used in hospital, and we've got the breakdown as
 22 between hospital and home treatment here. None used
 23 at all for home treatment.
 24 The largest volume of product is the NHS
 25 concentrate, with 108,000 units used for home

34

1 in the autumn, Dr Chisholm raised the prospect of
 2 offering cryoprecipitate for home treatment, and we'll
 3 come on to that shortly, but in terms of the actual
 4 products used in that year, we can see cryoprecipitate
 5 used to a relatively significant extent in hospital,
 6 so just over 40,000 units, but not apparently used at
 7 all for home treatment.
 8 Again, the main product in use is NHS
 9 concentrate, both in hospital and for home treatment.
 10 But both Factorate and Hemofil also used, with Hemofil
 11 being used in both hospital and home and Factorate
 12 only for home treatment.
 13 So that's the picture in 1983. Then if we
 14 complete the picture from the returns with 1984,
 15 HCDO0001857, we can see there that although
 16 Dr Chisholm had raised at that meeting the possibility
 17 of using cryoprecipitate for home treatment, she did
 18 not use cryo for that purpose in the year that
 19 followed, so cryoprecipitate remains in use but in
 20 hospital only.
 21 Again, significant volumes of NHS concentrate,
 22 both hospital and home, but also of commercial
 23 concentrate, and we can see Factorate, the Armour
 24 product, a relatively large increase there, to over
 25 71,000 units used for home treatment in 1984, with

36

1 Koate and then, to a lesser extent, Hemofil also being
 2 used.
 3 We've looked, I know, on a number of occasions
 4 at that October 1983 UKHCDO meeting. I won't put it
 5 back on screen. But I'll just read aloud, if I may,
 6 the passage which records Dr Chisholm's intervention.
 7 So the minutes say as follows:
 8 "Dr Chisholm raised the problem of patients
 9 refusing to take up commercial Factor VIII concentrate
 10 because of the AIDS scare. She wondered in view of
 11 the worry of the patients whether the Directors could
 12 revert to using cryoprecipitate for home therapy.
 13 Professor Bloom replied that he felt that there was no
 14 need for patients to stop using the commercial
 15 concentrates because at present there was no proof
 16 that the commercial concentrates were the cause of
 17 AIDS. Dr Chisholm pointed out that there was
 18 a further problem in her region because of problems in
 19 getting large amounts of commercial concentrates,
 20 whereas she could get unlimited supplies of
 21 cryoprecipitate. Other Directors reported that they
 22 had the same problems. After discussion it was agreed
 23 that patients should not be encouraged to go over to
 24 cryoprecipitate for home therapy but should continue
 25 to receive the NHS or commercial concentrates in their

37

1 second line:
 2 "You are asking questions about the recent
 3 memorandum sent round to the UK Directors concerning
 4 trials of hepatitis reduced factor VIII. The ideal
 5 patients are those who have never refused any
 6 transfusions of blood products but those patients may
 7 be hard to come by and I think we may have to make use
 8 of patients who have received some material in the
 9 past. Providing they have not received blood products
 10 within the previous year, we should be able to obtain
 11 valuable information from them.
 12 "With regards to the last question in your
 13 letter, should a previously untransfused patient
 14 require surgery I wonder if you could let Miss Spooner
 15 know details of the patient and in particular which
 16 blood product you plan to use in him or her. If all
 17 of the directors keep us informed we shall be able to
 18 see whether or not one blood product is being treated
 19 in preference to others. It would be nice with our
 20 colleagues collaboration to be able to arrange for all
 21 the various blood products to be treated in
 22 a reasonably standardised way and so get information
 23 which will help us all when deciding which product is
 24 safest."
 25 **SIR BRIAN LANGSTAFF:** There must be some error, I think,

39

1 usual way."
 2 So although Dr Chisholm raised this issue, it
 3 appears that she followed the advice that emerged from
 4 the discussion at the UKHCDO meeting, which was not to
 5 switch to cryoprecipitate for home treatment.
 6 But instructive also to note, in terms of issues
 7 of supplies, her account of having access to unlimited
 8 supplies of cryoprecipitate.
 9 Just in relation to 1984, Dr Chisholm expressed
 10 an interest in participating in trials of hepatitis
 11 reduced Factor VIII. We can see her letter to
 12 Dr Rizza on 11 April '84 at OXUH0001890_002, where she
 13 writes saying:
 14 "The recent memo sent out to all UK Haemophilia
 15 Centre Directors about trials about Hepatitis reduced
 16 Factor VIII asked for a list of available patients to
 17 evaluate the hepatitis risk of various Factor VIII
 18 concentrates. It is not entirely clear from the memo
 19 but am I right in saying that only patients who have
 20 not been previously exposed to a blood product would
 21 be eligible for entry to the Trial. I do not know of
 22 any such patients on my list at present, but should
 23 any arise, what would you wish me to do?"
 24 Dr Rizza's response is at OXUH0001890_001, go to
 25 the next page, so 30 April 1984. He says in the

38

1 in the first paragraph, mustn't there?
 2 **MS RICHARDS:** With the use of the word "refused".
 3 **SIR BRIAN LANGSTAFF:** "Never refused", never received
 4 I could understand but "never refused" would mean that
 5 you'd have -- it just doesn't make sense.
 6 **MS RICHARDS:** It doesn't make sense. I think you can be
 7 fairly confident, sir, that that should be "received".
 8 **SIR BRIAN LANGSTAFF:** So somebody in typing it up has
 9 misheard, probably.
 10 **MS RICHARDS:** Potentially, yes. We don't, I'm afraid,
 11 know whether, following this exchange of
 12 correspondence, any patients at the Southampton centre
 13 were subsequently involved in any such study or
 14 observations.
 15 Then, just following matters through to 1985,
 16 issues relating to heat-treated products, we can see
 17 at CBLA0011568, a letter from Dr Bell, a locum
 18 consultant haematologist, to Dr Snape at BPL,
 19 enclosing:
 20 "... a list of patients registered at the
 21 Southampton Haemophilia Centre who I would wish to
 22 receive this product [so this is the NHS heat-treated
 23 product] when it becomes available."
 24 He then says:
 25 "I should add that it may not be possible to

40

1 supply all the information you have asked for on these
 2 patients because of the way in which we operate here
 3 but we will do our best to oblige."
 4 We know from other correspondence, I don't have
 5 it available today, the kind of information that
 6 Dr Snape was asking for. What we don't know is quite
 7 what was meant by Dr Bell when he talks about "the way
 8 in which we operate here".
 9 There is then a further issue in relation to
 10 heat-treated product emerging at ARMO0000379, where we
 11 can see Mr Bishop of Armour writing to Dr Bell at
 12 Southampton Haemophilia Centre, raising an issue about
 13 a particular batch of heat-treated Factorate, and he
 14 says:
 15 "As a result of the on-going [US] surveillance
 16 programme, we have been advised that one donor, whose
 17 plasma was incorporated into pools from which our
 18 Antihæmophilic Factor, FACTORATE, was produced, has
 19 developed [AIDS].
 20 "When this donor was giving plasma, we exerted
 21 our strict routine screening, the donor showed no
 22 indications of ill-health, stated he was not a member
 23 of any risk group associated with AIDS, and was on
 24 active military duty.
 25 "Only one batch in the United Kingdom is

1 implicated. Fortunately this is a heat treated batch
 2 No Y69402. This small, heat treated batch was
 3 distributed in December 1984 and January 1985 to a few
 4 centres only, of which yours is one, and we anticipate
 5 that the product has already been used. If you should
 6 still hold any of this batch, kindly notify us so we
 7 can arrange for its return."
 8 Then we have a further letter to Dr Bell the
 9 following month at ARMO0000398. This, again, is from
 10 Armour, now from Dr Christie, Director of Clinical
 11 Sciences at Armour, to Dr Bell, dealing with the same
 12 batch, she says:
 13 "Further to Mr Bishop's letter ... we have been
 14 advised by the Department of Health that they would be
 15 very interested if all patients who have received this
 16 batch of material could be followed up for HTLV-III
 17 antibody conversion and/or any clinical or
 18 hæmatological signs of AIDS or pre-AIDS symptomology.
 19 "They would also like to know the numbers of
 20 patients who received this particular batch of
 21 material.
 22 "It would be extremely helpful if you could
 23 assist in this matter in the following way:
 24 "(i) Provide the number of patients who received
 25 Factorate batch Y69402, the dose and the number of

1 separate occasions that the product was administered
 2 to individual patients.
 3 "(ii) If known, the HTLV-III antibody status of
 4 these patients prior to receiving Y69402.
 5 "(iii) The patient's clinical condition and
 6 immunological status prior to receiving Y69402.
 7 "(iv) the patient's current HTLV antibody
 8 status, and clinical condition, T4 T8 lymphocyte
 9 ratio, etc, and then a follow-up at approximately six
 10 month intervals for two years.
 11 "All information will be treated in the
 12 strictest confidence and it is not necessary to
 13 identify patients by name."
 14 Then the letter continues over the page by
 15 explaining that this is:
 16 "... an unusual opportunity to assess the
 17 effectiveness of heat treatment in rendering a batch
 18 of Factor VIII safe which was known to contain plasma
 19 from a donor who has developed AIDS."
 20 We don't know whether Dr Bell or anyone else at
 21 Southampton responded to that request, and if so, how.
 22 If I can turn, then, to the issue of knowledge
 23 of this risk of viral infection, there are a range of
 24 communications throughout the 1970s -- or I should say
 25 in the course of the 1970s, again not dissimilar from

1 the kinds of communications we've seen from other
 2 centres, reporting possible instances of jaundice or
 3 hepatitis. So there is, for example, a letter from
 4 Dr Kirk to Dr Chisholm regarding patients treated with
 5 a batch of Kryobulin found to carry hepatitis B.
 6 The Southampton centre, again in common with
 7 other centres, completed Hepatitis Survey forms and
 8 submitted them to Ms Spooner at Oxford. And we've set
 9 out in our notes some examples of that in 1977, 1982
 10 and 1983.
 11 In terms of UKHCDO meetings, we know that
 12 Dr Chisholm's predecessor, Dr Leslie, was a fairly
 13 regular attendee at UKHCDO meetings. Dr Chisholm's
 14 first attendance appears to have been the October '83
 15 meeting that I've already referred to, and thereafter
 16 she attended meetings in 1988 and '89 and various
 17 meetings in the 1990s.
 18 Again, reasonable to assume that the Southampton
 19 centre and its clinician staff would have received
 20 information from UKHCDO.
 21 Again, there's no contemporaneous documentation
 22 to cast any light on the question of what information
 23 was provided about risks to patients, but the evidence
 24 the Inquiry has received from patients treated by or
 25 whose family members were treated by the Southampton

1 centre paints a similar picture to the picture you've
2 seen elsewhere of people not being given information
3 about risks associated with the use of blood products.
4 Sir, I note the time. There's some
5 correspondence I need to pick up which will take more
6 than a couple of minutes, so perhaps we could do that
7 after the break.

8 **SIR BRIAN LANGSTAFF:** Yes, well, let's do that, then, and
9 come back at quarter to 12. Quarter to 12.

10 (11.15 am)

11 (A short break)

12 (11.45 am)

13 **MS RICHARDS:** Sir, continuing with Southampton, I'm going
14 to pick up on an issue now that will follow through in
15 relation to a number of centres that were served by
16 the Wessex Regional Transfusion Centre, and we will
17 come back to some further documents this afternoon in
18 relation to Salisbury, but if we can start at
19 DHSC0002247_090, please. You will see this is
20 a letter of 4th October 1984. It is from the Deputy
21 Medical Director of the Wessex Regional Transfusion
22 Centre, Dr Barnes, and it's sent to a number of
23 consultant haematologists, so I'll list them all. For
24 present purposes we're dealing with Dr Chisholm at
25 Southampton General but you'll see it goes to

45

1 Dr Aronstam at Treloar's, Dr Oscier at Bournemouth,
2 Dr Green at Portsmouth, Dr Parry at Salisbury,
3 Dr Mavor at Winchester, Dr Gilliver at Dorchester,
4 Dr MacAndrew at Newport, and it concerns BPL
5 Factor VIII batch number HL3136 (*sic*), and the letter
6 reads:

7 "With further reference to Mr Allison's
8 telephone call to your Blood Bank Chief MLSO
9 yesterday, asking for the above quoted batch of
10 Factor VIII to be recalled and returned to us.

11 "The reason for this is that one of the donors
12 whose plasma was incorporated in this pool is now
13 thought to be suffering from AIDS."

14 So this is a BPL batch of concentrate:

15 "Investigations are being carried out and the
16 diagnosis should be settled one way or the other,
17 within the next week or two. In the meantime, may
18 I confirm Mr Allison's request and ask for all unused
19 ampoules of this batch to be recalled and returned to
20 this Centre.

21 "In order to prevent undue worry to your
22 patients may I ask you for your discretion here and,
23 for the time being at least, to keep this new [I think
24 that should be news] to yourself. When any definite
25 information does become available, either Dr Smith or

46

1 myself will let you know."

2 So that letter was written to, amongst others,
3 Dr Chisholm at Southampton in October 1984. The
4 evidence we have, and we will come on to some of the
5 documents, suggests that there were potentially eight
6 patients at the Southampton centre who may have been
7 treated with that batch. We can see two patients
8 shared as between Southampton and Treloar's who were
9 treated with it, from a letter at TREL0000110_040.

10 Can we take that down, please, and stop the
11 transcript. A name wasn't redacted. It may be that
12 that's not a problem, but on the copy I have two names
13 are redacted and I don't want to risk any inadvertent
14 identification. So we won't put that letter up.

15 **SIR BRIAN LANGSTAFF:** I think what we can do is we can
16 restart the transcript in a moment, but you can simply
17 summarise.

18 **MS RICHARDS:** I absolutely can.

19 **SIR BRIAN LANGSTAFF:** Shall we put the transcript back on?

20 **MS RICHARDS:** Yes. We will restart the transmission,
21 please.

22 Without putting the letter up at all, in
23 December of 1984, Dr Bell, in his capacity as a locum
24 consultant haematologist wrote to Dr Aronstam at
25 Treloar's explaining that there were two patients

47

1 should been issued with the batch from Southampton
2 Haemophilia Centre, ten bottles on 22 August, and
3 a further three bottles on 29 August 1984, and
4 Dr Bell's understanding was that they were being kept
5 under review.

6 Sir, I'm fairly confident that wasn't
7 a problematic display because I don't think it was
8 an anonymous patient, looking at the name, but I'm
9 just erring on the side of caution, if I may.

10 Sir, we know two of the patients treated with
11 the batch at Southampton were also pupils at
12 Treloar's. There's then a follow-up letter, in
13 relation to this batch, and this time from BPL, at
14 CBLA0001997. This is from Dr Snape, 24 January 1985,
15 follow-up of patients treated with Factor VIII batch
16 HL3186, and if we just look over the page, first of
17 all, we will see it was a letter sent to a range of
18 recipients, including there Dr Chisholm, Southampton
19 General Hospital. If we go back to the first page, it
20 explains:

21 "In October 1984, you were informed by
22 [Dr Smith], Director of Wessex RTC, of the need to
23 recover and return to BPL all unused vials from batch
24 HL3186, following confirmation of the inclusion, in
25 the plasma pool from which the batch was manufactured,

48

1 of plasma from a confirmed AIDS sufferer. With your
 2 assistance this recall was completed promptly and
 3 effectively.
 4 "As you know, the follow-up of patients treated
 5 with batch HL3186 is being coordinated from Dr John
 6 Craske, PHLS, Manchester. I understand from Dr Craske
 7 that he has received very poor response to requests
 8 for details of patients treated with this batch, and
 9 an even less satisfactory response to requests for
 10 samples of patients' sera. I would urge you to give
 11 Dr Craske your complete support in the identification
 12 of patients treated with this batch, and in the
 13 clinical follow-up outlined in Dr Craske's letter of
 14 20th November 1984."

15 We will look at Dr Craske's letter in relation
 16 to one of the later Haemophilia Centres.

17 Dr Bell, on behalf of Southampton, responded to
 18 Dr Snape on 29 January 1985, CBLA000010_194.
 19 Actually, Soumik, before we put that up, I'm just
 20 going to be -- out of an abundance of caution, let's
 21 not put that up, if we may. I'm going to read the
 22 relevant part of the letter. I am going to do that
 23 simply because I note there are a number of patient
 24 names listed in the letter and I don't want to put
 25 anything up that we shouldn't, so it's a short letter,

1 that, as I understand it, is that, for some of the
 2 smaller centres treating in the 1980s, they didn't
 3 directly report the test results to UKHCDO, even
 4 though they had patients who they'd treated, and they
 5 had patients who they may have arranged for their
 6 testing for HTLV-III.

7 So sometimes the data was reported through other
 8 centres, and our understanding from UKHCDO was that
 9 Southampton data was reported to UKHCDO by the centre
 10 at Basingstoke.

11 So we don't have a discrete figure for the
 12 number of patients infected with HIV or who may have
 13 been infected with HIV at Southampton.

14 There are a couple of documents which give us
 15 some information, however. The first, which is in
 16 relation to a specific patient is HCDO000132_035. If
 17 we go to the second page, this is just to provide some
 18 information about a particular seroconversion at
 19 Southampton. We can see there that for this patient,
 20 date of last negative test, 22 February 1985, date of
 21 first positive test, 14 October 1985. So that
 22 suggests potential seroconversion in the course of
 23 1985.

24 It's said that the result was confirmed in the
 25 reference laboratory and the second specimen tested

1 and the reference for the transcript I've already
 2 given. It says:
 3 "Dear Dr Snape,
 4 "Thank you for your letter of 24 January
 5 regarding follow-up of patients treated with
 6 Factor VIII batch HL3186. All eight patients exposed
 7 to this batch at Southampton have been informed of the
 8 problem and sera from seven of these patients have
 9 been sent to Dr John Craske. One of the eight
 10 patients is being followed up by Dr Aronstam at Lord
 11 Mayor Treloar College, although he was supplied with
 12 Factor VIII from this centre."

13 Then Dr Bell provided Dr Snape at BPL with the
 14 names of the eight patients who had been exposed to
 15 that batch.

16 So that's the information we have from the
 17 correspondence with Southampton about that particular
 18 issue. We will see, as I say, with later centres,
 19 probably with Salisbury, some of the further
 20 correspondence surrounding the Wessex donation and the
 21 potential contamination of that particular batch.

22 Now, in terms of the number of seroconversions
 23 to HIV for patients treated in Southampton, we don't
 24 have any data on the table of information that we put
 25 together from data supplied by UKHCDO. The reason for

1 and the result confirmed. Not known when the last
 2 dose of unheated Factor VIII was. Date of first dose
 3 of heated Factor VIII approximately April 1985. Then
 4 we can see this was a patient treated, as there set
 5 out, including with the Armour product, so Armour,
 6 Koate and Lister.

7 Given that the date of the first dose of heated
 8 Factor VIII is said to have been approximately
 9 April 1985, it looks as though this was a patient
 10 treated with unheated commercial concentrate, Koate,
 11 in January '85, and with unheated Armour concentrate
 12 in January '85. Then home treatment with an Armour
 13 product which again, from the batch number, looks like
 14 it was probably unheated, because it's the same batch
 15 number as was given in January 1985. Then with the
 16 Lister product from May 1985, which presumably would
 17 have been, given the date, heat treated.

18 So the form, at face value, at least tends to
 19 suggest that unheated commercial concentrates may
 20 still have been used to treat patients in the course
 21 of 1985 until the heated NHS product became available,
 22 and appears to suggest, in relation to this patient at
 23 least, seroconversion in 1985.

24 **SIR BRIAN LANGSTAFF:** Yes.

25 **MS RICHARDS:** The other piece of information that we have

1 which gives an indication potentially of numbers of
2 patients infected comes from a document at
3 MACF0000175_036, and that's a letter, 31 July 1989,
4 from Dr Chisholm to the Macfarlane Trust. And it
5 says:

6 "Thank you for your recent note listing the
7 10 patients registered with the Southampton
8 Haemophilia Centre who have registered with the
9 Trust."

10 Now, that may, of course, include patients
11 infected who were currently registered with the
12 Southampton centre but might have been infected
13 through treatment elsewhere, and that's always going
14 to be the case with this kind of data that we have,
15 but in any event it may provide some indication.

16 Then the letter continues:

17 "In addition to those there is one further
18 patient, the girlfriend of a haemophiliac who died
19 last year, who I believe has registered independently
20 with the Trust."

21 So it would suggest there at least one case of
22 a partner becoming infected.

23 In terms of hepatitis C, we don't have figures
24 for the numbers infected, I'm afraid. You've received
25 a range of evidence from patients describing the way

53

1 Barnstaple, Bath, Bristol Children's Hospital,
2 Dorchester, Kettering, Northampton, Plymouth,
3 Salisbury, Taunton/Yeovil, and then Truro, which I'm
4 currently dealing with, and then Winchester. And
5 you'll see there the name of the directors as at the
6 date of this meeting in 1978.

7 So we know from this that Dr Murrell was the
8 director at the point in time at which the haemophilia
9 service at Truro became recognised as an associate
10 centre.

11 Dr Murrell, as far as we understand the
12 position, remained director until around 1987, and
13 then Dr Helena Daly took over as director in late 1987
14 and remained in that position until around 1992.

15 Dr Daly has provided a statement to the Inquiry,
16 two statements to the Inquiry. We don't need to put
17 them up on screen but the references for the
18 transcript are WITN4685001 and WITN4685008.

19 So she has given a description of the facilities
20 available at Truro at the point in which she arrived,
21 so second half of the 1980s. She describes a well
22 equipped haematology laboratory opening in 1986, eight
23 beds available for inpatients on an acute medical
24 ward, a house physician and a senior house officer
25 providing day-to-day care, and she describes two

55

1 in which they learnt they have been infected with
2 hepatitis C, and that includes, in relation to
3 Southampton, patients being told -- one case in
4 1994 -- at a routine check-up, unaware that they'd
5 been tested, another example of a patient explaining
6 that they had not been aware that they were being
7 tested for hepatitis C.

8 So that, sir, is a summary of the information
9 available in relation to Southampton. I'm going to
10 turn next to Truro.

11 If we start in relation to Truro by looking at
12 OXUH0003765_020. These are the minutes of a UKHCDO
13 Haemophilia Centre Directors meeting -- no, my
14 apologies. This is a meeting of Haemophilia Centre
15 Directors and Blood Transfusion Centre Directors
16 within the Oxford supra-region, 19th June 1978.

17 If we go to the second page, bottom half of the
18 page, we see there:

19 "Designation of Haemophilia Centres and
20 Associate Centres

21 "Dr Rizza reported that 12 new Centres or
22 Associate Centres had been established since the last
23 Supraregional meeting."

24 We can see them there listed. Some of them are
25 ones I'll come to today and some I will come to later:

54

1 general haematology clinics.

2 So it's a broader haematology service, not
3 solely relating to haemophilia, staffed by two
4 consultants, one staff grade doctor, two clinical
5 assistants and one senior house officer, as well as
6 a range of nursing staff.

7 She says further -- again, this is very much in
8 describing the second half of the 1980s:

9 "All out-patient activities, including
10 haemophilia care, were held in a purpose-built
11 haematology oncology unit adjacent to the laboratory
12 funded by locally raised funds. The unit was run as
13 a day treatment centre and incorporated an outpatient
14 transfusion room, plasma exchange room, procedure
15 room, treatment room, cytotoxic preparation suite and
16 consultant and nursing offices".

17 If we look again just at the facilities and the
18 like at Truro, at DHSC0002472_173, this is an extract
19 from haemophilia centre publication.

20 If we just go to the second page and look at the
21 bottom half of the page, under the heading "Grants to
22 Centres", we can see in relation to the "Royal
23 Cornwall Hospital, Truro" that a grant of:

24 "£2,500 to help with integration of haemophilia
25 patient records to a standard compatible with the rest

56

1 of the hospital."
 2 So what exactly was meant by that is unclear but
 3 it would appear to raise a question mark about the way
 4 in which records have been maintained. The date of
 5 that publication is April of 1990.
 6 The blood Transfusion Centre which supplied
 7 Truro with blood products was based at Bristol. And
 8 if we look at DHSC0100026_061, we will see from this
 9 letter, which is dated 15 May 1973, that the South
 10 West Regional Transfusion Centre in Bristol was
 11 supplying cryoprecipitate to a number of hospitals,
 12 including Truro. This is before the establishment of
 13 Truro as a formal associate centre.
 14 So we can see in this letter to Dr Maycock, the
 15 author gives details of:
 16 "... a list of hospitals in the South West
 17 Region to which we issue cryoprecipitate."
 18 And we can see it encompasses Exeter, Taunton,
 19 Torquay, Penzance, Truro, which was where the centre
 20 was then subsequently confirmed, Plymouth, Gloucester,
 21 Cheltenham, Barnstaple, Bath, Yeovil,
 22 Weston-super-Mare, and Bristol.
 23 In her witness statement, Dr Daly described
 24 a close relationship between the haemophilia centre at
 25 Truro and the blood transfusion centre. She says that

57

1 the haemophilia centre received blood and blood
 2 products from the transfusion centre on a constant
 3 routine and occasional emergency basis:
 4 "They never let us down even though Truro was
 5 the furthest city from a Blood Transfusion Centre in
 6 the UK and our catchment included the Scilly isles."
 7 The first available annual return is from 1977,
 8 and if we turn to that at HCDO0001213, we can see this
 9 was completed by Dr Murrell.
 10 It showed 28 patients being treated in relation
 11 to haemophilia during the year. No patients with
 12 haemophilia B. There's a "Total amount of material
 13 used" there given in handwriting there, so
 14 cryoprecipitate 1,066 bags, and then Lister
 15 Factor VIII looks like 347 bottles. We can see that
 16 set out in the table below.
 17 So at that point in time, no commercial
 18 concentrate there. But you'll see by Kryobulin there
 19 has been written, presumably by Dr Murrell or on
 20 behalf of Dr Murrell, "[Question mark] Data not
 21 available", which suggests that there might have been
 22 some use of Kryobulin but that they didn't have
 23 figures as to the quantity. That's at least one
 24 inference that one might draw from that document.
 25 We don't have an annual returns for 1978.

58

1 1979 is at HCDO0001380. We can see there
 2 14 patients treated in 1979. And then the treatment
 3 largely comprising NHS concentrates, 125,000 units,
 4 with a small usage of cryoprecipitate, 2,000 units,
 5 and a small usage of Kryobulin, 2,500 units.
 6 If we turn to 1980, HCDO0001478, we can see
 7 there 20 patients with haemophilia A treated, two with
 8 von Willebrand's. We don't, I think, have a return
 9 indicating the number of patients with haemophilia B
 10 that year.
 11 We've got the breakdown as between hospital and
 12 home treatment. We can see cryoprecipitate being used
 13 to a reasonably large extent in hospital, it looks
 14 like 34,600 units handwritten there, but not at all
 15 for home treatment.
 16 Then we can see NHS concentrates being used,
 17 both for hospital and home treatment, and then, again,
 18 Kryobulin being used for hospital and home treatment.
 19 So the sole commercial concentrate there in use is the
 20 Immuno product.
 21 If we pick the picture up in 1981 at
 22 HCDO0001582, the writing I'm afraid is fairly faint.
 23 It looks like there are 25 patients treated there,
 24 although it might be 23. I'm not entirely sure.
 25 **SIR BRIAN LANGSTAFF:** It looks like 23 to me.

59

1 **MS RICHARDS:** Yes, you may be right, sir, I think.
 2 Then if we look at the figures, not clear, but
 3 usage in relation to cryoprecipitate obviously there
 4 very small. That looks like 300 units. None at all
 5 for home treatment.
 6 Then it's difficult to discern what the figures
 7 are in relation to NHS concentrate and Kryobulin, but
 8 we can see in any event, the same pattern repeated:
 9 that those are the two products in use for the
 10 treatment of patients.
 11 1982's return is at HCDO0001677 and, happily, is
 12 rather more legible. Twenty patients treated in 1982.
 13 We can see cryoprecipitate being used to a reasonable
 14 extent in hospital: 18,000 units. Not at all for home
 15 treatment. Then NHS concentrates are the major form
 16 of treatment: just over 56,000 in hospital, 168,700
 17 units for home treatment. Then, again, the one
 18 commercial concentrate in usage, to a reasonably
 19 substantial extent, is Kryobulin: a total of
 20 70,000 units distributed between hospital and home
 21 treatment.
 22 The picture for 1983 is at HCDO0001774.
 23 21 patients treated. The figures are given in a mix
 24 of units and bottles. But the pattern is essentially,
 25 I think, the same. So a small amount of

60

1 cryoprecipitate and then the major treatment coming
2 with NHS concentrates and with Kryobulin.
3 And that is the same picture for 1984 but with
4 one significant difference. So if we go to
5 HCDO0001868, we can see, in 1984, a year in which
6 27 patients with haemophilia A and one
7 von Willebrand's patient were treated. It's the same
8 three products, cryo, NHS concentrate and Kryobulin,
9 but a much larger volume of cryoprecipitate being used
10 in 1984: 100,000 units in hospital, again zero for
11 home treatment.

12 NHS concentrates: 45,000 in hospital, 180 for
13 home treatment. And then the largest volume is
14 Kryobulin: 300,000 units distributed there between
15 hospital and home treatment in 1984.

16 Again, we don't have any information, I'm
17 afraid, which enables us to discern why that different
18 picture emerges both in terms of a greater use of
19 cryoprecipitate in 1984 but also an increased use of
20 Kryobulin in 1984.

21 Dr Daly describes in her statement, coming on to
22 the scene in 1986, an understanding that Dr Murrell
23 had made the switch to heat-treated commercial factor
24 concentrates prior to the availability of UK
25 heat-treated concentrates. And her understanding was

61

1 that Dr Murrell used BPL treatments, heat-treated
2 products, from April of 1985 when he could, and
3 commercial heat-treated products when the BPL material
4 was not available.

5 Then from October 1985 her evidence was that the
6 centre used 8Y, so the BPL product, referred
7 especially for children, mildly affected patients, and
8 patients with no previous exposure, to prevent, she
9 says, non-A, non-B hepatitis.

10 Again, her recollection from 1986 is that home
11 treatment was already well established, and that
12 appears to be borne out by the returns. She doesn't
13 recall initiating home treatment for any patient
14 whilst she was at the Truro centre.

15 In terms of knowledge of risk, little is known
16 about what Dr Murrell as a matter of fact did or did
17 not know about the risk of viral infection. We've
18 seen the year in which the centre in Truro became
19 a recognised associate centre. So from that point
20 onwards it may be reasonable to assume that he
21 received copies of UKHCDO minutes. Whether they were
22 received before then may be more open to doubt.

23 Dr Murrell does not appear to have been
24 a regular attender at UKHCDO meetings. So the minutes
25 record him attending a meeting in October 1977, and

62

1 that was a fairly significant meeting in terms of
2 discussions about hepatitis, because Dr Kirk and
3 Dr Craske had reported on hepatitis, and there was
4 a discussion, amongst other things, about the use of
5 liver biopsies in haemophiliacs.

6 Dr Daly, although obviously coming on to the
7 scene in Truro only in the second half of the
8 eighties, has explained in her statement that she was
9 aware of hepatitis risks from the early 1970s, because
10 she had, when very junior, been aware of the Edinburgh
11 outbreak of hepatitis in the dialysis unit there.

12 Then she has described in her statement her
13 growing awareness between 1984 and 1986 of the
14 potential for serious liver disease due to non-A,
15 non-B hepatitis.

16 There is one document, perhaps a slightly
17 curious document, from 1990. TSFT0000001_011.

18 This is a memo from Dr Daly, 11 November 1990,
19 "To all Haemophilia Centre Directors in the South West
20 Region", headed "Liver Disease in Haemophiliacs", and
21 she says this:

22 "After the meeting in September, I thought
23 I would try and find out specifically what is meant by
24 liver disease in haemophiliacs and it has not been
25 easy."

63

1 Then she talks about relevance of elevations of
2 ALT. Picking it up towards the end of that paragraph:
3 "Such patients should have their tests repeated
4 3 times a year. In addition clinical evidence for
5 liver disease should be sought and a decision on
6 whether liver biopsy might be appropriate."

7 Then she refers her south-west colleagues to
8 a number of articles, including articles by Dr Kernoff
9 in the British Journal of Haematology.

10 We don't know, I'm afraid, anything about
11 Dr Murrell's knowledge in relation to AIDS other than
12 to say that certainly he ought to have received copies
13 of UKHCDO minutes in the early part of the 1980s.

14 Dr Daly obviously had a particularly acute
15 knowledge of AIDS in relation to Bristol, and we
16 explored that on the last occasion when we looked at
17 the Bristol Haemophilia Centre.

18 In relation to testing for HIV, Dr Daly says
19 that, from her perspective at Truro, patients were
20 routinely advised they would have regular hepatitis
21 and HIV serology at review appointments but, again,
22 that obviously covers the picture only from 1986
23 onwards.

24 Her recollection was of two patients at the
25 centre being infected with HIV. The provisional data

64

1 provided to the Inquiry by UKHCDO suggests four
2 patients recorded as testing positive for HIV in Truro
3 in 1985.

4 Dr Daly was involved with the treatment of
5 haemophilic patients infected with HIV at Truro. She
6 was the AIDS designated physician for Cornwall between
7 1989 and 1992. And, sir, you will no doubt recall the
8 evidence of the parents of Lee Turton -- the family
9 having moved to Cornwall in 1989 and coming under the
10 care of the centre -- about concerns regarding the
11 treatment with AZT and the toxicity of AZT.

12 In terms of hepatitis C testing, we know that
13 Dr Daly attended a UKHCDO meeting in October of 1991
14 where the recommendation was that all haemophiliacs
15 should be tested for hepatitis C, and all those tested
16 by first generation tests should be re-tested using
17 second generation tests.

18 The reference for that, although we don't need
19 to put it on screen, is HCDO000491_001.

20 Her recollection is that samples were tested for
21 hepatitis C in Truro in around 1991. She doesn't
22 think patients had been asked to consent to storage of
23 sera but says she advised patients she intended
24 storing sera in the hope of future tests.

25 She can't recall seeing positive hepatitis C

65

1 hepatitis C positive.
2 "Number untested. 1."
3 And the form says that that person was not
4 contacted. It doesn't, obviously, tell us the reason
5 for that.
6 Then we have, in section 2 of the form, an
7 evaluation of the testing:
8 "Number who have undergone serial liver function
9 testing ... 31.
10 "Number with normal LFT ... 15.
11 "Number with intermittently abnormal LFT. 3.
12 "Number tested for HCV-RNA. 33."
13 The bottom of the page says:
14 "Are patients screened regularly for
15 hepatocellular carcinoma."
16 The answer is "Yes".
17 Over the page it identifies two patients as
18 having had a liver biopsy. The criteria for liver
19 biopsy is described as follows:
20 "Disease likely to respond in consultation with
21 a fully informed patient."
22 Then we have information about anti-viral
23 therapy, so:
24 "Number of patients treated with
25 alfa-interferon. 4."

67

1 results and informing patients of a diagnosis of
2 hepatitis C. Whether that is simply the difficulties
3 of remembering things without documentation so many
4 years after the event, or whether it reflects the fact
5 that she moved on from Truro in the course of 1992, we
6 don't know.

7 Again, sir, you've received evidence from
8 individuals in relation to processes of being informed
9 of diagnosis at the centre.

10 One further document to look at is at
11 TSFT0000002_031. This is a form headed "South West
12 Haematologists' Group HCV Audit Questionnaire", and
13 it's for the haemophilia centre in Truro.

14 The date on which the form is completed is
15 unclear, but the date at the very bottom of the form
16 is March 1996, so it will presumably have been filled
17 in either in or after March of 1996, and it gives us
18 some information about patients with hepatitis C.

19 So at 1.1:

20 "Number of patients currently registered with
21 your centre who received cryoprecipitate or large-pool
22 coagulation factor concentrates. 41.

23 "Number of these patients who are HCV antibody
24 [positive]. 38."

25 So by far and away the vast majority are

66

1 It appears to suggest no patients currently
2 eligible but not treated, and the entry for budgetary
3 constraints is not, therefore, completed.
4 "Number of patients sustaining response 6 months
5 plus after end of IFN [so interferon treatment].
6 3 failed.
7 "Number of patients given ribavirin/other
8 anti-HCV treatment ... 0."
9 **SIR BRIAN LANGSTAFF:** Just going back to 3.2, "Describe
10 your criteria for liver biopsy", how do you interpret
11 what is said underneath it?
12 **MS RICHARDS:** It doesn't obviously make sense as
13 a response to the question, unfortunately, other than
14 saying that it would -- they expect patients to be
15 fully informed. "Disease likely to respond" doesn't
16 really explain why in one patient you might undertake
17 a liver biopsy and in another you wouldn't.
18 **SIR BRIAN LANGSTAFF:** No.
19 **MS RICHARDS:** We don't, I'm afraid, know who completed
20 this. It's obviously past the time when Dr Daly had
21 left at Truro, so it's not her form.
22 If we look further down the page, the section at
23 5, "Your indications for anti-viral therapy in [HIV
24 positive] patients", most of it is not completed,
25 apart from at 5.7 "Other". So this appears to be the

68

1 criteria:
 2 "PCR positive, but bearing in mind the genotype,
 3 the likelihood of response and the patient's wishes."
 4 Then if we go to the next page, no patients had
 5 died from liver disease at that point in time, none
 6 were also HIV positive, none have been referred for
 7 liver transplant.
 8 Then the question at 7:
 9 "Do you recommend HCV testing ...
 10 This is in relation to sexual partners of HCV
 11 positive patients, and the answer is "once".
 12 Then advice in relation to condom use:
 13 recommended for all patients "but advise evidence not
 14 definitive".
 15 So that's some information, apart from the
 16 statements we have from individuals, about the process
 17 in relation to treatment of hepatitis C at Truro.
 18 There is one further letter that casts some
 19 further light on the position, if we look at
 20 WITN1574003, this is a letter from Dr Daly to Mr and
 21 Mrs Turton, to Lee's mum and dad, dated
 22 30 December 2018, and it is in response to a query or
 23 questions from Mr and Mrs Turton. She explains, in
 24 her second paragraph, her memory of Lee, both from
 25 Bristol and from Truro. She then says in the next

69

1 ([Dr Tedder at Middlesex] and University College
 2 Medical School London first had the hepatitis C test
 3 in UK). I can't remember when we in Truro had access
 4 to the test for current or stored samples. Screening
 5 of UK blood donors began in 1991.
 6 "Liver function tests (LFTs) were performed at
 7 the biochemistry laboratory Royal Cornwall Hospital
 8 Treliske ... However any viral tests including
 9 hepatitis C tests were sent to the department of
 10 microbiology ... and from there to NHS Regional Public
 11 Health Laboratory Bristol ... In early days these may
 12 have been forwarded on to Dr Tedder at the
 13 Middlesex Hospital. I don't remember when or where
 14 Lee's hepatitis C test was performed."
 15 Then if we go over the page, she deals with some
 16 matters relating to records, and then, in the next
 17 main paragraph, says this:
 18 "To further complicate matters some samples from
 19 some haemophiliacs in the late 1980s were stored in
 20 the microbiology department at RCH-T [the Royal
 21 Cornwall Hospital]. This was done because at that
 22 time we did not know the cause of abnormal LFTs and
 23 there was a lot of research going on to determine
 24 this. Samples were stored as we hoped there would be
 25 a test in the future. Consequently, there may be

71

1 paragraph:
 2 "I remember Lee had HIV when he came to Truro as
 3 a young child in, you say 1989, I presume he
 4 contracted this from non-heat treated [Factor] VIII
 5 concentrate most likely, but not definitely,
 6 commercial non-heat treated concentrate. I don't
 7 remember if he was known to have hepatitis C also at
 8 the time as HIV was considered the more serious
 9 illness.
 10 "I do not remember when Lee first tested
 11 positive for hepatitis C. I do not have any of his
 12 NHS records. My following comments/observations are
 13 based on memory any. I have not been involved in the
 14 care of haemophiliacs since 1997."
 15 Then Dr Daly goes on to provide some broader
 16 information about liver function tests and hepatitis C
 17 testing, as follows:
 18 "In the late 1980s we were gathering liver
 19 function tests from patients with haemophilia as
 20 evidence was emerging that abnormal liver function
 21 tests may reflect harm and may be due to a yet
 22 unidentified form of hepatitis -- termed non-A non-B
 23 hepatitis ... In 1990 or 1991 an antibody test became
 24 available for hepatitis C and patients were tested for
 25 this. This was initially in research laboratories

70

1 stored samples or results from stored samples which
 2 may have been tested retrospectively when the tests
 3 for hepatitis C became available. The date on the
 4 sample means the date the sample was taken and not
 5 necessarily the date it was tested and when the
 6 diagnosis of hepatitis C became known. For some
 7 patients there may be several years in the difference.
 8 Nonetheless, the date of testing for hepatitis C would
 9 have been recorded at the laboratory. In some cases
 10 the date of seroconversion (when a patient became
 11 positive for hepatitis C) was inferred ie between the
 12 last known negative test and first positive test. All
 13 this information can be requested from [Royal Cornwall
 14 Hospital] but they may need some prompting as to what
 15 was done 26 years ago and different from today."
 16 So that casts some further light on the
 17 processes in relation to both testing and storage of
 18 samples in Cornwall. We're grateful to Mr and
 19 Mrs Turton for drawing that to our attention.
 20 I'm going to move now, sir, to Bournemouth. We
 21 can take that down, thank you, Soumik. The Centre
 22 Director at Bournemouth in the 1970s, or rather from
 23 1972 to 1977 was Dr Stern, and he was involved in the
 24 establishment of the centre at the Royal Victoria
 25 Hospital in Bournemouth. He was assisted, as we'll

72

1 see from a publication and a couple of letters, by
 2 Dr Nancy Dilling. Then he was succeeded as Centre
 3 Director in December 1977 by Dr Green.
 4 There's a document which announces in
 5 December 1980 that Dr Green would then be moving to
 6 Portsmouth but he seems to have remained in post at
 7 Bournemouth until 1981. Then a meeting of Haemophilia
 8 Centre Directors in October '81 records that
 9 Dr Hamblin had taken over as director of the
 10 Bournemouth centre when Dr Green moved to Portsmouth,
 11 but he doesn't appear to have remained in post for
 12 long because by November of '81 Dr Oscier was signing
 13 the annual returns or the documents being sent to
 14 Oxford, and he has recorded in the minutes of the
 15 September '82 Haemophilia Centre Directors meeting as
 16 having taken over as director.
 17 There was a move of location from -- for the
 18 haemophilia centre then in the 1990s to the Royal
 19 Bournemouth Hospital and it became described as the
 20 Bournemouth and Poole Haemophilia Centre, at that
 21 point, by 1991, Dr Worsley was a co-director with
 22 Dr Oscier of the Bournemouth and Poole Centre, and
 23 then she took over as soul director in due course.
 24 If we look at HSOC0016116_018, we can see some
 25 information in this Haemophilia Society council

73

1 meeting from July 1970 about the early attempts to
 2 establish a haemophilia centre in Bournemouth. If we
 3 go to the second page, top of the page. It records,
 4 under the heading "New centres":
 5 "Dr Kuttner referred to the correspondence he
 6 had had with the Secretary concerning the possibility
 7 of establishing the Royal Victoria Hospital, Boscombe,
 8 Bournemouth as a Haemophilia Centre. Mr Prothero had
 9 informed him that this was one of the matters to be
 10 raised at the meeting with the Department of Health
 11 and Social Security. The Department had still not
 12 fixed a date for the meeting. Dr Stern said that
 13 originally Dr Biggs had suggested that he should apply
 14 to the Regional Board but the Board had said that
 15 there could only be one centre in the Region, and
 16 Portsmouth was the centre. He [Dr Stern] spoke of the
 17 work of his department, which was organised on similar
 18 lines to some of the more effective Haemophilia
 19 Centres, and said that all his patients were very
 20 anxious that it should be established as a Centre.
 21 "Professor Hardisty said that he could not
 22 understand why there should only be one centre in the
 23 region. Portsmouth was a long and often difficult
 24 journey for people living in the Boscombe, Bournemouth
 25 area."

74

1 Then there was suggestion that the matter should
 2 be pursued with the Department of Health and Social
 3 Security.
 4 So that's the position in 1970. I won't go
 5 through all the documents, we can see there were
 6 letters of support sent, for example on behalf of
 7 Professor Hardisty and others, but it's recorded in
 8 another Haemophilia Society meeting in April 1972,
 9 that official confirmation had been received from the
 10 Department of Health that, amongst other centres, the
 11 Royal Victoria Hospital, Bournemouth had been
 12 officially designated as a centre, and we will see --
 13 again, we don't need to go to the underlying
 14 documents -- Dr Stern attended a meeting of
 15 Haemophilia Centre Directors in April 1971, but was
 16 formally welcomed as the director of a new haemophilia
 17 centre in October 1972.
 18 In terms of supplies, the Bournemouth centre
 19 received its NHS supplies from the Wessex Regional
 20 Transfusion Centre. If we look at HSOC0029691_142,
 21 minutes of a meeting of The Haemophilia Society's
 22 Executive Committee December 1971. If we go to
 23 page 5, top of the page, this gives us some
 24 information about Wessex and its supply to Dr Stern in
 25 Bournemouth:

75

1 "Dr Kuttner had had a most interesting visit to
 2 Dr Smith, Director of the new Wessex Blood Transfusion
 3 Centre in Southampton which supplies cryoprecipitate
 4 to both Dr Leslie's and Dr Stern's treatment units
 5 [the latter being Bournemouth]. Dr Smith that been
 6 very pleased at the interest shown in what he was
 7 doing. The crews of many ships are volunteering as
 8 blood donors."
 9 That may be an issue we will pick up when we
 10 look at Wessex Regional Transfusion Centre in later
 11 hearings.
 12 If we then turn to NHBT0112213, please. This is
 13 a document from February 1976 from Wessex Regional
 14 Transfusion Centre. It appears to be an estimate of
 15 future blood requirements. If we look at the fourth
 16 row down, we have the Royal Victoria Hospital
 17 Haemophilia Centre, Dr Stern, and it's said:
 18 "They are doing more dental and orthopaedic
 19 surgery on haemophiliacs and require larger doses of
 20 Cryoprecipitate and Concentrate."
 21 So that's the picture as at 1976.
 22 Around the same time, if we look at NHBT0107767,
 23 we can see a letter, again it's Dr Smith the Medical
 24 Director at the Wessex Regional Transfusion Centre who
 25 is the author of this, it is 27 February 1976. If we

76

1 look at the bottom of the page, we can see it's sent
 2 to four principal recipients, they include Dr Chisholm
 3 at Southampton, which we've already looked at, but
 4 also there, Dr Stern, at the Royal Victoria Hospital
 5 in Bournemouth. Then if we go back to the text of the
 6 letter we can see it raises issues about ability to
 7 supply cryoprecipitate:
 8 "The new document HC(76)4 ... 'Arrangements for
 9 the Care of Persons Suffering from Haemophilia and
 10 Related Conditions', mentions that the management of
 11 patients undergoing surgery has become easier as
 12 a range of therapeutic materials have become more
 13 readily available and it may no longer be necessary to
 14 refer patients to the Reference Centre at Oxford for
 15 major surgery.
 16 "Unfortunately, in Wessex our cryoprecipitate,
 17 18,466 units annually, is at maximum production and we
 18 are also trying to produce 11,000 units of fresh
 19 frozen plasma for the British Factor VIII concentrate.
 20 I have no news of when we shall receive Factor VIII
 21 freeze dried concentrate from the Blood Products
 22 Laboratory, and it may well be another six months at
 23 least before any is available.
 24 "In view of this, may I request that if surgical
 25 procedures are contemplated, as you've previously

1 done, you keep us informed, and as Appendix 2
 2 paragraph 7 suggests [presumably a reference to the
 3 document in the first paragraph], it will still be
 4 possible and may well be advisable, to consult the
 5 Reference Centre at Oxford about the further
 6 availability of therapeutic materials if we are unable
 7 to help you."
 8 Issues there relating to supply of both
 9 cryoprecipitate and NHS concentrate from the Wessex
 10 area in 1976.
 11 **SIR BRIAN LANGSTAFF:** There, when he talks about "units",
 12 it won't be the same as units of Factor VIII activity?
 13 **MS RICHARDS:** No. I wouldn't have thought so.
 14 **SIR BRIAN LANGSTAFF:** This will be bags, basically,
 15 I suppose, assuming that each bag is a single unit.
 16 **MS RICHARDS:** Yes. We may be able to ascertain that by
 17 reference to other Wessex documents and provide you
 18 with an answer when we look at the blood services at
 19 the hearings later this year.
 20 **SIR BRIAN LANGSTAFF:** Thank you.
 21 **MS RICHARDS:** If we then go to CBLA0000112, this is
 22 somewhat earlier in the 1970s, this is December 1972.
 23 Dr Dilling, at Bournemouth writing to Dr Maycock at
 24 BPL, in relation to Factor VIII concentrate for the
 25 treatment of haemophilia. Second paragraph says this:

1 "As regards choice between cryoprecipitate and
 2 freeze dried concentrate, I would say freeze dried
 3 would be usually more useful, more easily handled and
 4 more easily stored. It would, however, if made up in
 5 large numbers of units per bottle, be somewhat
 6 wasteful when only small amounts are needed -- say,
 7 for children. It is for this reason I suggest that
 8 some of the supply be as cryoprecipitate.
 9 "Should, however, small dose bottles be
 10 available, then the total supply could be as freeze
 11 dried."
 12 That, I think, is an explanation she is giving
 13 for the way she has filled in Dr Maycock's
 14 questionnaire, which we will find at BPLL0008111, the
 15 Bournemouth response to the questionnaire is at page 4
 16 and, in terms of how many patients with haemophilia
 17 are treated regularly, it says 29 regulars, 21
 18 visitors and 19 occasional.
 19 Then the question:
 20 "What would you prefer to use for the treatment
 21 of your patients ..."
 22 The answer that's given is "Some cryoprecipitate
 23 and some freeze-dried concentrate", that's 2(c).
 24 Then we have, in the letter we looked at
 25 a moment ago, Dr Dilling, I think, explaining why that

1 Ms Bournemouth's preference.
 2 In terms of annual returns and patient numbers,
 3 the numbers vary quite considerably from year to year
 4 and that may be a reflection of the fact that there
 5 were a number of people treated as visitors, because
 6 we see a variation between 15 and 41 haemophilia A
 7 patients in the period from around 1976 to 1985.
 8 We will look a handful of the returns, starting
 9 with HCDO0001060, and so we will see this is the
 10 annual return for Bournemouth for 1978. 41 patients
 11 treated, three with antibodies, of whom two were
 12 visitors, four haemophilia B patients treated. Then
 13 we can see in terms of products used, a significant
 14 volume of cryoprecipitate, 117,000-odd; more cryo than
 15 NHS concentrate, which is 108,000 or so; but the
 16 largest product in use is the commercial product
 17 Hemofil, 276,000-odd units of Hemofil used that year;
 18 and then a smaller volume of Kryobulin.
 19 If we just look by way of example in the same
 20 document to page 15, this is one of a number of pages
 21 which appears to record, for individual patients,
 22 batch usage. We don't see this with the following
 23 returns, I think, but for this year at least, this
 24 kind of data seems to have been retained.
 25 If we go, then, to 1978, HCDO0001235, and we go

1 to page 21, we can see, for 1978, 20 patients treated
 2 for haemophilia A, and four haemophilia B patients.
 3 Then we can see no cryoprecipitate usage at all, NHS
 4 concentrates 186,000 or so. So the largest single
 5 product in use is the NHS concentrate. But commercial
 6 concentrates used, both Factorate and Hemofil, and
 7 combined they add up to considerably more than the NHS
 8 concentrate in terms of overall proportions.

9 It's a similar picture in 1979 where the
 10 products used are NHS concentrate, Factorate, Hemofil
 11 and Kryobulin, and overall, more commercial products
 12 are used than NHS product, in terms of concentrate,
 13 and no cryoprecipitate recorded for the treatment of
 14 haemophilia patients.

15 Again, in 1980, it's NHS concentrate, Factorate,
 16 Hemofil and Kryobulin. So, again, a similar pattern.

17 If we pick the matter up in 1982 at HCDO0001600,
 18 we can see again no cryoprecipitate used; NHS
 19 concentrates used, in total between hospital and home,
 20 a little over 170,000; and then both Hemofil and
 21 Kryobulin are used, 94,000-odd Hemofil at home, just
 22 under 12,000 hospital, 4,700-odd Kryobulin hospital,
 23 and just under 92,000 for home treatment.

24 So unclear why no cryoprecipitate at all appears
 25 to be used during these years.

81

1 elsewhere.

2 In terms of knowledge of risk, there's some
 3 interesting material from Bournemouth in relation to
 4 hepatitis. So leaving aside the question of
 5 attendance at UKHCDO meetings, and Dr Stern attended
 6 a number of meetings, we can see, if we pick matters
 7 up at DHSC0100018_041, it's slightly faint, but we can
 8 see here in 1974 Dr Dilling reporting to the Regional
 9 Transfusion Centre, so the Wessex Regional Transfusion
 10 Centre, a potential case of hepatitis, and the view
 11 being expressed by Dr Dilling that it's nothing to do
 12 with the cryoprecipitate. She refers to patients with
 13 Hemofil -- receiving any Hemofil, testing HAA positive
 14 is what is set out there.

15 Then there's a form she encloses,
 16 DHSC0100018_042. If we just look at the very bottom
 17 of the page, where the opinion that's expressed is:

18 "I think this patient has been infected with
 19 serum hepatitis but the evidence seems to suggest that
 20 Hemofil rather than cryoprecipitate is the infectious
 21 agent."

22 There's another case reported later in 1974 --
 23 I won't go to the documentation in relation to that --
 24 where Dr Dilling also thinks that the implicated
 25 product may be Hemofil, although cryoprecipitate was

83

1 If we pick the picture up in 1983 at
 2 HCDO0001696, there's a small amount of cryoprecipitate
 3 used, and then we can see, again, NHS concentrates in
 4 use. The largest product in terms of overall usage is
 5 Kryobulin, which for home treatment is 204,606, and
 6 a range of other concentrates also used, the volume of
 7 Koate is very small but a substantial volumes of both
 8 Factorate and Hemofil also in use in 1983. So plainly
 9 no reversion to cryoprecipitate in 1983 at
 10 Bournemouth.

11 Then, if we turn to HCDO0001792, which is the
 12 return for 1984, again no cryoprecipitate whatsoever
 13 recorded there for the treatment of the 16
 14 haemophilia A patients treated during that year. We
 15 see NHS concentrate being used, and then the Armour
 16 product, Koate, Hemofil, and Kryobulin. Again, the
 17 dominant treatment is the commercial concentrate
 18 Kryobulin, with also reasonably substantial volumes of
 19 Factorate, Hemofil being used, some Koate, and then
 20 some NHS concentrates as well.

21 We know from communications between the
 22 Bournemouth centre and Dr Snape, in the course of
 23 1985, that BPL heat-treated products were sought for
 24 some patients. I won't take you to the
 25 correspondence. We've seen similar correspondence

82

1 still regarded as a contender.

2 Then if we go to HCDO0001017, we have here the
 3 minutes of the Haemophilia Centre Directors meeting in
 4 November 1974. The interest in this meeting in
 5 relation to Bournemouth is apparent from page 5 where,
 6 under the heading "Report on Jaundice following
 7 treatment with commercial Factor VIII", we have
 8 Dr Craske reporting to the meeting on:

9 "... an epidemic of Hepatitis A and B in the
 10 haemophilic patients in Bournemouth who had received
 11 one particular batch of commercial factor VIII. 6
 12 patients had hepatitis A and 3 hepatitis B. Dr Craske
 13 said that his report was (as far as he knew) the first
 14 record of hepatitis A being transmitted to a group of
 15 patients by one batch of therapeutic material."

16 Then the next paragraph refers to episodes of
 17 hepatitis in Oxford patients, and then there's
 18 a discussion towards the bottom of the page about
 19 problems arising from the use of therapeutic materials
 20 which might be contaminated with various hepatitis
 21 viruses.

22 The Bournemouth outbreak became the subject of
 23 an article in The Lancet in August 1975. We've
 24 looked at it before but not from a Bournemouth
 25 perspective, so if we go to PRSE0001794, please. We

84

1 will see in the right-hand column, under the heading
 2 "Public Health":
 3 "An outbreak of hepatitis associated with
 4 intravenous injection of Factor-VIII concentrate."
 5 The authors of the article are Dr Craske and
 6 then Dr Nancy Dilling and then Dr David Stern from the
 7 haemophilia centre at the Royal Victoria Hospital in
 8 Bournemouth. The summary provides that:
 9 "An outbreak of jaundice associated with three
 10 out of four batches of a commercial brand of
 11 freeze-dried factor-VIII concentrate occurred at the
 12 Bournemouth haemophilia centre between April and June,
 13 1974. Seven cases of non-B hepatitis and four of
 14 hepatitis B occurred within 6 months of the first use
 15 of this product. Two patients contracted both types
 16 of hepatitis; thus nine patients became ill out of
 17 a total of twenty regularly seen at the centre,
 18 eighteen of whom received commercial factor-VIII
 19 concentrate."
 20 Then if we look under the heading
 21 "Introduction", the first paragraph reads:
 22 "Until lately haemophilia has generally been
 23 treated by cryoprecipitate. The introduction of
 24 freeze-dried factor-VIII concentrates has brought
 25 considerable advantages."

85

1 article says this:
 2 "The measures now used by the National Blood
 3 Transfusion Service to reduce the incidence of
 4 transfusion hepatitis, such as the use of single
 5 donations and small pools of plasma, make the
 6 occurrence of more than one case of transfusion
 7 hepatitis as the result of contamination of a plasma
 8 pool by a single donor most unlikely. The risk is
 9 greatly increased with factor-VIII concentrates
 10 prepared from pools of more than a thousand donations.
 11 When blood for blood transfusion is prepared from
 12 commercial donations this increases the frequency of
 13 jaundice three to ninefold for single blood
 14 transfusions. The pool size, however, may be critical
 15 in factor-VIII concentrates, since transfusion
 16 hepatitis is a known hazard with large-pool products
 17 prepared from volunteer donors in the UK."
 18 Then if we go to the next page, again, there's
 19 a further discussion relating to the outbreak and its
 20 implications. But if we go to the bottom left-hand
 21 column, we see this being set out.
 22 "What is required is a freeze-dried factor-VIII
 23 concentrate prepared from volunteer donors in the UK
 24 prepared according to an approved protocol of testing.
 25 A small quantity is available, but it is likely that

87

1 Then those perceived advantages are then
 2 described.
 3 Then the next paragraph says:
 4 "Treatment with factor-VIII concentrates exposes
 5 the patient to a higher risk of contracting
 6 transfusion hepatitis. Cryoprecipitate, in which each
 7 bag is made from one or two donations, carries
 8 a relatively low risk of hepatitis. Commercial
 9 factor-VIII concentrates, which are prepared from
 10 pools of 2 to 6,000 litres of plasma obtained by
 11 plasmapheresis from paid donors, would be expected to
 12 carry a much higher risk of transfusion hepatitis."
 13 So I think we can have no doubt about the state
 14 of knowledge of Dr Dilling and Dr Stern in Bournemouth
 15 as at the mid-1970s. They go on to describe the
 16 report of an outbreak of both short incubation
 17 hepatitis non-B and hepatitis B associated with the
 18 use of three out of four batches of the commercial
 19 Factor VIII concentrate.
 20 If we go to the next page, I won't go through
 21 the detailed description of the outbreak, but if we go
 22 to the bottom right-hand corner of this page, we can
 23 see a discussion in relation to pool sizes, which
 24 again helps us understand the knowledge of those
 25 running the haemophilia centre at the time. The

86

1 some reliance will have to be placed on commercial
 2 sources for some time to come.
 3 "In the meantime, some or all of the following
 4 measures might help to lessen the frequency of
 5 jaundice.
 6 "(1) Commercial factor VIII concentrates should
 7 be reserved for the treatment of life-threatening
 8 bleeds in all haemophiliacs and for covering major
 9 operations.
 10 "(2) If used for treatment, commercial
 11 concentrates should be reserved for severely affected
 12 haemophiliacs, since they are more likely to be immune
 13 to hepatitis A and B. Treatment should be carried out
 14 by experienced staff who are aware of the risks of
 15 using large-pool concentrates."
 16 Then (3) refers to giving consideration to a
 17 trial.
 18 So those were the recommendations being authored
 19 by, amongst others, Dr Dilling and Dr Stern in
 20 Bournemouth in 1975.
 21 We have seen from the returns that in fact the
 22 use of commercial concentrates and non-use of
 23 cryoprecipitate seem something of a feature. But it
 24 is right to point out that Dr Stern retired in 1977,
 25 and we understand Dr Dilling died in 1975, and so they

88

1 were then not the clinicians responsible for the
2 subsequent course of treatment at Bournemouth over the
3 years that followed in the late seventies and in the
4 1980s.

5 There's a further discussion or report about the
6 Bournemouth outbreak in a study co-authored by
7 Dr Craske and Dr Kirk entitled "Hemofil-associated
8 hepatitis 1970-1974 in the UK, a retrospective
9 survey". I'm not going to go to it, we have looked at
10 it previously, but for the benefit of the transcript
11 the reference is CBLA000566.

12 If I can just complete the picture in relation
13 to hepatitis before we break for lunch.

14 We know that Dr Stern attended the Haemophilia
15 Centre Directors meeting in September 1975, at which
16 there was a discussion about post-transfusion
17 hepatitis, and again a discussion of pool sizes and
18 relative pool sizes as between NHS and commercial
19 concentrates, to which Dr Ingram contributed.

20 Then, in our written note, sir, we have referred
21 to Dr Green, who was Dr Stern's successor, writing to
22 Dr Maycock at BPL in March 1973. The date is
23 erroneous, it should have been March 1978. But that
24 was to notify Dr Maycock -- I am not going to put the
25 document on screen -- that they traced the recipients

89

1 and the following two pages we have the reports in
2 relation to Bournemouth. Bottom of the page -- sorry,
3 bottom of page 4, we can see the kind of information
4 given here in terms of reaction:

5 "Became jaundiced

6 "Liver function tests very abnormal

7 "[Hepatitis B] negative ..."

8 And then the patient is now described as
9 "completely fit".

10 The next page, in relation to a separate
11 patient, bottom of the page, describes that patient as
12 becoming jaundiced and then there's been raised liver
13 function tests. And then the third page, bottom of
14 the page again, describes the patient becoming
15 jaundiced, "very abnormal liver function tests",
16 "[hepatitis B] negative", and then the outcome is
17 described as the "patient now completely fit".

18 And then finally, before lunch, TREL0000313_128,
19 please. This is a letter from Dr Green in his
20 capacity as director of the Bournemouth Haemophilia
21 Centre, 25 July 1979, to a GP. We need only I think
22 look at the third paragraph which says this:

23 "You will, however, be aware that there has
24 recently been some concern that haemophiliacs in
25 receipt of a lot of treatment develop abnormal liver

91

1 of 56 out of 60 bottles of a suspect batch of
2 Factor VIII and 13 patients had been treated with the
3 batch, one had developed jaundice.

4 It's right to note that Dr Maycock didn't think
5 that either the BPL product or indeed a commercial
6 product was responsible.

7 We know that Dr Green attended the Haemophilia
8 Centre Directors meeting in June 1978.

9 Then if we look at 1979, some further reports of
10 hepatitis, ARMO0000029.

11 This is a letter from Armour to the medical
12 assessor at the Committee on Safety of Medicines,
13 21 February 1979, and it encloses:

14 "... five Yellow forms reporting five cases of
15 hepatitis with Factorate.

16 "The five cases have been reported from two
17 centres, but only one batch of Factorate -- batch
18 S12303 -- has been implicated more than once."

19 Then we can see doctors reporting the reaction.
20 Dr Green is identified, at Bournemouth, as having
21 reported reactions in relation to three Factorate
22 batches.

23 If we go to page 4, we can see here samples of
24 what were described as the "Yellow forms". I'm not
25 proposing to go through the detail of it but on this

90

1 function tests and indeed chronic liver disease. It
2 has become my policy in this Centre to check their
3 liver function tests and also look for the Australia
4 antigen at three to six monthly intervals."

5 And then goes on to deal again with the specific
6 patient who was the subject of the letter.

7 So some insight there into some particular
8 knowledge of and involvement in issues relating to
9 reporting of hepatitis cases in the seventies from
10 Bournemouth.

11 Sir, I won't quite finish Bournemouth -- no,
12 actually, I think I probably will. Five minutes and
13 I can finish Bournemouth. I'm entirely in your hands.

14 **SIR BRIAN LANGSTAFF:** Let's go ahead.

15 **MS RICHARDS:** So there isn't much documentation in
16 relation to the position as regards AIDS, and we're
17 very much dependent again upon an understanding of
18 what clinicians would expect to know from attendance
19 at UKHCDO meetings and materials in medical journals
20 and so on.

21 There is a report from Dr Oscier in
22 March 1984: HCDO000238_017. This is to Miss Spooner
23 at the Oxford Haemophilia Centre.

24 If we look at the second paragraph, we can see
25 Dr Oscier says this:

92

1 "I am also taking the liberty of enclosing an
2 AIDS investigation form; I realise that this probably
3 should not come to you, but I have managed to lose the
4 notes telling me who I should send it to."

5 I think this is probably a reference to the AIDS
6 reporting form circulated by Dr Craske, in which he
7 asked Haemophilia Centre Directors to report possible
8 cases of AIDS to him. So it would seem that that's
9 a likely reference to that in March of 1984.

10 Then, if we go to DHSC0002247_093, we'll see
11 this is a follow-up in relation to the donation that
12 had been made from a donor to the Wessex Transfusion
13 Centre, the donor having subsequently tested positive
14 for AIDS. We looked at the earlier letter in relation
15 to Southampton.

16 This is a follow-up letter, 16 October 1984. We
17 see from the bottom of the page the recipients include
18 Dr Oscier at Bournemouth, and indeed all the other
19 directors in the Haemophilia Centres served by the
20 Wessex Regional Transfusion Centre, and the second
21 paragraph explains in relation to this BPL batch:

22 "I am extremely sorry to have to tell you that
23 the diagnosis of AIDS has now been confirmed."

24 Then reference made to correspondence from
25 Dr Snape -- we looked at one of Dr Snape's letters

93

1 earlier -- and a suggestion that there be a follow-up
2 from Dr Craske. And we're going to look at that when
3 we come to one of the later centres this afternoon.

4 There is correspondence to suggest in relation
5 to Bournemouth that the suspect batch had not been
6 used. There are letters which appear to suggest stock
7 of the contaminated batch being returned.

8 In terms of data regarding infection with HIV,
9 the UKHCDO data supplied to the Inquiry indicates
10 eight patients may have been infected with HIV. One
11 patient's test reported from 1984, five from 1985, one
12 from 1988, one date unknown.

13 There's also a report -- I don't think we need
14 to go to it but I'll just give the reference -- at
15 MRCO0000388_188, which records six cases of AIDS
16 having been reported at the Royal Victoria Hospital by
17 July 1987. So that gives an indication in terms of
18 numbers. That's not inconsistent with the UKHCDO data
19 which then reported a case from 1988 and a case at
20 date of testing unknown.

21 We don't have information about numbers infected
22 with hepatitis C in relation to Bournemouth.

23 So, sir, that completes our look at the
24 Bournemouth centre, and then I can pick up the
25 picture, still in the south-west, after lunch, with

94

1 Plymouth.

2 **SIR BRIAN LANGSTAFF:** Yes. So it's Plymouth at five past
3 two.

4 **(1.04 pm)**

(The luncheon adjournment)

6 **(2.05 pm)**

7 **MS RICHARDS:** Sir, I'm going to turn next to Plymouth.

8 There is one additional document relevant to Lewisham,
9 which I want to come to, but we're making arrangements
10 for it to be available for display. So once that is
11 available, I will show it at a convenient moment.

12 Sir, in relation to Plymouth, the evidence we
13 have suggests that there was no physical haemophilia
14 centre as such at Plymouth. Haemophilia care was
15 provided at the haematology department at the District
16 General Hospital and then at a later stage in the
17 1980s at the Derriford Hospital.

18 If we go to HSOC0029671_003. These are the
19 minutes of a meeting to of the Executive Committee of
20 the Haemophilia Society in June '72. If we go to the
21 second page we can see the early origins of a centre
22 in Plymouth. If we look at the heading, "Honorary
23 Secretary's Report", it says:

24 "Professor JL Stafford will be leaving St
25 George's the hospital in the autumn. His successor as

95

1 Director of the Haemophilia Centre at St George's,
2 Tooting, is not yet known. Professor Stafford is,
3 inter al, to be Director of the Blood Transfusion
4 'sub-centre' in Plymouth. Mrs Britten told him that
5 there is no organised treatment for haemophiliacs
6 between Exeter Centre and Truro, which is not
7 an official centre, and asked him if he would start
8 something in Plymouth. He says he will study the
9 situation on arrival and will 'help as best I can'."

10 Then if we pick it up in 1976, that's
11 CBLA0000391, these are the minutes of a meeting in
12 July 1976 of Blood Transfusion Centre Directors,
13 Regional Scientific -- no, if we go to -- yes,
14 Regional Scientific Advisors and Haemophilia Centre
15 Directors -- sorry, the heading appears more usefully
16 on page 5. But if we go over the page, in any event,
17 to page 7, we can see the discussion about Plymouth,
18 bottom of the page:

19 "Dr Mills and Dr Edgcumbe spoke about the South
20 West Region and considered that Associate Centres or
21 Haemophilia Centres should be set up at Plymouth,
22 Taunton, Truro, Torbay and Barnstable. It was
23 emphasised that doctors interested to organise centres
24 worked at these hospitals, that patients were in fact
25 treated at these hospitals and that many summer

96

1 visitors came to the area. In the summer the roads in
2 the South West are congested and travelling long
3 distances to the Haemophilia Centre at Exeter could be
4 very time consuming. If the centres were listed then
5 the patients would know where to go.

6 "Dr Smith said ..."

7 He refers then to the supply of cryoprecipitate
8 there from the Wessex Regional Transfusion Centre and
9 the discussion continues.

10 Sir, we can see there the ongoing discussions
11 relating to the creation of a formal centre in
12 Plymouth. That had happened, certainly, I think, by
13 1977. Dr Greenburgh and Dr Stafford are identified as
14 the centre's directors in a document from
15 January 1977. Dr Greenburgh retired in 1981 and there
16 are UKHCDO minutes which identify them as
17 co-directors.

18 Dr Prentice then became the co-director with
19 Dr Stafford in 1982 and he remained there until he
20 moved to a hospital in London in 2006. We do have
21 a statement from Dr Prentice and I shall refer to some
22 specific extracts from that statement shortly.

23 In terms of the facilities from Plymouth, from
24 Dr Prentice's perspective, and describing the picture,
25 therefore, in the early 1980s, he said there were no

97

1 So the Bristol Transfusion Centre supplied
2 products to Plymouth but there was this sub-centre of
3 the Regional Transfusion Centre actually located in
4 Plymouth along with a blood bank.

5 In terms of treatment -- ability to purchase
6 treatments and issues around shortage and supply,
7 there is, at TREL0000142_025 a snapshot from 1976.
8 This is a letter in relation to a particular patient
9 addressed to Dr Kirk at Treloar's from Dr Stafford in
10 Plymouth. He refers there to the stocks of Hemofil
11 having to maintain at artificially high levels during
12 the holiday season and having a surprising number of
13 transient visitors, and was requesting assistance in
14 terms of stocks from Treloar's for the treatment of
15 that particular patient.

16 Then if we go next in 1978 to CBLA0000822, we
17 can see Dr Stafford writing to Dr Tovey, the Director
18 of the Bristol Regional Transfusion Centre, on 31 July
19 1978, where he picks up issues about supply in the
20 second sentence:

21 "I am unhappy to have to relate that we are now
22 using the Lister freeze-dried material in excess of
23 income for these two patients."

24 Then refers to the two patients and says:

25 "I would hesitate to alter back to Hemofil for

99

1 haemophilia clinics run and very few patients in
2 Plymouth. He describes the facilities as follows:

3 "Patients came up initially to the Portakabin
4 outside the laboratory, an old converted police
5 station, and the laboratory would call me to see the
6 patients when they had arrived with bleeds. Sometimes
7 they would call my secretary and the calls to me would
8 come through her. A clinical unit within the hospital
9 was established in 1986, in which patients were
10 subsequently seen."

11 If we then look, in terms of the supply of
12 products to Plymouth, at NHBT0006268_002, if we look
13 at the "Introduction" to this document, top half of
14 the page:

15 "The South Western Regional Transfusion Centre
16 has its Headquarters at Bristol on the Southmead
17 Hospital site. This Sub-centre and Blood Bank is at
18 Plymouth General Hospital ...

19 "This Sub-centre works closely with the Bristol
20 Regional Centre and has a direct computer terminal
21 link.

22 "There are two donor collection teams working
23 from Plymouth, but their work is controlled and
24 scheduled from the Bristol Regional Transfusion
25 Centre."

98

1 psychological reasons and we are therefore stuck with
2 using 884 bottles on these two patients alone, when
3 our yearly income is 480 bottles in total."

4 Then there's a request for assistance from the
5 blood transfusion centre, and then a suggestion of
6 possibly -- in the last paragraph -- sending Hemofil
7 to Cambridge, to the Cambridge centre, and asking
8 possibly for a release of Lister stock.

9 There's a response from Dr Maycock to Dr Tovey
10 on 11 August 1978, CBLA0000828, which refers to
11 Dr Stafford's request, and says in the second
12 paragraph:

13 "I have arranged to increase the Bristol
14 allocation by [it looks like] 30 bottles and 40
15 bottles a month on alternate months. I hope this will
16 be of some help."

17 So we can see there appear to be supply issues
18 in the second half of the 1970s.

19 If we go to Dr Prentice's witness statement to
20 the Inquiry, WITN5422001, we can pick up what
21 Dr Prentice was able to recall in relation to the
22 approach to treatment and access to products at page
23 4, where he says this, paragraph 16:

24 "I do not remember policies being formulated by
25 the Plymouth Haematology Department and I do not

100

1 recall us having any. In terms of the selection,
 2 purchasing and use of blood products we went for what
 3 was available. We used commercial product as it was
 4 often all we could get. I remember constantly trying
 5 to find a source of Factor VIII and having difficulty
 6 with the availability of the supply. I looked for
 7 what was the safest product, but I cannot recall any
 8 other criteria. Thus generally decisions were based
 9 on what products we could source."

10 Next paragraph:

11 "17. I do remember discussing the supply of
 12 blood and blood products with the South West Centre of
 13 the National Blood Service. I cannot remember whether
 14 there were discussions with the Regional Health
 15 Authority. The Regional Health Authority was a very
 16 difficult body to deal with.

17 "18. The decisions to choose one product over
 18 another were not decisions as such. It was as a
 19 result of availability of product. Commercial and/or
 20 financial considerations played no part whatsoever in
 21 any sourcing of blood supply.

22 "19. I do not remember giving patients a choice
 23 as to which product they would be provided with.
 24 I may have asked but I do not remember. I do not
 25 remember if I could even give a choice. As I have

1 cryoprecipitate, I used cryoprecipitate for moderate
 2 and mild haemophilia A and for Von Willebrand's
 3 Disease. I tried to stick to that as much as I could.
 4 None of us wanted to use pooled products if we could
 5 avoid them. Cryoprecipitate is a single donor
 6 product."

7 While we're looking at this statement, perhaps
 8 we can pick up what Dr Prentice recalled about
 9 knowledge of risk, again bearing in mind that he was
 10 not at Plymouth in the 1970s but joined in 1982.

11 If we go to the bottom of page 7, please,
 12 Soumik. He says:

13 "All I can recall about the relative risks of
 14 infection from commercially supplied Factor
 15 concentrates and NHS Factor concentrates is that there
 16 was a difference in risk. I believe that UKHCDO
 17 donors were regular, unpaid, UK, NBS blood donors. In
 18 terms of the commercial products we often did not know
 19 the source of that blood supply. Commercial companies
 20 were reticent with information. I do recall that in
 21 1968 when travelling in America, I gave blood as
 22 a paid donor to fund part of my travel. From the
 23 other donors around me at that time it was clear to me
 24 even then that the supply chain could have been
 25 contaminated. I often thought about that when people

1 already set out, we had to use what we had."

2 If we go to the next page and pick up
 3 paragraph 25 he says this:

4 "The alternative treatments to Factor
 5 concentrates available in the 1970s and 80s were
 6 cryoprecipitate and DDAVP to the best of my
 7 recollection. I always preferred not to give blood or
 8 blood product if it could be avoided. I was taught
 9 that a pint of blood is a potential biological time
 10 bomb. One can never be sure of all consequences
 11 however safe a blood product is made."

12 Then paragraph 27 he talks about
 13 cryoprecipitate:

14 "An advantage of using cryoprecipitate is that
 15 it comes from a single donor and not pooled blood. It
 16 is better for Von Willebrand patients. The main
 17 disadvantage is that there is a variable level of
 18 Factor VIII concentrate. It is also not treatment
 19 which can be used for home treatment. Each case is
 20 treated on its own merits and a record of past
 21 responses to blood or blood products is important."

22 If we go over to the page and look at
 23 paragraph 31, he says:

24 "In relation to the Plymouth Haematology
 25 Department's policy and approach in relation to

1 were talking about commercial blood supplies.

2 "43. I definitely asked where commercial blood
 3 products were coming from and there was a general
 4 concern amongst colleagues about it. My way of
 5 keeping up to date with scientific and medical
 6 developments and knowledge was to read the British
 7 Medical Journal, The Lancet, The New England Journal
 8 of Medicine and the British Journal of Haematology.
 9 Publication of the American Society of Hematology,
 10 'Blood', was another publication I regularly read."

11 Then if we look at what he says about hepatitis
 12 in the following paragraph:

13 "I knew the risk of Hepatitis B as I was exposed
 14 to it as a Senior Registrar. A contaminated bag of
 15 platelets from a Hep B positive donor had burst and
 16 sprayed me whilst I worked at the Royal Hospital for
 17 Sick Children, Glasgow, in the late 1970s ... I had to
 18 be tested and was fortunately negative so I knew about
 19 the risk of Hepatitis B from early in my career. We
 20 all knew that Hepatitis B could be fatal. I am not
 21 sure when the risks of Hepatitis C became known to me
 22 although I'm fairly sure that the severity of non-A
 23 and non-B Hepatitis (which was later renamed
 24 Hepatitis C) was not clear until later in the 1980s
 25 when it did become clear that it could be as bad as

1 hepatitis B."
 2 Then, bottom of that page, picking it up in the
 3 last three words -- sorry, the last two lines:
 4 "For me, reduction in use of blood and blood
 5 products was a key factor in reducing risk to
 6 patients. Other ways to reduce risk included the use
 7 of appropriate products. For severe Haemophilia A we
 8 would use Factor VIII, for moderate Haemophilia A we
 9 would use cryoprecipitate (unless it was a severe
 10 bleed) and more mild Haemophilia A we used DDAVP or
 11 cryoprecipitate. My recollection is that I always
 12 managed to get Factor VIII for severe bleeds in
 13 patients who would have died without it."
 14 Then, in relation to HIV and AIDS, he says this:
 15 "47. My knowledge and understanding [this is in
 16 the following paragraph] of HIV (HTLV-III) and AIDS
 17 developed over time, as it was written up. I would
 18 read about it and discuss it with colleagues. It was
 19 an established process of developing knowledge. All
 20 of this knowledge was acquired through reading paper
 21 journals (there were no online journals) and
 22 discussion with colleagues at meetings. I have no
 23 specific detail of when I first became [I think there
 24 might be word 'aware' missing] that there might be an
 25 association between AIDS and the use of blood

105

1 "53. I do not recall that their letter changed
 2 my policy and use of blood products as evidence was
 3 evolving at that time (June 1983) and to change policy
 4 in the face of uncertainty would have been unwise.
 5 "In relation to reduction of risk of infection
 6 of HIV from Factor concentrates, we tried to use home
 7 grown product wherever we could and to limit the
 8 concentrate to severe Haemophilia A patients or
 9 patients with moderate Haemophilia A suffering from
 10 severe bleeds. In those patients to not treat would
 11 be unacceptable, and potentially fatal.
 12 "We did at the Plymouth Haematology Department
 13 continue to use Factor concentrates to treat patients
 14 after we became aware of the possible risks of
 15 infection but only where absolutely necessary.
 16 "I am afraid I do not recall when Plymouth
 17 Haematology Department began to use heat treated
 18 Factor products and I cannot recall where we started
 19 in terms of the categories of patients. We did use it
 20 as soon as it was available."
 21 That was Dr Prentice's recollection.
 22 If we turn to look at the annual returns and see
 23 what products were used, picking it up in '76, so
 24 a number of years before Dr Prentice arrived, the
 25 numbers of patients treated varied from between eight

107

1 products.
 2 "48. I cannot recall any specific enquiries
 3 carried out by me or within the Plymouth Haematology
 4 Department in relation to the risks of transmission of
 5 HIV or AIDS. Patients were seen frequently to discuss
 6 all aspects of their care and it is likely that these
 7 discussions would have included the risks of viral
 8 infection through the use of blood products but
 9 I cannot recall any such specific discussions."
 10 If we pick matters up then at the bottom of that
 11 page, at paragraph 51, this is a reference to the
 12 June 1983 letter from Professor Bloom and Dr Rizza,
 13 which Dr Prentice was asked about:
 14 "I do not recall whether or how I responded to
 15 the letter from Professor Bloom and Dr Rizza ... as
 16 I do not actually remember getting the letter. At
 17 that point I was still trying to get homegrown product
 18 and I suspect I was sceptical about the content of the
 19 letter."
 20 Then he says, paragraph 52:
 21 "I was sceptical about their comments on
 22 Hepatitis. One of my colleagues had been sprayed by
 23 plasma from a Hepatitis B positive patient and became
 24 very sick with Hepatitis B. He survived it and
 25 fortunately cleared the virus.

106

1 and 18 haemophilia A patients over the following
 2 years, one to five haemophilia B patients and up to
 3 three von Willebrand's patients.
 4 The 1976 return for Plymouth is at HCDO0001109.
 5 We can see 11 patients treated, one patient with
 6 Factor VIII antibodies, two haemophilia B patients
 7 treated. Then in terms of products used, we can see
 8 that from 1976 the main treatment was with
 9 cryoprecipitate, 140,980 units; the second main
 10 treatment, in terms of volume, is the Hyland product
 11 Hemofil, 67,440 units; and then the NHS concentrate,
 12 14,000 units; with a very small amount of Kryobulin,
 13 the Immuno product.
 14 **SIR BRIAN LANGSTAFF:** The conversion rate there from
 15 cryoprecipitate to units is double that normally used.
 16 **MS RICHARDS:** Yes. Whether that reflects something
 17 particular to the way in which cryoprecipitate was
 18 supplied by Bristol, I'm afraid I don't know. It may
 19 be that we will be able to pin that down.
 20 **SIR BRIAN LANGSTAFF:** Yes.
 21 **MS RICHARDS:** If we go then to 1977, HCDO0001195, page 4.
 22 We can see again, in terms of the product usage, it's
 23 still mainly cryoprecipitate, 121,500, but with a --
 24 closely followed by Hemofil, at just under 119,000,
 25 and then NHS concentrate, 46,000.

108

1 If we then turn to 1978, HCDO0001292, and again,
 2 just to get a favour of the size of the centre, we've
 3 got nine haemophilic patients identified as treated,
 4 one with Factor VIII antibodies and then four
 5 haemophilia B patients. We can see here that the main
 6 treatment used is NHS concentrate, 164,060 units;
 7 that's double the amount used, roughly, for
 8 cryoprecipitate, 82,000; and then a very similar
 9 amount being used of the commercial concentrate
 10 Hemofil, 82,200.

11 1979, HCDO0001362, shows a drop in the use of
 12 cryoprecipitate. So it's gone from 82,000 to 56,000,
 13 nonetheless still in reasonably substantial use. The
 14 main product used is still the NHS factor concentrate,
 15 that's increased to 194,000. Then there's a slight
 16 increase in the volume of Hemofil, from 82,200 the
 17 previous year, to a little over 87,000.

18 I'll give you the reference, sir, for the 1980
 19 return, but the figures are unclear, so I won't put it
 20 on screen. The reference is HCDO0001560. We can see
 21 the treatment is cryoprecipitate, NHS concentrate and
 22 Hemofil but the precise amounts are unclear.

23 If we then go to 1981, HCDO000 -- in fact,
 24 I think I've just given you the reference for 1981.

25 The reference for 1980 for the transcript is

109

1 So that's 19 -- if we go back to the top of the
 2 page -- that's 1981. We can see nine patients then
 3 being treated.

4 If we go to 1982, HCDO0001755, please. In fact,
 5 if we look at the top of the page, I'm not sure
 6 whether this is '82 or '83. It looks like it's '83,
 7 although there seems to be a scrawl over it. In any
 8 event, we can pick up the picture as at 1983, if
 9 that's the correct year, which I'll check.

10 We can see again, in any event, no
 11 cryoprecipitate whatsoever used for the treatment of
 12 haemophilia A patients. We don't even have the number
 13 of patients treated during that year completed on this
 14 form. Then we can see NHS concentrate used to
 15 a considerable extent: 104,500 units in hospital;
 16 373,750 units for home treatment. The next largest in
 17 terms of volume is the use of Hemofil: it looks like
 18 15,500 units in hospital, and then I think it's 38,000
 19 or so, 152 bottles, in any event, used for home
 20 treatment. Then a small amount of the Armour product,
 21 Factorate.

22 Then if we go, then, to 1984, HCDO -- no, I'm
 23 sorry 0001944 is the reference I've got but I think
 24 that's for 1985, so I think we have some returns
 25 potentially missing here. Yes, this is 1985. We've

111

1 HCDO0001460, I think. I'll check that, sir.

2 In any event, if we go to 1981, HCDO0001560.

3 What we see here in 1981 is, in relation to the
 4 treatment of patients with haemophilia A, no
 5 cryoprecipitate whatsoever used. So cryoprecipitate
 6 is reserved in that year for the treatment of patients
 7 with von Willebrand's. Then we can see the only
 8 product in substantial use for haemophilia A patients
 9 is the NHS concentrate in that year. The figures for
 10 units are indistinct but we can see the figures from
 11 the bottles, in any event, 217 in hospital, 792 for
 12 home treatment.

13 For some reason it's unclear, towards the bottom
 14 of the table there's a suggestion of 354 units for
 15 Hemofil, filled in against the entry for "Other human
 16 Factor VIII [Concentrate]", rather than against the
 17 entry for Hemofil. I'm not quite sure why that's the
 18 case. So we see predominantly NHS concentrate, then
 19 Hemofil, but the feature for that year is no
 20 cryoprecipitate at all.

21 I think when we were looking at the 1978 returns
 22 I read a "4" as a -- a "1" as a "4", in relation to
 23 haemophilia B patients, for the benefit of the
 24 transcript it should be one haemophilia B patient in
 25 1978, not four.

110

1 got nine patients treated for haemophilia A. Again,
 2 no cryoprecipitate in use, other than for
 3 von Willebrand's patients. Then we've got NHS
 4 concentrate being used, and then now the Armour
 5 Factorate product. What this doesn't, I think, tell
 6 us, as a return, is the extent to which that's
 7 unheated or heat-treated material.

8 Can we try, Soumik, HCDO0001849. No? We don't
 9 have that? I don't think we have the 1984 return to
 10 display but, in any event, I can come back to that
 11 tomorrow if need be.

12 So that's the pattern, sir, in relation to usage
 13 in Plymouth. We see the dropping off of
 14 cryoprecipitate over the latter part of the 1970s and
 15 the increased use of NHS concentrates, and then
 16 substantial use of usually a single commercial
 17 concentrate, Hemofil.

18 If I deal, then, with questions of hepatitis C
 19 infection, and if we look at TSFT0000002_025, you'll
 20 recall Dr Prentice from his statement was unclear to
 21 as his knowledge, developing knowledge, of risk in
 22 relation to non-A, non-B hepatitis. There's little by
 23 way of contemporaneous documentation to assist us with
 24 the understanding of his predecessors.

25 Sir, again it may be a question of what

112

1 inferences can be drawn from available medical
2 literature in UKHCDO minutes.

3 This gives us some information, rather later in
4 the time period, about hepatitis C and the way in
5 which hepatitis C was now being managed by the
6 mid-1990s in Plymouth. So this is a letter from
7 a consultant haematologist, Dr Copplestone,
8 8 July 1996.

9 "I enclose the Hepatitis C audit sheets ...

10 "It has been a useful activity getting out these
11 patients. There is a little uncertainty about the
12 original number of patients who have received
13 concentrate factor and it may be more than 16. I am
14 trying to sort out our Oxford Haemophilia database ...

15 "Our basic policy is to manage these patients in
16 collaboration with Dr Steven Wilkinson, our
17 Hepatologist. His policy so far has been to monitor
18 the liver function tests and asked me to arrange PCR
19 tests which have been performed at Edinburgh. Many of
20 the patients are currently being reviewed by him in
21 the light of the results to make a decision about
22 alpha interferon treatment."

23 Then the next paragraph says:

24 "I have also been sent an Alpha Interferon and
25 Ribavirin trial to consider. There are only a few

113

1 patients that would be eligible here because of the
2 age criteria ..."

3 We don't, I'm afraid, have a copy of the audit
4 sheets themselves to fill in the detail, but that
5 gives us some indication as to how, later on, those
6 who had been infected with hepatitis C were being
7 monitored and managed in Plymouth.

8 In terms of information from individual patients
9 or their families, you have received evidence, sir, of
10 a patient being tested for hepatitis C without their
11 knowledge, and being notified of their hepatitis C
12 infection in 1994, despite the fact that the test was
13 undertaken in 1992. So, again, a picture of delay in
14 patients being told diagnosis, which you heard of in
15 relation to other centres as well.

16 In relation to HIV, again, there's little by way
17 of contemporaneous documentation. So other than
18 Dr Prentice's recollection in his statement, the
19 information we have about the numbers infected from
20 UKHCDO suggested six patients with HIV.

21 If we just look, perhaps, at INQY0000250, if we
22 go to the next page, we can see Plymouth is centre 15.
23 It's halfway down the page, and this table which, as
24 I explained earlier, has been compiled from data
25 provided by UKHCDO, indicates -- sorry, can we see the

114

1 whole page, Soumik, because we need to see the
2 dates -- thank you.

3 So in relation to Plymouth we've got one patient
4 identified in 1984, four in 1985, and one in 1988,
5 giving a total of six.

6 Dr Prentice's recollection in his statement was
7 that he told people of their diagnosis with HIV
8 face-to-face. The last document we have in relation
9 to information about HIV concerns a patient found to
10 be HIV positive in 1988, and I'll just show you that
11 for the sake of completeness. CBLA0002420.

12 Sir, this is a letter sent again by
13 Dr Copplestone, consultant haematologist in Plymouth,
14 to Dr Rizza at Oxford, September 1988. It says in the
15 second paragraph:

16 "As I mentioned we had one further patient who
17 has been found to be HIV antibody positive on
18 19th May 1988. It was thought that he was tested in
19 1985 and was HIV antibody [and then there's a word
20 missing, but the sense of the letter would suggest
21 that the missing word is 'negative'] at this time, but
22 I cannot find any report in his notes or in the
23 Microbiology Lab relating to this test. Since 1985 he
24 has had the following blood products ..."

25 Then we see a list of Armour products and

115

1 NHS products and the dates of treatment. We have no
2 more information about this particular patient, but an
3 inference may be, given the dates, that this was
4 a case of --

5 **SIR BRIAN LANGSTAFF:** Can we just go back to the top of
6 this letter? There is a year of birth.

7 **MS RICHARDS:** The --

8 **SIR BRIAN LANGSTAFF:** Or that's somebody else?

9 **MS RICHARDS:** That's a different patient, yes.

10 **SIR BRIAN LANGSTAFF:** That's a different patient. Right,
11 got it. Thank you.

12 **MS RICHARDS:** Yes, so the first paragraph is dealing with
13 somebody else. The second paragraph is dealing with
14 this discovery of a patient being HIV positive in
15 1988. And one inference you might draw is this is
16 a case of infection through the Armour heated product.

17 **SIR BRIAN LANGSTAFF:** Yes.

18 **MS RICHARDS:** That's a possibility. I haven't double
19 checked anything in relation to the batch numbers but
20 we know, of course, that some heated Factor VIII
21 products nonetheless led to seroconversions.

22 **SIR BRIAN LANGSTAFF:** Yes, of course, the early product,
23 in early in 1985, might not have been --

24 **MS RICHARDS:** It might not have been heated, no,
25 heat-treated.

116

1 And certainly in relation to the NHS product,
2 treatment in January 1985 may be unlikely to have been
3 heat-treated.

4 **SIR BRIAN LANGSTAFF:** One would expect the difficulty is
5 knowing whether or not the Armour heat-treated product
6 was available.

7 **MS RICHARDS:** Yes.

8 Sir, that's the position in relation to
9 Plymouth. Before I then turn to the next south-west
10 England centre can I then go back to the issue in
11 relation to Lewisham, thank you, Soumik. This is
12 a document from September 1970, I'm grateful to the
13 representatives of The Haemophilia Society for drawing
14 this to our attention. For the transcript, it's
15 HSOC0022739. If we can turn to page 5., it's just
16 further information about the use of cryoprecipitate
17 for home treatment in Lewisham. If we pick it up in
18 the second paragraph, we can see this is concerning
19 the Lewisham Group, and then it says this:

20 "The value to a severe haemophiliac of
21 a deep-freeze, provided there is a sufficient supply
22 of cryoprecipitate available for storage, has been
23 highlighted in the case of that supplied by the Group
24 to one of our young members. In addition to having
25 already saved this patient a considerable number of

117

1 out. That adds to the picture of use of
2 cryoprecipitate and home treatment at Lewisham, as
3 early, there, as 1970.

4 Turning, then, to Exeter. Exeter was centre
5 number 14, based at the Royal Devon and Exeter
6 Hospital. Dr Edgcumbe was the centre director until
7 1985. His successor, Dr Lee, describes Dr Edgcumbe as
8 a laboratory haematologist, one of the last in his
9 era. Dr Lee took over in February 1985, and remained
10 Centre Director and consultant haematologist until
11 June 2010, and we have a witness statement from
12 Dr Lee. The reference -- we don't need to display it
13 at the moment -- is WITN4408007.

14 Exeter also received its supplies from the
15 South-West Regional Transfusion Centre in Bristol,
16 although there are some documents which show some
17 individual arrangements for the receipt of supplies
18 from Oxford.

19 In terms of facilities, Dr Lee's recollection is
20 that when he took up his post in early 1985, patients
21 with bleeding disorders were scattered throughout the
22 hospital in various medical wards. He describes
23 children with haemophilia being managed in
24 paediatrics, with Dr Edgcumbe advising on treatment
25 products and on testing. He goes on to explain how he

119

1 journeys to hospital for treatment, it recently
2 enabled him to return home the same day after dental
3 extraction, instead of having to occupy a hospital bed
4 for 10 to 14 days, as is often usual in such
5 circumstances. In this case he was simply supplied
6 with sufficient cryoprecipitate to store at home, and
7 his own [GP] with the treatment at hand, was able
8 quite adequately and successfully to take over the
9 care of the patient during the post extraction period.

10 "Another important benefit reported is that
11 during the three months the deep-freeze has made
12 possible treatment for his bleeds at home, it has also
13 given the patient the advantage of an additional three
14 weeks attendance at school, as compared with the
15 previous three months. This represents a very
16 valuable and significant increase of no less than 25%
17 to his schooling.

18 "The deep-freeze was supplied to the member with
19 the co-operation with one of the most active
20 Haemophilia Centres in the [UK], Lewisham Hospital."

21 Then there's an extract from a letter written by
22 Dr Whitmore at the Lewisham Hospital. It's not
23 dealing specifically with the question of home
24 treatment, it's dealing with the importance of trying
25 to avoid bleeds, so I'm not proposing to read that

118

1 and a colleague, Dr Joyner, established a dedicated
2 haematology ward for the treatment of patients with
3 haemophilia as well as patients with other blood
4 disorders.

5 If we then look at some documents from the early
6 1970s, in relation to treatment preferences, if we
7 start with BPLL0008111.

8 This was the response from Dr Maycock's
9 questionnaire and the response from Dr Edgcumbe of the
10 Exeter centre is at page 10. We can see he records
11 regular treatment of 23 patients with haemophilia and
12 then, in terms of his preference for products, he
13 answers yes to question (2)(b), so his preference is
14 for the use of freeze-dried concentrate in the
15 treatment of his patients.

16 If we go then next to OXUH0000642, we will see
17 what obviously a response to a letter from
18 Dr Edgcumbe, from Dr Maycock, at Elstree. It's
19 June 1974. He says in the second paragraph:

20 "Home treatment presents many problems mainly
21 for the reason that we cannot at present make anything
22 like enough concentrate to meet all needs. To provide
23 it for home treatment therefore always entails most
24 difficult decisions and, so far, [BPL] has not
25 specifically issued any concentrate for use in this

120

1 way. The policy has been to retain the concentrate at
 2 BPL and to issue it for use in those major elective
 3 operations and in emergencies for which
 4 cryoprecipitate is inadequate. All the concentrate we
 5 prepare is used in this manner.

6 "I know you will appreciate the difficulty in
 7 which I find myself. If I send you concentrate for
 8 the two families, I shall soon receive similar
 9 requests from many other quarters, which I will not be
 10 able to meet and the supply of concentrates for
 11 emergencies and operations will be jeopardised.

12 "I would therefore prefer not to issue
 13 concentrate."

14 I think we can infer from this that Dr Edgcumbe
 15 had written to Dr Maycock asking if he could have
 16 a supply of concentrate to establish a home treatment
 17 programme for two families, and that's the response he
 18 got.

19 We do see from later documents that, in 1976,
 20 there's a patient from Exeter on a regular home
 21 treatment therapy. And we have also got witness
 22 evidence describing home treatment through the Exeter
 23 centre from individuals.

24 In terms of the numbers of patients treated at
 25 the centre, they vary, according to the annual returns

121

1 commercial concentrates.

2 That, I think, is then the pattern largely
 3 established. If we look at HCDO0001256, for example,
 4 which is 1978, we can see no cryoprecipitate. The
 5 major product used, NHS concentrates, just over
 6 100,000. But roughly 90,000 of commercial
 7 concentrates, most of which is Kryobulin, with
 8 12,000-odd units of Hemofil.

9 When we get to 1979, HCDO0001323, we'll see the
 10 dominant product is commercial. So Kryobulin, nearly
 11 210,000 units, compared with 153,820 units of NHS
 12 concentrates, and then just over 10,000 units of
 13 Hemofil, and still cryoprecipitate not in apparent use
 14 at all.

15 And then, if we move to HCDO0001420, this is
 16 1980. Again, no cryoprecipitate. Not even, in fact,
 17 for the treatment of patients with von Willebrand's.
 18 They were treated with NHS concentrate and with
 19 Hemofil and Kryobulin. For the haemophilia A
 20 patients, by far and away the main treatment is with
 21 the Immuno product, with Kryobulin. So 106,500 or so
 22 units in hospital, nearly the -- well, 237,407 units
 23 home treatment. Contrasting with NHS concentrates:
 24 55,000-plus hospital, and just over 49,000 home
 25 treatment. Then Hemofil in third place, as it were,

123

1 from '76 onwards, to between 17 and 25 haemophilia A
 2 patients.

3 If we start by looking at the 1976 forms,
 4 HCDO0000041_002, page 4, we can see 19 patients with
 5 haemophilia treated in the year. Not quite sure what
 6 the figure was for haemophilia B but we can see, in
 7 any event, all haemophilia B treatment is with NHS
 8 Factor IX concentrate.

9 In terms of haemophilia A, we see
 10 cryoprecipitate used, 58,000 plus. But the main
 11 treatment being used there is Kryobulin, so commercial
 12 concentrate as early as 1976 was the predominant
 13 treatment, followed by cryoprecipitate and then
 14 Hemofil. No NHS concentrates at all used in the
 15 course of 1976.

16 1977, however, shows a different picture.
 17 HCDO0001158. We can see a small amount of
 18 cryoprecipitate in use. So a very significant decline
 19 in the use of cryoprecipitate, down to 5,700. But
 20 NHS concentrates available, and the largest single
 21 form of therapeutic material used, so 82,130. But
 22 also a substantial quantity of Kryobulin, 51,500
 23 approximately, and just over 38,000 units of Hemofil.

24 So the treatment seems to have shifted to being
 25 concentrate-based, essentially split between NHS and

122

1 with approximately 47,000 units used.

2 1981, then -- HCDO0003518 -- shows
 3 proportionately an increase in the amount of NHS
 4 concentrate used.

5 Sir, again, no cryoprecipitate at all. Whether
 6 for haemophilia A patients or von Willebrand's
 7 patients.

8 There seems to be, if we just stick with
 9 von Willebrand's for present purposes, a substantial
 10 volume of Hemofil used for the home treatment of
 11 von Willebrand's patients, 85,000 units there
 12 recorded. In terms of treatment of haemophilia A
 13 patients, the product most in use is the NHS
 14 concentrate, over 200,000 units in total, followed by
 15 Hemofil, 82,500 approximately, home and hospital, and
 16 then Kryobulin, a little over 55,000 for home
 17 treatment and just under 2,000 for hospital treatment.

18 Then if we look at HCDO0001619, this now is
 19 1982. We can see there, again, no cryoprecipitate at
 20 all. NHS concentrate is the main product used, but
 21 a substantial volume of Hemofil also in use, and then
 22 a smaller volume of Kryobulin.

23 When we move to 1983, HCDO0001716, we'll see
 24 a third commercial concentrate being introduced. So
 25 we now have Factorate used to a very substantial

124

1 extent indeed, so it's the main product used, 74,645
2 units in hospital, 326,745 units for home treatment.
3 So that's the main product. Then NHS concentrates, we
4 see the figures there in relation to home treatment,
5 317,000 plus. Then smaller volumes of both Hemofil
6 and Kryobulin in use.

7 Then lastly 1984, HCDO0001811. We'll see from
8 that that the Factorate product, the Armour product,
9 is still the product in greatest use overall: 68,235
10 hospital, 264,225 units home; followed by NHS
11 concentrates, which are used again to a substantial
12 extent; and then a very small use of Kryobulin.

13 That's what we see from the annual returns.

14 Dr Lee said in his statement that he took
15 a decision soon after commencing in post in
16 February 1985 to use heat-treated products, reflecting
17 the advice that had been given by Reference Centre
18 Directors at their meeting in December 1974. I don't
19 need to take you to it, but we can see that in
20 February 1985, soon after taking up his post, he wrote
21 to Dr Snape asking for supplies of heat-treated
22 concentrates.

23 In relation to the question of product choice
24 and the provision of information to patients, Dr Lee
25 could obviously really only speak to the period after

125

1 he began at the centre. But he says this in his
2 statement:

3 "On the whole, patients were not offered
4 a choice because supplies could not be guaranteed.
5 They were informed of the risks and benefits and
6 generally accepted what was available."

7 He also says it was his practice to be open and
8 provide as much information as patients wished. He
9 says he would have explained that NHS products and
10 heat-treated concentrates were probably safer than
11 commercial or non-heat treated concentrates, and that
12 there were alternatives that could be considered in
13 some but not all circumstances, such as
14 cryoprecipitate and DDAVP.

15 As I say, that, of course, relates to the period
16 when he took up his post, which is early 1985 onwards.

17 In terms then of knowledge of risk, Dr Edgcumbe,
18 I think, was an occasional attendee at Haemophilia
19 Centre Director meetings, and there is correspondence
20 showing, for example, the submission of forms to
21 Oxford in relation to the hepatitis surveys that we
22 know were undertaken on an ongoing basis.

23 Dr Edgcumbe specifically attended the
24 September 1982 Haemophilia Centre Directors meeting at
25 which we know the question of AIDS was first

126

1 discussed.

2 If we then look at NHBT0098756_019, you'll see
3 a letter from Dr Edgcumbe to the Bristol Regional
4 Transfusion Centre, it's dated 10 November 1983. We
5 don't need to look at the first three paragraphs but
6 if we look at the fourth, it says this:

7 "At the Meeting of Haemophilia Centre Directors
8 on October 17th, Geoffrey Scott said that the
9 haemophiliacs of Bristol were now refusing to make any
10 use of American Factor VIII concentrate and I wondered
11 where this left the rest of the Region. Can you get
12 enough Lister supplies for all our needs? If not, it
13 seems rather unfair that one Centre can hand it out
14 and another not."

15 So we can see from this that Dr Edgcumbe was
16 present at the meeting in October 1983 of the
17 Haemophilia Centre Directors and heard what was being
18 said by Dr Scott, who, you'll recall, was a Centre
19 Director in Bristol.

20 The response to this letter is at
21 NHBT0098756_017. Dr Fraser wrote on 17 November 1983,
22 and the relevant part of his response starts at the
23 bottom of the second page. Under the heading "Factor
24 VIII", Dr Fraser says this:

25 "I spoke to Dr Scott today regarding your letter

127

1 and he confirms that some of his patients are refusing
2 American factor VIII. He is stopping all planned
3 surgery for his patients for the time being. Dr Scott
4 has not asked for, and we have not given him,
5 an increased allocation of BPL factor VIII so that his
6 patients can only be treated with this product. We
7 are not giving any preferential treatment, with regard
8 to BPL factor VIII supply, to any Centre in the South
9 West Region."

10 At the top of the next page:

11 "We cannot attain self-sufficiency for the BPL
12 factor VIII to supply the total requirements of all
13 haemophilia treatment centres in this region until we
14 send sufficient fresh plasma to the Blood Products
15 Laboratory for fractionation. I am attempting to send
16 as much as possible in 1983 ..."

17 Then he goes on to talk about ways in which he
18 is attempting to achieve that.

19 Dr Lee has, in his statement, set out his
20 understanding of the knowledge of HIV. He talks about
21 being aware of HIV and AIDS as a risk of blood
22 transfusions when the first reports of the disease in
23 haemophiliacs in the USA were published, he thinks in
24 around 1983 or 1984. Then he sets out his belief that
25 Dr Edgcumbe made patients aware of the dilemma of

128

1 either using concentrates that might expose them to a
2 risk of infection or having to use "less effective"
3 alternatives. The description "less effective" comes
4 from Dr Lee's statement, rather than being my own
5 description.

6 If we then look at what Dr Lee recalls about how
7 patients were told about their HIV diagnosis, if we
8 can have his statement on screen, please, Soumik, it's
9 WITN4408007, and it's paragraph 28, which is page 13.
10 If we pick it up in the second line, he says:

11 "My memory of the steps I took at Exeter are
12 clearer. On the first day in my post I was confronted
13 with a file on the desk marked 'high priority' left by
14 Dr Edgcumbe with a note that the enclosed results of
15 HIV tests from about 12 or 14 haemophilia patients
16 needed urgent attention. The results of these tests
17 done in the previous weeks had just returned in the
18 days before his retirement and he felt it would be
19 more appropriate for me to deal with them. It was
20 a baptism of fire that still haunts me today.
21 I contacted the patients and saw them individually in
22 clinic. I introduced myself as the new consultant and
23 gently broke the news of their blood test results.
24 Initial reactions varied from shock and silence to
25 anger and hostility."

129

1 management from haematology, depending on the nature
2 of the presenting complaint.

3 In terms of hepatitis C, Dr Lee's recollection
4 was that the monitoring of liver function as an
5 indicator of non-A, non-B hepatitis was in place when
6 he came to the Exeter centre in 1985. He recalls
7 testing for hepatitis C beginning in the early 1990s
8 when a test became available. Dr Lee's recollection
9 was two or three patients being infected with
10 hepatitis C, but that was a recollection, I think,
11 only. There is no documentation that provides any
12 further light on that. His recollection too was that
13 liver specialist care wasn't available until around
14 2000.

15 Sir, I am then going to come to Taunton and
16 Yeovil. So the centre at Taunton and Yeovil provided
17 care from Musgrove Park Hospital's clinical pathology
18 department in Taunton, but with some haemophiliac
19 patients also being seen at the clinical pathology
20 department in Yeovil. And it was identified formally
21 as a centre in 1976.

22 Care of haemophilia seems to have been shared
23 between Dr Johnson and Dr Phillips. Dr Phillips'
24 appears on the 1976 returns onwards and he is noted as
25 attending the UKHCDO meeting in 1977.

131

1 Then his recollection was that none elected to
2 revert to cryoprecipitate, particularly those on home
3 treatment, but then he goes on to say that, by
4 February 1985, which was when he took up his post,
5 heat-treated NHS Factor VIII was just being
6 introduced.

7 You do have an account, sir, I'll just give you
8 the witness reference, rather than go to the statement
9 itself, but from a witness whose husband was informed
10 of his HTLV-III infection at the Exeter Centre in
11 1985, at WITN1589001. We don't need to go to it, but
12 she recalls her husband being told he might have two
13 or three years left to live, and her recollection that
14 no real information or advice was provided to them
15 regarding the infection or how to manage it, or risks,
16 other than the wearing of condoms.

17 Dr Lee, in his statement, explains that there
18 were no dedicated support services available within
19 the hospital and such services as were available, he
20 says, were overstretched and waiting times were very
21 long.

22 He says in his statement that specialist HIV
23 care was not available in Exeter until around 2000
24 and, prior to that, patients would be seen by a
25 general physician or respiratory physician with

130

1 Then Dr Simon Davies became the Centre Director
2 in 1995, retired at the beginning of this year, and he
3 has provided a statement to the Inquiry dealing with
4 that latter period. I am not proposing to take you to
5 it now, but it's WITN5590001.

6 There is also reference within the materials,
7 and indeed Dr Davies' statement, to the work of
8 Dr Elizabeth Thompson at the centre. Dr Davies says
9 she effectively ran the day-to-day haemophilia centre,
10 and saw most of the outpatients with bleeding
11 disorders, including, at that stage, a significant
12 number of children. And indeed, she is listed,
13 I think, as a director on some annual returns in 1987
14 or so onwards.

15 We have an account of haemophilia care in
16 Taunton at TSFT0000002_002. This is in 1987, and it's
17 Dr Phillips, consultant haematologist at Taunton,
18 writing to Dr Lee, the consultant at Exeter, whose
19 evidence I referred to only a few minutes ago. This
20 was on an issue about the reorganisation of
21 haemophilia care in the UK and in particular in the
22 south-west.

23 I am just going to show you a little in the
24 second paragraph which provides some background and
25 context in relation to the work of the centre in

132

1 Taunton.
 2 So -- if we can just go slightly further up the
 3 page, please, Soumik -- picking it up in the second
 4 sentence at the second paragraph:
 5 "As I know you are of the same mind, I find it
 6 extremely galling even to consider a change in
 7 direction, especially in view of the fact that we
 8 here, and I include Steve Johnson and Elizabeth
 9 Thompson, have worked extremely hard to build up
 10 a flourishing coagulation unit. Judged by the
 11 criteria which you mention, it may well be that we
 12 would lose our recognition as a centre because we only
 13 have 8 haemophiliacs who require regular treatment or
 14 who are indulging in home treatment. Occasionally one
 15 would reach the 10 mark by visitors either from
 16 overseas or who are attending Minehead holiday camps
 17 because I believe that the Haemophilia Association
 18 does arrange bookings there."
 19 Then he goes on to deal with von Willebrand's,
 20 and patients -- having three Factor VIII inhibitor
 21 cases. Then if we go to the next paragraph, second
 22 sentence:
 23 "At the moment, I do get a special budget
 24 allowance and indeed, our staff nurse was appointed to
 25 help with the coagulation clinic work. I am sure that

133

1 care were delivered by an associate specialist in
 2 haematology, Dr Elizabeth Thompson. Approximately 50%
 3 of her role was dedicated to haemophilia and related
 4 bleeding disorders."
 5 Then he refers to there being a weekly clinic
 6 and an experienced nursing sister who also ran the
 7 haematology daycare unit, and evidence of excellent
 8 collaboration with specialist medical colleagues and
 9 paediatrics, orthopaedics, gastroenterology, HIV
 10 medicine, et cetera.
 11 But again, that's the picture from the 1990s
 12 onwards.
 13 In terms of the numbers of patients treated,
 14 they're relatively small. So the annual return in
 15 1976 records five haemophilia A patients, one
 16 haemophilia B, and one patient with von Willebrand's
 17 disease.
 18 The only treatment given in 1976 was
 19 cryoprecipitate, and then Factor IX for the
 20 haemophilia B patient.
 21 If we then pick it up in 1977 at HCDO0001210,
 22 page 3, we can get a sense of the size of the centre
 23 there: nine patients treated during that year and then
 24 two haemophilia B patients.
 25 Then in terms of the products used,

135

1 in the present financial climate, it would be only too
 2 easy for management to remove such support if we were
 3 no longer recognised as a centre, but at the same
 4 time, of course, the patients would be there.
 5 I cannot see where my patients would go if they did
 6 not come here, especially in view of distances
 7 involved. As you know, Somerset is a very rural
 8 county and some patients have to come some 40 miles to
 9 their treatment. To add another 40 miles to Exeter or
 10 52 miles to Bristol would be, I feel, untenable."
 11 Then at the bottom of the page he says he
 12 believes that the Taunton centre does what it's
 13 supposed to. And says this -- at the very bottom of
 14 the page, please Soumik -- we can pick it up at the
 15 top of the next page, my apologies. He says:
 16 "There is, like Exeter, always a consultant on
 17 call, and usually all emergency admission for
 18 coagulation disorders are seen by a consultant."
 19 So that gives us a flavour, sir, of the size of
 20 the Taunton centre in the eighties and of its
 21 facilities in terms of both consultant and nursing
 22 staff.
 23 And Dr Davies describes the care provided at the
 24 centre upon his arrival in 1995 as follows. He says:
 25 "Most of the medical elements of haemophilia

134

1 cryoprecipitate is the product in greatest use,
 2 42,200 units, followed by NHS concentrate, 21,400, and
 3 then a single commercial concentrate, Hemofil, at just
 4 under 15,000 units in use.
 5 We don't have the annual return for 1978.
 6 1979 shows a change in terms of both use of
 7 commercial concentrate and cessation of use of
 8 cryoprecipitate.
 9 If we go to HCDO0001378, we'll see no
 10 cryoprecipitate at all, in relation to haemophilia A.
 11 And then the main product in use is the commercial
 12 concentrate from Hyland, the Hemofil product: 142,542.
 13 And then broadly similar amounts of NHS concentrates,
 14 just over 31,000, and Koate, the Cutter's product,
 15 just over 33,000 in use, with a tiny amount of
 16 Kryobulin used.
 17 So commercial concentrates dominating in 1979.
 18 The picture in 1980 is similar, HCDO0001476. No
 19 cryoprecipitate again, the product in greatest use
 20 being Hemofil, and then smaller amounts of NHS
 21 concentrate of Koate and of Kryobulin, in use --
 22 sorry, that's for home treatment. I should say, in
 23 relation to hospital treatment, the figure in relation
 24 to NHS concentrate: 19,428, so that takes it up
 25 slightly.

136

1 Still, the overwhelming picture is Hemofil being
2 the main product in use, both for the purposes of
3 hospital treatment and for the purposes of home
4 treatment.

5 The following year, HCDO0001580, is 1981.
6 Again, no cryoprecipitate in use at all, except for
7 von Willebrand's patients. The picture here is
8 slightly different, in the sense that there is
9 a greater use of NHS concentrates, just under 140,000
10 in hospital, and just over 99,000 for home treatment.
11 So that's now the main treatment in use, followed by
12 Hemofil, used to a very similar extent for home
13 treatment, and then just under 70,000 units used for
14 hospital treatment, and then we can see Factorate
15 being used again to a fairly considerable extent, and
16 then small volumes of Koate and Kryobulin.

17 HCDO0001675 gives us the picture for 1982.
18 Again, cryoprecipitate is only in use for
19 von Willebrand's patients. The product in greatest
20 use is the NHS concentrate, both hospital and home,
21 followed now by Koate, and then a smaller volume of
22 Factorate being used, and a much smaller volume of
23 Kryobulin being used.

24 Two final returns. If we look at the return
25 for 1983, which is HCDO0001772, we can see that for

137

1 haemophilia A patients only two products in use,
2 NHS concentrate and Koate. The product in greatest
3 use now by quite a considerable margin are NHS
4 concentrates, but Koate is still being used very
5 substantially in particular for home treatment.
6 Cryoprecipitate features only for the treatment of
7 patients with von Willebrand's.

8 Then, finally, in terms of the returns for
9 Taunton, 1984, HCDO0001865. A tiny amount of
10 cryoprecipitate identified for use in hospital, and
11 then more widely for the treatment of the
12 von Willebrand's patients.

13 The main product in use is, again, NHS
14 concentrate. But we can see that Koate also being
15 used for home treatment to a very substantial extent:
16 227,000-odd units compared to NHS concentrate used for
17 home treatment, 248,500 units.

18 Sir, it will probably only take me five minutes
19 to complete Taunton, so --

20 **SIR BRIAN LANGSTAFF:** Yes, go ahead.

21 **MS RICHARDS:** -- if you're happy for me to do that, I'll
22 continue.

23 So that's product usage. There is no real
24 direct information about awareness of risk of viral
25 infection, whether hepatitis or HIV. There are some

138

1 communications in terms of completion of chronic
2 hepatitis survey submitted to Oxford and some
3 communications, for example, with Treloar's about
4 individual patients.

5 In terms of hepatitis C testing, there's some
6 evidence to suggest that the centre began testing in
7 the early 1990s. Dr Davies's statement explains that
8 by the time he joined the centre in 1995, a thorough
9 programme of testing had been instituted. He recalls
10 informing one patient of their diagnosis of
11 hepatitis C after he arrived.

12 In terms of HIV, HTLV-III, again, an absence of
13 contemporaneous documentation. Dr Thompson and
14 Dr Phillips, however, both attended the October '83
15 UKHCDO meeting, and again it may be reasonable to
16 assume they'd have received minutes of meetings in
17 earlier years. There is, if we look at
18 TREL0000276_140, evidence of Taunton being given
19 information about Treloar's AIDS-related
20 investigations.

21 So this is a letter, 28 June 1983, from
22 Dr Wassef at Treloar's to Dr Thompson, and if we go to
23 the bottom of the page, we can see there the reference
24 to "AIDS related investigations" and examination for
25 the "stigmata of AIDS", and we have seen those kind of

139

1 investigations in a number of Treloar's letters. Here
2 we can see a communication with Taunton in June 1983
3 about that issue.

4 In terms of how patients received their
5 diagnosis, nothing by way of contemporaneous material.
6 You do have an account, sir, from an individual who
7 describes receiving his diagnosis in April 1985. His
8 account is Dr Thompson told him that he'd been tested,
9 they'd:

10 "... found HTLV-III antibodies in my blood and
11 at that point I was the only one in Taunton Hospital
12 who had been infected. She said she did not know what
13 it meant and that it could be I was infected with the
14 AIDS virus, that I was immune to the AIDS virus, or
15 that nothing might happen."

16 In terms of figures, the data that we have from
17 UKHCDO, if we go to INQY0000250, please. We pick up
18 the entry for Taunton on page 2. Taunton is centre
19 16, and, if we read across, we see a figure of three
20 patients in 1985 testing positive for HIV. Then if we
21 go across, we see a further patient, it says "Missing
22 year", so they don't know what year that is, but
23 giving a total of four cases.

24 We also, if we go to TSFT0000001_030, this is in
25 relation to centre 16, so in relation to the Taunton

140

1 and Yeovil centre. The document is not dated, I'm
2 afraid. But we can see it seems to set out numbers of
3 HIV positive patients as at 1989 and 1990, so three
4 1989, two 1990. And then it gives figures for numbers
5 of HIV negative patients in the next column.

6 That, of course, doesn't necessarily reflect
7 patients infected through their treatment at the
8 centre. It may be patients who had moved and come
9 under the care of the centre.

10 So, sir, that's the material, again by way of
11 summary, in relation to the centre for Taunton and
12 Yeovil, and perhaps a convenient moment now to take
13 a break.

14 **SIR BRIAN LANGSTAFF:** Yes. Well, we'll take a break until
15 ten to four.

16 **MS RICHARDS:** Thank you.

17 (3.20 pm)

(A short break)

19 (3.50 pm)

20 **MS RICHARDS:** Sir, the next centre to consider is Bath.
21 Dr Holman was director of the centre at Bath which was
22 based at the Royal United Hospital in Bath from around
23 1977 to 1986, and then, in relation to the period from
24 1986, we see Dr Thomas and Dr Graham Smith's names on
25 the annual return for 1986 as co-directors, and then

141

1 Dr Smith as the sole director in the annual returns
2 from 1987 onwards.

3 Bath, in common with other centres in this
4 particular region was served by the South-West
5 Regional Transfusion Centre in Bristol.

6 If we pick up the available information with the
7 annual returns, starting with 1977, HCDO0001135, we
8 can see six patients treated during that year. The
9 treatment in greatest use was the Cutter's treatment,
10 so commercial concentrate Koate, just over 93,000. We
11 can see cryoprecipitate, however, was still in fairly
12 substantial use, 41,485. Then the product least used
13 was NHS concentrate, a little over 19,000.

14 When we get to the following year, it's
15 HCDO0001229. We can see there no cryoprecipitate used
16 at all. The main product in use there is Factorate,
17 the Armour product, a little over 32,000 units;
18 followed by NHS concentrate, a little over 23,000
19 units; and then a small amount of Hemofil used, 1,500
20 units.

21 Then if we go to 1979, HCDO0001298, page 2, we
22 can see a slight shift, again cryoprecipitate not in
23 use at all, but the product in greatest use in that
24 year is NHS concentrate, 41,500; followed then by
25 Hemofil, 13,500; and a very small amount of the Armour

142

1 product Factorate, just over 500 units.

2 There's a similar picture for 1980, HCDO0001392,
3 where we can see the product in greatest use there --
4 well, it's probably a close run thing in fact between
5 the NHS concentrate and Factorate but still no
6 cryoprecipitate for haemophilia A patients,
7 cryoprecipitate there reserved for the treatment of
8 von Willebrand's.

9 We've got just under 70,000 units of the
10 Factorate product used only in hospitals, so not there
11 used, it would seem, for home treatment. Then fairly
12 substantial uses of NHS concentrate, hospital and
13 home. Then a small amount of Kryobulin used, hospital
14 and for home treatment.

15 If we then move to HCDO0001491, we're here in
16 1981, the number of patients treated there is seven.
17 We can see there that the main product in use is NHS
18 concentrate. So totalling the amount used in hospital
19 and home, it's just under 90,000 units. Then
20 significantly more, therefore, than the commercial
21 concentrates in use, which are a little over 9,000 of
22 Armour product and then about 6,500 or so of the
23 Kryobulin in use.

24 HCDO0001594, gives us the picture for 1982. We
25 can see cryoprecipitate used only for von Willebrand's

143

1 patients and the overwhelming picture from that year
2 is the use of NHS concentrates, so 230,000-odd in
3 total hospital and home treatment, with the only
4 commercial product being used that year, Kryobulin,
5 around 10,500 units.

6 If we then go to 1983, HCDO0001690, we can see
7 again NHS concentrates are by far and away the main
8 product in use: 92,000 odd in hospital, 131,000 home
9 treatment. The only commercial product in use is
10 Kryobulin. In fact, I've misread the figure there,
11 sorry, sir, because there's an additional one. So
12 it's still NHS concentrates in greatest use, but
13 Kryobulin used to a fairly considerable extent, as
14 well, just under 65,000 hospital, and then a little
15 over 6,000 for home treatment.

16 A very small usage of cryoprecipitate for
17 haemophilia A patients, just 320 units, and then
18 a slightly greater use of cryoprecipitate for
19 von Willebrand's patients.

20 So that's 1983. If we go to 1984, HCDO0001787,
21 we can see that in 1984, cryoprecipitate features
22 again, much less than concentrate, but nonetheless
23 an increase on the previous year, 13,000 used in
24 hospital. In relation to concentrates, it's a fairly
25 similar amount used overall, as between NHS

144

1 concentrates and Kryobulin. So the NHS concentrate
2 is --

3 **SIR BRIAN LANGSTAFF:** It's --

4 **MS RICHARDS:** Sorry, again, I'm missing digits or reading
5 in extra digits. No, it's -- Kryobulin is the
6 81,000-odd, I think.

7 **SIR BRIAN LANGSTAFF:** Are we looking at the same page?

8 **MS RICHARDS:** Yes, we are but I'm misreading some of the
9 digits, sir. So if we look at the NHS concentrates,
10 that seems to be the product in greatest use by quite
11 a margin still.

12 **SIR BRIAN LANGSTAFF:** In home treatment?

13 **MS RICHARDS:** In home treatment 100,870, used to a lesser
14 extent in hospital, 7,390.

15 In relation to Kryobulin, used to a relatively
16 significant extent for home treatment, 71,745 so not
17 as much as NHS concentrates but still in substantial
18 usage.

19 **SIR BRIAN LANGSTAFF:** Yes.

20 **MS RICHARDS:** Then used a little more in the concentrates,
21 than the NHS concentrates for hospital treatment:
22 10,227.

23 **SIR BRIAN LANGSTAFF:** Yes, they're almost mirror images of
24 each other --

25 **MS RICHARDS:** They are.

145

1 **SIR BRIAN LANGSTAFF:** -- with the use in hospital being
2 a tenth of that in home.

3 **MS RICHARDS:** So that's the picture from 1984. We don't
4 have, I'm afraid, any other information that would
5 assist in casting any light on approach to treatment,
6 treatment policies, priorities, or whether particular
7 products were used for particular cohorts of patients.

8 In terms of knowledge of risk of hepatitis
9 or HIV, again, very little by way of contemporaneous
10 documentation. Dr Holman did attend a number of
11 UKHCDO meetings in his capacity as director. So he
12 was at UKHCDO meetings '79, '81 and '82, for example.
13 He was also at the meeting in October 1983, when we
14 heard the discussion of AIDS and the use of commercial
15 concentrates and the possibility of reversion to
16 cryoprecipitate. I don't think there are any
17 contributions from him according to many of the
18 minutes.

19 There's occasional documentation relating to
20 reporting of issues such as hepatitis.

21 Sir, we can see that at HCDO0000257_001.
22 Have you got that, Soumik? HCDO0000257_001.

23 Sir, this is a report being made to Miss Spooner
24 at Oxford as part of the ongoing hepatitis survey from
25 the Royal United Hospital in Bath. This is April of

146

1 1980. We can see there a description, "Jaundice
2 developed" -- that's a reference in April 1980. And
3 then various symptoms and signs set out, including
4 jaundice and anorexia, nausea, et cetera. And then
5 the present condition of the patient is described as
6 "Unwell but ambulant".

7 We don't, I'm afraid, have any information about
8 the numbers of patients who may have been infected
9 with hepatitis. There is some witness evidence
10 describing hepatitis C testing and diagnosis. One
11 witness has told the Inquiry of being informed of
12 their hepatitis C diagnosis in August 1991. He
13 explains that he was told that they'd suspected it
14 since 1988 due to liver function test results,
15 although he wasn't told the suspicion at the time.

16 In terms of the arrangements for the care and
17 treatment of patients found to be hepatitis C
18 positive, if we go to NHBT0075690, we can see there
19 a letter from Dr J Graham Smith, the consultant
20 haematologist at Bath, August 1991, to the Regional
21 Transfusion Centre. And he's asking for -- oh, he's
22 responding to a request for information about
23 a gastroenterologist or hepatologist who would be able
24 to undertake the clinical care of individuals found to
25 be hepatitis C antibody positive.

147

1 And the suggestion is made of Dr Davis at the
2 Royal United Hospital, and indeed Dr Davis confirmed
3 in October of 1991 that he would be happy to be
4 involved in the follow-up in relation to patients who
5 were hepatitis C positive.

6 Then in relation to HIV, the only information we
7 presently have is information from UKHCDO. If we go
8 to INQY0000250. Go to the second page. Bath is
9 towards the bottom of the page, centre 28. It shows
10 a report of one patient testing positive by reference
11 to 1983, which would presumably be a reference to
12 a retrospective testing on a stored sample, two in
13 1985, giving a total of three cases.

14 Sir, that is the extent of the information that
15 we have. We don't have any contemporaneous
16 documentation relating to the process of testing or
17 how patients were informed of their diagnosis.

18 Can I then come to the Salisbury Centre.

19 The directors at Salisbury were, first of all,
20 Dr Pinkerton and then Dr Parry. Dr Pinkerton was
21 a pathologist by background, and then he was succeeded
22 by Dr Parry in or around February 1984. The centre in
23 Salisbury was designated as a centre in 1976.

24 In terms of numbers of patients treated, again,
25 it was a relatively small centre so the annual returns

148

1 suggest a range of between about about four to 11
2 patients with haemophilia A in the years from 1976
3 onwards, one to four patients with haemophilia B, and
4 one patient with von Willebrand's.

5 If we pick up the picture in relation to the
6 blood product usage from the returns, I'm just going
7 to describe what the returns show for the first two or
8 three years we have, and then we'll look at the
9 documents from 1980 onwards.

10 So 1976 shows treatment exclusively with
11 cryoprecipitate, patients with haemophilia, and
12 von Willebrand's disease -- sorry, with haemophilia A
13 and von Willebrand's, and plasma for Christmas disease
14 patients.

15 1977 shows exclusively treatment with
16 cryoprecipitate for patients with haemophilia, and NHS
17 Factor IX concentrate for patients with haemophilia B.

18 We don't have the return for 1978.

19 1979 shows treatment with cryoprecipitate, and
20 then the first commercial concentrate, Hemofil. The
21 amounts used are relatively small: 1,820 units of
22 cryo, 3,230 units of Hemofil, and then the haemophilia
23 B patients still treated with NHS Factor IX.

24 If we then pick up the picture in 1980 at
25 HCDO0001464, we can see it's a small centre, five

149

1 then Hemofil, roughly a little under half the amount
2 used there; and then we have Factorate and Kryobulin
3 used as well.

4 1983, HCDO0001759, shows no cryoprecipitate at
5 all. But a significant increase in the volume of NHS
6 concentrate used: so nearly 86,000 units in hospital,
7 and nearly 90,000 units for home treatment; and then
8 we see 34,125 units of Armour; and then two further
9 commercial concentrates in use, Hemofil roughly
10 13,500 units, and Koate 1,400.

11 Then lastly, 1984, HCDO0001852, again no
12 cryoprecipitate at all and, indeed, according to this,
13 no home treatment at all. The main product used there
14 is the NHS concentrate: 174,000 units in hospital,
15 contrasted with 12,600 units of Factorate and just
16 under 15,000 units of Koate. So mainly NHS
17 concentrates, but with some commercial products being
18 used.

19 So that's the picture in relation to product
20 usage. We have no information which helps us
21 understand why products were used in the way they were
22 or whether particular products were used for
23 particular categories of patients. However, we can
24 pick up, in relation to Salisbury, the issue of the
25 donation to the Wessex Regional Transfusion Centre and

151

1 haemophilia A patients treated during the year, one
2 von Willebrand's. It looks as though the
3 von Willebrand's patient was treated exclusively with
4 Kryobulin in that year. Then, in terms of
5 haemophilia A, we have some usage of cryoprecipitate,
6 and then NHS concentrates, and then some use of
7 a range of commercial concentrates, Factorate, Hemofil
8 and Kryobulin all used. It's a slightly curious way
9 in which the volumes are expressed. But, in any
10 event, those are the products used in 1980. No
11 cryoprecipitate there, as I say, for von Willebrand's
12 disease, which is comparatively unusual to see.

13 1981, HCDO0001565, shows the treatment of seven
14 haemophilia A patients that year, no von Willebrand's.
15 You'll see no cryoprecipitate used at all, and then we
16 have NHS concentrate used. That's the largest amount
17 used overall, 21,832 units. But then three different
18 types of commercial concentrate used: Factorate,
19 11,000-plus; Kryobulin, just under 7,000; and then
20 Hemofil, 2,720.

21 When we come to 1982, HCDO0001663, again, we've
22 got seven patients with haemophilia A treated and,
23 again, no cryoprecipitate used at all. It's not
24 a wildly different picture from the previous year,
25 sir. The main product in use there, NHS concentrates;

150

1 the subsequent contamination of the BPL batch. So if
2 we start with DHSC0002247_090, we looked at this
3 letter earlier, but it helps to look at, I think,
4 a more complete set of correspondence. So this is
5 4 October 1984 from the Wessex Regional Transfusion
6 Centre, sent to the various Haemophilia Centres in the
7 region including, we can see, Dr Parry at Salisbury.

8 Then we can see there, in the second paragraph,
9 the concern that one of the donors whose plasma was
10 incorporated in the pool for that particular BPL batch
11 was now thought to be suffering from AIDS.

12 If we then turn to DHSC0002247_093, we've got
13 the follow-up letter. Again, we've looked at this
14 earlier, sir, but we can take this one quickly.
15 16 October 1984, explaining to the recipients, which
16 included Dr Parry at the Salisbury Infirmary, that the
17 diagnosis of AIDS had been confirmed. You'll see
18 reference there to -- there's going to be a letter
19 from Dr Snape and Dr Craske. Then this:

20 "In the meantime, I have been asked to suggest
21 that a policy of discrete surveillance be pursued."

22 Quite what's meant by "discrete surveillance" by
23 Dr Barnes, I'm afraid, is unclear.

24 If we then go to DHSC0004180_050, this provides
25 some information about what happened in relation to

152

1 this particular donation. Obviously the details of
 2 the donor are redacted, so it explains:
 3 "On 4th October 1984 we were informed that
 4 a patient ... had been admitted to a local hospital
 5 with a history of breathlessness for the last three
 6 months and a productive cough."
 7 The patient is described there as a practising
 8 homosexual. The next paragraph confirms that the
 9 diagnosis of AIDS was confirmed.
 10 We then see set out a donation history, so
 11 a donation made in November '82, a donation made in
 12 February 1983. There's reference there, then, to
 13 a donation made in Wessex, and that's the operative
 14 one for present purposes. It refers to regular donors
 15 having been sent the AIDS leaflet:
 16 "An AIDS leaflet was received by the donor early
 17 in 1984."
 18 Of course, we've heard evidence about that first
 19 AIDS leaflet in other evidence.
 20 There's reference then to a-- what then happened
 21 to some of the donations. So whole blood transfused
 22 to a patient. Then over the page -- who later died --
 23 over the page, reference to plasma reduced red cells
 24 being transfused in another patient.
 25 Then we pick up the picture in relation to the
 153

1 Salisbury.
 2 If we go over the page we see the letter. He
 3 refers in the first paragraph to the donor's diagnosis
 4 of AIDS having been confirmed. Then Dr Craske
 5 explains he has responsibility for the epidemiological
 6 follow-up of recipients to the batch. He says:
 7 "I hope that we can obtain the maximum
 8 information from this unfortunate incident, and devise
 9 methods for the prevention of the disease. We also
 10 need to confirm the association of HTLV-3 infection
 11 and transfusion of factor VIII concentrate."
 12 Then if we go to the bottom of the page under
 13 the heading "Risk to the patient", he says:
 14 "From the foregoing discussion you will see that
 15 it is difficult to be certain of the precise risk of
 16 any recipient contracting AIDS, but the following
 17 facts may help you to appreciate the position."
 18 Then a number of matters set out, maybe
 19 something we will want to come back to at a later
 20 stage when we see the kind of advice being given by
 21 Dr Craske.
 22 If we go to the bottom of the page we'll see,
 23 however, the "Methods of Investigation" that was being
 24 urged by Dr Craske.
 25 First was:
 155

1 BPL batch:
 2 "Haemophilia concentrate prepared Batch number
 3 HL3186 6th April 1984. 7000 plasma donations in the
 4 pool. 9 patients were transfused in Wales and 29 in
 5 Wessex. Other units immediately recalled, total batch
 6 comprised 485 vials sent to Wessex BTC and 400 sent to
 7 Cardiff RTC. A total of 338 vials were recovered from
 8 Cardiff and 9 patients received the batch. In Wessex
 9 a total of 187 vials were recovered and 29 patients
 10 received the batch."
 11 Then we can see an account of the distribution
 12 of the patients who received the batch: four at
 13 Dorchester; three at Salisbury, which is the centre
 14 with which we're currently concerned; one at
 15 Winchester, eight at Treloar's, eight at Southampton,
 16 which we've already looked at; and five at Portsmouth;
 17 giving the total of 29. There is further information
 18 on the following page about what happened to the
 19 donor, who died in November 1984.
 20 There's then two letters on 20 November 1984
 21 with general advice about how the haemophilia centre
 22 should proceed. And if we go to CBLA0000010_188, this
 23 is the letter that Dr Craske wrote in relation to the
 24 batch HL3186, dated 20 November, and we can see the
 25 recipients there set out including Dr Parry at
 154

1 "Identify all patients who have received
 2 factor VIII batch HL3186."
 3 The second is:
 4 "Follow up of patients."
 5 So he was asking the Haemophilia Centre
 6 Directors to follow up the identified patients:
 7 "... at least at four monthly intervals for
 8 6 years. Further review should be undertaken if
 9 a patient becomes ill to exclude the possibility of an
 10 AIDS related illness."
 11 Then there's a suggestion of selecting for each
 12 patient a control patient who's not received batch
 13 number HL3186.
 14 If we go over the page, he explains he's
 15 identified a set of record forms: forms JC1, JC2 and
 16 JC3. The first, which is patient data and clinical
 17 features forms, he asks the Haemophilia Centre
 18 Director to complete on initial visit in each
 19 follow-up and to return to him together with
 20 a specimen of serum for HTLV-III antibodies.
 21 If we go a little further down the page then,
 22 the "Four monthly review" process, he sets out what
 23 he's asking the Haemophilia Centre Directors to do.
 24 Go to the bottom of the page. He then touches
 25 on the question of whether the patient should be told
 156

1 or not.
 2 "The follow-up may be carried out using an
 3 alternative of two different strategies:
 4 "i) If the patient has been informed of the
 5 risk with this contaminated batch of factor VIII,
 6 testing could be carried out on each specimen as it is
 7 obtained at each four monthly review. In addition, it
 8 would be wise to warn the index patient that his
 9 spouse may be at risk from contracting HTLV-3
 10 infection as a result of any sexual contact. Test for
 11 HTLV-3 antibodies can be offered to Directors at the
 12 time of follow-up of the index case. Follow-up can be
 13 arranged by the Director or in collaboration with the
 14 GP as thought necessary."
 15 Top of the next page:
 16 "ii) An alternative strategy would be not to
 17 tell the patient of the risk involved but to observe
 18 them at regular clinical review four monthly, to
 19 collect serum specimens for HTLV-3 antibody
 20 examination and send them to me at Manchester. These
 21 would not be examined until two years after the
 22 initial exposure, or until the patient develops
 23 clinical features suggestive of AIDS, or testing is
 24 requested by the Haemophilia Centre Director.
 25 "The ethical problems involved in these two

157

1 alternative methods of follow-up are discussed in an
 2 appendix at the end of this letter."
 3 Then we can see a reference, two paragraphs
 4 further down, to "Investigation of spouses":
 5 "This will be at the discretion of the
 6 Haemophilia Centre Director, and it will depend upon
 7 whether it is decided to inform the index patient of
 8 the possibility that the batch of factor VIII was
 9 contaminated with HTLV-3 virus ..."
 10 Question posed:
 11 "Should the patient be told?"
 12 "Ideally I think he should, but this will depend
 13 on many factors, including the amount of anxiety
 14 concerning AIDS there is already present at the
 15 Centre, and the degree to which the patient is capable
 16 of understanding the situation. Every effort should
 17 be made to encourage the patient to discuss the
 18 problem with his spouse and help them to face the
 19 problem together. The [GP] should also be informed by
 20 letter."
 21 Then there's a heading "Other preventative
 22 measures", the first refers to warning patients that
 23 their sexual partner may be exposed to risk. And then
 24 he goes on to refer to the possibility of inactivation
 25 through heat treatment.

158

1 If we go over the page we'll see the ethical
 2 problem annex. I'm not going to go through that now,
 3 because we're focusing on Salisbury, but you'll see he
 4 sets out what's said to be the pros and cons.
 5 It's only right to point out, if we go to the
 6 bottom of the page, Dr Craske says:
 7 "In my view option (1) ..."
 8 That's informing the patient and family.
 9 "... is the only one tenable on moral and
 10 ethical grounds."
 11 So that's Dr Craske's view but it's being left
 12 to Haemophilia Centre Directors to determine for
 13 themselves.
 14 **SIR BRIAN LANGSTAFF:** Can we just go back to the page
 15 before this.
 16 **MS RICHARDS:** I think -- is it page 4, sir, you wanted?
 17 Or the next page?
 18 **SIR BRIAN LANGSTAFF:** Just give me a moment. I'm going to
 19 see. The next page. Yes. It's underneath "Should
 20 the patient be told?" It's an insight into attitudes,
 21 perhaps, at the time. But the question mark appears
 22 to be over telling the patient. It does not appear to
 23 be over telling the GP.
 24 **MS RICHARDS:** Yes, it does not. You're absolutely right,
 25 sir.

159

1 Then the two factors identified there as
 2 relevant was amount of anxiety concerning AIDS there
 3 is already present at the Centre, which seems to be
 4 rather difficult to relate to the question of whether
 5 an individual patient should be told, and then, well,
 6 it might be thought a degree of paternalism, the
 7 question of whether the patient is capable of
 8 understanding the situation. It depends, I suppose,
 9 if that was talking about children. Different
 10 questions as to capacity may apply, but one would
 11 expect parents to be notified.
 12 **SIR BRIAN LANGSTAFF:** Yes.
 13 **MS RICHARDS:** In any event, we have that.
 14 Then if we go to page 7, there are, then
 15 a number of forms. I don't propose to go through them
 16 but over the following five or six pages we see the
 17 forms which Dr Craske is asking the directors to fill
 18 in.
 19 Just to complete the picture in relation to this
 20 issue, if we go to HHFT0001026_004, this is a letter
 21 from the Regional Medical Officer at the Wessex
 22 Regional Health Authority. It's the same date as
 23 Dr Craske's letter, 20 November 1984, and if we look
 24 at the bottom of the page, we can see that it was sent
 25 to Dr Parry and Salisbury. If we go back to the top

160

1 of the letter, first paragraph refers to the blood
2 donation, it says:
3 "Our Transfusion Centre was not aware of this
4 until the patient was admitted to hospital for
5 treatment."

6 Next paragraph talks about the setting up of
7 a Working Party by the Department of Health. If we go
8 to the next, it says this:

9 "I have discussed the subject of AIDS with two
10 members of the Working Party and feel that in the
11 first instance it would be strongly advisable for the
12 patients who received batch number HL 3186,
13 a Factor VIII concentrate, or their parents, to be
14 told, with the emphasis that the benefits of treatment
15 by Factor VIII far outweigh the small risk of the
16 patient developing AIDS. I hope you will agree to do
17 this now and let me know thereafter.

18 "The public interest in this matter will almost
19 certainly lead to further Press enquiries in Wessex
20 before long. I would like to be able to say that all
21 patients have been informed and that the situation is
22 being closely monitored."

23 So that was the advice emanating from the
24 Regional Medical Officer. We don't, I'm afraid, know
25 what action was taken at Salisbury, in response to

161

1 Dr Craske presented a report of the Hepatitis Working
2 Party.

3 He was also there in the meeting in October '81,
4 again at which Dr Craske presented a pre-circulated
5 report about hepatitis and there was discussion about
6 hepatitis and liver disease.

7 Dr Pinkerton was also at the directors meeting
8 in October '83, at which the issue of cryoprecipitate
9 reversion to concentrate arose for discussion.

10 The only other contemporaneous document which
11 throws any particular light on state of knowledge is
12 from March '84, TREL0000343_045. It's a letter dated
13 2 March 1984. It's from Dr Barnes at Salisbury
14 Odstock Hospital to Dr Aronstam about a particular
15 patient. But if we go to the second page, we can see
16 it was copied to Dr Parry, and then it's actually
17 what's set out in handwriting at the bottom that's of
18 relevance for broader purposes:

19 "Interesting to see in The Lancet that Finnish
20 cryoprecipitate doesn't have the same effect on T
21 cells as concentrate does."

22 That's a reference to an article in The Lancet
23 we'll just look at briefly, RLIT0000119. It's
24 25 February 1984. We can see, I won't go through the
25 detail of it but it's the article on the left-hand

163

1 that advice. There is a letter at DHSC0014952_180.
2 This is a letter the following year, September 1985.
3 This is not specifically related to the BPL batch but
4 this is the other piece of contemporaneous
5 documentation we have in relation to patients infected
6 with HIV at Salisbury. It's from Dr Parry "To whom it
7 may concern", and we can see from the first paragraph
8 it shows that a child patient -- at least, I think the
9 inference is probably that it's a child -- with mild
10 haemophilia was infected with HTLV-III at Salisbury.

11 The purpose of the letter, it looks like it's to
12 be used potentially to reassure schools or the like,
13 or the particular patient's school, but telling that
14 we have a child patient with mild haemophilia there
15 infected. As I say, whether infected through the use
16 of commercial concentrates or infected through the use
17 of the particular batch, the documentation we have
18 looked at doesn't enable us to determine.

19 In terms of knowledge of risk of hepatitis and
20 AIDS Dr Pinkerton and Dr Parry were regular attenders
21 at UKHCDO meetings. Dr Pinkerton is there in '77. He
22 is at a Haemophilia Centre and Blood Transfusion
23 Centre Directors meeting in '78. He's at the
24 Haemophilia Centre Directors meeting in November '78
25 and November '79, at which, amongst other things,

162

1 side, "Normal T-cell subset ratios in patients with
2 severe haemophilia A treated with cryoprecipitate".

3 So some --

4 **SIR BRIAN LANGSTAFF:** It's written by whom?

5 **MS RICHARDS:** If we go to the bottom of that column we can
6 see it's written by four individuals representing the
7 Finnish Red Cross Blood Transfusion Service in
8 Helsinki.

9 **SIR BRIAN LANGSTAFF:** Thank you.

10 **MS RICHARDS:** So some knowledge within Salisbury, and
11 being sent to Dr Parry of issues relating to
12 concentrates versus cryoprecipitate in early 1984.

13 In terms, then, of figures relating to numbers
14 infected, the data that we have from UKHCDO suggests
15 three patients tested positive for HIV in 1985. I'm
16 afraid, as things currently stand, we've no way of
17 knowing whether those -- whether all or any of those
18 three patients were patients who'd received the
19 contaminated, implicated BPL batch. You'll recall
20 that there were three patients at Salisbury who'd
21 received that batch, whether those are the same three
22 patients who tested positive for HTLV-III, it's not
23 possible to know.

24 In relation to hepatitis C, no information, I'm
25 afraid, about numbers of patients infected with

164

1 hepatitis C. You do, sir, have evidence from
 2 an individual treated at the centre who recalls being
 3 informed of their hepatitis C status in the mid-1990s,
 4 and doesn't recall being informed that he was going to
 5 be tested for hepatitis C.
 6 Sir, that's the picture, then, in relation to
 7 Salisbury. Although Winchester is very short, it's
 8 not six seconds short, which is the time between now
 9 and 4.30, and I don't want to -- although, it is short
 10 and there are few documents, I don't particularly want
 11 to rush through it.
 12 Perhaps we could pick that up at ten?
 13 **SIR BRIAN LANGSTAFF:** Well, it will be just as short at
 14 ten as it would be now, so let's take a break.
 15 Ten o'clock tomorrow, we start with Winchester.
 16 **(4.30 pm)**
 17 **(The hearing adjourned until 10.00 am the following day)**
 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

I N D E X

Presentation by Counsel to the Inquiry 1
 about smaller haemophilia centres
 (continued)

<p>MS RICHARDS: [55] 1/6 5/17 5/22 6/7 6/9 6/20 6/25 17/2 17/5 17/7 17/10 17/18 17/21 18/3 18/25 19/2 20/24 21/3 40/2 40/6 40/10 45/13 47/18 47/20 52/25 60/1 68/12 68/19 78/13 78/16 78/21 92/15 95/7 108/16 108/21 116/7 116/9 116/12 116/18 116/24 117/7 138/21 141/16 141/20 145/4 145/8 145/13 145/20 145/25 146/3 159/16 159/24 160/13 164/5 164/10</p> <p>SIR BRIAN LANGSTAFF: [55] 1/5 5/13 5/19 6/2 6/8 6/10 6/24 16/25 17/4 17/6 17/8 17/16 17/19 18/2 18/22 19/1 20/22 20/25 39/25 40/3 40/8 45/8 47/15 47/19 52/24 59/25 68/9 68/18 78/11 78/14 78/20 92/14 95/2 108/14 108/20 116/5 116/8 116/10 116/17 116/22 117/4 138/20 141/14 145/3 145/7 145/12 145/19 145/23 146/1 159/14 159/18 160/12 164/4 164/9 165/13</p> <p>'</p> <p>'68 [2] 22/21 31/16 '68 and [1] 31/16 '71 [3] 10/16 22/21 31/16 '72 [2] 22/24 95/20 '74 [1] 22/21 '75 [1] 22/24 '76 [3] 24/25 107/23 122/1 '77 [4] 22/22 22/24 24/25 162/21 '78 [4] 22/22 22/24 162/23 162/24 '79 [3] 22/24 146/12 162/25 '81 [5] 10/16 73/8 73/12 146/12 163/3 '82 [4] 73/15 111/6 146/12 153/11 '83 [5] 44/14 111/6 111/6 139/14 163/8</p>	<p>'84 [2] 38/12 163/12 '85 [2] 52/11 52/12 '89 [1] 44/16 'Arrangements [1] 77/8 'aware' [1] 105/24 'Blood' [1] 104/10 'help [1] 96/9 'high [1] 129/13 'minor' [1] 5/7 'negative' [1] 115/21 'sub [1] 96/4 'sub-centre' [1] 96/4</p> <p>0</p> <p>0000503 [1] 2/6 0001944 [1] 111/23 001 [4] 38/24 65/19 146/21 146/22 002 [7] 7/9 14/20 27/9 38/12 98/12 122/4 132/16 003 [3] 9/5 33/6 95/18 004 [1] 160/20 008 [1] 29/21 011 [1] 63/17 017 [2] 92/22 127/21 018 [1] 73/24 019 [1] 127/2 020 [1] 54/12 022 [1] 3/8 023 [1] 25/7 025 [3] 12/19 99/7 112/19 030 [1] 140/24 031 [1] 66/11 035 [1] 51/16 036 [1] 53/3 040 [1] 47/9 041 [1] 83/7 042 [1] 83/16 045 [1] 163/12 050 [1] 152/24 061 [1] 57/8 090 [2] 45/19 152/2 093 [2] 93/10 152/12</p> <p>1</p> <p>1,066 [1] 58/14 1,400 [1] 151/10 1,500 [1] 142/19 1,820 [1] 149/21 1.04 [1] 95/4 1.1 [1] 66/19 10 [5] 3/23 5/15 25/13 118/4 120/10 10 mark [1] 133/15 10 November 1983 [1] 127/4 10 patients [1] 53/7 10,000 [1] 123/12 10,227 [1] 145/22</p>	<p>10,500 units [1] 144/5 10-15ml [1] 5/1 10.00 [2] 1/2 165/17 100,000 [4] 15/25 21/7 61/10 123/6 100,870 [1] 145/13 100ml [2] 4/25 5/15 104,500 [1] 111/15 105 [1] 15/6 105,000 [1] 15/7 105,000 units [1] 7/13 106,500 [1] 123/21 108,000 [2] 34/25 80/15 11 [3] 38/12 108/5 149/1 11 August 1978 [1] 100/10 11 November 1990 [1] 63/18 11,000 [1] 77/18 11,000-plus [1] 150/19 11.15 [1] 45/10 11.45 [1] 45/12 110,000-odd [1] 15/14 117,000 [1] 30/21 117,000-odd [1] 80/14 119,000 [1] 108/24 12 [5] 27/2 45/9 45/9 54/21 129/15 12,000 [1] 81/22 12,000-odd [1] 123/8 12,600 [1] 151/15 121,500 [1] 108/23 122,000-plus [1] 35/10 125,000 [1] 59/3 128 [1] 91/18 13 [4] 12/1 25/4 90/2 129/9 13,000 [1] 144/23 13,500 [1] 142/25 13,500 units [1] 151/10 131,000 [1] 144/8 14 [3] 26/15 119/5 129/15 14 days [1] 118/4 14 October 1985 [1] 51/21 14 patients [1] 59/2 14,000 [1] 108/12 14,750 hospital [1] 30/22 140 [1] 139/18 140,000 [1] 137/9 140,980 [1] 108/9 142 [1] 75/20 142,542 [1] 136/12 145 [1] 25/16 15 [4] 67/10 80/6</p>	<p>80/20 114/22 15 May 1973 [1] 57/9 15,000 [2] 136/4 151/16 15,500 [1] 111/18 151,000 [1] 19/20 152 [1] 111/19 153,820 [1] 123/11 15ml [2] 5/1 5/16 16 [6] 33/24 82/13 100/23 113/13 140/19 140/25 16 October 1984 [2] 93/16 152/15 163,000 units [1] 28/15 164,060 [1] 109/6 167,500 [1] 34/12 168 [1] 12/24 168,700 [1] 60/16 17 [3] 5/15 101/11 122/1 17 November 1983 [1] 127/21 170,000 [1] 81/20 171,000 [1] 20/17 173 [1] 56/18 174,000 [1] 151/14 17th [1] 127/8 18 [2] 101/17 108/1 18,000 [1] 60/14 18,466 [1] 77/17 180 [2] 61/12 162/1 186,000 [1] 81/4 186,000-odd [1] 21/7 187 [1] 154/9 188 [2] 94/15 154/22 19 [4] 13/2 101/22 111/1 122/4 19 occasional [1] 79/18 19,000 [1] 142/13 19,428 [1] 136/24 194 [1] 49/18 194,000 [1] 109/15 1968 [1] 103/21 1969 [3] 12/23 14/5 25/8 1970 [11] 1/23 3/11 12/2 12/21 14/5 25/5 26/10 74/1 75/4 117/12 119/3 1970-1974 [1] 89/8 1970s [20] 1/9 1/24 3/8 6/4 7/1 10/16 11/24 25/3 43/24 43/25 63/9 72/22 78/22 86/15 100/18 102/5 103/10 104/17 112/14 120/6 1971 [2] 75/15 75/22 1972 [8] 14/7 14/9</p>	<p>26/13 31/17 72/23 75/8 75/17 78/22 1973 [2] 57/9 89/22 1974 [10] 3/2 12/4 31/17 83/8 83/22 84/4 85/13 89/8 120/19 125/18 1975 [6] 32/13 32/15 84/23 88/20 88/25 89/15 1976 [35] 2/7 3/22 7/7 7/8 7/12 7/16 12/14 12/14 14/19 15/1 27/9 33/6 33/13 33/16 76/13 76/21 76/25 78/10 80/7 96/10 96/12 99/7 108/4 108/8 121/19 122/3 122/12 122/15 131/21 131/24 135/15 135/18 148/23 149/2 149/10 1977 [23] 7/19 7/21 15/8 15/11 25/1 27/19 31/19 33/21 44/9 58/7 62/25 72/23 73/3 88/24 97/13 97/15 108/21 122/16 131/25 135/21 141/23 142/7 149/15 1978 [25] 8/4 8/7 15/16 15/20 20/25 28/2 28/10 34/8 54/16 55/6 58/25 80/10 80/25 81/1 89/23 90/8 99/16 99/19 100/10 109/1 110/21 110/25 123/4 136/5 149/18 1979 [19] 1/16 8/8 11/15 16/11 28/11 34/7 34/11 59/1 59/2 81/9 90/9 90/13 91/21 109/11 123/9 136/6 136/17 142/21 149/19 1980 [22] 8/11 8/12 11/15 11/17 16/16 16/22 17/3 34/19 35/6 59/6 73/5 81/15 109/18 109/25 123/16 136/18 143/2 147/1 147/2 149/9 149/24 150/10 1980s [16] 1/10 7/2 7/7 11/25 23/2 28/16 51/2 55/21 56/8 64/13 70/18 71/19 89/4 95/17 97/25 104/24 1981 [20] 8/15 18/3 18/4 18/9 19/1 19/2 28/25 35/7 59/21 73/7 97/15 109/23 109/24 110/2 110/3 111/2 124/2 137/5 143/16</p>	<p>150/13 1982 [19] 8/19 9/4 10/18 19/14 19/15 29/6 29/8 35/16 44/9 60/12 81/17 97/19 103/10 111/4 124/19 126/24 137/17 143/24 150/21 1982's [1] 60/11 1983 [38] 1/16 9/4 9/6 10/18 20/5 23/7 29/21 29/22 30/3 30/8 31/23 35/24 35/24 36/13 37/4 44/10 60/22 82/1 82/8 82/9 106/12 107/3 111/8 124/23 127/4 127/16 127/21 128/16 128/24 137/25 139/21 140/2 144/6 144/20 146/13 148/11 151/4 153/12 1984 [54] 1/12 9/17 9/18 21/13 21/17 23/22 30/12 31/5 31/10 36/14 36/25 38/9 38/25 42/3 45/20 47/3 47/23 48/3 48/21 49/14 61/3 61/5 61/10 61/15 61/19 61/20 63/13 82/12 92/22 93/9 93/16 94/11 111/22 112/9 115/4 125/7 128/24 138/9 144/20 144/21 146/3 148/22 151/11 152/5 152/15 153/3 153/17 154/3 154/19 154/20 160/23 163/13 163/24 164/12 1985 [45] 1/12 3/23 11/2 23/22 32/7 40/15 42/3 48/14 49/18 51/20 51/21 51/23 52/3 52/9 52/15 52/16 52/21 52/23 62/2 62/5 65/3 80/7 82/23 94/11 111/24 111/25 115/4 115/19 115/23 116/23 117/2 119/7 119/9 119/20 125/16 125/20 126/16 130/4 130/11 131/6 140/7 140/20 148/13 162/2 164/15 1986 [11] 23/22 32/7 55/22 61/22 62/10 63/13 64/22 98/9 141/23 141/24 141/25 1987 [7] 23/23 55/12 55/13 94/17 132/13 132/16 142/2 1988 [9] 44/16 94/12 94/19 115/4 115/10</p>
--	--	--	--	---	--

<p>1</p> <p>1988... [4] 115/14 115/18 116/15 147/14</p> <p>1989 [7] 25/1 53/3 65/7 65/9 70/3 141/3 141/4</p> <p>1990 [6] 57/5 63/17 63/18 70/23 141/3 141/4</p> <p>1990s [8] 11/25 44/17 73/18 113/6 131/7 135/11 139/7 165/3</p> <p>1991 [8] 65/13 65/21 70/23 71/5 73/21 147/12 147/20 148/3</p> <p>1992 [4] 55/14 65/7 66/5 114/13</p> <p>1994 [2] 54/4 114/12</p> <p>1995 [3] 132/2 134/24 139/8</p> <p>1996 [3] 66/16 66/17 113/8</p> <p>1997 [5] 11/19 21/25 24/3 24/15 70/14</p> <p>1998 [1] 32/20</p> <p>19th December 1969 [1] 25/8</p> <p>19th June [1] 54/16</p> <p>19th May 1988 [1] 115/18</p>	<p>21 patients [1] 60/23</p> <p>21,400 [1] 136/2</p> <p>21,832 [1] 150/17</p> <p>210,000 units [1] 123/11</p> <p>217 [1] 110/11</p> <p>22 [1] 33/9</p> <p>22 August [1] 48/2</p> <p>22 February 1985 [1] 51/20</p> <p>22,500 [1] 33/14</p> <p>221,000 units [1] 28/5</p> <p>221,000-odd [1] 19/16</p> <p>224,000-odd [1] 20/16</p> <p>225,000 [1] 28/14</p> <p>227,000-odd [1] 138/16</p> <p>23 [5] 4/6 23/22 59/24 59/25 120/11</p> <p>23,000 [1] 142/18</p> <p>230,000 [1] 16/13</p> <p>230,000-odd [1] 144/2</p> <p>237,407 [1] 123/22</p> <p>24 [1] 27/2</p> <p>24 January [1] 50/4</p> <p>24 January 1985 [1] 48/14</p> <p>24 November 1976 [1] 2/7</p> <p>248,500 units [1] 138/17</p> <p>25 [3] 102/3 118/16 122/1</p> <p>25 February 1984 [1] 163/24</p> <p>25 July 1979 [1] 91/21</p> <p>25 patients [1] 59/23</p> <p>26 [1] 26/12</p> <p>26 years [1] 72/15</p> <p>26,000 [1] 35/11</p> <p>264,225 units [1] 125/10</p> <p>27 [2] 14/8 102/12</p> <p>27 February 1976 [1] 76/25</p> <p>27 patients [1] 61/6</p> <p>276,000-odd [1] 80/17</p> <p>28 [5] 3/17 3/18 23/21 129/9 148/9</p> <p>28 June 1983 [1] 139/21</p> <p>28 patients [1] 58/10</p> <p>29 [4] 79/17 154/4 154/9 154/17</p> <p>29 August [1] 48/3</p> <p>29 January 1985 [1] 49/18</p> <p>290,000-odd [1] 19/25</p> <p>3</p> <p>3 failed [1] 68/6</p>	<p>3 times [1] 64/4</p> <p>3,230 units [1] 149/22</p> <p>3.2 [1] 68/9</p> <p>3.20 [1] 141/17</p> <p>3.50 [1] 141/19</p> <p>30 [2] 38/25 100/14</p> <p>30 December 2018 [1] 69/22</p> <p>30,000 [1] 34/16</p> <p>300 [1] 60/4</p> <p>300,000 [2] 15/12 30/18</p> <p>300,000 units [1] 61/14</p> <p>308,000 [1] 21/6</p> <p>31 [4] 34/9 67/9 99/18 102/23</p> <p>31 July 1989 [1] 53/3</p> <p>31,000 [1] 136/14</p> <p>31,900 [1] 31/3</p> <p>317,000 [1] 125/5</p> <p>3186 [1] 161/12</p> <p>32,000 [3] 16/1 35/17 142/17</p> <p>32,000 units [1] 15/15</p> <p>320 [1] 144/17</p> <p>326,745 units [1] 125/2</p> <p>33 [1] 67/12</p> <p>33,000 [1] 136/15</p> <p>338 [1] 154/7</p> <p>34,125 [1] 151/8</p> <p>34,600 units [1] 59/14</p> <p>347 [1] 58/15</p> <p>350 [1] 19/16</p> <p>350,000 [1] 19/17</p> <p>354 [1] 110/14</p> <p>373,750 [1] 111/16</p> <p>38 [1] 66/24</p> <p>38,000 [2] 111/18 122/23</p> <p>4</p> <p>4 October 1984 [1] 152/5</p> <p>4,700-odd [1] 81/22</p> <p>4.30 [2] 165/9 165/16</p> <p>40 [3] 100/14 134/8 134/9</p> <p>40,000 units [1] 36/6</p> <p>400 [1] 154/6</p> <p>41 [3] 66/22 80/6 80/10</p> <p>41,485 [1] 142/12</p> <p>41,500 [1] 142/24</p> <p>416,000 [1] 15/3</p> <p>42,200 units [1] 136/2</p> <p>43 [1] 104/2</p> <p>45,000 [1] 61/12</p> <p>452,000 units [1] 18/8</p> <p>46,000 [1] 108/25</p> <p>47 [2] 14/11 105/15</p>	<p>47,000 [2] 33/14 124/1</p> <p>472,000 units [1] 18/9</p> <p>48 [1] 106/2</p> <p>480 [1] 100/3</p> <p>485 [1] 154/6</p> <p>49,000 [1] 123/24</p> <p>49,000 units [1] 17/1</p> <p>490,000 [1] 17/4</p> <p>4th October 1984 [2] 45/20 153/3</p> <p>5</p> <p>5,700 [1] 122/19</p> <p>5.7 [1] 68/25</p> <p>50 [3] 17/9 25/12 135/2</p> <p>50,000 [1] 9/21</p> <p>500 [1] 143/1</p> <p>51 [2] 14/22 106/11</p> <p>51,500 [1] 122/22</p> <p>52 [2] 106/20 134/10</p> <p>53 [1] 107/1</p> <p>55,000 [1] 124/16</p> <p>55,000-plus [1] 123/24</p> <p>56 [1] 90/1</p> <p>56,000 [2] 60/16 109/12</p> <p>58,000 [1] 122/10</p> <p>6</p> <p>6 months [1] 85/14</p> <p>6 years [1] 156/8</p> <p>6,000 [1] 144/15</p> <p>6,000 litres [1] 86/10</p> <p>6,500 [1] 143/22</p> <p>60 [1] 90/1</p> <p>65,000 [1] 144/14</p> <p>654 [1] 13/1</p> <p>67,440 [1] 108/11</p> <p>68,235 [1] 125/9</p> <p>69,000 [1] 19/25</p> <p>6th [1] 154/3</p> <p>7</p> <p>7 October 2021 [1] 1/1</p> <p>7,000 [1] 150/19</p> <p>7,390 [1] 145/14</p> <p>70 [1] 16/25</p> <p>70,000 [2] 137/13 143/9</p> <p>70,000 units [1] 60/20</p> <p>70-100ml [1] 4/25</p> <p>7000 [1] 154/3</p> <p>71,000 units [1] 36/25</p> <p>71,000-odd [1] 9/8</p> <p>71,745 [1] 145/16</p> <p>72 [1] 10/16</p> <p>73,000-odd [1] 9/8</p> <p>73,000-plus [1] 21/8</p> <p>74 [1] 10/16</p>	<p>74,645 [1] 125/1</p> <p>76 [1] 77/8</p> <p>77 [1] 10/16</p> <p>77,500 [1] 30/22</p> <p>78 [1] 10/16</p> <p>78,000 [1] 30/20</p> <p>792 [1] 110/11</p> <p>8</p> <p>8 haemophiliacs [1] 133/13</p> <p>8 January 1970 [1] 12/21</p> <p>8 July 1996 [1] 113/8</p> <p>80s [1] 102/5</p> <p>81,000-odd [1] 145/6</p> <p>82,000 [2] 109/8 109/12</p> <p>82,130 [1] 122/21</p> <p>82,200 [2] 109/10 109/16</p> <p>82,500 [1] 124/15</p> <p>85,000 [1] 124/11</p> <p>86,000 [1] 151/6</p> <p>87,000 [2] 15/6 109/17</p> <p>884 [1] 100/2</p> <p>8Y [1] 62/6</p> <p>9</p> <p>9,000 [1] 143/21</p> <p>90,000 [3] 123/6 143/19 151/7</p> <p>900,000 [3] 15/1 15/21 16/12</p> <p>92,000 [2] 81/23 144/8</p> <p>93,000 [1] 142/10</p> <p>94,000-odd [1] 81/21</p> <p>95,750 units [1] 34/3</p> <p>99,000 [1] 137/10</p> <p>A</p> <p>Abbott [1] 15/5</p> <p>ability [2] 77/6 99/5</p> <p>able [11] 23/18 39/10 39/17 39/20 78/16 100/21 108/19 118/7 121/10 147/23 161/20</p> <p>abnormal [6] 67/11 70/20 71/22 91/6 91/15 91/25</p> <p>about [87] 1/3 4/19 5/13 11/3 12/4 17/16 18/8 22/11 38/15 38/15 39/2 41/7 41/12 44/23 45/3 50/17 51/18 57/3 62/16 62/17 63/2 63/4 64/1 64/10 65/10 66/18 67/22 69/16 70/16 74/1 75/24 77/6 78/5 78/11 84/18 86/13 89/5 89/16 94/21</p>	<p>96/17 96/19 99/19</p> <p>102/12 103/8 103/13</p> <p>103/25 104/1 104/4</p> <p>104/11 104/18 105/18</p> <p>106/13 106/18 106/21</p> <p>113/4 113/11 113/21</p> <p>114/19 115/9 116/2</p> <p>117/16 128/17 128/20</p> <p>129/6 129/7 129/15</p> <p>132/20 138/24 139/3</p> <p>139/19 140/3 143/22</p> <p>147/7 147/22 149/1</p> <p>149/1 152/25 153/18</p> <p>154/18 154/21 160/9</p> <p>161/6 163/5 163/5</p> <p>163/14 164/25 166/2</p> <p>above [1] 46/9</p> <p>absence [1] 139/12</p> <p>absolutely [3] 47/18 107/15 159/24</p> <p>abundance [1] 49/20</p> <p>accepted [1] 126/6</p> <p>access [4] 13/7 38/7 71/3 100/22</p> <p>according [4] 87/24 121/25 146/17 151/12</p> <p>account [7] 29/11 38/7 130/7 132/15 140/6 140/8 154/11</p> <p>accounts [2] 10/12 22/10</p> <p>achieve [1] 128/18</p> <p>acquired [1] 105/20</p> <p>across [3] 6/3 140/19 140/21</p> <p>action [1] 161/25</p> <p>active [3] 19/16 41/24 118/19</p> <p>activities [1] 56/9</p> <p>activity [2] 78/12 113/10</p> <p>actual [1] 36/3</p> <p>actually [6] 30/11 49/19 92/12 99/3 106/16 163/16</p> <p>acute [2] 55/23 64/14</p> <p>add [3] 40/25 81/7 134/9</p> <p>added [1] 3/13</p> <p>addition [4] 53/17 64/4 117/24 157/7</p> <p>additional [3] 95/8 118/13 144/11</p> <p>addressed [1] 99/9</p> <p>adds [1] 119/1</p> <p>adequately [1] 118/8</p> <p>adjacent [1] 56/11</p> <p>adjourned [1] 165/17</p> <p>adjournment [1] 95/5</p> <p>administer [1] 6/5</p> <p>administered [2] 5/3 43/1</p>
--	--	--	---	---	---

<p>A</p> <p>admission [2] 25/20 134/17</p> <p>admitted [2] 153/4 161/4</p> <p>advantage [2] 102/14 118/13</p> <p>advantages [2] 85/25 86/1</p> <p>advice [8] 38/3 69/12 125/17 130/14 154/21 155/20 161/23 162/1</p> <p>advisable [2] 78/4 161/11</p> <p>advise [1] 69/13</p> <p>advised [4] 41/16 42/14 64/20 65/23</p> <p>advising [1] 119/24</p> <p>Advisors [1] 96/14</p> <p>affected [3] 2/15 62/7 88/11</p> <p>afraid [20] 21/23 31/6 31/12 32/1 40/10 53/24 59/22 61/17 64/10 68/19 107/16 108/18 114/3 141/2 146/4 147/7 152/23 161/24 164/16 164/25</p> <p>after [16] 23/18 32/17 37/22 45/7 63/22 66/4 66/17 68/5 94/25 107/14 118/2 125/15 125/20 125/25 139/11 157/21</p> <p>afternoon [2] 45/17 94/3</p> <p>again [99] 7/1 9/12 9/17 9/19 9/21 10/19 12/17 15/9 15/21 16/17 18/4 19/3 19/10 19/15 19/18 20/2 20/18 23/3 24/10 25/4 27/8 27/23 28/11 29/6 29/6 29/22 30/14 30/18 31/14 32/2 33/23 33/25 34/13 35/7 35/16 36/8 36/21 42/9 43/25 44/6 44/18 44/21 52/13 56/7 56/17 59/17 60/17 61/10 61/16 62/10 64/21 66/7 75/13 76/23 81/15 81/16 81/18 82/3 82/12 82/16 86/24 87/18 89/17 91/14 92/5 92/17 103/9 108/22 109/1 111/10 112/1 112/25 114/13 114/16 115/12 123/16 124/5 124/19 125/11 135/11</p>	<p>136/19 137/6 137/15 137/18 138/13 139/12 139/15 141/10 142/22 144/7 144/22 145/4 146/9 148/24 150/21 150/23 151/11 152/13 163/4</p> <p>against [2] 110/15 110/16</p> <p>age [1] 114/2</p> <p>agent [1] 83/21</p> <p>ago [3] 72/15 79/25 132/19</p> <p>agree [1] 161/16</p> <p>agreed [1] 37/22</p> <p>ahead [2] 92/14 138/20</p> <p>AIDS [48] 10/4 23/7 37/10 37/17 41/19 41/23 42/18 42/18 43/19 46/13 49/1 64/11 64/15 65/6 92/16 93/2 93/5 93/8 93/14 93/23 94/15 105/14 105/16 105/25 106/5 126/25 128/21 139/19 139/24 139/25 140/14 140/14 146/14 152/11 152/17 153/9 153/15 153/16 153/19 155/4 155/16 156/10 157/23 158/14 160/2 161/9 161/16 162/20</p> <p>AIDS-related [1] 139/19</p> <p>Airport [1] 31/22</p> <p>al [1] 96/3</p> <p>Albeit [1] 19/19</p> <p>alfa [1] 67/25</p> <p>alfa-interferon [1] 67/25</p> <p>all [81] 9/9 12/11 13/13 18/18 19/10 19/23 23/1 24/2 27/16 27/22 28/1 28/8 28/23 29/8 29/20 34/10 34/14 34/23 36/7 38/14 39/16 39/20 39/23 41/1 42/15 43/11 45/23 46/18 47/22 48/17 48/23 50/6 56/9 59/14 60/4 60/14 63/19 65/14 65/15 69/13 72/12 74/19 75/5 81/3 81/24 88/3 88/8 93/18 101/4 102/10 103/13 104/20 105/19 106/6 110/20 120/22 121/4 122/7 122/14 123/14 124/5 124/20 126/13 127/12 128/2 128/12 134/17</p>	<p>136/10 137/6 142/16 142/23 148/19 150/8 150/15 150/23 151/5 151/12 151/13 156/1 161/20 164/17</p> <p>Allison's [2] 46/7 46/18</p> <p>allocation [2] 100/14 128/5</p> <p>allow [1] 16/25</p> <p>allowance [1] 133/24</p> <p>almost [2] 145/23 161/18</p> <p>alone [1] 100/2</p> <p>along [2] 12/9 99/4</p> <p>aloud [1] 37/5</p> <p>alpha [3] 19/23 113/22 113/24</p> <p>already [11] 24/5 42/5 44/15 50/1 62/11 77/3 102/1 117/25 154/16 158/14 160/3</p> <p>also [57] 2/25 3/3 6/25 7/20 9/15 10/1 15/3 16/13 18/12 18/20 19/19 21/11 21/19 22/22 22/22 23/5 28/20 30/6 31/21 35/13 35/21 36/10 36/22 37/1 38/6 42/19 48/11 61/19 69/6 70/7 77/4 77/18 82/6 82/8 82/18 83/24 92/3 93/1 94/13 102/18 113/24 118/12 119/14 121/21 122/22 124/21 126/7 131/19 132/6 135/6 138/14 140/24 146/13 155/9 158/19 163/3 163/7</p> <p>ALT [1] 64/2</p> <p>alter [1] 99/25</p> <p>alternate [1] 100/15</p> <p>alternative [4] 102/4 157/3 157/16 158/1</p> <p>alternatives [2] 126/12 129/3</p> <p>although [18] 19/4 20/8 21/15 29/11 35/4 36/15 38/2 50/11 59/24 63/6 65/18 83/25 104/22 111/7 119/16 147/15 165/7 165/9</p> <p>always [6] 13/22 53/13 102/7 105/11 120/23 134/16</p> <p>am [22] 1/2 5/5 13/16 16/19 25/9 38/19 45/10 45/12 49/22 89/24 93/1 93/22 99/21 104/20 107/16</p>	<p>113/13 128/15 131/15 132/4 132/23 133/25 165/17</p> <p>ambulance [1] 13/11</p> <p>ambulant [1] 147/6</p> <p>America [1] 103/21</p> <p>American [3] 104/9 127/10 128/2</p> <p>amongst [8] 2/9 17/11 47/2 63/4 75/10 88/19 104/4 162/25</p> <p>amount [31] 7/25 8/7 8/12 8/14 15/12 28/3 28/12 28/18 28/18 30/23 35/2 58/12 60/25 82/2 108/12 109/7 109/9 111/20 122/17 124/3 136/15 138/9 142/19 142/25 143/13 143/18 144/25 150/16 151/1 158/13 160/2</p> <p>amounts [7] 16/13 37/19 79/6 109/22 136/13 136/20 149/21</p> <p>ampoules [1] 46/19</p> <p>an account [2] 130/7 154/11</p> <p>an anonymous [1] 48/8</p> <p>an answer [1] 78/18</p> <p>an antibody [1] 70/23</p> <p>an article [1] 163/22</p> <p>an estimate [1] 76/14</p> <p>an explanation [1] 79/12</p> <p>an HIV [1] 24/19</p> <p>an increase [1] 144/23</p> <p>an increased [1] 128/5</p> <p>an individual [1] 165/2</p> <p>an interest [1] 38/10</p> <p>an issue [3] 41/12 45/14 76/9</p> <p>an official [1] 96/7</p> <p>an ongoing [1] 126/22</p> <p>an out-patient [1] 26/1</p> <p>analysis [1] 15/23</p> <p>anger [1] 129/25</p> <p>annex [1] 159/2</p> <p>announces [1] 73/4</p> <p>annual [26] 3/22 7/8 8/16 11/17 14/19 24/22 26/25 27/8 30/7 30/9 33/4 58/7 58/25 73/13 80/2 80/10 107/22 121/25 125/13 132/13 135/14 136/5</p>	<p>141/25 142/1 142/7 148/25</p> <p>annually [1] 77/17</p> <p>anonymous [1] 48/8</p> <p>anorexia [1] 147/4</p> <p>another [11] 54/5 68/17 75/8 77/22 83/22 101/18 104/10 118/10 127/14 134/9 153/24</p> <p>answer [8] 4/15 5/12 6/21 26/20 67/16 69/11 78/18 79/22</p> <p>answered [1] 5/10</p> <p>answering [1] 4/18</p> <p>answers [2] 14/16 120/13</p> <p>anti [3] 67/22 68/8 68/23</p> <p>anti-HCV [1] 68/8</p> <p>anti-viral [2] 67/22 68/23</p> <p>antibodies [7] 33/10 80/11 108/6 109/4 140/10 156/20 157/11</p> <p>antibody [9] 42/17 43/3 43/7 66/23 70/23 115/17 115/19 147/25 157/19</p> <p>anticipate [1] 42/4</p> <p>antigen [1] 92/4</p> <p>Antihaemophilic [1] 41/18</p> <p>anxiety [2] 158/13 160/2</p> <p>anxious [1] 74/20</p> <p>any [64] 5/22 6/4 8/15 11/24 12/13 13/7 16/21 21/16 23/9 23/11 23/11 23/19 32/7 38/22 38/23 39/5 40/12 40/13 41/23 42/6 42/17 44/22 46/24 47/13 50/24 53/15 60/8 61/16 62/13 70/11 70/13 71/8 77/23 83/13 96/16 101/1 101/7 101/21 106/2 106/9 110/2 110/11 111/7 111/10 111/19 112/10 115/22 120/25 122/7 127/9 128/7 128/8 131/11 146/4 146/5 146/16 147/7 148/15 150/9 155/16 157/10 160/13 163/11 164/17</p> <p>anyone [1] 43/20</p> <p>anything [6] 21/23 22/1 49/25 64/10 116/19 120/21</p> <p>apart [2] 68/25 69/15</p>	<p>apologies [3] 2/6 54/14 134/15</p> <p>apparent [5] 5/14 16/9 27/21 84/5 123/13</p> <p>apparently [2] 8/1 36/6</p> <p>appear [12] 8/15 9/12 11/16 17/25 27/8 31/11 57/3 62/23 73/11 94/6 100/17 159/22</p> <p>appeared [1] 10/5</p> <p>appears [21] 5/17 11/14 17/14 19/18 20/9 24/23 30/8 30/14 33/19 38/3 44/14 52/22 62/12 68/1 68/25 76/14 80/21 81/24 96/15 131/24 159/21</p> <p>appendix [2] 78/1 158/2</p> <p>apply [2] 74/13 160/10</p> <p>appointed [2] 32/18 133/24</p> <p>appointment [1] 32/17</p> <p>appointments [1] 64/21</p> <p>appreciate [2] 121/6 155/17</p> <p>approach [4] 22/2 100/22 102/25 146/5</p> <p>appropriate [3] 64/6 105/7 129/19</p> <p>approved [1] 87/24</p> <p>approximately [7] 43/9 52/3 52/8 122/23 124/1 124/15 135/2</p> <p>April [13] 38/12 38/25 52/3 52/9 57/5 62/2 75/8 75/15 85/12 140/7 146/25 147/2 154/3</p> <p>April '84 [1] 38/12</p> <p>April 1971 [1] 75/15</p> <p>April 1980 [1] 147/2</p> <p>April 1984 [2] 38/25 154/3</p> <p>April 1985 [3] 52/3 52/9 140/7</p> <p>are [93] 4/3 6/5 13/8 13/24 16/5 19/5 19/6 19/6 19/10 19/19 21/9 24/23 25/14 25/14 26/2 26/7 26/18 26/23 29/18 30/1 39/2 39/5 43/23 46/15 47/13 49/23 51/14 54/12 54/24 55/18 59/23 60/7 60/9 60/15 60/23</p>
---	---	--	---	---	--

(45) admission - are

F:

<p>A</p> <p>are... [58] 66/23 66/25 67/14 70/12 76/7 76/18 77/18 77/25 78/6 79/6 79/17 81/10 81/12 81/21 85/5 86/1 86/9 88/12 88/14 94/6 95/18 96/11 97/2 97/13 97/16 98/22 99/21 100/1 109/19 109/22 110/10 113/20 113/25 119/16 125/11 128/1 128/7 129/11 133/5 133/14 133/16 134/18 138/3 138/25 143/21 144/7 145/7 145/8 145/25 146/16 149/21 150/9 150/10 153/2 158/1 160/14 164/21 165/10</p> <p>area [3] 74/25 78/10 97/1</p> <p>areas [1] 2/22</p> <p>arise [1] 38/23</p> <p>arising [2] 33/3 84/19</p> <p>ARMO0000029 [1] 90/10</p> <p>ARMO0000379 [1] 41/10</p> <p>ARMO0000398 [1] 42/9</p> <p>Armour [24] 9/1 9/10 21/6 21/20 36/23 41/11 42/10 42/11 52/5 52/5 52/11 52/12 82/15 90/11 111/20 112/4 115/25 116/16 117/5 125/8 142/17 142/25 143/22 151/8</p> <p>Aronstam [4] 46/1 47/24 50/10 163/14</p> <p>arose [1] 163/9</p> <p>around [20] 1/11 1/12 11/15 24/25 25/1 32/11 33/14 55/12 55/14 65/21 76/22 80/7 99/6 103/23 128/24 130/23 131/13 141/22 144/5 148/22</p> <p>arrange [4] 39/20 42/7 113/18 133/18</p> <p>arranged [4] 32/19 51/5 100/13 157/13</p> <p>arrangement [1] 12/15</p> <p>arrangements [5] 31/24 31/25 95/9 119/17 147/16</p> <p>arrival [2] 96/9 134/24</p> <p>arrived [6] 24/2 24/15 55/20 98/6 107/24</p>	<p>139/11</p> <p>article [5] 84/23 85/5 87/1 163/22 163/25</p> <p>articles [2] 64/8 64/8</p> <p>artificially [1] 99/11</p> <p>as [213]</p> <p>ascertain [1] 78/16</p> <p>aside [2] 2/19 83/4</p> <p>ask [2] 46/18 46/22</p> <p>asked [12] 12/13 38/16 41/1 65/22 93/7 96/7 101/24 104/2 106/13 113/18 128/4 152/20</p> <p>asking [11] 32/18 39/2 41/6 46/9 100/7 121/15 125/21 147/21 156/5 156/23 160/17</p> <p>asks [1] 156/17</p> <p>aspects [1] 106/6</p> <p>assess [1] 43/16</p> <p>assessor [1] 90/12</p> <p>assist [3] 42/23 112/23 146/5</p> <p>assistance [3] 49/2 99/13 100/4</p> <p>assistants [1] 56/5</p> <p>assisted [1] 72/25</p> <p>associate [7] 54/20 54/22 55/9 57/13 62/19 96/20 135/1</p> <p>associated [6] 41/23 45/3 85/3 85/9 86/17 89/7</p> <p>association [3] 105/25 133/17 155/10</p> <p>assume [5] 10/19 23/3 44/18 62/20 139/16</p> <p>assuming [1] 78/15</p> <p>attain [1] 128/11</p> <p>attempted [1] 10/5</p> <p>attempting [2] 128/15 128/18</p> <p>attempts [1] 74/1</p> <p>attend [5] 13/8 22/20 25/13 25/15 146/10</p> <p>attendance [5] 31/21 44/14 83/5 92/18 118/14</p> <p>attended [14] 10/15 10/17 10/18 23/5 31/15 31/17 44/16 65/13 75/14 83/5 89/14 90/7 126/23 139/14</p> <p>attendee [2] 31/18 44/13</p> <p>attender [3] 22/25 62/24 126/18</p> <p>attenders [1] 162/20</p> <p>attending [5] 13/2</p>	<p>22/22 62/25 131/25 133/16</p> <p>attention [3] 72/19 117/14 129/16</p> <p>attitudes [1] 159/20</p> <p>audit [3] 66/12 113/9 114/3</p> <p>August [6] 48/2 48/3 84/23 100/10 147/12 147/20</p> <p>August 1975 [1] 84/23</p> <p>August 1991 [2] 147/12 147/20</p> <p>Australia [1] 92/3</p> <p>author [2] 57/15 76/25</p> <p>authored [2] 88/18 89/6</p> <p>Authority [3] 101/15 101/15 160/22</p> <p>authors [1] 85/5</p> <p>autumn [2] 36/1 95/25</p> <p>availability [4] 61/24 78/6 101/6 101/19</p> <p>available [37] 4/24 5/2 12/11 13/24 38/16 40/23 41/5 46/25 52/21 54/9 55/20 55/23 58/7 58/21 62/4 70/24 72/3 77/13 77/23 79/10 87/25 95/10 95/11 101/3 102/5 107/20 113/1 117/6 117/22 122/20 126/6 130/18 130/19 130/23 131/8 131/13 142/6</p> <p>avoid [2] 103/5 118/25</p> <p>avoided [1] 102/8</p> <p>aware [9] 54/6 63/9 63/10 88/14 91/23 107/14 128/21 128/25 161/3</p> <p>awareness [2] 63/13 138/24</p> <p>away [5] 7/12 15/10 66/25 123/20 144/7</p> <p>AZT [2] 65/11 65/11</p> <p>B</p> <p>back [16] 14/1 37/5 45/9 45/17 47/19 48/19 68/9 77/5 99/25 111/1 112/10 116/5 117/10 155/19 159/14 160/25</p> <p>background [2] 132/24 148/21</p> <p>bad [1] 104/25</p> <p>bag [4] 16/25 78/15 86/7 104/14</p>	<p>bags [4] 16/20 21/14 58/14 78/14</p> <p>bank [3] 46/8 98/17 99/4</p> <p>baptism [1] 129/20</p> <p>Barkhan [6] 1/10 1/11 4/6 10/14 10/17 10/19</p> <p>Barkhan's [2] 1/20 3/9</p> <p>Barnes [3] 45/22 152/23 163/13</p> <p>Barnstable [1] 96/22</p> <p>Barnstaple [2] 55/1 57/21</p> <p>based [7] 32/22 57/7 70/13 101/8 119/5 122/25 141/22</p> <p>basic [1] 113/15</p> <p>basically [1] 78/14</p> <p>Basingstoke [1] 51/10</p> <p>basis [3] 26/1 58/3 126/22</p> <p>batch [61] 41/13 41/25 42/1 42/2 42/6 42/12 42/16 42/20 42/25 43/17 44/5 46/5 46/9 46/14 46/19 47/7 48/1 48/11 48/13 48/15 48/23 48/25 49/5 49/8 49/12 50/6 50/7 50/15 50/21 52/13 52/14 80/22 84/11 84/15 90/1 90/3 90/17 90/17 93/21 94/5 94/7 116/19 152/1 152/10 154/1 154/2 154/5 154/8 154/10 154/12 154/24 155/6 156/2 156/12 157/5 158/8 161/12 162/3 162/17 164/19 164/21</p> <p>batches [3] 85/10 86/18 90/22</p> <p>Bath [9] 55/1 57/21 141/20 141/21 141/22 142/3 146/25 147/20 148/8</p> <p>be [187]</p> <p>bearing [2] 69/2 103/9</p> <p>became [20] 6/18 23/1 52/21 55/9 62/18 70/23 72/3 72/6 72/10 73/19 84/22 85/16 91/5 97/18 104/21 105/23 106/23 107/14 131/8 132/1</p> <p>because [25] 5/8 5/15 11/4 15/17 16/20 21/24 37/10 37/15 37/18 41/2 48/7 49/23 52/14 63/2 63/9 71/21</p>	<p>73/12 80/5 114/1 115/1 126/4 133/12 133/17 144/11 159/3</p> <p>become [5] 46/25 77/11 77/12 92/2 104/25</p> <p>becomes [2] 40/23 156/9</p> <p>becoming [3] 53/22 91/12 91/14</p> <p>bed [1] 118/3</p> <p>beds [1] 55/23</p> <p>been [90] 3/13 4/17 6/11 8/2 11/15 18/6 20/13 21/15 24/2 24/12 24/24 29/14 31/10 38/20 41/16 42/5 42/13 44/14 47/6 48/1 50/7 50/9 50/14 51/13 52/8 52/17 52/20 53/12 54/1 54/5 54/6 54/22 57/4 58/19 58/21 62/23 63/10 63/24 65/22 66/16 69/6 70/13 71/12 72/2 72/9 75/9 75/11 76/5 80/24 83/18 85/22 89/23 90/2 90/16 90/18 91/12 91/24 93/12 93/23 94/5 94/10 94/16 103/24 106/22 107/4 113/10 113/17 113/19 113/24 114/6 114/24 115/17 116/23 116/24 117/2 117/22 121/1 125/17 131/22 139/9 140/8 140/12 147/8 152/17 152/20 153/4 153/15 155/4 157/4 161/21</p> <p>before [15] 16/4 24/2 24/13 49/19 57/12 62/22 77/23 84/24 89/13 91/18 107/24 117/9 129/18 159/15 161/20</p> <p>began [4] 71/5 107/17 126/1 139/6</p> <p>beginning [3] 3/8 131/7 132/2</p> <p>behalf [8] 4/7 10/18 10/23 12/20 31/19 49/17 58/20 75/6</p> <p>behind [1] 22/2</p> <p>being [95] 3/4 7/19 8/6 16/14 20/8 20/16 21/2 22/11 22/11 25/25 26/7 27/17 28/1 28/22 29/4 29/12 29/25 30/2 30/19 31/2 31/5 35/13 36/11 37/1 39/18 45/2 46/15</p>	<p>46/23 48/4 49/5 50/10 54/3 54/6 58/10 59/12 59/16 59/18 60/13 61/9 64/25 66/8 73/13 76/5 82/15 82/19 83/11 84/14 87/21 88/18 94/7 100/24 109/9 111/3 112/4 113/5 113/20 114/6 114/10 114/11 114/14 116/14 119/23 122/11 122/24 124/24 127/17 128/3 128/21 129/4 130/5 130/12 131/9 131/19 135/5 136/20 137/1 137/15 137/22 137/23 138/4 138/14 139/18 144/4 146/1 146/23 147/11 151/17 153/24 155/20 155/23 159/11 161/22 164/11 165/2 165/4</p> <p>belief [1] 128/24</p> <p>believe [3] 53/19 103/16 133/17</p> <p>believes [1] 134/12</p> <p>Bell [9] 40/17 41/7 41/11 42/8 42/11 43/20 47/23 49/17 50/13</p> <p>Bell's [1] 48/4</p> <p>below [1] 58/16</p> <p>benefit [3] 89/10 110/23 118/10</p> <p>benefits [2] 126/5 161/14</p> <p>best [5] 23/12 32/2 41/3 96/9 102/6</p> <p>better [2] 12/11 102/16</p> <p>between [29] 3/23 22/12 27/2 27/13 34/22 47/8 57/24 59/11 60/20 61/14 63/13 65/6 72/11 79/1 80/6 81/19 82/21 85/12 89/18 96/6 105/25 107/25 122/1 122/25 131/23 143/4 144/25 149/1 165/8</p> <p>Biggs [1] 74/13</p> <p>biochemistry [1] 71/7</p> <p>biological [1] 102/9</p> <p>biopsies [1] 63/5</p> <p>biopsy [5] 64/6 67/18 67/19 68/10 68/17</p> <p>birth [1] 116/6</p> <p>Bishop [1] 41/11</p> <p>Bishop's [1] 42/13</p> <p>bit [2] 5/13 5/14</p> <p>blank [1] 20/10</p> <p>bleed [1] 105/10</p>
--	--	--	---	---	---

<p>B</p> <p>bleeding [7] 3/20 13/1 13/19 25/19 119/21 132/10 135/4</p> <p>bleeds [7] 5/7 88/8 98/6 105/12 107/10 118/12 118/25</p> <p>blood [67] 2/1 2/13 2/23 12/18 38/20 39/6 39/9 39/16 39/18 39/21 45/3 46/8 54/15 57/6 57/7 57/25 58/1 58/1 58/5 71/5 76/2 76/8 76/15 77/21 78/18 87/2 87/11 87/11 87/13 96/3 96/12 98/17 99/4 100/5 101/2 101/12 101/12 101/13 101/21 102/7 102/8 102/9 102/11 102/15 102/21 102/21 103/17 103/19 103/21 104/1 104/2 105/4 105/4 105/25 106/8 107/2 115/24 120/3 128/14 128/21 129/23 140/10 149/6 153/21 161/1 162/22 164/7</p> <p>Bloom [5] 10/22 23/4 37/13 106/12 106/15</p> <p>Board [2] 74/14 74/14</p> <p>body [1] 101/16</p> <p>bomb [1] 102/10</p> <p>bookings [1] 133/18</p> <p>borne [1] 62/12</p> <p>Boscombe [2] 74/7 74/24</p> <p>both [27] 5/6 10/1 29/4 29/25 33/7 35/3 36/9 36/10 36/11 36/22 59/17 61/18 69/24 72/17 76/4 78/8 81/6 81/20 82/7 85/15 86/16 125/5 134/21 136/6 137/2 137/20 139/14</p> <p>bottle [1] 79/5</p> <p>bottles [12] 48/2 48/3 58/15 60/24 79/9 90/1 100/2 100/3 100/14 100/15 110/11 111/19</p> <p>bottom [32] 30/6 54/17 56/21 66/15 67/13 77/1 83/16 84/18 86/22 87/20 91/2 91/3 91/11 91/13 93/17 96/18 103/11 105/2 106/10 110/13 127/23 134/11 134/13 139/23 148/9 155/12</p>	<p>155/22 156/24 159/6 160/24 163/17 164/5</p> <p>Bournemouth [43] 46/1 72/20 72/22 72/25 73/7 73/10 73/19 73/20 73/22 74/2 74/8 74/24 75/11 75/18 75/25 76/5 77/5 78/23 79/15 80/10 82/10 82/22 83/3 84/5 84/10 84/22 84/24 85/8 85/12 86/14 88/20 89/2 89/6 90/20 91/2 91/20 92/10 92/11 92/13 93/18 94/5 94/22 94/24</p> <p>Bournemouth's [1] 80/1</p> <p>box [1] 20/14</p> <p>BPL [26] 2/12 20/25 40/18 46/4 46/14 48/13 48/23 50/13 62/1 62/3 62/6 78/24 82/23 89/22 90/5 93/21 120/24 121/2 128/5 128/8 128/11 152/1 152/10 154/1 162/3 164/19</p> <p>BPLL0008111 [5] 4/2 14/7 26/12 79/14 120/7</p> <p>brackets [1] 5/14</p> <p>brand [1] 85/10</p> <p>break [7] 45/7 45/11 89/13 141/13 141/14 141/18 165/14</p> <p>breakdown [2] 34/21 59/11</p> <p>breathlessness [1] 153/5</p> <p>briefly [1] 163/23</p> <p>bring [1] 13/12</p> <p>Bristol [21] 55/1 57/7 57/10 57/22 64/15 64/17 69/25 71/11 98/16 98/19 98/24 99/1 99/18 100/13 108/18 119/15 127/3 127/9 127/19 134/10 142/5</p> <p>British [4] 64/9 77/19 104/6 104/8</p> <p>Britten [1] 96/4</p> <p>broader [3] 56/2 70/15 163/18</p> <p>broadly [1] 136/13</p> <p>broke [1] 129/23</p> <p>brought [1] 85/24</p> <p>BTC [1] 154/6</p> <p>budget [1] 133/23</p> <p>budgetary [1] 68/2</p> <p>build [1] 133/9</p>	<p>built [1] 56/10</p> <p>burst [1] 104/15</p> <p>but [169]</p> <p>by [129] 1/3 1/19 2/1 2/19 4/3 5/3 6/6 6/8 6/13 7/11 8/11 9/13 10/22 10/25 12/7 12/12 15/10 15/11 17/8 17/9 18/6 20/10 20/14 22/15 24/15 28/13 31/14 32/14 39/7 41/7 42/14 43/13 43/14 44/24 44/25 45/15 48/21 50/10 50/25 51/9 54/11 56/3 56/12 57/2 58/9 58/18 58/19 62/12 63/23 64/8 65/1 65/16 66/25 73/1 73/3 73/12 73/21 78/16 80/19 83/11 84/15 85/23 86/10 87/2 87/8 88/14 88/19 89/6 93/6 93/19 94/16 97/12 100/14 100/24 106/3 106/22 108/18 108/24 112/22 113/5 113/20 114/16 114/25 115/12 117/23 118/21 122/3 122/13 123/20 124/14 125/10 125/17 127/18 129/13 130/3 130/24 133/10 133/15 134/18 135/1 136/2 137/11 137/21 138/3 139/8 140/5 141/10 142/4 142/18 142/24 144/7 145/10 146/9 148/10 148/21 148/22 152/22 152/22 153/16 155/20 155/24 157/13 157/24 158/19 161/7 161/15 164/4 164/6 166/2</p> <p>C</p> <p>calculations [1] 16/18</p> <p>call [4] 46/8 98/5 98/7 134/17</p> <p>called [2] 20/23 21/2</p> <p>calls [1] 98/7</p> <p>Cambridge [2] 100/7 100/7</p> <p>came [5] 23/17 70/2 97/1 98/3 131/6</p> <p>camp [1] 133/16</p> <p>can [180]</p> <p>can' [1] 96/9</p> <p>can't [2] 65/25 71/3</p> <p>cannot [9] 101/7 101/13 106/2 106/9 107/18 115/22 120/21 128/11 134/5</p>	<p>capable [2] 158/15 160/7</p> <p>capacity [4] 47/23 91/20 146/11 160/10</p> <p>carcinoma [1] 67/15</p> <p>Cardiff [2] 154/7 154/8</p> <p>care [20] 24/19 55/25 56/10 65/10 70/14 77/9 95/14 106/6 118/9 130/23 131/13 131/17 131/22 132/15 132/21 134/23 135/1 141/9 147/16 147/24</p> <p>career [1] 104/19</p> <p>carried [5] 46/15 88/13 106/3 157/2 157/6</p> <p>carrier [2] 27/6 29/15</p> <p>carries [1] 86/7</p> <p>carry [2] 44/5 86/12</p> <p>case [17] 21/16 30/10 53/14 53/21 54/3 83/10 83/22 87/6 94/19 94/19 102/19 110/18 116/4 116/16 117/23 118/5 157/12</p> <p>cases [13] 3/18 3/18 12/24 72/9 85/13 90/14 90/16 92/9 93/8 94/15 133/21 140/23 148/13</p> <p>cast [4] 11/23 23/11 23/19 44/22</p> <p>casting [1] 146/5</p> <p>casts [2] 69/18 72/16</p> <p>catchment [1] 58/6</p> <p>categories [2] 107/19 151/23</p> <p>cause [2] 37/16 71/22</p> <p>caution [2] 48/9 49/20</p> <p>CBLA000010 [2] 49/18 154/22</p> <p>CBLA0000112 [1] 78/21</p> <p>CBLA0000391 [1] 96/11</p> <p>CBLA0000822 [1] 99/16</p> <p>CBLA0000828 [1] 100/10</p> <p>CBLA0001997 [1] 48/14</p> <p>CBLA0002420 [1] 115/11</p> <p>CBLA000503 [1] 2/5</p> <p>CBLA000566 [1] 89/11</p> <p>CBLA0011568 [1] 40/17</p> <p>ceased [1] 20/25</p> <p>cell [1] 164/1</p>	<p>cells [2] 153/23 163/21</p> <p>cent [1] 17/9</p> <p>centre [216]</p> <p>centre' [1] 96/4</p> <p>centre's [1] 97/14</p> <p>centres [43] 1/4 1/7 2/4 2/13 2/22 3/14 12/2 12/7 17/5 20/20 22/10 23/13 25/5 32/10 42/4 44/2 44/7 45/15 49/16 50/18 51/2 51/8 54/19 54/20 54/21 54/22 56/22 74/4 74/19 75/10 90/17 93/19 94/3 96/20 96/21 96/23 97/4 114/15 118/20 128/13 142/3 152/6 166/2</p> <p>certain [1] 155/15</p> <p>certainly [7] 1/23 6/20 17/25 64/12 97/12 117/1 161/19</p> <p>cessation [1] 136/7</p> <p>cetera [2] 135/10 147/4</p> <p>chain [1] 103/24</p> <p>change [3] 107/3 133/6 136/6</p> <p>changed [2] 6/19 107/1</p> <p>check [5] 30/9 54/4 92/2 110/1 111/9</p> <p>check-up [1] 54/4</p> <p>checked [1] 116/19</p> <p>Cheltenham [1] 57/21</p> <p>Chief [1] 46/8</p> <p>child [4] 70/3 162/8 162/9 162/14</p> <p>children [8] 10/6 25/22 62/7 79/7 104/17 119/23 132/12 160/9</p> <p>Children's [1] 55/1</p> <p>Chisholm [14] 32/15 32/16 36/1 36/16 37/8 37/17 38/2 38/9 44/4 45/24 47/3 48/18 53/4 77/2</p> <p>Chisholm's [3] 37/6 44/12 44/13</p> <p>choice [5] 79/1 101/22 101/25 125/23 126/4</p> <p>choose [1] 101/17</p> <p>Christie [1] 42/10</p> <p>Christmas [2] 14/23 149/13</p> <p>chronic [2] 92/1 139/1</p> <p>circulated [2] 93/6 163/4</p>	<p>circumstances [4] 5/5 31/7 118/5 126/13</p> <p>city [1] 58/5</p> <p>Clark [3] 1/10 1/12 10/18</p> <p>clear [7] 4/15 4/18 38/18 60/2 103/23 104/24 104/25</p> <p>cleared [1] 106/25</p> <p>clearer [1] 129/12</p> <p>climate [1] 134/1</p> <p>clinic [3] 129/22 133/25 135/5</p> <p>clinical [14] 42/10 42/17 43/5 43/8 49/13 56/4 64/4 98/8 131/17 131/19 147/24 156/16 157/18 157/23</p> <p>clinician [2] 1/14 44/19</p> <p>clinicians [5] 6/4 7/2 17/22 89/1 92/18</p> <p>clinics [3] 24/4 56/1 98/1</p> <p>close [2] 57/24 143/4</p> <p>closely [3] 98/19 108/24 161/22</p> <p>co [6] 73/21 89/6 97/17 97/18 118/19 141/25</p> <p>co-authored [1] 89/6</p> <p>co-director [1] 97/18</p> <p>co-directors [2] 97/17 141/25</p> <p>co-operation [1] 118/19</p> <p>coagulation [5] 13/23 66/22 133/10 133/25 134/18</p> <p>cohorts [1] 146/7</p> <p>collaboration [4] 39/20 113/16 135/8 157/13</p> <p>colleague [1] 120/1</p> <p>colleagues [7] 39/20 64/7 104/4 105/18 105/22 106/22 135/8</p> <p>collect [1] 157/19</p> <p>collection [1] 98/22</p> <p>College [3] 24/9 50/11 71/1</p> <p>colloquial [1] 20/22</p> <p>column [4] 85/1 87/21 141/5 164/5</p> <p>combined [1] 81/7</p> <p>come [23] 6/3 21/25 35/24 36/3 39/7 45/9 45/17 47/4 54/25 54/25 88/2 93/3 94/3 95/9 98/8 112/10 131/15 134/6 134/8 141/8 148/18 150/21</p>
--	--	--	--	---	--

<p>C</p> <p>come... [1] 155/19</p> <p>comes [3] 53/2 102/15 129/3</p> <p>coming [6] 2/2 61/1 61/21 63/6 65/9 104/3</p> <p>commencing [1] 125/15</p> <p>comments [2] 70/12 106/21</p> <p>comments/observati ns [1] 70/12</p> <p>commercial [101] 7/14 7/18 7/25 8/1 8/16 8/21 9/15 15/4 15/17 15/23 16/8 16/14 16/23 17/13 18/15 18/16 19/8 19/13 19/22 20/8 21/5 21/9 21/22 22/12 22/13 27/15 27/23 27/25 28/6 28/21 29/12 29/18 30/2 30/19 33/16 34/4 34/5 34/13 35/1 35/12 35/20 36/22 37/9 37/14 37/16 37/19 37/25 52/10 52/19 58/17 59/19 60/18 61/23 62/3 70/6 80/16 81/5 81/11 82/17 84/7 84/11 85/10 85/18 86/8 86/18 87/12 88/1 88/6 88/10 88/22 89/18 90/5 101/3 101/19 103/18 103/19 104/1 104/2 109/9 112/16 122/11 123/1 123/6 123/10 124/24 126/11 136/3 136/7 136/11 136/17 142/10 143/20 144/4 144/9 146/14 149/20 150/7 150/18 151/9 151/17 162/16</p> <p>commercially [1] 103/14</p> <p>Committee [3] 75/22 90/12 95/19</p> <p>common [2] 44/6 142/3</p> <p>communication [1] 140/2</p> <p>communications [7] 10/22 23/4 43/24 44/1 82/21 139/1 139/3</p> <p>companies [1] 103/19</p> <p>comparatively [1] 150/12</p> <p>compared [5] 17/13 20/19 118/14 123/11</p>	<p>138/16</p> <p>comparison [1] 17/8</p> <p>compatible [1] 56/25</p> <p>complaint [1] 131/2</p> <p>complete [7] 36/14 49/11 89/12 138/19 152/4 156/18 160/19</p> <p>completed [12] 4/3 4/6 18/7 20/14 44/7 49/2 58/9 66/14 68/3 68/19 68/24 111/13</p> <p>completely [2] 91/9 91/17</p> <p>completeness [1] 115/11</p> <p>completes [2] 32/9 94/23</p> <p>completion [1] 139/1</p> <p>complicate [1] 71/18</p> <p>complied [1] 114/24</p> <p>comprised [1] 154/6</p> <p>comprising [1] 59/3</p> <p>computer [1] 98/20</p> <p>concentrate [159] 4/13 4/14 4/20 5/2 5/5 5/8 6/5 6/17 7/3 7/13 7/18 7/24 7/25 8/6 8/13 9/7 9/11 9/24 10/6 10/8 14/15 14/17 15/2 15/11 15/22 16/8 16/10 16/14 16/23 17/8 17/13 18/12 19/8 19/13 19/20 20/9 20/13 20/16 21/5 21/19 22/12 26/22 27/14 27/22 28/5 28/13 28/15 29/17 29/24 30/17 31/1 31/2 31/4 31/4 31/9 33/15 34/3 34/5 34/12 34/25 35/1 35/5 35/9 36/9 36/21 36/23 37/9 46/14 52/10 52/11 58/18 59/19 60/7 60/18 61/8 70/5 70/6 76/20 77/19 77/21 78/9 78/24 79/2 79/23 80/15 81/5 81/8 81/10 81/12 81/15 82/15 82/17 85/4 85/11 85/19 86/19 87/23 102/18 107/8 108/11 108/25 109/6 109/9 109/14 109/21 110/9 110/16 110/18 111/14 112/4 112/17 113/13 120/14 120/22 120/25 121/1 121/4 121/7 121/13 121/16 122/8 122/12 122/25 123/18 124/4 124/14 124/20 124/24 127/10 136/2</p>	<p>136/3 136/7 136/12 136/21 136/24 137/20 138/2 138/14 138/16 142/10 142/13 142/18 142/24 143/5 143/12 143/18 144/22 145/1 149/17 149/20 150/16 150/18 151/6 151/14 154/2 155/11 161/13 163/9 163/21</p> <p>concentrate-based [1] 122/25</p> <p>concentrated [2] 5/3 6/13</p> <p>concentrates [120] 1/25 2/9 2/12 7/15 7/19 8/2 8/9 8/10 8/16 8/17 8/21 8/25 9/14 9/15 12/6 12/15 15/4 15/18 15/24 16/24 17/11 17/14 19/22 20/8 21/9 21/12 21/22 26/19 27/15 27/23 27/25 28/4 28/7 28/10 28/19 28/21 29/2 29/12 29/18 30/2 30/19 32/25 33/16 34/4 34/13 35/12 35/19 35/21 37/15 37/16 37/19 37/25 38/18 52/19 59/3 59/16 60/15 61/2 61/12 61/24 61/25 66/22 81/4 81/6 81/19 82/3 82/6 82/20 85/24 86/4 86/9 87/9 87/15 88/6 88/11 88/15 88/22 89/19 102/5 103/15 103/15 107/6 107/13 112/15 121/10 122/14 122/20 123/1 123/5 123/7 123/12 123/23 125/3 125/11 125/22 126/10 126/11 129/1 136/13 136/17 137/9 138/4 143/21 144/2 144/7 144/12 144/24 145/1 145/9 145/17 145/20 145/21 146/15 150/6 150/7 150/25 151/9 151/17 162/16 164/12</p> <p>concern [4] 91/24 104/4 152/9 162/7</p> <p>concerned [5] 1/9 2/8 12/16 13/21 154/14</p> <p>concerning [5] 39/3 74/6 117/18 158/14 160/2</p> <p>concerns [3] 46/4 65/10 115/9</p> <p>condition [3] 43/5</p>	<p>43/8 147/5</p> <p>Conditions' [1] 77/10</p> <p>condom [1] 69/12</p> <p>condoms [1] 130/16</p> <p>confidence [1] 43/12</p> <p>confident [3] 30/10 40/7 48/6</p> <p>confirm [2] 46/18 155/10</p> <p>confirmation [2] 48/24 75/9</p> <p>confirmed [9] 49/1 51/24 52/1 57/20 93/23 148/2 152/17 153/9 155/4</p> <p>confirms [2] 128/1 153/8</p> <p>confronted [1] 129/12</p> <p>congested [1] 97/2</p> <p>cons [1] 159/4</p> <p>consent [1] 65/22</p> <p>consequences [1] 102/10</p> <p>Consequently [1] 71/25</p> <p>consider [3] 113/25 133/6 141/20</p> <p>considerable [7] 21/10 85/25 111/15 117/25 137/15 138/3 144/13</p> <p>considerably [2] 80/3 81/7</p> <p>consideration [1] 88/16</p> <p>considerations [1] 101/20</p> <p>considered [3] 70/8 96/20 126/12</p> <p>consistent [2] 8/24 9/13</p> <p>constant [1] 58/2</p> <p>constantly [1] 101/4</p> <p>constraints [1] 68/3</p> <p>consult [1] 78/4</p> <p>consultant [16] 1/17 32/17 40/18 45/23 47/24 56/16 113/7 115/13 119/10 129/22 132/17 132/18 134/16 134/18 134/21 147/19</p> <p>consultants [2] 22/2 56/4</p> <p>consultation [1] 67/20</p> <p>consuming [1] 97/4</p> <p>contact [1] 157/10</p> <p>contacted [2] 67/4 129/21</p> <p>contain [2] 33/5 43/18</p> <p>contaminated [7] 84/20 94/7 103/25</p>	<p>104/14 157/5 158/9 164/19</p> <p>contamination [3] 50/21 87/7 152/1</p> <p>contemplated [1] 77/25</p> <p>contemporaneous [10] 23/11 44/21 112/23 114/17 139/13 140/5 146/9 148/15 162/4 163/10</p> <p>contender [1] 84/1</p> <p>content [1] 106/18</p> <p>context [1] 132/25</p> <p>continue [3] 37/24 107/13 138/22</p> <p>continued [3] 1/4 22/25 166/3</p> <p>continues [3] 43/14 53/16 97/9</p> <p>continuing [1] 45/13</p> <p>contracted [2] 70/4 85/15</p> <p>contracting [3] 86/5 155/16 157/9</p> <p>contrasted [1] 151/15</p> <p>Contrasting [1] 123/23</p> <p>contrasts [1] 17/21</p> <p>contributed [1] 89/19</p> <p>contributions [1] 146/17</p> <p>control [1] 156/12</p> <p>controlled [1] 98/23</p> <p>convenient [3] 17/24 95/11 141/12</p> <p>conversion [2] 42/17 108/14</p> <p>converted [1] 98/4</p> <p>coordinated [2] 12/7 49/5</p> <p>copied [1] 163/16</p> <p>copies [3] 10/21 62/21 64/12</p> <p>Copplestone [2] 113/7 115/13</p> <p>copy [2] 47/12 114/3</p> <p>corner [1] 86/22</p> <p>Cornwall [7] 56/23 65/6 65/9 71/7 71/21 72/13 72/18</p> <p>correct [1] 111/9</p> <p>correspondence [12] 40/12 41/4 45/5 50/17 50/20 74/5 82/25 82/25 93/24 94/4 126/19 152/4</p> <p>cough [1] 153/6</p> <p>could [34] 4/2 5/3 6/13 24/1 26/6 37/11 37/20 39/14 40/4 42/16 42/22 45/6 62/2</p>	<p>74/15 74/21 79/10 97/3 101/4 101/9 101/25 102/8 103/3 103/4 103/24 104/20 104/25 107/7 121/15 125/25 126/4 126/12 140/13 157/6 165/12</p> <p>council [1] 73/25</p> <p>Counsel [2] 1/3 166/2</p> <p>county [1] 134/8</p> <p>couple [3] 45/6 51/14 73/1</p> <p>course [28] 7/13 12/13 16/6 17/21 18/17 19/8 21/4 29/22 30/3 31/7 32/7 33/2 35/25 43/25 51/22 52/20 53/10 66/5 73/23 82/22 89/2 116/20 116/22 122/15 126/15 134/4 141/6 153/18</p> <p>covering [1] 88/8</p> <p>covers [1] 64/22</p> <p>Craske [21] 23/5 49/6 49/6 49/11 50/9 63/3 84/8 84/12 85/5 89/7 93/6 94/2 152/19 154/23 155/4 155/21 155/24 159/6 160/17 163/1 163/4</p> <p>Craske's [4] 49/13 49/15 159/11 160/23</p> <p>creation [1] 97/11</p> <p>crews [1] 76/7</p> <p>criteria [6] 67/18 68/10 69/1 101/8 114/2 133/11</p> <p>critical [1] 87/14</p> <p>Cross [1] 164/7</p> <p>crossed [3] 4/17 26/18 26/20</p> <p>cryo [15] 4/13 4/14 4/20 5/4 5/6 8/5 17/17 18/8 21/14 26/18 26/19 36/18 61/8 80/14 149/22</p> <p>cryoglobulin [1] 13/19</p> <p>cryoprecipitate [169]</p> <p>curious [2] 63/17 150/8</p> <p>current [2] 43/7 71/4</p> <p>currently [7] 53/11 55/4 66/20 68/1 113/20 154/14 164/16</p> <p>Cutter's [4] 8/14 9/3 136/14 142/9</p> <p>cytotoxic [1] 56/15</p>
<p>D</p> <p>dad [1] 69/21</p>					

<p>D</p> <p>daily [1] 13/12</p> <p>Daly [13] 55/13 55/15 57/23 61/21 63/6 63/18 64/14 64/18 65/4 65/13 68/20 69/20 70/15</p> <p>data [18] 10/25 32/5 32/8 50/24 50/25 51/7 51/9 53/14 58/20 64/25 80/24 94/8 94/9 94/18 114/24 140/16 156/16 164/14</p> <p>database [1] 113/14</p> <p>date [20] 51/20 51/20 52/2 52/7 52/17 55/6 57/4 66/14 66/15 72/3 72/4 72/5 72/8 72/10 74/12 89/22 94/12 94/20 104/5 160/22</p> <p>dated [6] 57/9 69/21 127/4 141/1 154/24 163/12</p> <p>dates [3] 115/2 116/1 116/3</p> <p>David [1] 85/6</p> <p>Davidson [4] 24/23 25/6 26/13 31/15</p> <p>Davies [3] 132/1 132/8 134/23</p> <p>Davies' [1] 132/7</p> <p>Davies's [1] 139/7</p> <p>Davis [2] 148/1 148/2</p> <p>day [9] 25/24 55/25 55/25 56/13 118/2 129/12 132/9 132/9 165/17</p> <p>day-to-day [2] 55/25 132/9</p> <p>daycare [1] 135/7</p> <p>days [3] 71/11 118/4 129/18</p> <p>DDAVP [4] 30/7 102/6 105/10 126/14</p> <p>de [1] 24/17</p> <p>de novo [1] 24/17</p> <p>deal [5] 92/5 101/16 112/18 129/19 133/19</p> <p>dealing [8] 42/11 45/24 55/4 116/12 116/13 118/23 118/24 132/3</p> <p>deals [1] 71/15</p> <p>Dear [1] 50/3</p> <p>December [10] 25/8 26/13 42/3 47/23 69/22 73/3 73/5 75/22 78/22 125/18</p> <p>December 1972 [2] 26/13 78/22</p> <p>December 1977 [1]</p>	<p>73/3</p> <p>December 1980 [1] 73/5</p> <p>December 1984 [1] 42/3</p> <p>decided [1] 158/7</p> <p>deciding [1] 39/23</p> <p>decision [3] 64/5 113/21 125/15</p> <p>decisions [4] 101/8 101/17 101/18 120/24</p> <p>decline [1] 122/18</p> <p>dedicated [3] 120/1 130/18 135/3</p> <p>deep [3] 117/21 118/11 118/18</p> <p>deep-freeze [2] 118/11 118/18</p> <p>definite [1] 46/24</p> <p>definitely [2] 70/5 104/2</p> <p>definitive [1] 69/14</p> <p>degree [2] 158/15 160/6</p> <p>delay [1] 114/13</p> <p>delivered [1] 135/1</p> <p>delivers [1] 2/23</p> <p>delivery [1] 6/18</p> <p>dental [2] 76/18 118/2</p> <p>department [17] 32/16 42/14 71/9 71/20 74/10 74/11 74/17 75/2 75/10 95/15 100/25 106/4 107/12 107/17 131/18 131/20 161/7</p> <p>Department's [1] 102/25</p> <p>depend [3] 26/4 158/6 158/12</p> <p>dependent [1] 92/17</p> <p>depending [1] 131/1</p> <p>depends [1] 160/8</p> <p>Deputy [1] 45/20</p> <p>Derriford [1] 95/17</p> <p>describe [3] 68/9 86/15 149/7</p> <p>described [10] 57/23 63/12 67/19 73/19 86/2 90/24 91/8 91/17 147/5 153/7</p> <p>describes [10] 55/21 55/25 61/21 91/11 91/14 98/2 119/7 119/22 134/23 140/7</p> <p>describing [6] 24/11 53/25 56/8 97/24 121/22 147/10</p> <p>description [6] 9/13 55/19 86/21 129/3 129/5 147/1</p> <p>designated [7] 1/22</p>	<p>3/16 12/2 25/4 65/6 75/12 148/23</p> <p>Designation [1] 54/19</p> <p>desk [1] 129/13</p> <p>despite [1] 114/12</p> <p>detail [5] 2/3 90/25 105/23 114/4 163/25</p> <p>detailed [2] 5/12 86/21</p> <p>details [6] 12/3 25/9 39/15 49/8 57/15 153/1</p> <p>determine [3] 71/23 159/12 162/18</p> <p>deterred [1] 17/25</p> <p>develop [1] 91/25</p> <p>developed [5] 41/19 43/19 90/3 105/17 147/2</p> <p>developing [3] 105/19 112/21 161/16</p> <p>development [1] 6/16</p> <p>developments [1] 104/6</p> <p>develops [1] 157/22</p> <p>devise [1] 155/8</p> <p>Devon [1] 119/5</p> <p>DHSC0002247 [4] 45/19 93/10 152/2 152/12</p> <p>DHSC0002472 [1] 56/18</p> <p>DHSC0004180 [1] 152/24</p> <p>DHSC0014952 [1] 162/1</p> <p>DHSC0100018 [2] 83/7 83/16</p> <p>DHSC0100026 [4] 3/8 12/19 25/7 57/8</p> <p>DHSS [1] 3/10</p> <p>diagnosed [2] 10/7 24/2</p> <p>diagnosis [20] 23/10 23/18 31/25 46/16 66/1 66/9 72/6 93/23 114/14 115/7 129/7 139/10 140/5 140/7 147/10 147/12 148/17 152/17 153/9 155/3</p> <p>dialysis [1] 63/11</p> <p>did [14] 12/5 22/20 24/17 36/17 62/16 62/16 71/22 103/18 104/25 107/12 107/19 134/5 140/12 146/10</p> <p>didn't [3] 51/2 58/22 90/4</p> <p>died [6] 53/18 69/5 88/25 105/13 153/22 154/19</p> <p>difference [3] 61/4</p>	<p>72/7 103/16</p> <p>different [26] 3/1 7/14 9/6 16/8 18/16 19/7 19/12 20/2 20/7 27/10 27/15 27/20 27/23 34/4 35/12 35/20 61/17 72/15 116/9 116/10 122/16 137/8 150/17 150/24 157/3 160/9</p> <p>difficult [6] 60/6 74/23 101/16 120/24 155/15 160/4</p> <p>difficulties [1] 66/2</p> <p>difficulty [4] 26/3 101/5 117/4 121/6</p> <p>digits [3] 145/4 145/5 145/9</p> <p>dilemma [1] 128/25</p> <p>Dilling [10] 73/2 78/23 79/25 83/8 83/11 83/24 85/6 86/14 88/19 88/25</p> <p>direct [5] 13/7 22/15 31/14 98/20 138/24</p> <p>directed [1] 26/7</p> <p>direction [1] 133/7</p> <p>directly [1] 51/3</p> <p>director [44] 1/11 2/18 11/15 11/18 11/19 22/20 23/1 24/24 24/25 32/13 32/19 42/10 45/21 48/22 55/8 55/12 55/13 72/22 73/3 73/9 73/16 73/21 73/23 75/16 76/2 76/24 91/20 96/1 96/3 97/18 99/17 119/6 119/10 126/19 127/19 132/1 132/13 141/21 142/1 146/11 156/18 157/13 157/24 158/6</p> <p>directors [41] 1/9 4/4 11/12 22/17 24/22 37/11 37/21 38/15 39/3 39/17 54/13 54/15 54/15 55/5 63/19 73/8 73/15 75/15 84/3 89/15 90/8 93/7 93/19 96/12 96/15 97/14 97/17 125/18 126/24 127/7 127/17 141/25 148/19 156/6 156/23 157/11 159/12 160/17 162/23 162/24 163/7</p> <p>disadvantage [1] 102/17</p> <p>discern [2] 60/6 61/17</p> <p>discovery [1] 116/14</p> <p>discrete [3] 51/11</p>	<p>152/21 152/22</p> <p>discretion [2] 46/22 158/5</p> <p>discuss [3] 105/18 106/5 158/17</p> <p>discussed [4] 23/8 127/1 158/1 161/9</p> <p>discussing [1] 101/11</p> <p>discussion [16] 37/22 38/4 63/4 84/18 86/23 87/19 89/5 89/16 89/17 96/17 97/9 105/22 146/14 155/14 163/5 163/9</p> <p>discussions [6] 12/3 63/2 97/10 101/14 106/7 106/9</p> <p>disease [22] 8/23 14/23 24/18 30/16 33/19 34/18 63/14 63/20 63/24 64/5 67/20 68/15 69/5 92/1 103/3 128/22 135/17 149/12 149/13 150/12 155/9 163/6</p> <p>disorders [5] 119/21 120/4 132/11 134/18 135/4</p> <p>display [4] 48/7 95/10 112/10 119/12</p> <p>dissimilar [3] 15/9 20/6 43/25</p> <p>distance [2] 13/9 25/14</p> <p>distances [2] 97/3 134/6</p> <p>distinguish [1] 27/13</p> <p>distribute [1] 2/21</p> <p>distributed [5] 2/12 12/7 42/3 60/20 61/14 154/11</p> <p>District [1] 95/15</p> <p>diverse [1] 7/17</p> <p>do [38] 4/8 6/5 6/20 14/10 22/19 26/14 38/21 38/23 41/3 45/6 45/8 47/15 49/22 68/10 69/9 70/10 70/11 83/11 97/20 100/24 100/25 101/11 101/22 101/24 101/24 103/20 106/14 106/16 107/1 107/16 121/19 130/7 133/23 138/21 140/6 156/23 161/16 165/1</p> <p>doctor [3] 12/13 22/19 56/4</p> <p>doctors [3] 22/17 90/19 96/23</p> <p>document [18] 53/2</p>	<p>58/24 63/16 63/17 66/10 73/4 76/13 77/8 78/3 80/20 89/25 95/8 97/14 98/13 115/8 117/12 141/1 163/10</p> <p>documentation [13] 44/21 66/3 83/23 92/15 112/23 114/17 131/11 139/13 146/10 146/19 148/16 162/5 162/17</p> <p>documents [13] 23/11 45/17 47/5 51/14 73/13 75/5 75/14 78/17 119/16 120/5 121/19 149/9 165/10</p> <p>does [8] 9/12 46/25 62/23 133/18 134/12 159/22 159/24 163/21</p> <p>doesn't [15] 17/25 21/25 40/5 40/6 62/12 65/21 67/4 68/12 68/15 73/11 112/5 141/6 162/18 163/20 165/4</p> <p>doing [2] 76/7 76/18</p> <p>dominant [2] 82/17 123/10</p> <p>dominated [1] 28/13</p> <p>dominates [1] 15/21</p> <p>dominating [1] 136/17</p> <p>don't [54] 5/17 8/15 9/23 11/21 21/23 21/25 23/11 27/13 32/7 34/7 40/10 41/4 41/6 43/20 47/13 48/7 49/24 50/23 51/11 53/23 55/16 58/25 59/8 61/16 64/10 65/18 66/6 68/19 70/6 71/13 75/13 80/22 94/13 94/21 108/18 111/12 112/8 112/9 114/3 119/12 125/18 127/5 130/11 136/5 140/22 146/3 146/16 147/7 148/15 149/18 160/15 161/24 165/9 165/10</p> <p>donation [9] 50/20 93/11 151/25 153/1 153/10 153/11 153/11 153/13 161/2</p> <p>donations [6] 86/7 87/5 87/10 87/12 153/21 154/3</p> <p>done [8] 6/15 16/17 18/6 21/15 71/21 72/15 78/1 129/17</p> <p>donor [15] 41/16 41/20 41/21 43/19</p>
--	--	--	---	---	---

<p>D</p> <p>donor... [11] 87/8 93/12 93/13 98/22 102/15 103/5 103/22 104/15 153/2 153/16 154/19</p> <p>donor's [1] 155/3</p> <p>donors [12] 13/20 46/11 71/5 76/8 86/11 87/17 87/23 103/17 103/17 103/23 152/9 153/14</p> <p>Dorchester [3] 46/3 55/2 154/13</p> <p>dose [5] 42/25 52/2 52/2 52/7 79/9</p> <p>doses [1] 76/19</p> <p>double [4] 30/9 108/15 109/7 116/18</p> <p>doubt [4] 3/3 62/22 65/7 86/13</p> <p>down [15] 13/4 20/11 25/18 26/23 30/24 47/10 58/4 68/22 72/21 76/16 108/19 114/23 122/19 156/21 158/4</p> <p>Dr [321]</p> <p>Dr Aronstam [4] 46/1 47/24 50/10 163/14</p> <p>Dr Barkhan [5] 1/11 4/6 10/14 10/17 10/19</p> <p>Dr Barkhan's [2] 1/20 3/9</p> <p>Dr Barnes [3] 45/22 152/23 163/13</p> <p>Dr Bell [9] 40/17 41/7 41/11 42/8 42/11 43/20 47/23 49/17 50/13</p> <p>Dr Bell's [1] 48/4</p> <p>Dr Biggs [1] 74/13</p> <p>Dr Chisholm [12] 32/16 36/1 36/16 37/8 37/17 38/2 38/9 44/4 47/3 48/18 53/4 77/2</p> <p>Dr Chisholm's [3] 37/6 44/12 44/13</p> <p>Dr Christie [1] 42/10</p> <p>Dr Clark [3] 1/10 1/12 10/18</p> <p>Dr Copplesstone [2] 113/7 115/13</p> <p>Dr Craske [19] 23/5 49/6 49/11 63/3 84/8 84/12 85/5 89/7 93/6 94/2 152/19 154/23 155/4 155/21 155/24 159/6 160/17 163/1 163/4</p> <p>Dr Craske's [3] 49/15</p>	<p>159/11 160/23</p> <p>Dr Daly [12] 55/15 57/23 61/21 63/6 63/18 64/14 64/18 65/4 65/13 68/20 69/20 70/15</p> <p>Dr David Stern [1] 85/6</p> <p>Dr Davies [1] 132/8</p> <p>Dr Davies' [1] 132/7</p> <p>Dr Davies's [1] 139/7</p> <p>Dr Davis [2] 148/1 148/2</p> <p>Dr Dilling [8] 78/23 79/25 83/8 83/11 83/24 86/14 88/19 88/25</p> <p>Dr Edgcumbe [13] 96/19 119/6 119/7 119/24 120/9 120/18 121/14 126/17 126/23 127/3 127/15 128/25 129/14</p> <p>Dr Elizabeth [2] 132/8 135/2</p> <p>Dr Fraser [2] 127/21 127/24</p> <p>Dr Gilliver [1] 46/3</p> <p>Dr Graham [1] 141/24</p> <p>Dr Green [8] 46/2 73/3 73/5 73/10 89/21 90/7 90/20 91/19</p> <p>Dr Greenburgh [2] 97/13 97/15</p> <p>Dr Hamblin [1] 73/9</p> <p>Dr Helena Daly [1] 55/13</p> <p>Dr Holman [8] 11/14 12/5 14/3 14/8 22/19 22/24 141/21 146/10</p> <p>Dr Holman's [2] 12/20 14/6</p> <p>Dr Ingram [1] 89/19</p> <p>Dr J Graham Smith [1] 147/19</p> <p>Dr John [2] 49/5 50/9</p> <p>Dr John Leslie [1] 32/14</p> <p>Dr Johnson [1] 131/23</p> <p>Dr Joyner [1] 120/1</p> <p>Dr Kemp [2] 11/16 23/5</p> <p>Dr Kemp's [1] 11/16</p> <p>Dr Kernoff [1] 64/8</p> <p>Dr Kirk [4] 44/4 63/2 89/7 99/9</p> <p>Dr Kuttner [2] 74/5 76/1</p> <p>Dr Lee [9] 119/7 119/9 119/12 125/14 125/24 128/19 129/6 130/17</p>	<p>132/18</p> <p>Dr Lee's [4] 119/19 129/4 131/3 131/8</p> <p>Dr Leslie [1] 44/12</p> <p>Dr Leslie's [1] 76/4</p> <p>Dr MacAndrew [1] 46/4</p> <p>Dr Mark Winter [1] 1/15</p> <p>Dr Mavor [1] 46/3</p> <p>Dr Maycock [9] 4/4 57/14 78/23 89/22 89/24 90/4 100/9 120/18 121/15</p> <p>Dr Maycock's [4] 14/7 26/11 79/13 120/8</p> <p>Dr Mibashan [3] 24/25 31/18 31/21</p> <p>Dr Mills [1] 96/19</p> <p>Dr Morag Chisholm [1] 32/15</p> <p>Dr Murrell [8] 55/7 55/11 58/9 58/19 58/20 61/22 62/1 62/16</p> <p>Dr Murrell's [1] 64/11</p> <p>Dr Nancy [1] 73/2</p> <p>Dr Nancy Dilling [1] 85/6</p> <p>Dr Obank [2] 3/10 25/6</p> <p>Dr Obank's [1] 12/21</p> <p>Dr Oscier [6] 46/1 73/12 73/22 92/21 92/25 93/18</p> <p>Dr Parry [9] 148/20 148/22 152/7 152/16 154/25 160/25 162/20 163/16 164/11</p> <p>Dr Percy [1] 1/10</p> <p>Dr Phillips [3] 131/23 132/17 139/14</p> <p>Dr Phillips' [1] 131/23</p> <p>Dr Pinkerton [5] 148/20 148/20 162/20 162/21 163/7</p> <p>Dr Prentice [7] 97/18 97/21 100/21 103/8 106/13 107/24 112/20</p> <p>Dr Prentice's [5] 97/24 100/19 107/21 114/18 115/6</p> <p>Dr Rizza [7] 10/23 23/5 38/12 54/21 106/12 106/15 115/14</p> <p>Dr Rizza's [1] 38/24</p> <p>Dr Rogers [1] 2/17</p> <p>Dr Scott [3] 127/18 127/25 128/3</p> <p>Dr Simon Davies [1] 132/1</p> <p>Dr Smith [6] 46/25</p>	<p>48/22 76/2 76/5 76/23 142/1</p> <p>Dr Snape [10] 40/18 41/6 48/14 49/18 50/3 50/13 82/22 93/25 125/21 152/19</p> <p>Dr Snape's [1] 93/25</p> <p>Dr Stafford [4] 97/13 97/19 99/9 99/17</p> <p>Dr Stafford's [1] 100/11</p> <p>Dr Stern [12] 72/23 74/12 74/16 75/14 75/24 76/17 77/4 83/5 86/14 88/19 88/24 89/14</p> <p>Dr Stern's [2] 76/4 89/21</p> <p>Dr Steven [1] 113/16</p> <p>Dr Tedder [2] 71/1 71/12</p> <p>Dr Thomas [1] 141/24</p> <p>Dr Thompson [3] 139/13 139/22 140/8</p> <p>Dr Tillyer [5] 11/18 21/24 23/17 24/13 24/15</p> <p>Dr Tillyer's [1] 23/25</p> <p>Dr Tovey [2] 99/17 100/9</p> <p>Dr Wassef [1] 139/22</p> <p>Dr Whitmore [4] 11/15 11/16 22/22 118/22</p> <p>Dr Winter [2] 9/14 10/17</p> <p>Dr Winter's [3] 3/3 10/3 22/18</p> <p>Dr Worsley [1] 73/21</p> <p>draw [2] 58/24 116/15 drawing [2] 72/19 117/13</p> <p>drawn [1] 113/1</p> <p>dried [14] 4/13 14/15 14/17 26/22 77/21 79/2 79/2 79/11 79/23 85/11 85/24 87/22 99/22 120/14</p> <p>drip [1] 6/6</p> <p>drop [1] 109/11</p> <p>dropping [1] 112/13</p> <p>due [4] 63/14 70/21 73/23 147/14</p> <p>duly [1] 32/19</p> <p>during [19] 6/11 10/15 11/13 12/25 14/22 18/24 22/19 25/21 33/9 58/11 81/25 82/14 99/11 111/13 118/9 118/11 135/23 142/8 150/1</p> <p>duty [1] 41/24</p>	<p>E</p> <p>each [9] 3/1 78/15 86/6 102/19 145/24 156/11 156/18 157/6 157/7</p> <p>earlier [8] 25/3 78/22 93/14 94/1 114/24 139/17 152/3 152/14</p> <p>early [21] 6/4 7/2 11/25 63/9 64/13 71/11 74/1 95/21 97/25 104/19 116/22 116/23 119/3 119/20 120/5 122/12 126/16 131/7 139/7 153/16 164/12</p> <p>easier [2] 6/18 77/11</p> <p>easily [3] 6/17 79/3 79/4</p> <p>East [1] 2/10</p> <p>easy [2] 63/25 134/2</p> <p>Edgcumbe [13] 96/19 119/6 119/7 119/24 120/9 120/18 121/14 126/17 126/23 127/3 127/15 128/25 129/14</p> <p>Edinburgh [4] 31/2 31/9 63/10 113/19</p> <p>effect [2] 17/23 163/20</p> <p>effective [3] 74/18 129/2 129/3</p> <p>effectively [4] 1/19 3/5 49/3 132/9</p> <p>effectiveness [1] 43/17</p> <p>effort [1] 158/16</p> <p>efforts [1] 26/7</p> <p>eight [12] 3/24 27/3 32/6 47/5 50/6 50/9 50/14 55/22 94/10 107/25 154/15 154/15</p> <p>eighteen [1] 85/18</p> <p>eighties [3] 11/14 63/8 134/20</p> <p>either [6] 22/23 46/25 66/17 90/5 129/1 133/15</p> <p>elected [1] 130/1</p> <p>electing [1] 5/6</p> <p>elective [2] 5/8 121/2</p> <p>elements [1] 134/25</p> <p>elevations [1] 64/1</p> <p>eligible [3] 38/21 68/2 114/1</p> <p>Elizabeth [3] 132/8 133/8 135/2</p> <p>else [3] 43/20 116/8 116/13</p> <p>elsewhere [3] 45/2 53/13 83/1</p>	<p>Elstree [3] 2/9 21/1 120/18</p> <p>emanating [1] 161/23</p> <p>emerge [1] 9/12</p> <p>emerged [2] 22/9 38/3</p> <p>emergencies [3] 2/20 121/3 121/11</p> <p>emergency [2] 58/3 134/17</p> <p>emerges [2] 14/18 61/18</p> <p>emerging [5] 15/9 20/2 27/20 41/10 70/20</p> <p>emphasis [1] 161/14</p> <p>emphasised [1] 96/23</p> <p>emphatic [1] 18/23</p> <p>enable [1] 162/18</p> <p>enabled [1] 118/2</p> <p>enables [1] 61/17</p> <p>enclose [1] 113/9</p> <p>enclosed [1] 129/14</p> <p>encloses [2] 83/15 90/13</p> <p>enclosing [2] 40/19 93/1</p> <p>encompasses [1] 57/18</p> <p>encourage [1] 158/17</p> <p>encouraged [2] 13/8 37/23</p> <p>end [8] 12/23 13/5 13/5 14/9 26/7 64/2 68/5 158/2</p> <p>England [2] 104/7 117/10</p> <p>enormous [1] 26/5</p> <p>enough [3] 3/5 120/22 127/12</p> <p>enquiries [2] 106/2 161/19</p> <p>entails [1] 120/23</p> <p>entirely [3] 38/18 59/24 92/13</p> <p>entitled [1] 89/7</p> <p>entries [1] 19/3</p> <p>entry [7] 20/9 33/19 38/21 68/2 110/15 110/17 140/18</p> <p>epidemic [1] 84/9</p> <p>epidemiological [1] 155/5</p> <p>episodes [2] 13/19 84/16</p> <p>equal [1] 8/6</p> <p>equipped [1] 55/22</p> <p>era [1] 119/9</p> <p>erring [1] 48/9</p> <p>erroneous [1] 89/23</p> <p>error [1] 39/25</p> <p>especially [3] 62/7 133/7 134/6</p>
--	---	--	---	---	---

(50) donor... - especially

<p>E</p> <p>essentially [2] 60/24 122/25</p> <p>establish [2] 74/2 121/16</p> <p>established [7] 54/22 62/11 74/20 98/9 105/19 120/1 123/3</p> <p>establishing [1] 74/7</p> <p>establishment [2] 57/12 72/24</p> <p>estimate [1] 76/14</p> <p>estimates [2] 4/20 26/23</p> <p>et [2] 135/10 147/4</p> <p>et cetera [2] 135/10 147/4</p> <p>etc [1] 43/9</p> <p>ethical [3] 157/25 159/1 159/10</p> <p>evaluate [1] 38/17</p> <p>evaluation [1] 67/7</p> <p>even [9] 18/23 49/9 51/3 58/4 101/25 103/24 111/12 123/16 133/6</p> <p>event [16] 5/22 16/21 21/16 53/15 60/8 66/4 96/16 110/2 110/11 111/8 111/10 111/19 112/10 122/7 150/10 160/13</p> <p>Every [1] 158/16</p> <p>evidence [30] 1/13 3/4 10/3 17/22 22/15 23/13 24/10 31/15 44/23 47/4 53/25 62/5 64/4 65/8 66/7 69/13 70/20 83/19 95/12 107/2 114/9 121/22 132/19 135/7 139/6 139/18 147/9 153/18 153/19 165/1</p> <p>evolving [1] 107/3</p> <p>exactly [1] 57/2</p> <p>examination [2] 139/24 157/20</p> <p>examined [1] 157/21</p> <p>example [11] 11/17 19/7 21/6 44/3 54/5 75/6 80/19 123/3 126/20 139/3 146/12</p> <p>examples [1] 44/9</p> <p>excellent [1] 135/7</p> <p>except [1] 137/6</p> <p>exception [2] 7/16 28/21</p> <p>excess [1] 99/22</p> <p>exchange [2] 40/11 56/14</p> <p>exclude [1] 156/9</p>	<p>exclusively [3] 149/10 149/15 150/3</p> <p>Executive [2] 75/22 95/19</p> <p>exerted [1] 41/20</p> <p>Exeter [17] 57/18 96/6 97/3 119/4 119/4 119/5 119/14 120/10 121/20 121/22 129/11 130/10 130/23 131/6 132/18 134/9 134/16</p> <p>existing [1] 5/5</p> <p>expect [4] 68/14 92/18 117/4 160/11</p> <p>expected [2] 21/1 86/11</p> <p>experienced [2] 88/14 135/6</p> <p>expertise [2] 1/18 1/20</p> <p>explain [2] 68/16 119/25</p> <p>explained [4] 20/10 63/8 114/24 126/9</p> <p>explaining [5] 43/15 47/25 54/5 79/25 152/15</p> <p>explains [12] 2/11 24/3 25/7 48/20 69/23 93/21 130/17 139/7 147/13 153/2 155/5 156/14</p> <p>explanation [1] 79/12</p> <p>exploration [1] 12/8</p> <p>explore [1] 2/3</p> <p>explored [1] 64/16</p> <p>expose [1] 129/1</p> <p>exposed [5] 38/20 50/6 50/14 104/13 158/23</p> <p>exposes [1] 86/4</p> <p>exposure [2] 62/8 157/22</p> <p>expressed [4] 38/9 83/11 83/17 150/9</p> <p>expressing [2] 5/23 12/10</p> <p>extensively [2] 18/13 21/17</p> <p>extent [30] 8/21 9/2 18/21 21/10 21/20 21/21 21/21 22/17 27/14 28/9 28/20 28/24 29/19 34/1 36/5 37/1 59/13 60/14 60/19 111/15 112/6 125/1 125/12 137/12 137/15 138/15 144/13 145/14 145/16 148/14</p> <p>extolling [1] 7/2</p> <p>extra [1] 145/5</p> <p>extract [2] 56/18</p>	<p>118/21</p> <p>extraction [2] 118/3 118/9</p> <p>extracts [1] 97/22</p> <p>extremely [4] 42/22 93/22 133/6 133/9</p> <p>F</p> <p>face [5] 52/18 107/4 115/8 115/8 158/18</p> <p>face-to-face [1] 115/8</p> <p>facilities [6] 55/19 56/17 97/23 98/2 119/19 134/21</p> <p>fact [14] 4/10 20/10 62/16 66/4 80/4 88/21 96/24 109/23 111/4 114/12 123/16 133/7 143/4 144/10</p> <p>factor [77] 5/25 10/8 20/9 20/12 30/25 37/9 38/11 38/16 38/17 39/4 41/18 43/18 46/5 46/10 48/15 50/6 50/12 52/2 52/3 52/8 58/15 61/23 66/22 70/4 77/19 77/20 78/12 78/24 84/7 84/11 85/4 85/11 85/18 85/24 86/4 86/9 86/19 87/9 87/15 87/22 88/6 90/2 101/5 102/4 102/18 103/14 103/15 105/5 105/8 105/12 107/6 107/13 107/18 108/6 109/4 109/14 110/16 113/13 116/20 122/8 127/10 127/23 128/2 128/5 128/8 128/12 130/5 133/20 135/19 149/17 149/23 155/11 156/2 157/5 158/8 161/13 161/15</p> <p>Factor IX [4] 122/8 135/19 149/17 149/23</p> <p>factor VIII [44] 5/25 20/9 37/9 38/11 38/16 38/17 39/4 43/18 46/5 46/10 48/15 50/6 50/12 52/2 52/3 52/8 58/15 77/19 77/20 78/12 78/24 84/7 84/11 86/19 88/6 90/2 101/5 102/18 105/8 105/12 108/6 109/4 110/16 116/20 127/10 128/2 128/5 128/8 128/12 130/5 133/20 156/2 157/5 161/15</p> <p>factor-VIII [9] 85/4 85/11 85/18 85/24</p>	<p>86/4 86/9 87/9 87/15 87/22</p> <p>Factorate [51] 7/15 9/1 10/1 15/25 17/12 18/17 18/19 19/23 19/25 27/16 27/25 28/8 28/22 29/3 29/19 30/3 30/20 33/17 34/5 34/14 35/3 35/14 35/22 36/10 36/11 36/23 41/13 41/18 42/25 81/6 81/10 81/15 82/8 82/19 90/15 90/17 90/21 111/21 112/5 124/25 125/8 137/14 137/22 142/16 143/1 143/5 143/10 150/7 150/18 151/2 151/15</p> <p>factors [2] 158/13 160/1</p> <p>facts [1] 155/17</p> <p>failed [1] 68/6</p> <p>faint [2] 59/22 83/7</p> <p>fair [1] 10/15</p> <p>fairly [18] 8/23 11/12 15/13 16/4 25/22 29/17 30/9 40/7 44/12 48/6 59/22 63/1 104/22 137/15 142/11 143/11 144/13 144/24</p> <p>families [3] 114/9 121/8 121/17</p> <p>family [6] 22/5 23/15 32/4 44/25 65/8 159/8</p> <p>far [13] 7/11 13/14 13/21 15/10 24/1 55/11 66/25 84/13 113/17 120/24 123/20 144/7 161/15</p> <p>fascinating [1] 17/16</p> <p>fatal [2] 104/20 107/11</p> <p>favour [1] 109/2</p> <p>feature [4] 6/2 6/22 88/23 110/19</p> <p>features [4] 138/6 144/21 156/17 157/23</p> <p>featuring [1] 17/2</p> <p>February [11] 51/20 76/13 76/25 90/13 119/9 125/16 125/20 130/4 148/22 153/12 163/24</p> <p>February 1976 [1] 76/13</p> <p>February 1983 [1] 153/12</p> <p>February 1984 [1] 148/22</p> <p>February 1985 [4] 119/9 125/16 125/20</p>	<p>130/4</p> <p>feel [2] 134/10 161/10</p> <p>felt [2] 37/13 129/18</p> <p>few [5] 42/3 98/1 113/25 132/19 165/10</p> <p>figure [6] 16/20 51/11 122/6 136/23 140/19 144/10</p> <p>figures [19] 7/11 7/23 14/24 18/14 18/18 20/18 21/14 53/23 58/23 60/2 60/6 60/23 109/19 110/9 110/10 125/4 140/16 141/4 164/13</p> <p>file [1] 129/13</p> <p>files [1] 32/11</p> <p>fill [2] 114/4 160/17</p> <p>filled [4] 4/10 66/16 79/13 110/15</p> <p>final [1] 137/24</p> <p>finally [2] 91/18 138/8</p> <p>financial [2] 101/20 134/1</p> <p>find [7] 6/21 63/23 79/14 101/5 115/22 121/7 133/5</p> <p>finish [2] 92/11 92/13</p> <p>Finnish [2] 163/19 164/7</p> <p>fire [1] 129/20</p> <p>first [42] 1/13 2/11 3/12 7/20 10/4 16/3 24/6 30/8 40/1 44/14 48/16 48/19 51/15 51/21 52/2 52/7 58/7 65/16 70/10 71/2 72/12 78/3 84/13 85/14 85/21 105/23 116/12 126/25 127/5 128/22 129/12 148/19 149/7 149/20 153/18 155/3 155/25 156/16 158/22 161/1 161/11 162/7</p> <p>fit [2] 91/9 91/17</p> <p>five [12] 90/14 90/14 90/16 92/12 94/11 95/2 108/2 135/15 138/18 149/25 154/16 160/16</p> <p>fixed [1] 74/12</p> <p>flavour [1] 134/19</p> <p>flourishing [1] 133/10</p> <p>focusing [1] 159/3</p> <p>follow [21] 24/4 43/9 45/14 48/12 48/15 49/4 49/13 50/5 93/11 93/16 94/1 148/4 152/13 155/6 156/4 156/6 156/19 157/2 157/12 157/12 158/1</p>	<p>follow-up [13] 24/4 48/15 49/4 49/13 50/5 148/4 152/13 155/6 156/19 157/2 157/12 157/12 158/1</p> <p>followed [16] 3/22 15/11 36/19 38/3 42/16 50/10 89/3 108/24 122/13 124/14 125/10 136/2 137/11 137/21 142/18 142/24</p> <p>following [24] 19/9 26/25 27/2 40/11 40/15 42/9 42/23 48/24 70/12 80/22 84/6 88/3 91/1 104/12 105/16 108/1 115/24 137/5 142/14 154/18 155/16 160/16 162/2 165/17</p> <p>follows [5] 37/7 67/19 70/17 98/2 134/24</p> <p>foregoing [1] 155/14</p> <p>form [15] 5/3 52/18 60/15 66/11 66/14 66/15 67/3 67/6 68/21 70/22 83/15 93/2 93/6 111/14 122/21</p> <p>formal [2] 57/13 97/11</p> <p>formally [2] 75/16 131/20</p> <p>forms [12] 4/3 16/4 44/7 90/14 90/24 122/3 126/20 156/15 156/15 156/17 160/15 160/17</p> <p>formulated [1] 100/24</p> <p>fortunately [3] 42/1 104/18 106/25</p> <p>forward [1] 28/16</p> <p>forwarded [1] 71/12</p> <p>found [7] 11/9 44/5 115/9 115/17 140/10 147/17 147/24</p> <p>four [27] 3/25 7/14 11/1 18/16 27/15 34/4 35/12 65/1 77/2 80/12 81/2 85/10 85/13 86/18 109/4 110/25 115/4 140/23 141/15 149/1 149/3 154/12 156/7 156/22 157/7 157/18 164/6</p> <p>fourth [2] 76/15 127/6</p> <p>fractionation [1] 128/15</p> <p>Fraser [2] 127/21 127/24</p> <p>freeze [17] 4/13 14/15 14/17 26/22 77/21 79/2 79/2 79/10 79/23 85/11 85/24 87/22</p>
--	--	--	---	---	---

(51) essentially - freeze

F:

<p>F</p> <p>freeze... [5] 99/22 117/21 118/11 118/18 120/14</p> <p>freeze-dried [9] 4/13 14/15 14/17 26/22 79/23 85/11 85/24 99/22 120/14</p> <p>frequency [2] 87/12 88/4</p> <p>frequently [2] 16/4 106/5</p> <p>fresh [3] 26/4 77/18 128/14</p> <p>from [240]</p> <p>from 1976 [1] 12/14</p> <p>frozen [2] 26/5 77/19</p> <p>full [2] 27/24 28/20</p> <p>fully [2] 67/21 68/15</p> <p>function [14] 24/4 67/8 70/16 70/19 70/20 71/6 91/6 91/13 91/15 92/1 92/3 113/18 131/4 147/14</p> <p>fund [1] 103/22</p> <p>funded [1] 56/12</p> <p>funds [1] 56/12</p> <p>further [37] 6/15 13/4 20/11 25/13 26/23 30/24 37/18 41/9 42/8 42/13 45/17 46/7 48/3 50/19 53/17 56/7 66/10 68/22 69/18 69/19 71/18 72/16 78/5 87/19 89/5 90/9 115/16 117/16 131/12 133/2 140/21 151/8 154/17 156/8 156/21 158/4 161/19</p> <p>furthest [1] 58/5</p> <p>future [3] 65/24 71/25 76/15</p>	<p>genotype [1] 69/2</p> <p>gently [1] 129/23</p> <p>Geoffrey [1] 127/8</p> <p>George's [4] 2/24 26/8 95/25 96/1</p> <p>get [13] 33/7 33/23 37/20 39/22 101/4 105/12 106/17 109/2 123/9 127/11 133/23 135/22 142/14</p> <p>getting [3] 37/19 106/16 113/10</p> <p>Gilliver [1] 46/3</p> <p>girlfriend [1] 53/18</p> <p>give [13] 3/14 3/23 4/19 25/9 32/10 49/10 51/14 94/14 101/25 102/7 109/18 130/7 159/18</p> <p>given [25] 5/11 9/13 16/20 21/14 26/20 27/17 45/2 50/2 52/7 52/15 52/17 55/19 58/13 60/23 68/7 79/22 91/4 109/24 116/3 118/13 125/17 128/4 135/18 139/18 155/20</p> <p>gives [11] 53/1 57/15 66/17 75/23 94/17 113/3 114/5 134/19 137/17 141/4 143/24</p> <p>giving [9] 41/20 79/12 88/16 101/22 115/5 128/7 140/23 148/13 154/17</p> <p>Glasgow [1] 104/17</p> <p>Gloucester [1] 57/20</p> <p>go [117] 2/5 2/14 4/5 4/22 7/10 7/21 8/4 8/19 12/3 14/1 14/21 15/18 16/3 16/11 18/3 18/18 19/2 19/10 20/5 22/7 25/18 26/11 27/9 28/25 30/12 33/6 33/22 34/7 37/23 38/24 48/19 51/17 54/17 56/20 61/4 69/4 71/15 74/3 75/4 75/13 75/22 77/5 78/21 80/25 80/25 83/23 84/2 84/25 86/15 86/20 86/20 86/21 87/18 87/20 89/9 90/23 90/25 92/14 93/10 94/14 95/18 95/20 96/13 96/16 97/5 99/16 100/19 102/2 102/22 103/11 108/21 109/23 110/2 111/1 111/4 111/22 114/22 116/5 117/10</p>	<p>120/16 130/8 130/11 133/2 133/21 134/5 136/9 138/20 139/22 140/17 140/21 140/24 142/21 144/6 144/20 147/18 148/7 148/8 152/24 154/22 155/2 155/12 155/22 156/14 156/21 156/24 159/1 159/2 159/5 159/14 160/14 160/15 160/20 160/25 161/7 163/15 163/24 164/5</p> <p>goes [9] 4/19 45/25 70/15 92/5 119/25 128/17 130/3 133/19 158/24</p> <p>going [26] 1/6 2/12 11/11 23/13 32/11 41/15 45/13 49/20 49/21 49/22 53/13 54/9 68/9 71/23 72/20 89/9 89/24 94/2 95/7 131/15 132/23 149/6 152/18 159/2 159/18 165/4</p> <p>gone [2] 20/11 109/12</p> <p>Good [1] 1/6</p> <p>got [18] 18/7 18/16 19/3 28/22 34/21 59/11 109/3 111/23 112/1 112/3 115/3 116/11 121/18 121/21 143/9 146/22 150/22 152/12</p> <p>GP [5] 91/21 118/7 157/14 158/19 159/23</p> <p>grade [1] 56/4</p> <p>Graham [2] 141/24 147/19</p> <p>grant [1] 56/23</p> <p>Grants [1] 56/21</p> <p>grateful [2] 72/18 117/12</p> <p>greater [4] 8/21 61/18 137/9 144/18</p> <p>greatest [15] 7/12 9/2 9/24 19/24 35/10 125/9 136/1 136/19 137/19 138/2 142/9 142/23 143/3 144/12 145/10</p> <p>greatly [1] 87/9</p> <p>Green [8] 46/2 73/3 73/5 73/10 89/21 90/7 90/20 91/19</p> <p>Greenburgh [2] 97/13 97/15</p> <p>grounds [1] 159/10</p> <p>group [6] 14/2 41/23 66/12 84/14 117/19 117/23</p>	<p>growing [1] 63/13</p> <p>grown [1] 107/7</p> <p>guaranteed [1] 126/4</p> <p>guide [2] 23/12 32/2</p> <p>Guy's [13] 1/8 1/8 1/16 1/22 2/15 2/23 3/7 3/13 4/7 10/5 10/25 11/8 11/11</p>	<p>33/11 135/20</p> <p>haemophiliac [5] 1/19 53/18 65/5 117/20 131/18</p> <p>haemophiliacs [16] 3/1 13/13 63/5 63/20 63/24 65/14 70/14 71/19 76/19 88/8 88/12 91/24 96/5 127/9 128/23 133/13</p> <p>haemophilic [5] 25/25 33/9 33/24 84/10 109/3</p> <p>haemorrhage [4] 3/19 12/25 13/21 25/16</p> <p>half [9] 31/10 54/17 55/21 56/8 56/21 63/7 98/13 100/18 151/1</p> <p>halfway [1] 114/23</p> <p>Hamblin [1] 73/9</p> <p>Hammersmith [1] 25/2</p> <p>hand [6] 85/1 86/22 87/20 118/7 127/13 163/25</p> <p>handful [1] 80/8</p> <p>handled [1] 79/3</p> <p>hands [1] 92/13</p> <p>handwriting [4] 4/23 5/18 58/13 163/17</p> <p>handwritten [2] 6/22 59/14</p> <p>Hants [1] 32/22</p> <p>happen [1] 140/15</p> <p>happened [4] 97/12 152/25 153/20 154/18</p> <p>happily [2] 18/6 60/11</p> <p>happy [2] 138/21 148/3</p> <p>hard [2] 39/7 133/9</p> <p>Hardisty [2] 74/21 75/7</p> <p>harm [1] 70/21</p> <p>has [54] 3/13 4/17 5/11 6/11 11/20 12/9 18/6 20/13 21/15 22/4 22/9 23/20 32/3 40/8 41/18 42/5 43/19 44/24 49/7 53/19 55/15 55/19 58/19 63/8 63/12 63/24 73/14 77/11 79/13 83/18 85/22 85/24 90/18 91/23 92/2 93/23 98/16 98/20 113/10 113/17 114/24 115/17 115/24 117/22 118/11 118/12 120/24 121/1 128/4 128/19 132/3 147/11 155/5 157/4</p> <p>hasn't [2] 5/10 21/15</p>	<p>haunts [1] 129/20</p> <p>have [186]</p> <p>haven't [2] 16/17 116/18</p> <p>having [19] 3/17 6/5 38/7 65/9 67/18 73/16 90/20 93/13 94/16 99/11 99/12 101/1 101/5 117/24 118/3 129/2 133/20 153/15 155/4</p> <p>hazard [1] 87/16</p> <p>HC [1] 77/8</p> <p>HCDO [1] 111/22</p> <p>HCDO00 [1] 109/23</p> <p>HCDO0000021 [1] 33/6</p> <p>HCDO0000041 [1] 122/4</p> <p>HCDO0000059 [1] 7/9</p> <p>HCDO0000104 [1] 14/20</p> <p>HCDO0000105 [1] 27/9</p> <p>HCDO0000132 [1] 51/16</p> <p>HCDO0000146 [1] 9/5</p> <p>HCDO0000241 [1] 29/21</p> <p>HCDO0000257 [2] 146/21 146/22</p> <p>HCDO0000491 [1] 65/19</p> <p>HCDO0001017 [1] 84/2</p> <p>HCDO0001060 [1] 80/9</p> <p>HCDO0001109 [1] 108/4</p> <p>HCDO0001135 [1] 142/7</p> <p>HCDO0001158 [1] 122/17</p> <p>HCDO0001161 [1] 7/22</p> <p>HCDO0001171 [1] 27/19</p> <p>HCDO0001176 [1] 15/8</p> <p>HCDO0001195 [1] 108/21</p> <p>HCDO0001203 [1] 33/21</p> <p>HCDO0001210 [1] 135/21</p> <p>HCDO0001213 [1] 58/8</p> <p>HCDO0001229 [1] 142/15</p> <p>HCDO0001235 [1] 80/25</p> <p>HCDO0001256 [1]</p>
---	--	--	---	--	---

H	HCDO0001623 [1] 8/20	2/20 2/21 2/23 3/11 4/18 5/10 5/11 5/20 10/16 12/9 12/21 13/4 14/16 22/21 22/24 23/1 25/2 25/7 25/18 25/23 31/16 31/19 32/14 37/13 38/25 40/24 41/7 41/13 41/22 49/7 50/11 62/2 62/20 64/12 70/2 70/3 70/7 72/23 72/25 73/2 73/6 73/11 73/14 74/5 74/13 74/16 74/21 76/6 78/11 84/13 93/6 96/7 96/8 96/8 97/7 97/19 97/19 97/25 98/2 99/10 99/19 100/23 102/3 102/12 102/23 103/9 103/12 104/11 105/14 106/20 106/24 115/7 115/18 115/23 118/5 119/20 119/22 119/25 119/25 120/10 120/12 120/19 121/15 121/17 125/14 125/20 126/1 126/1 126/7 126/8 126/9 126/16 128/1 128/2 128/17 128/17 128/20 128/23 128/24 129/10 129/18 130/3 130/4 130/12 130/19 130/22 131/6 131/6 131/24 132/2 133/19 134/11 134/11 134/15 134/24 135/5 139/8 139/9 139/11 146/11 146/13 147/12 147/13 147/15 148/3 148/21 155/2 155/5 155/6 155/13 156/5 156/14 156/17 156/22 156/24 158/12 158/24 159/3 162/21 163/3 165/4	heard [9] 1/14 6/10 7/1 17/22 22/18 114/14 127/17 146/14 153/18 hearing [1] 165/17 hearings [3] 2/4 76/11 78/19 heat [26] 40/16 40/22 41/10 41/13 42/1 42/2 43/17 52/17 61/23 61/25 62/1 62/3 70/4 70/6 82/23 107/17 112/7 116/25 117/3 117/5 125/16 125/21 126/10 126/11 130/5 158/25 heat-treated [17] 40/16 40/22 41/10 41/13 61/23 61/25 62/1 62/3 82/23 112/7 116/25 117/3 117/5 125/16 125/21 126/10 130/5 heated [6] 52/3 52/7 52/21 116/16 116/20 116/24 Heathrow [1] 31/22 heavily [1] 26/4 heavy [1] 13/11 held [1] 56/10 Helena [1] 55/13 help [9] 26/5 39/23 56/24 78/7 88/4 100/16 133/25 155/17 158/18 helpful [1] 42/22 helps [4] 22/1 86/24 151/20 152/3 Helsinki [1] 164/8 Hematology [1] 104/9 Hemofil [71] 7/15 7/16 18/17 21/7 27/16 28/1 28/8 28/14 28/15 28/23 29/18 30/21 33/17 34/6 34/14 35/14 35/22 36/10 36/10 37/1 80/17 80/17 81/6 81/10 81/16 81/20 81/21 82/8 82/16 82/19 83/13 83/13 83/20 83/25 89/7 99/10 99/25 100/6 108/11 108/24 109/10 109/16 109/22 110/15 110/17 110/19 111/17 112/17 122/14 122/23 123/8 123/13 123/19 123/25 124/10 124/15 124/21 125/5 136/3 136/12 136/20 137/1 137/12 142/19 142/25 149/20	149/22 150/7 150/20 151/1 151/9 Hemofil-associated [1] 89/7 Hep [1] 104/15 hepatitis [122] 11/4 11/8 23/24 24/1 24/6 24/7 24/12 32/8 38/10 38/15 38/17 39/4 44/3 44/5 44/7 53/23 54/2 54/7 62/9 63/2 63/3 63/9 63/11 63/15 64/20 65/12 65/15 65/21 65/25 66/2 66/18 67/1 69/17 70/7 70/11 70/16 70/22 70/23 70/24 71/2 71/9 71/14 72/3 72/6 72/8 72/11 83/4 83/10 83/19 84/9 84/12 84/12 84/14 84/17 84/20 85/3 85/13 85/14 85/16 86/6 86/8 86/12 86/17 86/17 87/4 87/7 87/16 88/13 89/8 89/13 89/17 90/10 90/15 91/7 91/16 92/9 94/22 104/11 104/13 104/19 104/20 104/21 104/23 104/24 105/1 106/22 106/23 106/24 112/18 112/22 113/4 113/5 113/9 114/6 114/10 114/11 126/21 131/3 131/5 131/7 131/10 138/25 139/2 139/5 139/11 146/8 146/20 146/24 147/9 147/10 147/12 147/17 147/25 148/5 162/19 163/1 163/5 163/6 164/24 165/1 165/3 165/5 hepatitis A [4] 84/9 84/12 84/14 88/13 hepatitis B [9] 44/5 85/14 86/17 91/7 91/16 104/13 104/20 105/1 106/24 hepatitis C [53] 11/4 11/8 23/24 24/1 24/6 24/7 24/12 32/8 53/23 54/2 54/7 65/12 65/15 65/21 65/25 66/2 66/18 67/1 69/17 70/7 70/11 70/16 70/24 71/9 71/14 72/3 72/6 72/8 72/11 94/22 104/21 104/24 112/18 113/4 113/5 113/9 114/6 114/10 114/11 131/3 131/7 131/10	139/5 139/11 147/10 147/12 147/17 147/25 148/5 164/24 165/1 165/3 165/5 hepatocellular [1] 67/15 hepatologist [2] 113/17 147/23 her [26] 24/19 32/17 32/20 37/18 38/7 38/11 39/16 57/23 61/21 61/25 62/5 62/10 63/8 63/12 63/12 64/7 64/19 64/24 65/20 68/21 69/24 69/24 98/8 130/12 130/13 135/3 here [24] 2/6 7/4 12/19 18/6 20/23 25/15 33/7 34/22 41/2 41/8 46/22 83/8 84/2 90/23 91/4 109/5 110/3 111/25 114/1 133/8 134/6 137/7 140/1 143/15 hesitate [1] 99/25 HHFT0001026 [1] 160/20 high [3] 20/19 25/22 99/11 higher [2] 86/5 86/12 highlighted [1] 117/23 him [12] 39/16 62/25 74/9 93/8 96/4 96/7 113/20 118/2 128/4 140/8 146/17 156/19 himself [1] 14/3 his [56] 1/16 3/11 10/5 10/18 22/20 25/2 31/17 47/23 70/11 74/17 74/19 84/13 91/19 95/25 112/20 112/21 112/24 113/17 114/18 115/6 115/22 118/7 118/12 118/17 119/7 119/8 119/20 120/12 120/13 120/15 125/14 125/20 126/1 126/7 126/16 127/22 128/1 128/3 128/5 128/19 128/19 128/24 129/8 129/18 130/1 130/4 130/10 130/17 130/22 131/12 134/24 140/7 140/7 146/11 157/8 158/18 history [2] 153/5 153/10 HIV [49] 10/25 11/2 23/21 24/14 24/16 24/18 24/19 32/6
----------	--------------------------------	--	---	--	--

<p>H</p> <p>HIV... [41] 50/23 51/12 51/13 64/18 64/21 64/25 65/2 65/5 68/23 69/6 70/2 70/8 94/8 94/10 105/14 105/16 106/5 107/6 114/16 114/20 115/7 115/9 115/10 115/17 115/19 116/14 128/20 128/21 129/7 129/15 130/22 135/9 138/25 139/12 140/20 141/3 141/5 146/9 148/6 162/6 164/15</p> <p>HIV negative [1] 141/5</p> <p>HIV positive [1] 141/3</p> <p>HIV-related [1] 24/18</p> <p>HL [1] 161/12</p> <p>HL 3186 [1] 161/12</p> <p>HL3136 [1] 46/5</p> <p>HL3186 [8] 48/16 48/24 49/5 50/6 154/3 154/24 156/2 156/13</p> <p>hold [1] 42/6</p> <p>holiday [2] 99/12 133/16</p> <p>Holman [8] 11/14 12/5 14/3 14/8 22/19 22/24 141/21 146/10</p> <p>Holman's [2] 12/20 14/6</p> <p>home [107] 8/25 9/2 9/8 9/25 17/17 17/20 17/24 18/8 18/10 18/23 19/17 19/19 20/1 20/17 20/20 20/21 21/7 21/8 21/18 27/13 29/4 29/25 30/17 30/21 30/22 31/3 34/22 34/23 34/25 35/4 35/11 36/2 36/7 36/9 36/11 36/12 36/17 36/22 36/25 37/12 37/24 38/5 52/12 59/12 59/15 59/17 59/18 60/5 60/14 60/17 60/20 61/11 61/13 61/15 62/10 62/13 81/19 81/21 81/23 82/5 102/19 107/6 110/12 111/16 111/19 117/17 118/2 118/6 118/12 118/23 119/2 120/20 120/23 121/16 121/20 121/22 123/23 123/24 124/10 124/15 124/16 125/2 125/4 125/10 130/2 133/14 136/22</p>	<p>137/3 137/10 137/12 137/20 138/5 138/15 138/17 143/11 143/13 143/14 143/19 144/3 144/8 144/15 145/12 145/13 145/16 146/2 151/7 151/13</p> <p>homegrown [1] 106/17</p> <p>homosexual [1] 153/8</p> <p>Honorary [1] 95/22</p> <p>hope [4] 65/24 100/15 155/7 161/16</p> <p>hoped [1] 71/24</p> <p>hospital [116] 8/25 9/8 9/20 12/13 12/16 17/11 18/7 19/16 19/25 20/16 21/6 21/8 24/9 24/11 25/20 26/8 27/13 28/19 29/5 29/25 30/13 30/21 30/22 31/3 32/4 32/23 32/24 34/21 34/22 35/3 35/8 35/11 35/17 36/5 36/9 36/11 36/20 36/22 48/19 55/1 56/23 57/1 59/11 59/13 59/17 59/18 60/14 60/16 60/20 61/10 61/12 61/15 71/7 71/13 71/21 72/14 72/25 73/19 74/7 75/11 76/16 77/4 81/19 81/22 81/22 85/7 94/16 95/16 95/17 95/25 97/20 98/8 98/17 98/18 104/16 110/11 111/15 111/18 118/1 118/3 118/20 118/22 119/6 119/22 123/22 123/24 124/15 124/17 125/2 125/10 130/19 136/23 137/3 137/10 137/14 137/20 138/10 140/11 141/22 143/12 143/13 143/18 144/3 144/8 144/14 144/24 145/14 145/21 146/1 146/25 148/2 151/6 151/14 153/4 161/4 163/14</p> <p>Hospital's [1] 131/17</p> <p>hospitals [6] 2/25 57/11 57/16 96/24 96/25 143/10</p> <p>hostility [1] 129/25</p> <p>hotel [1] 31/22</p> <p>house [5] 14/4 27/24 55/24 55/24 56/5</p> <p>how [21] 4/6 4/8 4/18 5/15 11/24 12/4 14/10 24/3 24/11 26/14</p>	<p>43/21 68/10 79/16 106/14 114/5 119/25 129/6 130/15 140/4 148/17 154/21</p> <p>however [12] 51/15 71/8 79/4 79/9 87/14 91/23 102/11 122/16 139/14 142/11 151/23 155/23</p> <p>HSOC0016116 [1] 73/24</p> <p>HSOC0022739 [1] 117/15</p> <p>HSOC0029671 [1] 95/18</p> <p>HSOC0029691 [1] 75/20</p> <p>HTLV [16] 42/16 43/3 43/7 51/6 105/16 130/10 139/12 140/10 155/10 156/20 157/9 157/11 157/19 158/9 162/10 164/22</p> <p>HTLV-3 [5] 155/10 157/9 157/11 157/19 158/9</p> <p>HTLV-III [10] 42/16 43/3 51/6 105/16 130/10 139/12 140/10 156/20 162/10 164/22</p> <p>human [3] 20/12 30/25 110/15</p> <p>Humanate [2] 28/23 29/4</p> <p>husband [2] 130/9 130/12</p> <p>Hyland [3] 28/14 108/10 136/12</p> <p>I</p> <p>I '82 [1] 111/6</p> <p>I absolutely [1] 47/18</p> <p>I always [1] 102/7</p> <p>I am [11] 5/5 16/19 49/22 89/24 104/20 113/13 128/15 131/15 132/4 132/23 133/25</p> <p>I ask [1] 46/22</p> <p>I believe [2] 103/16 133/17</p> <p>I can [6] 43/22 89/12 92/13 94/24 103/13 112/10</p> <p>I can' [1] 96/9</p> <p>I can't [1] 71/3</p> <p>I cannot [7] 101/7 101/13 106/2 106/9 107/18 115/22 134/5</p> <p>I confirm [1] 46/18</p> <p>I contacted [1] 129/21</p> <p>I could [3] 40/4 101/25 103/3</p>	<p>I deal [1] 112/18</p> <p>I definitely [1] 104/2</p> <p>I do [14] 38/21 70/10 70/11 100/24 100/25 101/11 101/22 101/24 101/24 103/20 106/14 106/16 107/1 107/16</p> <p>I don't [16] 5/17 34/7 41/4 47/13 48/7 49/24 70/6 71/13 94/13 108/18 112/9 125/18 146/16 160/15 165/9 165/10</p> <p>I enclose [1] 113/9</p> <p>I explained [1] 114/24</p> <p>I feel [1] 134/10</p> <p>I find [2] 121/7 133/5</p> <p>I first [1] 105/23</p> <p>I gave [1] 103/21</p> <p>I give [1] 3/14</p> <p>I had [1] 104/17</p> <p>I have [5] 47/12 70/13 77/20 93/3 101/25</p> <p>I haven't [1] 16/17</p> <p>I hope [3] 100/15 155/7 161/16</p> <p>I include [1] 133/8</p> <p>I introduced [1] 129/22</p> <p>I knew [2] 104/13 104/18</p> <p>I know [3] 37/3 121/6 133/5</p> <p>I looked [1] 101/6</p> <p>I may [3] 37/5 48/9 101/24</p> <p>I mean [1] 18/22</p> <p>I mentioned [1] 115/16</p> <p>I need [1] 45/5</p> <p>I note [2] 45/4 49/23</p> <p>I often [1] 103/25</p> <p>I presume [1] 70/3</p> <p>I probably [1] 92/12</p> <p>I read [1] 110/22</p> <p>I realise [1] 93/2</p> <p>I referred [1] 132/19</p> <p>I remember [2] 70/2 101/4</p> <p>I request [1] 77/24</p> <p>I responded [1] 106/14</p> <p>I right [1] 38/19</p> <p>I say [6] 24/13 28/9 50/18 126/15 150/11 162/15</p> <p>I send [1] 121/7</p> <p>I shall [2] 97/21 121/8</p> <p>I should [6] 17/4 34/17 40/25 43/24 93/4 136/22</p> <p>I spoke [1] 127/25</p>	<p>I suppose [3] 5/22 78/15 160/8</p> <p>I suspect [1] 106/18</p> <p>I then [3] 117/9 117/10 148/18</p> <p>I think [42] 4/22 18/19 19/24 20/13 26/20 27/11 30/8 39/7 39/25 40/6 46/23 47/15 59/8 60/1 60/25 79/12 79/25 80/23 83/18 86/13 91/21 92/12 93/5 97/12 105/23 109/24 110/1 110/21 111/18 111/23 111/24 112/5 121/14 123/2 126/18 131/10 132/13 145/6 152/3 158/12 159/16 162/8</p> <p>I thought [1] 63/22</p> <p>I took [1] 129/11</p> <p>I tried [1] 103/3</p> <p>I understand [1] 49/6</p> <p>I used [1] 103/1</p> <p>I want [1] 95/9</p> <p>I was [7] 104/13 106/17 106/18 106/21 129/12 140/11 140/13</p> <p>I will [4] 15/16 54/25 95/11 121/9</p> <p>I won't [14] 8/4 12/3 15/16 16/11 18/18 28/25 37/4 75/4 82/24 83/23 86/20 92/11 109/19 163/24</p> <p>I wonder [1] 39/14</p> <p>I wondered [1] 127/10</p> <p>I would [10] 5/1 5/4 40/21 49/10 63/23 79/2 99/25 105/17 121/12 161/20</p> <p>I wouldn't [1] 78/13</p> <p>I'll [12] 29/6 30/9 37/5 45/23 54/25 94/14 109/18 110/1 111/9 115/10 130/7 138/21</p> <p>I'm [47] 1/6 11/11 21/23 30/9 31/5 31/12 32/1 32/11 40/10 45/13 48/6 48/8 49/19 49/21 53/24 54/9 55/3 59/22 59/24 61/16 64/10 68/19 72/20 89/9 90/24 92/13 95/7 104/22 108/18 110/17 111/5 111/22 114/3 117/12 118/25 141/1 145/4 145/8 146/4 147/7 149/6 152/23 159/2 159/18 161/24 164/15 164/24</p> <p>I've [6] 15/7 44/15</p>	<p>50/1 109/24 111/23 144/10</p> <p>idea [1] 12/8</p> <p>ideal [1] 39/4</p> <p>Ideally [1] 158/12</p> <p>identification [2] 47/14 49/11</p> <p>identified [11] 8/16 28/1 90/20 97/13 109/3 115/4 131/20 138/10 156/6 156/15 160/1</p> <p>identifies [2] 3/11 67/17</p> <p>identify [3] 43/13 97/16 156/1</p> <p>ie [2] 2/23 72/11</p> <p>if [207]</p> <p>IFN [1] 68/5</p> <p>ii [2] 43/3 157/16</p> <p>iii [11] 42/16 43/3 43/5 51/6 105/16 130/10 139/12 140/10 156/20 162/10 164/22</p> <p>ill [3] 41/22 85/16 156/9</p> <p>ill-health [1] 41/22</p> <p>illness [2] 70/9 156/10</p> <p>images [1] 145/23</p> <p>immediately [1] 154/5</p> <p>immune [2] 88/12 140/14</p> <p>Immuno [5] 15/5 31/23 59/20 108/13 123/21</p> <p>immunological [1] 43/6</p> <p>impact [1] 20/22</p> <p>implicated [4] 42/1 83/24 90/18 164/19</p> <p>implications [1] 87/20</p> <p>importance [1] 118/24</p> <p>important [2] 102/21 118/10</p> <p>inactivation [1] 158/24</p> <p>inadequate [1] 121/4</p> <p>inadvertent [1] 47/13</p> <p>incidence [1] 87/3</p> <p>incident [1] 155/8</p> <p>incidents [8] 3/19 3/20 12/25 13/1 25/16 25/19 25/21 26/1</p> <p>include [5] 11/14 53/10 77/2 93/17 133/8</p> <p>included [4] 58/6 105/6 106/7 152/16</p> <p>includes [1] 54/2</p> <p>including [12] 20/20</p>
--	--	---	---	---	--

(54) HIV... - including

<p>I</p> <p>including... [11] 48/18 52/5 56/9 57/12 64/8 71/8 132/11 147/3 152/7 154/25 158/13</p> <p>inclusion [1] 48/24</p> <p>income [2] 99/23 100/3</p> <p>inconsistent [2] 10/9 94/18</p> <p>incorporated [4] 41/17 46/12 56/13 152/10</p> <p>increase [7] 36/24 100/13 109/16 118/16 124/3 144/23 151/5</p> <p>increased [6] 15/17 61/19 87/9 109/15 112/15 128/5</p> <p>increases [1] 87/12</p> <p>increasing [2] 15/24 26/2</p> <p>incubation [1] 86/16</p> <p>indeed [12] 9/25 11/25 29/9 90/5 92/1 93/18 125/1 132/7 132/12 133/24 148/2 151/12</p> <p>independently [1] 53/19</p> <p>index [3] 157/8 157/12 158/7</p> <p>indicates [2] 94/9 114/25</p> <p>indicating [1] 59/9</p> <p>indication [4] 53/1 53/15 94/17 114/5</p> <p>indications [2] 41/22 68/23</p> <p>indicator [1] 131/5</p> <p>indistinct [1] 110/10</p> <p>individual [13] 10/11 10/11 13/18 15/22 19/3 43/2 80/21 114/8 119/17 139/4 140/6 160/5 165/2</p> <p>individually [1] 129/21</p> <p>individuals [10] 10/13 16/6 23/14 24/10 31/8 66/8 69/16 121/23 147/24 164/6</p> <p>indulging [1] 133/14</p> <p>inevitably [2] 13/18 16/18</p> <p>infected [33] 10/24 11/7 23/21 24/12 31/10 32/8 51/12 51/13 53/2 53/11 53/12 53/22 53/24 54/1 64/25 65/5 83/18</p>	<p>94/10 94/21 114/6 114/19 131/9 140/12 140/13 141/7 147/8 162/5 162/10 162/15 162/15 162/16 164/14 164/25</p> <p>infection [18] 9/23 22/16 43/23 62/17 94/8 103/14 106/8 107/5 107/15 112/19 114/12 116/16 129/2 130/10 130/15 138/25 155/10 157/10</p> <p>infectious [1] 83/20</p> <p>infer [1] 121/14</p> <p>inference [4] 58/24 116/3 116/15 162/9</p> <p>inferences [1] 113/1</p> <p>inferred [1] 72/11</p> <p>Infirmary [1] 152/16</p> <p>inform [1] 158/7</p> <p>information [58] 3/14 4/19 11/3 11/6 22/9 23/10 23/20 32/1 33/5 39/11 39/22 41/1 41/5 43/11 44/20 44/22 45/2 46/25 50/16 50/24 51/15 51/18 52/25 54/8 61/16 66/18 67/22 69/15 70/16 72/13 73/25 75/24 91/3 94/21 103/20 113/3 114/8 114/19 115/9 116/2 117/16 125/24 126/8 130/14 138/24 139/19 142/6 146/4 147/7 147/22 148/6 148/7 148/14 151/20 152/25 154/17 155/8 164/24</p> <p>informed [18] 39/17 48/21 50/7 66/8 67/21 68/15 74/9 78/1 126/5 130/9 147/11 148/17 153/3 157/4 158/19 161/21 165/3 165/4</p> <p>informing [3] 66/1 139/10 159/8</p> <p>infusion [1] 6/12</p> <p>Ingram [3] 2/7 2/16 89/19</p> <p>inhibitor [1] 133/20</p> <p>initial [3] 129/24 156/18 157/22</p> <p>initially [2] 70/25 98/3</p> <p>initiating [1] 62/13</p> <p>injected [2] 6/13 6/17</p> <p>injection [1] 85/4</p> <p>inpatient [1] 17/1</p> <p>inpatients [1] 55/23</p> <p>Inquiry [16] 1/3 6/11 11/1 11/21 22/4 23/20</p>	<p>32/3 44/24 55/15 55/16 65/1 94/9 100/20 132/3 147/11 166/2</p> <p>INQY0000250 [3] 114/21 140/17 148/8</p> <p>insight [2] 92/7 159/20</p> <p>insignificant [4] 9/21 28/6 30/20 35/22</p> <p>insofar [3] 1/8 2/15 12/15</p> <p>instance [1] 161/11</p> <p>instances [2] 16/7 44/2</p> <p>instead [1] 118/3</p> <p>instituted [1] 139/9</p> <p>instructive [1] 38/6</p> <p>insubstantial [1] 15/3</p> <p>integration [1] 56/24</p> <p>intended [1] 65/23</p> <p>inter [1] 96/3</p> <p>interest [4] 38/10 76/6 84/4 161/18</p> <p>interested [2] 42/15 96/23</p> <p>interesting [5] 7/4 21/10 76/1 83/3 163/19</p> <p>interferon [4] 67/25 68/5 113/22 113/24</p> <p>intermittently [1] 67/11</p> <p>interpret [1] 68/10</p> <p>interpretation [1] 5/14</p> <p>intervals [3] 43/10 92/4 156/7</p> <p>intervention [1] 37/6</p> <p>into [3] 41/17 92/7 159/20</p> <p>intravenous [1] 85/4</p> <p>introduced [3] 124/24 129/22 130/6</p> <p>introduction [3] 85/21 85/23 98/13</p> <p>investigation [3] 93/2 155/23 158/4</p> <p>investigations [4] 46/15 139/20 139/24 140/1</p> <p>involved [8] 40/13 65/4 70/13 72/23 134/7 148/4 157/17 157/25</p> <p>involvement [1] 92/8</p> <p>isles [1] 58/6</p> <p>isn't [1] 92/15</p> <p>issue [18] 5/24 23/7 38/2 41/9 41/12 43/22 45/14 50/18 57/17 76/9 117/10 121/2 121/12 132/20 140/3</p>	<p>151/24 160/20 163/8</p> <p>issued [2] 48/1 120/25</p> <p>issues [12] 3/5 33/3 38/6 40/16 77/6 78/8 92/8 99/6 99/19 100/17 146/20 164/11</p> <p>it's [89] 4/15 4/17 6/11 7/3 7/16 8/4 8/17 10/3 17/1 17/9 17/19 19/4 19/9 20/5 20/23 21/1 21/8 21/10 25/6 28/25 29/6 29/7 31/10 35/19 45/22 49/25 51/24 52/14 56/2 60/6 61/7 66/13 68/20 68/21 75/7 76/17 76/23 77/1 81/9 81/15 83/7 83/11 90/4 95/2 108/22 109/12 110/13 111/6 111/18 114/23 117/14 117/15 118/22 118/24 120/18 125/1 127/4 129/8 129/9 132/5 132/16 134/12 142/14 143/4 143/19 144/12 144/24 145/3 145/5 149/25 150/8 150/23 159/5 159/11 159/19 159/20 160/22 162/6 162/9 162/11 163/12 163/13 163/16 163/23 163/25 164/4 164/6 164/22 165/7</p> <p>its [12] 12/17 32/21 32/24 42/7 44/19 75/19 75/24 87/19 98/16 102/20 119/14 134/20</p> <p>itself [1] 130/9</p> <p>iv [1] 43/7</p> <p>IX [4] 122/8 135/19 149/17 149/23</p>	<p>JC1 [1] 156/15</p> <p>JC2 [1] 156/15</p> <p>JC3 [1] 156/16</p> <p>jeopardised [1] 121/11</p> <p>JL [1] 95/24</p> <p>John [3] 32/14 49/5 50/9</p> <p>Johnson [2] 131/23 133/8</p> <p>joined [2] 103/10 139/8</p> <p>joint [1] 5/7</p> <p>Journal [4] 64/9 104/7 104/7 104/8</p> <p>journals [3] 92/19 105/21 105/21</p> <p>journey [1] 74/24</p> <p>journeys [1] 118/1</p> <p>Joyner [1] 120/1</p> <p>Judged [1] 133/10</p> <p>July [7] 53/3 74/1 91/21 94/17 96/12 99/18 113/8</p> <p>July 1976 [1] 96/12</p> <p>July 1987 [1] 94/17</p> <p>June [10] 54/16 85/12 90/8 95/20 106/12 107/3 119/11 120/19 139/21 140/2</p> <p>June '72 [1] 95/20</p> <p>June 1974 [1] 120/19</p> <p>June 1978 [1] 90/8</p> <p>June 1983 [3] 106/12 107/3 140/2</p> <p>June 2010 [1] 119/11</p> <p>junior [2] 22/19 63/10</p> <p>just [78] 3/13 5/19 7/21 9/21 15/11 15/14 17/1 19/2 19/17 19/25 20/13 20/17 21/6 21/10 28/15 30/18 30/20 33/13 34/15 35/11 35/17 36/6 37/5 38/9 40/5 40/15 48/9 48/16 49/19 51/17 56/17 56/20 60/16 68/9 80/19 81/21 81/23 83/16 89/12 94/14 108/24 109/2 109/24 114/21 115/10 116/5 117/15 122/23 123/5 123/12 123/24 124/8 124/17 129/17 130/5 130/7 132/23 133/2 136/3 136/14 136/15 137/9 137/10 137/13 142/10 143/1 143/9 143/19 144/14 144/17 149/6 150/19 151/15 159/14 159/18 160/19 163/23 165/13</p>	<p>K</p> <p>keep [4] 16/9 39/17 46/23 78/1</p> <p>keeping [1] 104/5</p> <p>Kemp [2] 11/16 23/5</p> <p>Kemp's [1] 11/16</p> <p>kept [1] 48/4</p> <p>Kernoff [1] 64/8</p> <p>Kettering [1] 55/2</p> <p>key [2] 5/22 105/5</p> <p>kind [6] 41/5 53/14 80/24 91/3 139/25 155/20</p> <p>kindly [1] 42/6</p> <p>kinds [1] 44/1</p> <p>King's [10] 1/8 2/15 2/23 24/9 24/21 24/24 25/1 25/4 31/5 31/19</p> <p>Kingdom [1] 41/25</p> <p>Kirk [4] 44/4 63/2 89/7 99/9</p> <p>knew [4] 84/13 104/13 104/18 104/20</p> <p>know [46] 5/17 9/24 12/1 13/16 22/19 23/7 29/23 31/7 31/12 37/3 38/21 39/15 40/11 41/4 41/6 42/19 43/20 44/11 47/1 48/10 49/4 55/7 62/17 64/10 65/12 66/6 68/19 71/22 82/21 89/14 90/7 92/18 97/5 103/18 108/18 116/20 121/6 126/22 126/25 133/5 134/7 140/12 140/22 161/17 161/24 164/23</p> <p>knowing [4] 5/24 10/12 117/5 164/17</p> <p>knowledge [25] 10/14 22/16 31/13 43/22 62/15 64/11 64/15 83/2 86/14 86/24 92/8 103/9 104/6 105/15 105/19 105/20 112/21 112/21 114/11 126/17 128/20 146/8 162/19 163/11 164/10</p> <p>known [15] 4/25 4/25 5/9 6/16 9/22 43/3 43/18 52/1 62/15 70/7 72/6 72/12 87/16 96/2 104/21</p> <p>Koate [36] 7/15 8/1 8/7 8/14 9/3 9/9 10/1 15/14 16/1 18/17 19/23 27/16 27/25 28/23 29/3 29/19 30/4 30/23 34/6 35/14 37/1 52/6 52/10 82/7 82/16</p>
--	---	---	--	---	---

(55) including... - Koate

K	105/3 115/8 119/8 153/5 lastly [3] 30/11 125/7 151/11 late [6] 12/14 55/13 70/18 71/19 89/3 104/17 lately [1] 85/22 later [18] 2/4 7/1 11/18 49/16 50/18 54/25 76/10 78/19 83/22 94/3 95/16 104/23 104/24 113/3 114/5 121/19 153/22 155/19 latter [4] 31/10 76/5 112/14 132/4 lead [1] 161/19 leads [1] 13/17 leaflet [3] 153/15 153/16 153/19 learnt [3] 24/11 31/8 54/1 least [12] 12/15 25/25 46/23 52/18 52/23 53/21 58/23 77/23 80/23 142/12 156/7 162/8 leaving [2] 83/4 95/24 led [2] 29/23 116/21 Lee [13] 65/8 69/24 70/2 70/10 119/7 119/9 119/12 125/14 125/24 128/19 129/6 130/17 132/18 Lee Turton [1] 65/8 Lee's [6] 69/21 71/14 119/19 129/4 131/3 131/8 left [7] 68/21 87/20 127/11 129/13 130/13 159/11 163/25 left-hand [2] 87/20 163/25 legible [1] 60/12 lengthy [1] 6/12 Leslie [2] 32/14 44/12 Leslie's [1] 76/4 less [6] 17/9 49/9 118/16 129/2 129/3 144/22 lessen [1] 88/4 lesser [4] 21/21 28/9 37/1 145/13 let [4] 39/14 47/1 58/4 161/17 let's [4] 45/8 49/20 92/14 165/14 letter [72] 2/6 3/9 12/21 14/2 25/6 25/8 38/11 39/13 40/17 42/8 42/13 43/14 44/3	45/20 46/5 47/2 47/9 47/14 47/22 48/12 48/17 49/13 49/15 49/22 49/24 49/25 50/4 53/3 53/16 57/9 57/14 69/18 69/20 76/23 77/6 79/24 90/11 91/19 92/6 93/14 93/16 99/8 106/12 106/15 106/16 106/19 107/1 113/6 115/12 115/20 116/6 118/21 120/17 127/3 127/20 127/25 139/21 147/19 152/3 152/13 152/18 154/23 155/2 158/2 158/20 160/20 160/23 161/1 162/1 162/2 162/11 163/12 letters [6] 73/1 75/6 93/25 94/6 140/1 154/20 level [1] 102/17 levels [1] 99/11 Lewisham [22] 1/8 2/16 2/24 11/11 11/13 12/1 12/16 12/20 12/22 14/2 17/3 18/1 19/19 20/3 21/18 95/8 117/11 117/17 117/19 118/20 118/22 119/2 LFT [2] 67/10 67/11 LFTs [2] 71/6 71/22 liberty [1] 93/1 life [1] 88/7 life-threatening [1] 88/7 light [10] 11/23 23/12 23/19 44/22 69/19 72/16 113/21 131/12 146/5 163/11 like [18] 5/4 5/19 42/19 52/13 56/18 58/15 59/14 59/23 59/25 60/4 100/14 111/6 111/17 120/22 134/16 161/20 162/11 162/12 likelihood [1] 69/3 likely [8] 25/12 67/20 68/15 70/5 87/25 88/12 93/9 106/6 limit [1] 107/7 line [2] 39/1 129/10 lines [2] 74/18 105/3 link [1] 98/21 list [8] 3/13 20/10 38/16 38/22 40/20 45/23 57/16 115/25 listed [4] 49/24 54/24 97/4 132/12 LISTER [10] 20/13	20/23 20/25 21/2 52/6 52/16 58/14 99/22 100/8 127/12 listing [1] 53/6 literature [1] 113/2 litres [1] 86/10 little [20] 11/2 13/4 32/1 62/15 81/20 109/17 112/22 113/11 114/16 124/16 132/23 142/13 142/17 142/18 143/21 144/14 145/20 146/9 151/1 156/21 live [1] 130/13 liver [30] 24/4 24/8 63/5 63/14 63/20 63/24 64/5 64/6 67/8 67/18 67/18 68/10 68/17 69/5 69/7 70/16 70/18 70/20 71/6 91/6 91/12 91/15 91/25 92/1 92/3 113/18 131/4 131/13 147/14 163/6 living [2] 25/14 74/24 loads [1] 24/5 local [1] 153/4 locally [1] 56/12 located [1] 99/3 location [2] 32/21 73/17 locum [2] 40/17 47/23 London [9] 1/7 2/1 12/2 12/17 24/21 31/22 32/9 71/2 97/20 long [5] 73/12 74/23 97/2 130/21 161/20 longer [2] 77/13 134/3 look [61] 7/6 7/10 9/17 12/19 14/6 14/24 15/8 25/5 27/19 30/6 30/24 32/9 48/16 49/15 56/17 56/20 57/8 60/2 66/10 68/22 69/19 73/24 75/20 76/10 76/15 76/22 77/1 78/18 80/8 80/19 83/16 85/20 90/9 91/22 92/3 92/24 94/2 94/23 95/22 98/11 98/12 102/22 104/11 107/22 111/5 112/19 114/21 120/5 123/3 124/18 127/2 127/5 127/6 129/6 137/24 139/17 145/9 149/8 152/3 160/23 163/23 looked [15] 3/10 4/5 37/3 64/16 77/3 79/24 84/24 89/9 93/14 93/25 101/6 152/2 152/13 154/16 162/18	looked at [9] 4/5 77/3 79/24 84/24 89/9 93/14 93/25 152/13 162/18 looking [8] 30/11 33/2 48/8 54/11 103/7 110/21 122/3 145/7 looks [14] 5/19 14/4 52/9 52/13 58/15 59/13 59/23 59/25 60/4 100/14 111/6 111/17 150/2 162/11 Lord [1] 50/10 lose [2] 93/3 133/12 lost [1] 15/7 lot [2] 71/23 91/25 low [1] 86/8 lunch [3] 89/13 91/18 94/25 luncheon [1] 95/5 lymphocyte [1] 43/8	77/10 131/1 134/2 Manchester [2] 49/6 157/20 manner [1] 121/5 manufactured [1] 48/25 many [13] 4/8 14/10 23/25 26/14 66/3 76/7 79/16 96/25 113/19 120/20 121/9 146/17 158/13 March [8] 66/16 66/17 89/22 89/23 92/22 93/9 163/12 163/13 March '84 [1] 163/12 March 1973 [1] 89/22 March 1978 [1] 89/23 March 1984 [1] 92/22 March 1996 [1] 66/16 Mare [1] 57/22 Margate [1] 2/24 margin [2] 138/3 145/11 mark [5] 1/15 57/3 58/20 133/15 159/21 marked [1] 129/13 material [16] 12/6 12/12 13/17 13/22 39/8 42/16 42/21 58/12 62/3 83/3 84/15 99/22 112/7 122/21 140/5 141/10 materials [8] 14/5 26/4 33/12 77/12 78/6 84/19 92/19 132/6 maths [2] 18/6 21/15 matter [6] 8/19 42/23 62/16 75/1 81/17 161/18 matters [7] 40/15 71/16 71/18 74/9 83/6 106/10 155/18 Mavor [1] 46/3 maximum [2] 77/17 155/7 may [63] 1/13 3/3 5/19 5/20 5/22 6/14 11/4 11/6 13/11 37/5 39/6 39/7 40/25 46/17 46/22 47/6 47/11 48/9 49/21 51/5 51/12 52/16 52/19 53/10 53/15 57/9 60/1 62/20 62/22 70/21 70/21 71/11 71/25 72/2 72/7 72/14 76/9 77/13 77/22 77/24 78/4 78/16 80/4 83/25 87/14 94/10 101/24 108/18 112/25 113/13 115/18 116/3 117/2 133/11 139/15 141/8
L				M	
Lab [1] 115/23 laboratories [1] 70/25 laboratory [12] 14/3 51/25 55/22 56/11 71/7 71/11 72/9 77/22 98/4 98/5 119/8 128/15 lack [2] 13/17 13/21 Lancet [4] 84/23 104/7 163/19 163/22 large [9] 11/12 27/17 36/24 37/19 59/13 66/21 79/5 87/16 88/15 large-pool [3] 66/21 87/16 88/15 largely [3] 30/3 59/3 123/2 larger [5] 28/4 34/9 35/3 61/9 76/19 largest [16] 15/2 20/21 27/12 29/1 29/24 30/16 34/15 34/24 35/19 61/13 80/16 81/4 82/4 111/16 122/20 150/16 last [15] 1/14 24/21 39/12 51/20 52/1 53/19 54/22 64/16 72/12 100/6 105/3				MacAndrew [1] 46/4 MACF0000175 [1] 53/3 Macfarlane [1] 53/4 made [14] 61/23 79/4 86/7 93/12 93/24 102/11 118/11 128/25 146/23 148/1 153/11 153/11 153/13 158/17 main [24] 8/12 34/2 34/11 36/8 71/17 102/16 108/8 108/9 109/5 109/14 122/10 123/20 124/20 125/1 125/3 136/11 137/2 137/11 138/13 142/16 143/17 144/7 150/25 151/13 mainly [3] 108/23 120/20 151/16 mainstay [1] 33/13 maintain [1] 99/11 maintained [1] 57/4 major [14] 13/2 13/16 13/21 15/10 17/6 17/10 19/18 26/2 60/15 61/1 77/15 88/8 121/2 123/5 majority [2] 8/9 66/25 make [9] 9/15 39/7 40/5 40/6 68/12 87/5 113/21 120/21 127/9 making [1] 95/9 manage [2] 113/15 130/15 managed [6] 1/19 93/3 105/12 113/5 114/7 119/23 management [3]	

<p>M</p> <p>may... [7] 147/8 155/17 157/2 157/9 158/23 160/10 162/7</p> <p>May 1985 [1] 52/16</p> <p>maybe [1] 155/18</p> <p>Maycock [9] 4/4 57/14 78/23 89/22 89/24 90/4 100/9 120/18 121/15</p> <p>Maycock's [4] 14/7 26/11 79/13 120/8</p> <p>Mayor [1] 50/11</p> <p>me [21] 18/6 32/10 38/23 59/25 93/4 98/5 98/7 103/23 103/23 104/16 104/21 105/4 106/3 113/18 129/19 129/20 138/18 138/21 157/20 159/18 161/17</p> <p>mean [2] 18/22 40/4</p> <p>means [1] 72/4</p> <p>meant [5] 41/7 57/2 63/23 140/13 152/22</p> <p>meantime [3] 46/17 88/3 152/20</p> <p>measures [3] 87/2 88/4 158/22</p> <p>medical [14] 45/21 55/23 71/2 76/23 90/11 92/19 104/5 104/7 113/1 119/22 134/25 135/8 160/21 161/24</p> <p>medicine [2] 104/8 135/10</p> <p>Medicines [1] 90/12</p> <p>meet [2] 120/22 121/10</p> <p>meeting [43] 12/4 12/10 23/6 31/22 35/25 36/16 37/4 38/4 44/15 54/13 54/14 54/23 55/6 62/25 63/1 63/22 65/13 73/7 73/15 74/1 74/10 74/12 75/8 75/14 75/21 84/3 84/4 84/8 89/15 90/8 95/19 96/11 125/18 126/24 127/7 127/16 131/25 139/15 146/13 162/23 162/24 163/3 163/7</p> <p>meetings [24] 10/15 10/20 22/21 22/23 22/25 23/2 23/6 24/22 31/16 31/20 44/11 44/13 44/16 44/17 62/24 83/5 83/6 92/19 105/22 126/19 139/16 146/11 146/12 162/21</p>	<p>member [2] 41/22 118/18</p> <p>members [6] 22/5 23/15 32/4 44/25 117/24 161/10</p> <p>memo [3] 38/14 38/18 63/18</p> <p>memorandum [1] 39/3</p> <p>memory [3] 69/24 70/13 129/11</p> <p>mention [1] 133/11</p> <p>mentioned [1] 115/16</p> <p>mentions [1] 77/10</p> <p>merits [1] 102/20</p> <p>message [1] 7/1</p> <p>metabolism [1] 1/21</p> <p>methods [3] 155/9 155/23 158/1</p> <p>Mibashan [3] 24/25 31/18 31/21</p> <p>microbiology [3] 71/10 71/20 115/23</p> <p>mid [4] 7/7 86/15 113/6 165/3</p> <p>mid-1970s [1] 86/15</p> <p>mid-1980s [1] 7/7</p> <p>mid-1990s [2] 113/6 165/3</p> <p>Middlesex [2] 71/1 71/13</p> <p>Middlesex Hospital [1] 71/13</p> <p>might [18] 21/1 53/12 58/21 58/24 59/24 64/6 68/16 84/20 88/4 105/24 105/24 116/15 116/23 116/24 129/1 130/12 140/15 160/6</p> <p>mild [4] 103/2 105/10 162/9 162/14</p> <p>mildly [1] 62/7</p> <p>miles [4] 13/12 134/8 134/9 134/10</p> <p>military [1] 41/24</p> <p>Mills [1] 96/19</p> <p>mind [3] 69/2 103/9 133/5</p> <p>Minehead [1] 133/16</p> <p>minutes [21] 10/20 12/10 23/4 37/7 45/6 54/12 62/21 62/24 64/13 73/14 75/21 84/3 92/12 95/19 96/11 97/16 113/2 132/19 138/18 139/16 146/18</p> <p>mirror [1] 145/23</p> <p>misheard [1] 40/9</p> <p>misread [1] 144/10</p> <p>misreading [2] 5/20 145/8</p>	<p>Miss [3] 39/14 92/22 146/23</p> <p>Miss Spooner [3] 39/14 92/22 146/23</p> <p>missing [6] 105/24 111/25 115/20 115/21 140/21 145/4</p> <p>miswritten [1] 5/21</p> <p>mix [1] 60/23</p> <p>mixed [3] 10/2 26/19 28/17</p> <p>MLSO [1] 46/8</p> <p>moderate [3] 103/1 105/8 107/9</p> <p>moment [9] 26/4 32/10 47/16 79/25 95/11 119/13 133/23 141/12 159/18</p> <p>monitor [1] 113/17</p> <p>monitored [3] 24/3 114/7 161/22</p> <p>monitoring [1] 131/4</p> <p>month [3] 42/9 43/10 100/15</p> <p>monthly [5] 92/4 156/7 156/22 157/7 157/18</p> <p>months [7] 68/4 77/22 85/14 100/15 118/11 118/15 153/6</p> <p>Morag [1] 32/15</p> <p>moral [1] 159/9</p> <p>more [38] 2/3 5/2 5/11 6/20 7/23 13/13 13/24 16/7 17/2 18/23 22/18 31/12 45/5 60/12 62/22 70/8 74/18 76/18 77/12 79/3 79/3 79/4 80/14 81/7 81/11 87/6 87/10 88/12 90/18 96/15 105/10 113/13 116/2 129/19 138/11 143/20 145/20 152/4</p> <p>morning [2] 1/6 1/7</p> <p>most [13] 13/19 23/1 31/20 68/24 70/5 76/1 87/8 118/19 120/23 123/7 124/13 132/10 134/25</p> <p>move [9] 28/16 32/10 32/11 33/21 72/20 73/17 123/15 124/23 143/15</p> <p>moved [6] 32/23 65/9 66/5 73/10 97/20 141/8</p> <p>moving [1] 73/5</p> <p>Mr [8] 41/11 42/13 46/7 46/18 69/20 69/23 72/18 74/8</p> <p>Mr Allison's [2] 46/7</p>	<p>46/18</p> <p>Mr and [1] 69/23</p> <p>Mr Bishop [1] 41/11</p> <p>Mr Bishop's [1] 42/13</p> <p>Mr Prothero [1] 74/8</p> <p>MRCO0000388 [1] 94/15</p> <p>Mrs [4] 69/21 69/23 72/19 96/4</p> <p>Mrs Britten [1] 96/4</p> <p>Mrs Turton [3] 69/21 69/23 72/19</p> <p>Ms [2] 44/8 80/1</p> <p>Ms Bournemouth's [1] 80/1</p> <p>Ms Spooner [1] 44/8</p> <p>much [17] 11/23 17/9 18/10 19/15 28/4 28/7 56/7 61/9 86/12 92/15 92/17 103/3 126/8 128/16 137/22 144/22 145/17</p> <p>mum [1] 69/21</p> <p>Murrell [9] 55/7 55/11 58/9 58/19 58/20 61/22 62/1 62/16 62/23</p> <p>Murrell's [1] 64/11</p> <p>muscles [1] 5/7</p> <p>Musgrove [1] 131/17</p> <p>must [2] 13/10 39/25</p> <p>mustn't [1] 40/1</p> <p>my [22] 2/6 32/11 38/22 54/13 70/12 92/2 98/7 102/6 103/22 104/4 104/19 105/11 105/15 106/22 107/2 129/4 129/11 129/12 134/5 134/15 140/10 159/7</p> <p>myself [3] 47/1 121/7 129/22</p>	<p>N</p> <p>name [5] 25/2 43/13 47/11 48/8 55/5</p> <p>names [6] 11/16 24/22 47/12 49/24 50/14 141/24</p> <p>Nancy [2] 73/2 85/6</p> <p>National [2] 87/2 101/13</p> <p>nature [1] 131/1</p> <p>nausea [1] 147/4</p> <p>NBS [1] 103/17</p> <p>nearly [4] 123/10 123/22 151/6 151/7</p> <p>necessarily [2] 72/5 141/6</p> <p>necessary [4] 43/12 77/13 107/15 157/14</p> <p>need [17] 11/22 37/14</p>	<p>45/5 48/22 55/16 65/18 72/14 75/13 91/21 94/13 112/11 115/1 119/12 125/19 127/5 130/11 155/10</p> <p>needed [3] 6/12 79/6 129/16</p> <p>needing [1] 9/15</p> <p>needs [2] 120/22 127/12</p> <p>negative [6] 51/20 72/12 91/7 91/16 104/18 141/5</p> <p>never [7] 3/4 39/5 40/3 40/3 40/4 58/4 102/10</p> <p>new [8] 46/23 54/21 74/4 75/16 76/2 77/8 104/7 129/22</p> <p>newly [1] 10/7</p> <p>Newport [1] 46/4</p> <p>news [3] 46/24 77/20 129/23</p> <p>next [32] 32/11 38/25 46/17 54/10 69/4 69/25 71/16 84/16 86/3 86/20 87/18 91/10 95/7 99/16 101/10 102/2 111/16 113/23 114/22 117/9 120/16 128/10 133/21 134/15 141/5 141/20 153/8 157/15 159/17 159/19 161/6 161/8</p> <p>NHBT0006268 [1] 98/12</p> <p>NHBT0075690 [1] 147/18</p> <p>NHBT0098756 [2] 127/2 127/21</p> <p>NHBT0107767 [1] 76/22</p> <p>NHBT0112213 [1] 76/12</p> <p>NHS [142] 1/25 2/9 2/11 7/13 7/19 7/23 8/5 8/8 8/10 8/13 8/17 8/24 9/7 9/11 9/14 9/24 10/6 12/15 15/2 15/11 15/21 16/13 16/22 17/13 18/12 19/20 20/9 20/15 21/11 21/19 22/13 27/14 27/22 28/4 28/5 28/7 28/10 28/13 28/14 28/19 29/2 29/17 29/23 30/17 31/2 31/4 32/24 33/15 34/2 34/12 34/24 35/5 35/9 35/18 36/8 36/21 37/25 40/22 52/21 59/3 59/16 60/7 60/15</p>	<p>61/2 61/8 61/12 70/12 71/10 75/19 78/9 80/15 81/3 81/5 81/7 81/10 81/12 81/15 81/18 82/3 82/15 82/20 89/18 103/15 108/11 108/25 109/6 109/14 109/21 110/9 110/18 111/14 112/3 112/15 116/1 117/1 122/7 122/14 122/20 122/25 123/5 123/11 123/18 123/23 124/3 124/13 124/20 125/3 125/10 126/9 130/5 136/2 136/13 136/20 136/24 137/9 137/20 138/2 138/3 138/13 138/16 142/13 142/18 142/24 143/5 143/12 143/17 144/2 144/7 144/12 144/25 145/1 145/9 145/17 145/21 149/16 149/23 150/6 150/16 150/25 151/5 151/14 151/16</p> <p>NHS concentrate [7] 9/24 17/13 30/17 35/5 35/9 124/20 138/2</p> <p>NHS concentrates [2] 8/10 122/20</p> <p>NHS products [1] 116/1</p> <p>nice [1] 39/19</p> <p>night [1] 26/2</p> <p>nine [6] 32/6 85/16 109/3 111/2 112/1 135/23</p> <p>nine patients [1] 32/6</p> <p>ninefold [1] 87/13</p> <p>no [82] 1/17 3/3 4/16 7/13 8/21 10/11 14/14 14/16 15/16 16/9 18/2 21/22 27/21 29/8 31/12 34/10 37/13 37/15 41/21 42/2 44/21 54/13 58/11 58/17 62/8 65/7 68/1 68/18 69/4 77/13 77/20 78/13 81/3 81/13 81/18 81/24 82/9 82/12 86/13 92/11 95/13 96/5 96/13 97/25 101/20 105/21 105/22 110/4 110/19 111/10 111/22 112/2 112/8 116/1 116/24 118/16 122/14 123/4 123/16 124/5 124/19 130/14 130/18 131/11 134/3 136/9 136/18 137/6 138/23</p>
--	---	--	--	--	--	---

<p>N</p> <p>no... [13] 142/15 143/5 145/5 150/10 150/14 150/15 150/23 151/4 151/11 151/13 151/20 164/16 164/24</p> <p>non [18] 62/9 62/9 63/14 63/15 70/4 70/6 70/22 70/22 85/13 86/17 88/22 104/22 104/23 112/22 112/22 126/11 131/5 131/5</p> <p>non-A [6] 62/9 63/14 70/22 104/22 112/22 131/5</p> <p>non-B [8] 62/9 63/15 70/22 85/13 86/17 104/23 112/22 131/5</p> <p>non-heat [3] 70/4 70/6 126/11</p> <p>non-use [1] 88/22</p> <p>none [7] 8/1 34/22 60/4 69/5 69/6 103/4 130/1</p> <p>nonetheless [5] 7/17 72/8 109/13 116/21 144/22</p> <p>normal [2] 67/10 164/1</p> <p>normally [1] 108/15</p> <p>Northampton [1] 55/2</p> <p>not [144] 3/15 4/10 4/15 4/17 6/3 6/5 6/8 6/17 9/9 9/20 9/23 10/9 11/23 12/5 13/24 15/3 15/9 17/9 17/23 18/13 20/5 21/8 21/9 22/10 22/11 23/18 28/6 28/7 29/11 29/23 30/19 35/21 36/6 36/18 37/23 38/4 38/18 38/20 38/21 39/9 39/18 40/25 41/22 43/12 43/25 45/2 47/12 49/21 52/1 54/6 56/2 58/20 59/14 59/24 60/2 60/14 62/4 62/17 62/23 63/24 67/3 68/2 68/3 68/21 68/24 69/13 70/5 70/10 70/11 70/13 71/22 72/4 74/11 74/21 84/24 89/1 89/9 89/24 90/24 93/3 94/5 94/18 96/2 96/6 100/24 100/25 101/18 101/22 101/24 101/24 102/7 102/15 102/18 103/10 103/18 104/20 104/24 106/14 106/16 107/1 107/10 107/16</p>	<p>110/17 110/25 111/5 116/23 116/24 117/5 118/22 118/25 120/24 121/9 121/12 122/5 123/13 123/16 126/3 126/4 126/13 127/12 127/14 128/4 128/4 128/7 130/23 132/4 134/6 140/12 141/1 142/22 143/10 145/16 150/23 156/12 157/1 157/16 157/21 159/2 159/22 159/24 161/3 162/3 164/22 165/8</p> <p>notations [1] 5/20</p> <p>note [9] 6/22 22/7 38/6 45/4 49/23 53/6 89/20 90/4 129/14</p> <p>noted [2] 25/21 131/24</p> <p>notes [3] 44/9 93/4 115/22</p> <p>nothing [5] 22/15 31/14 83/11 140/5 140/15</p> <p>notified [2] 114/11 160/11</p> <p>notify [2] 42/6 89/24</p> <p>November [14] 2/7 49/14 63/18 73/12 84/4 127/4 127/21 153/11 154/19 154/20 154/24 160/23 162/24 162/25</p> <p>November '82 [1] 153/11</p> <p>November 1974 [1] 84/4</p> <p>November 1984 [1] 154/19</p> <p>novo [1] 24/17</p> <p>now [33] 8/20 9/18 11/11 22/7 25/24 34/1 35/24 42/10 45/14 46/12 50/22 53/10 72/20 87/2 91/8 91/17 93/23 99/21 112/4 113/5 124/18 124/25 127/9 132/5 137/11 137/21 138/3 141/12 152/11 159/2 161/17 165/8 165/14</p> <p>number [64] 4/5 10/15 12/24 12/25 13/1 13/2 14/22 16/5 16/7 17/22 20/3 22/4 22/20 23/13 23/17 24/5 26/1 31/8 33/3 33/8 33/23 34/9 37/3 42/24 42/25 45/15 45/22 46/5 49/23 50/22 51/12 52/13 52/15 57/11</p>	<p>59/9 64/8 66/20 66/23 67/2 67/8 67/10 67/11 67/12 67/24 68/4 68/7 80/5 80/20 83/6 99/12 107/24 111/12 113/12 117/25 119/5 132/12 140/1 143/16 146/10 154/2 155/18 156/13 160/15 161/12</p> <p>number 14 [1] 119/5</p> <p>numbered [1] 13/6</p> <p>numbers [26] 3/1 3/6 3/21 10/24 27/1 32/5 32/8 42/19 53/1 53/24 79/5 80/2 80/3 94/18 94/21 107/25 114/19 116/19 121/24 135/13 141/2 141/4 147/8 148/24 164/13 164/25</p> <p>nurse [1] 133/24</p> <p>nursing [4] 56/6 56/16 134/21 135/6</p> <p>O</p> <p>o'clock [1] 165/15</p> <p>Obank [2] 3/10 25/6</p> <p>Obank's [1] 12/21</p> <p>oblige [1] 41/3</p> <p>observations [2] 40/14 70/12</p> <p>observe [1] 157/17</p> <p>obtain [2] 39/10 155/7</p> <p>obtained [2] 86/10 157/7</p> <p>obviously [14] 2/2 11/23 22/18 27/12 60/3 63/6 64/14 64/22 67/4 68/12 68/20 120/17 125/25 153/1</p> <p>occasion [1] 64/16</p> <p>occasional [5] 27/5 58/3 79/18 126/18 146/19</p> <p>Occasionally [1] 133/14</p> <p>occasions [2] 37/3 43/1</p> <p>occupy [1] 118/3</p> <p>occurred [2] 85/11 85/14</p> <p>occurrence [1] 87/6</p> <p>occurring [1] 26/2</p> <p>October [24] 1/1 23/7 37/4 44/14 45/20 47/3 48/21 51/21 62/5 62/25 65/13 73/8 75/17 93/16 127/8 127/16 139/14 146/13 148/3 152/5 152/15 153/3 163/3 163/8</p> <p>October '81 [2] 73/8 163/3</p>	<p>October '83 [2] 44/14 139/14</p> <p>October 17th [1] 127/8</p> <p>October 1977 [1] 62/25</p> <p>October 1983 [4] 23/7 37/4 127/16 146/13</p> <p>October 1984 [1] 48/21</p> <p>October 1985 [1] 62/5</p> <p>odd [18] 5/13 9/8 9/8 15/14 16/1 19/16 19/25 20/16 21/7 80/14 80/17 81/21 81/22 123/8 138/16 144/2 144/8 145/6</p> <p>Odstock [1] 163/14</p> <p>off [1] 112/13</p> <p>offered [2] 126/3 157/11</p> <p>offering [1] 36/2</p> <p>offer [4] 55/24 56/5 160/21 161/24</p> <p>offices [1] 56/16</p> <p>official [2] 75/9 96/7</p> <p>officially [2] 3/15 75/12</p> <p>often [5] 74/23 101/4 103/18 103/25 118/4</p> <p>oh [1] 147/21</p> <p>old [1] 98/4</p> <p>once [4] 23/1 69/11 90/18 95/10</p> <p>oncology [1] 56/11</p> <p>one [86] 2/20 5/20 12/1 13/9 16/7 16/10 19/5 19/11 23/22 23/23 24/16 25/4 25/25 32/7 33/18 39/18 41/16 41/25 42/4 46/11 46/16 49/16 50/9 53/17 53/21 54/3 56/4 56/5 58/23 58/24 60/17 61/4 61/6 63/16 66/10 68/16 69/18 74/9 74/15 74/22 80/20 84/11 84/15 86/7 87/6 90/3 90/17 93/25 94/3 94/10 94/11 94/12 95/8 101/17 102/10 106/22 108/2 108/5 109/4 110/24 115/3 115/4 115/16 116/15 117/4 117/24 118/19 119/8 127/13 133/14 135/15 135/16 139/10 140/11 144/11 147/10 148/10 149/3 149/4 150/1 152/9 152/14 153/14 154/14 159/9</p>	<p>160/10</p> <p>one-quarter [1] 2/20</p> <p>ones [1] 54/25</p> <p>ongoing [3] 97/10 126/22 146/24</p> <p>online [1] 105/21</p> <p>only [51] 3/13 5/1 5/4 6/3 7/25 8/8 8/17 9/25 10/8 16/10 19/5 19/11 24/16 28/19 29/14 29/19 36/12 36/20 38/19 41/25 42/4 63/7 64/22 74/15 74/22 79/6 90/17 91/21 107/15 110/7 113/25 125/25 128/6 131/11 132/19 133/12 134/1 135/18 137/18 138/1 138/6 138/18 140/11 143/10 143/25 144/3 144/9 148/6 159/5 159/9 163/10</p> <p>onwards [14] 7/7 11/17 12/14 31/19 62/20 64/23 122/1 126/16 131/24 132/14 135/12 142/2 149/3 149/9</p> <p>open [2] 62/22 126/7</p> <p>opening [1] 55/22</p> <p>operate [2] 41/2 41/8</p> <p>operation [1] 118/19</p> <p>operations [4] 13/3 88/9 121/3 121/11</p> <p>operative [1] 153/13</p> <p>opinion [1] 83/17</p> <p>opportunity [1] 43/16</p> <p>option [1] 159/7</p> <p>or [110] 3/18 5/20 9/23 11/3 11/25 12/7 12/14 13/12 19/21 21/1 22/5 22/11 22/12 22/13 22/17 22/23 23/1 23/9 23/15 29/9 31/24 32/4 37/25 39/16 39/18 40/13 42/17 42/17 42/18 43/20 43/24 44/2 44/24 46/16 46/17 46/25 51/12 54/21 58/19 62/16 66/4 66/17 66/21 69/22 70/23 71/4 71/13 72/1 72/22 73/13 80/15 81/4 86/7 88/3 89/5 90/5 96/20 101/19 102/7 102/21 105/10 106/3 106/5 106/14 107/8 111/6 111/19 112/7 114/9 115/22 116/8 117/5 123/21 124/6 126/11 128/24</p>	<p>129/2 129/15 130/13 130/14 130/15 130/15 130/25 131/9 132/14 133/13 133/16 134/9 138/25 140/14 143/22 145/4 146/6 146/9 147/23 148/16 148/22 149/7 151/22 157/1 157/13 157/22 157/23 159/17 160/16 161/13 162/12 162/13 162/16 164/17</p> <p>or HIV [1] 146/9</p> <p>orally [1] 1/14</p> <p>order [1] 46/21</p> <p>organise [1] 96/23</p> <p>organised [5] 11/24 12/5 26/7 74/17 96/5</p> <p>original [1] 113/12</p> <p>originally [1] 74/13</p> <p>origins [1] 95/21</p> <p>orthopaedic [1] 76/18</p> <p>orthopaedics [1] 135/9</p> <p>Oscier [6] 46/1 73/12 73/22 92/21 92/25 93/18</p> <p>other [50] 2/9 6/2 6/21 8/1 8/22 10/12 17/5 20/12 20/19 21/22 21/24 22/10 22/17 23/13 30/25 37/21 41/4 44/1 44/7 46/16 51/7 52/25 63/4 64/11 68/7 68/13 68/25 75/10 78/17 82/6 93/18 101/8 103/23 105/6 110/15 112/2 114/15 114/17 120/3 121/9 130/16 142/3 145/24 146/4 153/19 154/5 158/21 162/4 162/25 163/10</p> <p>others [10] 12/9 19/6 20/4 21/16 23/5 31/17 39/19 47/2 75/7 88/19</p> <p>ought [1] 64/12</p> <p>our [24] 13/13 13/20 25/9 39/19 41/3 41/17 41/21 44/9 51/8 58/6 72/19 77/16 89/20 94/23 100/3 113/14 113/15 113/16 117/14 117/24 127/12 133/12 133/24 161/3</p> <p>ourselves [1] 13/20</p> <p>out [48] 4/17 10/22 12/12 12/22 13/14 25/17 26/1 26/18 26/20 26/23 29/16 37/17 38/14 44/9 46/15 49/20 52/5 56/9</p>
--	---	--	--	--	--

<p>O</p> <p>out... [30] 58/16 62/12 63/23 83/14 85/10 85/16 86/18 87/21 88/13 88/24 90/1 102/1 106/3 113/10 113/14 119/1 127/13 128/19 128/24 141/2 147/3 153/10 154/25 155/18 156/22 157/2 157/6 159/4 159/5 163/17</p> <p>out-patient [1] 56/9 out-patients [2] 13/14 25/17</p> <p>outbreak [8] 63/11 84/22 85/3 85/9 86/16 86/21 87/19 89/6</p> <p>outcome [1] 91/16 outlined [1] 49/13 outpatient [1] 56/13 outpatients [1] 132/10</p> <p>outside [1] 98/4 outweigh [1] 161/15 over [63] 3/21 11/5 11/18 13/15 15/1 15/12 15/14 15/21 15/24 15/25 16/12 21/7 24/13 28/15 34/16 36/6 36/24 37/23 43/14 48/16 55/13 60/16 67/17 71/15 73/9 73/16 73/23 81/20 89/2 96/16 101/17 102/22 105/17 108/1 109/17 111/7 112/14 118/8 119/9 122/23 123/5 123/12 123/24 124/14 124/16 136/14 136/15 137/10 142/10 142/13 142/17 142/18 143/1 143/21 144/15 153/22 153/23 155/2 156/14 159/1 159/22 159/23 160/16</p> <p>overall [8] 10/2 29/3 81/8 81/11 82/4 125/9 144/25 150/17</p> <p>overseas [1] 133/16 overstretched [1] 130/20</p> <p>overwhelming [2] 137/1 144/1</p> <p>own [4] 13/20 102/20 118/7 129/4</p> <p>Oxford [13] 44/8 54/16 73/14 77/14 78/5 84/17 92/23 113/14 115/14 119/18</p>	<p>126/21 139/2 146/24 OXUH0000642 [1] 120/16 OXUH0001890 [2] 38/12 38/24 OXUH0003765 [1] 54/12</p> <p>P</p> <p>pack [2] 5/1 5/15 paediatrics [2] 119/24 135/9</p> <p>page [110] 4/6 4/22 7/10 13/4 13/15 14/1 14/8 14/21 15/8 15/19 16/3 19/2 26/12 26/24 27/10 28/2 30/7 30/24 33/6 33/22 38/25 43/14 48/16 48/19 51/17 54/17 54/18 56/20 56/21 67/13 67/17 68/22 69/4 71/15 74/3 74/3 75/23 75/23 77/1 79/15 80/20 81/1 83/17 84/5 84/18 86/20 86/22 87/18 90/23 91/2 91/3 91/10 91/11 91/13 91/14 93/17 95/21 96/16 96/16 96/17 96/18 98/14 100/22 102/2 102/22 103/11 105/2 106/11 108/21 111/2 111/5 114/22 114/23 115/1 117/15 120/10 122/4 127/23 128/10 129/9 133/3 134/11 134/14 134/15 135/22 139/23 140/18 142/21 145/7 148/8 148/9 153/22 153/23 154/18 155/2 155/12 155/22 156/14 156/21 156/24 157/15 159/1 159/6 159/14 159/16 159/17 159/19 160/14 160/24 163/15</p> <p>page 10 [1] 120/10 page 13 [1] 129/9 page 15 [1] 80/20 page 2 [4] 7/10 33/22 140/18 142/21 page 21 [1] 81/1 page 23 [1] 4/6 page 26 [1] 26/12 page 27 [1] 14/8 page 3 [2] 28/2 135/22 page 4 [7] 19/2 79/15 90/23 91/3 108/21 122/4 159/16 page 5 [5] 27/10</p>	<p>75/23 84/5 96/16 117/15</p> <p>page 6 [1] 14/21 page 7 [3] 96/17 103/11 160/14 page 8 [1] 15/19 page 9 [2] 15/8 33/6 pages [4] 19/9 80/20 91/1 160/16</p> <p>paid [2] 86/11 103/22 paints [1] 45/1 paper [1] 105/20 paragraph [48] 2/11 2/14 3/12 13/5 25/11 25/18 25/23 40/1 64/2 69/24 70/1 71/17 78/2 78/3 78/25 84/16 85/21 86/3 91/22 92/24 93/21 100/6 100/12 100/23 101/10 102/3 102/12 102/23 104/12 105/16 106/11 106/20 113/23 115/15 116/12 116/13 117/18 120/19 129/9 132/24 133/4 133/21 152/8 153/8 155/3 161/1 161/6 162/7</p> <p>Paragraph 1 [1] 25/11 paragraph 16 [1] 100/23 paragraph 25 [1] 102/3 paragraph 27 [1] 102/12 paragraph 28 [1] 129/9 paragraph 31 [1] 102/23</p> <p>paragraph 4 [1] 25/18 paragraph 51 [1] 106/11 paragraph 52 [1] 106/20 paragraph 7 [2] 25/23 78/2 paragraphs [2] 127/5 158/3</p> <p>parents [4] 22/11 65/8 160/11 161/13 Park [1] 131/17 Parry [11] 46/2 148/20 148/22 152/7 152/16 154/25 160/25 162/6 162/20 163/16 164/11</p> <p>part [11] 1/23 11/25 22/16 25/3 49/22 64/13 101/20 103/22 112/14 127/22 146/24</p> <p>participating [1] 38/10</p>	<p>particular [29] 16/14 21/18 22/1 30/17 39/15 41/13 42/20 50/17 50/21 51/18 84/11 92/7 99/8 99/15 108/17 116/2 132/21 138/5 142/4 146/6 146/7 151/22 151/23 152/10 153/1 162/13 162/17 163/11 163/14 particularly [3] 64/14 130/2 165/10 partner [2] 53/22 158/23 partners [1] 69/10 Party [3] 161/7 161/10 163/2 pass [1] 25/24 passage [1] 37/6 past [4] 39/9 68/20 95/2 102/20 paternalism [1] 160/6 pathologist [2] 14/3 148/21 pathology [2] 131/17 131/19 patient [85] 24/16 25/25 26/1 27/5 33/18 39/13 39/15 48/8 49/23 51/16 51/19 52/4 52/9 52/22 53/18 54/5 56/9 56/25 61/7 62/13 67/21 68/16 72/10 80/2 83/18 86/5 91/8 91/11 91/11 91/14 91/17 92/6 99/8 99/15 106/23 108/5 110/24 114/10 115/3 115/9 115/16 116/2 116/9 116/10 116/14 117/25 118/9 118/13 121/20 135/16 135/20 139/10 140/21 147/5 148/10 149/4 150/3 153/4 153/7 153/22 153/24 155/13 156/9 156/12 156/12 156/16 156/25 157/4 157/8 157/17 157/22 158/7 158/11 158/15 158/17 159/8 159/20 159/22 160/5 160/7 161/4 161/16 162/8 162/14 163/15 patient's [5] 43/5 43/7 69/3 94/11 162/13 patients [296] patients' [1] 49/10 pattern [13] 8/4 8/11 9/12 16/10 19/9 29/7 29/16 34/20 60/8 60/24 81/16 112/12</p>	<p>123/2 PCR [2] 69/2 113/18 Penzance [1] 57/19 people [5] 45/2 74/24 80/5 103/25 115/7 per [4] 4/25 16/25 17/9 79/5 perceived [1] 86/1 Percy [1] 1/10 performed [3] 71/6 71/14 113/19 perhaps [11] 6/14 7/21 9/13 9/17 45/6 63/16 103/7 114/21 141/12 159/21 165/12 period [9] 3/15 8/24 80/7 113/4 118/9 125/25 126/15 132/4 141/23 person [1] 67/3 Persons [1] 77/9 perspective [4] 22/18 64/19 84/25 97/24 Phillips [3] 131/23 132/17 139/14 Phillips' [1] 131/23 PHLS [1] 49/6 physical [1] 95/13 physician [4] 55/24 65/6 130/25 130/25 pick [33] 3/7 7/8 8/19 14/19 16/16 29/6 33/5 34/19 45/5 45/14 59/21 76/9 81/17 82/1 83/6 94/24 96/10 100/20 102/2 103/8 106/10 111/8 117/17 129/10 134/14 135/21 140/17 142/6 149/5 149/24 151/24 153/25 165/12 picking [4] 64/2 105/2 107/23 133/3 picks [1] 99/19 picture [58] 3/7 9/4 9/6 10/2 11/10 12/22 14/18 15/9 16/16 19/4 19/14 20/2 20/6 21/13 22/8 24/20 26/10 27/20 28/17 28/25 33/5 35/6 35/18 36/13 36/14 45/1 45/1 59/21 60/22 61/3 61/18 64/22 76/21 81/9 82/1 89/12 94/25 97/24 111/8 114/13 119/1 122/16 135/11 136/18 137/1 137/7 137/17 143/2 143/24 144/1 146/3 149/5 149/24 150/24 151/19 153/25 160/19 165/6</p>	<p>piece [2] 52/25 162/4 pin [1] 108/19 Pinkerton [5] 148/20 148/20 162/20 162/21 163/7 pint [1] 102/9 place [6] 10/17 13/10 22/23 31/17 123/25 131/5 placed [2] 13/24 88/1 plain [1] 20/23 plainly [2] 6/5 82/8 plan [1] 39/16 planned [1] 128/2 plasma [18] 26/5 41/17 41/20 43/18 46/12 48/25 49/1 56/14 77/19 86/10 87/5 87/7 106/23 128/14 149/13 152/9 153/23 154/3 plasmapheresis [1] 86/11 platelets [1] 104/15 played [1] 101/20 please [23] 2/5 4/2 7/9 8/20 14/7 14/21 15/19 19/14 29/7 33/6 33/21 45/19 47/10 47/21 76/12 84/25 91/19 103/11 111/4 129/8 133/3 134/14 140/17 pleased [1] 76/6 plus [7] 21/8 35/10 68/5 122/10 123/24 125/5 150/19 Plymouth [35] 55/2 57/20 95/1 95/2 95/7 95/12 95/14 95/22 96/4 96/8 96/17 96/21 97/12 97/23 98/2 98/12 98/18 98/23 99/2 99/4 99/10 100/25 102/24 103/10 106/3 107/12 107/16 108/4 112/13 113/6 114/7 114/22 115/3 115/13 117/9 pm [5] 95/4 95/6 141/17 141/19 165/16 point [13] 5/23 7/18 13/1 55/8 55/20 58/17 62/19 69/5 73/21 88/24 106/17 140/11 159/5 pointed [1] 37/17 police [1] 98/4 policies [2] 100/24 146/6 policy [10] 13/13 16/9 92/2 102/25 107/2</p>
---	--	--	--	---	---

(59) out... - policy

<p>P</p> <p>policy... [5] 107/3 113/15 113/17 121/1 152/21</p> <p>pool [12] 46/12 48/25 66/21 86/23 87/8 87/14 87/16 88/15 89/17 89/18 152/10 154/4</p> <p>Poole [2] 73/20 73/22</p> <p>pooled [2] 102/15 103/4</p> <p>pools [4] 41/17 86/10 87/5 87/10</p> <p>poor [1] 49/7</p> <p>Portakabin [1] 98/3</p> <p>Portsmouth [6] 46/2 73/6 73/10 74/16 74/23 154/16</p> <p>posed [1] 158/10</p> <p>position [10] 2/15 11/23 12/22 55/12 55/14 69/19 75/4 92/16 117/8 155/17</p> <p>positive [30] 11/2 23/22 32/6 51/21 65/2 65/25 66/24 67/1 68/24 69/2 69/6 69/11 70/11 72/11 72/12 83/13 93/13 104/15 106/23 115/10 115/17 116/14 140/20 141/3 147/18 147/25 148/5 148/10 164/15 164/22</p> <p>possibility [7] 36/16 74/6 116/18 146/15 156/9 158/8 158/24</p> <p>possible [10] 13/14 29/23 40/25 44/2 78/4 93/7 107/14 118/12 128/16 164/23</p> <p>possibly [2] 100/6 100/8</p> <p>post [11] 11/19 73/6 73/11 89/16 118/9 119/20 125/15 125/20 126/16 129/12 130/4</p> <p>post-transfusion [1] 89/16</p> <p>potency [3] 4/25 5/9 5/25</p> <p>potential [7] 22/13 26/23 50/21 51/22 63/14 83/10 102/9</p> <p>potentially [7] 23/3 40/10 47/5 53/1 107/11 111/25 162/12</p> <p>practice [1] 126/7</p> <p>practising [1] 153/7</p> <p>pre [2] 42/18 163/4</p> <p>pre-AIDS [1] 42/18</p>	<p>precise [2] 109/22 155/15</p> <p>predecessor [1] 44/12</p> <p>predecessors [1] 112/24</p> <p>predominance [1] 18/22</p> <p>predominant [3] 9/7 17/19 122/12</p> <p>predominantly [1] 110/18</p> <p>predominates [1] 18/20</p> <p>prefer [7] 4/12 5/1 5/4 14/12 26/16 79/20 121/12</p> <p>preference [7] 5/23 26/21 26/21 39/19 80/1 120/12 120/13</p> <p>preferences [1] 120/6</p> <p>preferential [1] 128/7</p> <p>preferred [1] 102/7</p> <p>Prentice [7] 97/18 97/21 100/21 103/8 106/13 107/24 112/20</p> <p>Prentice's [5] 97/24 100/19 107/21 114/18 115/6</p> <p>preparation [1] 56/15</p> <p>prepare [2] 13/20 121/5</p> <p>prepared [7] 86/9 87/10 87/11 87/17 87/23 87/24 154/2</p> <p>present [11] 37/15 38/22 45/24 120/21 124/9 127/16 134/1 147/5 153/14 158/14 160/3</p> <p>Presentation [2] 1/3 166/2</p> <p>presented [3] 6/19 163/1 163/4</p> <p>presenting [2] 24/17 131/2</p> <p>presently [1] 148/7</p> <p>presents [1] 120/20</p> <p>Press [1] 161/19</p> <p>presumably [9] 5/10 5/25 6/18 12/6 52/16 58/19 66/16 78/2 148/11</p> <p>presume [1] 70/3</p> <p>prevent [2] 46/21 62/8</p> <p>preventative [1] 158/21</p> <p>prevention [1] 155/9</p> <p>previous [10] 8/2 14/1 17/14 39/10 62/8 109/17 118/15 129/17 144/23 150/24</p>	<p>previously [5] 25/1 38/20 39/13 77/25 89/10</p> <p>principal [1] 77/2</p> <p>prior [4] 43/4 43/6 61/24 130/24</p> <p>priorities [1] 146/6</p> <p>prioritise [1] 10/6</p> <p>priority [1] 129/13</p> <p>probably [10] 40/9 50/19 52/14 92/12 93/2 93/5 126/10 138/18 143/4 162/9</p> <p>problem [9] 13/9 13/16 37/8 37/18 47/12 50/8 158/18 158/19 159/2</p> <p>problematic [1] 48/7</p> <p>problems [5] 37/18 37/22 84/19 120/20 157/25</p> <p>procedure [1] 56/14</p> <p>procedures [1] 77/25</p> <p>proceed [1] 154/22</p> <p>process [4] 69/16 105/19 148/16 156/22</p> <p>processes [3] 23/9 66/8 72/17</p> <p>produce [1] 77/18</p> <p>produced [1] 41/18</p> <p>product [123] 6/13 6/19 7/12 8/9 8/13 8/14 9/1 9/2 9/3 9/7 9/9 9/10 9/24 9/25 15/5 15/5 15/10 17/6 17/11 17/20 17/24 19/6 19/18 19/23 19/24 21/6 21/20 27/11 28/14 29/2 29/25 34/12 34/24 35/9 35/10 35/19 36/8 36/24 38/20 39/16 39/18 39/23 40/22 40/23 41/10 42/5 43/1 52/5 52/13 52/16 52/21 59/20 62/6 80/16 80/16 81/5 81/12 82/4 82/16 83/25 85/15 90/5 90/6 101/3 101/7 101/17 101/19 101/23 102/8 102/11 103/6 106/17 107/7 108/10 108/13 108/22 109/14 110/8 111/20 112/5 116/16 116/22 117/1 117/5 123/5 123/10 123/21 124/13 124/20 125/1 125/3 125/8 125/8 125/9 125/23 128/6 136/1 136/11 136/12 136/14 136/19 137/2</p>	<p>137/19 138/2 138/13 138/23 142/12 142/16 142/17 142/23 143/1 143/3 143/10 143/17 143/22 144/4 144/8 144/9 145/10 149/6 150/25 151/13 151/19</p> <p>production [2] 14/5 77/17</p> <p>productive [1] 153/6</p> <p>products [60] 7/6 18/15 18/16 20/11 21/1 27/7 27/10 33/8 36/4 39/6 39/9 39/21 40/16 45/3 57/7 58/2 60/9 61/8 62/2 62/3 77/21 80/13 81/10 81/11 82/23 87/16 98/12 99/2 100/22 101/2 101/9 101/12 102/21 103/4 103/18 104/3 105/5 105/7 106/1 106/8 107/2 107/18 107/23 108/7 115/24 115/25 116/1 116/21 119/25 120/12 125/16 126/9 128/14 135/25 138/1 146/7 150/10 151/17 151/21 151/22</p> <p>Professor [16] 2/7 2/16 10/22 23/4 24/23 25/6 26/8 26/13 31/15 37/13 74/21 75/7 95/24 96/2 106/12 106/15</p> <p>Professor Bloom [5] 10/22 23/4 37/13 106/12 106/15</p> <p>Professor Davidson [4] 24/23 25/6 26/13 31/15</p> <p>Professor Hardisty [1] 74/21</p> <p>Professor Ingram [2] 2/7 2/16</p> <p>Professor JL [1] 95/24</p> <p>Profilate [9] 15/5 15/6 15/12 16/2 27/16 27/25 28/22 29/20 30/3</p> <p>programme [3] 41/16 121/17 139/9</p> <p>prompting [1] 72/14</p> <p>promptly [2] 13/8 49/2</p> <p>proof [1] 37/15</p> <p>prophylactic [3] 5/6 6/23 7/3</p> <p>proportion [2] 2/25 25/22</p>	<p>proportionately [1] 124/3</p> <p>proportions [1] 81/8</p> <p>propose [1] 160/15</p> <p>proposing [3] 90/25 118/25 132/4</p> <p>pros [1] 159/4</p> <p>prospect [1] 36/1</p> <p>Prothero [1] 74/8</p> <p>protocol [1] 87/24</p> <p>provide [7] 42/24 51/17 53/15 70/15 78/17 120/22 126/8</p> <p>provided [13] 11/20 44/23 50/13 55/15 65/1 95/15 101/23 114/25 117/21 130/14 131/16 132/3 134/23</p> <p>provides [4] 85/8 131/11 132/24 152/24</p> <p>providing [3] 23/10 39/9 55/25</p> <p>provision [3] 1/25 22/9 125/24</p> <p>provisional [1] 64/25</p> <p>PRSE0001794 [1] 84/25</p> <p>psychological [1] 100/1</p> <p>public [3] 71/10 85/2 161/18</p> <p>publication [5] 56/19 57/5 73/1 104/9 104/10</p> <p>published [1] 128/23</p> <p>pupils [1] 48/11</p> <p>purchase [1] 99/5</p> <p>purchasing [1] 101/2</p> <p>purpose [3] 36/18 56/10 162/11</p> <p>purposes [9] 5/6 6/23 7/3 45/24 124/9 137/2 137/3 153/14 163/18</p> <p>pursued [2] 75/2 152/21</p> <p>put [12] 20/13 37/4 47/14 47/19 49/19 49/21 49/24 50/24 55/16 65/19 89/24 109/19</p> <p>putting [2] 2/19 47/22</p>	<p>14/16 39/12 44/22 57/3 58/20 68/13 69/8 79/19 83/4 112/25 118/23 120/13 125/23 126/25 156/25 158/10 159/21 160/4 160/7</p> <p>questionnaire [8] 4/19 5/11 14/7 26/12 66/12 79/14 79/15 120/9</p> <p>questionnaires [1] 4/3</p> <p>questions [5] 4/16 39/2 69/23 112/18 160/10</p> <p>quicker [1] 16/19</p> <p>quickly [1] 152/14</p> <p>quite [9] 41/6 80/3 92/11 110/17 118/8 122/5 138/3 145/10 152/22</p> <p>quoted [1] 46/9</p> <hr/> <p>R</p> <p>radios [1] 164/1</p> <p>raise [1] 57/3</p> <p>raised [7] 36/1 36/16 37/8 38/2 56/12 74/10 91/12</p> <p>raises [1] 77/6</p> <p>raising [1] 41/12</p> <p>ran [2] 132/9 135/6</p> <p>range [18] 3/23 7/17 20/7 27/2 27/10 27/23 28/21 29/18 34/13 35/20 43/23 48/17 53/25 56/6 77/12 82/6 149/1 150/7</p> <p>rarely [1] 10/8</p> <p>rate [2] 6/4 108/14</p> <p>rather [14] 5/11 8/7 9/10 17/2 34/3 60/12 72/22 83/20 110/16 113/3 127/13 129/4 130/8 160/4</p> <p>ratio [1] 43/9</p> <p>RCH [1] 71/20</p> <p>RCH-T [1] 71/20</p> <p>re [1] 65/16</p> <p>re-tested [1] 65/16</p> <p>reach [1] 133/15</p> <p>reaction [2] 90/19 91/4</p> <p>reactions [2] 90/21 129/24</p> <p>read [8] 37/5 49/21 104/6 104/10 105/18 110/22 118/25 140/19</p> <p>readily [1] 77/13</p> <p>reading [2] 105/20 145/4</p> <p>reads [2] 46/6 85/21</p>
--	---	---	---	---	---

<p>R</p> <p>real [2] 130/14 138/23</p> <p>realise [1] 93/2</p> <p>really [2] 68/16 125/25</p> <p>reason [7] 7/5 46/11 50/25 67/4 79/7 110/13 120/21</p> <p>reasonable [6] 10/19 23/3 44/18 60/13 62/20 139/15</p> <p>reasonably [7] 16/22 30/1 39/22 59/13 60/18 82/18 109/13</p> <p>reasons [1] 100/1</p> <p>reassure [1] 162/12</p> <p>recall [23] 1/13 3/3 10/3 24/2 49/2 62/13 65/7 65/25 100/21 101/1 101/7 103/13 103/20 106/2 106/9 106/14 107/1 107/16 107/18 112/20 127/18 164/19 165/4</p> <p>recalled [4] 46/10 46/19 103/8 154/5</p> <p>recalls [6] 24/17 129/6 130/12 131/6 139/9 165/2</p> <p>receipt [3] 23/3 91/25 119/17</p> <p>receive [8] 19/5 19/11 19/11 19/12 37/25 40/22 77/20 121/8</p> <p>received [46] 10/20 10/21 10/25 12/17 16/7 22/4 23/14 23/20 24/6 32/3 32/24 39/8 39/9 40/3 40/7 42/15 42/20 42/24 44/19 44/24 49/7 53/24 58/1 62/21 62/22 64/12 66/7 66/21 75/9 75/19 84/10 85/18 113/12 114/9 119/14 139/16 140/4 153/16 154/8 154/10 154/12 156/1 156/12 161/12 164/18 164/21</p> <p>receives [2] 2/20 2/22</p> <p>receiving [5] 19/7 43/4 43/6 83/13 140/7</p> <p>recent [3] 38/14 39/2 53/6</p> <p>recently [2] 91/24 118/1</p> <p>recipient [1] 155/16</p> <p>recipients [7] 48/18 77/2 89/25 93/17 152/15 154/25 155/6</p> <p>recognised [3] 55/9</p>	<p>62/19 134/3</p> <p>recognition [1] 133/12</p> <p>recollection [20] 1/17 3/4 10/5 23/25 24/19 62/10 64/24 65/20 102/7 105/11 107/21 114/18 115/6 119/19 130/1 130/13 131/3 131/8 131/10 131/12</p> <p>recommend [1] 69/9</p> <p>recommendation [1] 65/14</p> <p>recommendations [1] 88/18</p> <p>recommended [1] 69/13</p> <p>record [5] 62/25 80/21 84/14 102/20 156/15</p> <p>recorded [9] 12/9 19/6 65/2 72/9 73/14 75/7 81/13 82/13 124/12</p> <p>recording [1] 30/7</p> <p>records [10] 37/6 56/25 57/4 70/12 71/16 73/8 74/3 94/15 120/10 135/15</p> <p>recover [1] 48/23</p> <p>recovered [2] 154/7 154/9</p> <p>red [2] 153/23 164/7</p> <p>redacted [3] 47/11 47/13 153/2</p> <p>reduce [2] 87/3 105/6</p> <p>reduced [7] 17/14 22/13 34/1 38/11 38/15 39/4 153/23</p> <p>reducing [1] 105/5</p> <p>reduction [2] 105/4 107/5</p> <p>refer [3] 77/14 97/21 158/24</p> <p>reference [37] 3/17 11/21 12/7 31/1 46/7 50/1 51/25 65/18 77/14 78/2 78/5 78/17 89/11 93/5 93/9 93/24 94/14 106/11 109/18 109/20 109/24 109/25 111/23 119/12 125/17 130/8 132/6 139/23 147/2 148/10 148/11 152/18 153/12 153/20 153/23 158/3 163/22</p> <p>references [1] 55/17</p> <p>referred [8] 22/6 24/18 44/15 62/6 69/6 74/5 89/20 132/19</p> <p>referring [1] 24/7</p> <p>refers [13] 64/7 83/12 84/16 88/16 97/7</p>	<p>99/10 99/24 100/10 135/5 153/14 155/3 158/22 161/1</p> <p>reflect [2] 70/21 141/6</p> <p>reflected [1] 10/10</p> <p>reflecting [1] 125/16</p> <p>reflection [1] 80/4</p> <p>reflects [2] 66/4 108/16</p> <p>refused [4] 39/5 40/2 40/3 40/4</p> <p>refusing [3] 37/9 127/9 128/1</p> <p>regard [1] 128/7</p> <p>regarded [1] 84/1</p> <p>regarding [6] 44/4 50/5 65/10 94/8 127/25 130/15</p> <p>regards [3] 39/12 79/1 92/16</p> <p>region [14] 1/24 2/10 37/18 54/16 57/17 63/20 74/15 74/23 96/20 127/11 128/9 128/13 142/4 152/7</p> <p>regional [35] 2/13 2/18 26/9 32/25 45/16 45/21 57/10 71/10 74/14 75/19 76/10 76/13 76/24 83/8 83/9 93/20 96/13 96/14 97/8 98/15 98/20 98/24 99/3 99/18 101/14 101/15 119/15 127/3 142/5 147/20 151/25 152/5 160/21 160/22 161/24</p> <p>registered [8] 3/18 12/24 40/20 53/7 53/8 53/11 53/19 66/20</p> <p>registrar [2] 1/15 104/14</p> <p>registrars [1] 1/20</p> <p>regular [12] 22/25 31/18 44/13 62/24 64/20 103/17 120/11 121/20 133/13 153/14 157/18 162/20</p> <p>regularly [7] 4/9 14/11 26/15 67/14 79/17 85/17 104/10</p> <p>regulars [1] 79/17</p> <p>relate [3] 3/14 99/21 160/4</p> <p>related [7] 24/18 77/10 135/3 139/19 139/24 156/10 162/3</p> <p>relates [1] 126/15</p> <p>relating [12] 40/16 56/3 71/16 78/8 87/19 92/8 97/11 115/23 146/19 148/16 164/11</p>	<p>164/13</p> <p>relation [99] 4/16 4/17 5/24 9/23 11/7 11/10 12/22 16/11 18/15 22/10 22/14 23/10 27/20 32/8 33/3 38/9 41/9 45/15 45/18 48/13 49/15 51/16 52/22 54/2 54/9 54/11 56/22 58/10 60/3 60/7 64/11 64/15 64/18 66/8 69/10 69/12 69/17 72/17 78/24 83/3 83/23 84/5 86/23 89/12 90/21 91/2 91/10 92/16 93/11 93/14 93/21 94/4 94/22 95/12 99/8 100/21 102/24 102/25 105/14 106/4 107/5 110/3 110/22 112/12 112/22 114/15 114/16 115/3 115/8 116/19 117/1 117/8 117/11 120/6 125/4 125/23 126/21 132/25 136/10 136/23 136/23 140/25 140/25 141/11 141/23 144/24 145/15 148/4 148/6 149/5 151/19 151/24 152/25 153/25 154/23 160/19 162/5 164/24 165/6</p> <p>relationship [1] 57/24</p> <p>relative [4] 13/17 22/12 89/18 103/13</p> <p>relatively [17] 6/25 18/13 20/15 27/17 28/11 28/18 29/2 29/11 32/1 35/2 36/5 36/24 86/8 135/14 145/15 148/25 149/21</p> <p>release [1] 100/8</p> <p>relevance [2] 64/1 163/18</p> <p>relevant [5] 11/6 49/22 95/8 127/22 160/2</p> <p>reliance [1] 88/1</p> <p>remain [1] 20/18</p> <p>remained [9] 8/23 11/19 32/20 55/12 55/14 73/6 73/11 97/19 119/9</p> <p>remaining [2] 1/7 2/21</p> <p>remains [4] 19/15 20/20 21/16 36/19</p> <p>remarkably [1] 20/19</p> <p>remember [13] 70/2 70/7 70/10 71/3 71/13 100/24 101/4 101/11 101/13 101/22 101/24</p>	<p>101/25 106/16</p> <p>remembering [1] 66/3</p> <p>remove [1] 134/2</p> <p>renamed [1] 104/23</p> <p>rendering [1] 43/17</p> <p>reorganisation [1] 132/20</p> <p>repeated [2] 60/8 64/3</p> <p>replacement [1] 26/3</p> <p>replied [1] 37/13</p> <p>reply [1] 25/8</p> <p>report [14] 51/3 84/6 84/13 86/16 89/5 92/21 93/7 94/13 95/23 115/22 146/23 148/10 163/1 163/5</p> <p>reported [12] 37/21 51/7 51/9 54/21 63/3 83/22 90/16 90/21 94/11 94/16 94/19 118/10</p> <p>reporting [8] 44/2 83/8 84/8 90/14 90/19 92/9 93/6 146/20</p> <p>reports [4] 10/4 90/9 91/1 128/22</p> <p>representatives [1] 117/13</p> <p>representing [1] 164/6</p> <p>represents [1] 118/15</p> <p>request [6] 43/21 46/18 77/24 100/4 100/11 147/22</p> <p>requested [2] 72/13 157/24</p> <p>requesting [1] 99/13</p> <p>requests [3] 49/7 49/9 121/9</p> <p>require [3] 39/14 76/19 133/13</p> <p>required [4] 4/21 10/8 25/20 87/22</p> <p>requirements [2] 76/15 128/12</p> <p>research [2] 70/25 71/23</p> <p>reserved [4] 88/7 88/11 110/6 143/7</p> <p>resources [1] 13/25</p> <p>respiratory [1] 130/25</p> <p>respond [2] 67/20 68/15</p> <p>responded [3] 43/21 49/17 106/14</p> <p>responding [2] 14/8 147/22</p> <p>response [22] 3/9 4/4 9/22 12/20 14/6 26/11 38/24 49/7 49/9 68/4 68/13 69/3 69/22 79/15 100/9 120/8</p>	<p>120/9 120/17 121/17 127/20 127/22 161/25</p> <p>responses [1] 102/21</p> <p>responsibility [1] 155/5</p> <p>responsible [2] 89/1 90/6</p> <p>rest [2] 56/25 127/11</p> <p>restart [2] 47/16 47/20</p> <p>result [6] 41/15 51/24 52/1 87/7 101/19 157/10</p> <p>results [9] 23/22 51/3 66/1 72/1 113/21 129/14 129/16 129/23 147/14</p> <p>retain [1] 121/1</p> <p>retained [1] 80/24</p> <p>reticent [1] 103/20</p> <p>retired [3] 88/24 97/15 132/2</p> <p>retirement [2] 32/20 129/18</p> <p>retrospective [2] 89/8 148/12</p> <p>retrospectively [1] 72/2</p> <p>return [28] 7/8 7/21 8/5 8/17 16/11 18/3 20/14 30/7 31/12 34/8 42/7 48/23 58/7 59/8 60/11 80/10 82/12 108/4 109/19 112/6 112/9 118/2 135/14 136/5 137/24 141/25 149/18 156/19</p> <p>returned [4] 46/10 46/19 94/7 129/17</p> <p>returns [37] 3/22 10/10 11/17 14/19 18/7 20/3 20/4 21/24 24/23 26/25 27/8 27/12 30/9 30/12 33/4 36/14 58/25 62/12 73/13 80/2 80/8 80/23 88/21 107/22 110/21 111/24 121/25 125/13 131/24 132/13 137/24 138/8 142/1 142/7 148/25 149/6 149/7 146/15 163/9</p> <p>revert [2] 37/12 130/2</p> <p>review [6] 48/5 64/21 156/8 156/22 157/7 157/18</p> <p>reviewed [1] 113/20</p> <p>ribavirin [2] 68/7 113/25</p> <p>ribavirin/other [1] 68/7</p> <p>right [11] 6/15 10/3</p>
--	---	---	---	--	---

<p>R</p> <p>right... [9] 38/19 60/1 85/1 86/22 88/24 90/4 116/10 159/5 159/24</p> <p>right-hand [2] 85/1 86/22</p> <p>risk [33] 10/14 38/17 41/23 43/23 47/13 62/15 62/17 83/2 86/5 86/8 86/12 87/8 103/9 103/16 104/13 104/19 105/5 105/6 107/5 112/21 126/17 128/21 129/2 138/24 146/8 155/13 155/15 157/5 157/9 157/17 158/23 161/15 162/19</p> <p>risks [17] 9/23 22/11 22/12 22/13 22/16 31/13 44/23 45/3 63/9 88/14 103/13 104/21 106/4 106/7 107/14 126/5 130/15</p> <p>Rizza [7] 10/23 23/5 38/12 54/21 106/12 106/15 115/14</p> <p>Rizza's [1] 38/24</p> <p>RLIT0000119 [1] 163/23</p> <p>RNA [1] 67/12</p> <p>roads [1] 97/1</p> <p>Rogers [1] 2/17</p> <p>role [3] 2/3 32/20 135/3</p> <p>room [4] 56/14 56/14 56/15 56/15</p> <p>roughly [5] 8/6 109/7 123/6 151/1 151/9</p> <p>round [1] 39/3</p> <p>routine [3] 41/21 54/4 58/3</p> <p>routinely [1] 64/20</p> <p>row [1] 76/16</p> <p>Royal [18] 32/22 56/22 71/7 71/20 72/13 72/24 73/18 74/7 75/11 76/16 77/4 85/7 94/16 104/16 119/5 141/22 146/25 148/2</p> <p>RTC [2] 48/22 154/7</p> <p>run [3] 56/12 98/1 143/4</p> <p>running [1] 86/25</p> <p>rural [1] 134/7</p> <p>rush [1] 165/11</p>	<p>safest [2] 39/24 101/7</p> <p>Safety [1] 90/12</p> <p>said [17] 24/15 51/24 52/8 68/11 74/12 74/14 74/19 74/21 76/17 84/13 97/6 97/25 125/14 127/8 127/18 140/12 159/4</p> <p>sake [1] 115/11</p> <p>Salisbury [21] 45/18 46/2 50/19 55/3 148/18 148/19 148/23 151/24 152/7 152/16 154/13 155/1 159/3 160/25 161/25 162/6 162/10 163/13 164/10 164/20 165/7</p> <p>same [17] 37/22 42/11 52/14 60/8 60/25 61/3 61/7 76/22 78/12 80/19 118/2 133/5 134/3 145/7 160/22 163/20 164/21</p> <p>sample [3] 72/4 72/4 148/12</p> <p>samples [9] 49/10 65/20 71/4 71/18 71/24 72/1 72/1 72/18 90/23</p> <p>satisfactory [1] 49/9</p> <p>save [1] 22/17</p> <p>saved [1] 117/25</p> <p>saw [3] 25/1 129/21 132/10</p> <p>say [18] 4/25 17/4 24/13 28/9 34/17 37/7 43/24 50/18 64/12 70/3 79/2 79/6 126/15 130/3 136/22 150/11 161/20 162/15</p> <p>saying [3] 38/13 38/19 68/14</p> <p>says [64] 2/16 4/23 5/18 13/4 20/12 25/18 25/23 30/25 38/25 40/24 41/14 42/12 50/2 53/5 56/7 57/25 62/9 63/21 64/18 65/23 67/3 67/13 69/25 71/17 78/25 79/17 86/3 87/1 91/22 92/25 95/23 96/8 99/24 100/11 100/23 102/3 102/23 103/12 104/11 105/14 106/20 113/23 115/14 117/19 120/19 126/1 126/7 126/9 127/6 127/24 129/10 130/20 130/22 132/8 134/11 134/13 134/15 134/24 140/21 155/6 155/13 159/6</p>	<p>161/2 161/8</p> <p>scare [1] 37/10</p> <p>scattered [1] 119/21</p> <p>scene [4] 21/25 23/17 61/22 63/7</p> <p>sceptical [2] 106/18 106/21</p> <p>scheduled [1] 98/24</p> <p>school [3] 71/2 118/14 162/13</p> <p>schooling [1] 118/17</p> <p>schools [1] 162/12</p> <p>Sciences [1] 42/11</p> <p>scientific [3] 96/13 96/14 104/5</p> <p>Scilly [1] 58/6</p> <p>Scotland [1] 31/9</p> <p>Scott [4] 127/8 127/18 127/25 128/3</p> <p>Scottish [1] 31/4</p> <p>scrawl [1] 111/7</p> <p>screen [8] 11/22 15/7 37/5 55/17 65/19 89/25 109/20 129/8</p> <p>screened [1] 67/14</p> <p>screening [2] 41/21 71/4</p> <p>season [1] 99/12</p> <p>second [35] 15/2 15/22 39/1 51/17 51/25 54/17 55/21 56/8 56/20 63/7 65/17 69/24 74/3 78/25 92/24 93/20 95/21 99/20 100/11 100/18 108/9 115/15 116/13 117/18 120/19 127/23 129/10 132/24 133/3 133/4 133/21 148/8 152/8 156/3 163/15</p> <p>seconds [1] 165/8</p> <p>secretary [2] 74/6 98/7</p> <p>Secretary's [1] 95/23</p> <p>section [2] 67/6 68/22</p> <p>section 2 [1] 67/6</p> <p>Security [2] 74/11 75/3</p> <p>see [207]</p> <p>seeing [1] 65/25</p> <p>seem [4] 27/24 88/23 93/8 143/11</p> <p>seems [13] 20/11 29/14 73/6 80/24 83/19 111/7 122/24 124/8 127/13 131/22 141/2 145/10 160/3</p> <p>seen [16] 16/4 17/5 20/4 20/19 44/1 45/2 62/18 82/25 85/17 88/21 98/10 106/5 130/24 131/19 134/18</p>	<p>139/25</p> <p>selecting [1] 156/11</p> <p>selection [1] 101/1</p> <p>self [1] 128/11</p> <p>self-sufficiency [1] 128/11</p> <p>send [5] 93/4 121/7 128/14 128/15 157/20</p> <p>sending [1] 100/6</p> <p>senior [5] 1/15 1/20 55/24 56/5 104/14</p> <p>sense [8] 33/7 33/23 40/5 40/6 68/12 115/20 135/22 137/8</p> <p>sent [19] 10/22 12/12 38/14 39/3 45/22 48/17 50/9 71/9 73/13 75/6 77/1 113/24 115/12 152/6 153/15 154/6 154/6 160/24 164/11</p> <p>sentence [4] 13/5 99/20 133/4 133/22</p> <p>separate [3] 33/19 43/1 91/10</p> <p>September [7] 63/22 73/15 89/15 115/14 117/12 126/24 162/2</p> <p>September '82 [1] 73/15</p> <p>September 1970 [1] 117/12</p> <p>September 1975 [1] 89/15</p> <p>September 1982 [1] 126/24</p> <p>September 1985 [1] 162/2</p> <p>September 1988 [1] 115/14</p> <p>sera [4] 49/10 50/8 65/23 65/24</p> <p>serial [1] 67/8</p> <p>serious [2] 63/14 70/8</p> <p>seroconversion [4] 51/18 51/22 52/23 72/10</p> <p>seroconversions [2] 50/22 116/21</p> <p>serology [1] 64/21</p> <p>serum [3] 83/19 156/20 157/19</p> <p>served [4] 1/24 45/15 93/19 142/4</p> <p>service [7] 12/12 13/11 55/9 56/2 87/3 101/13 164/7</p> <p>services [3] 78/18 130/18 130/19</p> <p>set [18] 26/23 29/16 44/8 52/4 58/16 83/14 87/21 96/21 102/1</p>	<p>128/19 141/2 147/3 152/4 153/10 154/25 155/18 156/15 163/17</p> <p>sets [5] 12/21 20/4 128/24 156/22 159/4</p> <p>setting [1] 161/6</p> <p>settled [1] 46/16</p> <p>seven [5] 50/8 85/13 143/16 150/13 150/22</p> <p>seventies [3] 11/13 89/3 92/9</p> <p>several [1] 72/7</p> <p>severe [10] 3/20 13/1 25/19 105/7 105/9 105/12 107/8 107/10 117/20 164/2</p> <p>severely [1] 88/11</p> <p>severity [1] 104/22</p> <p>sexual [3] 69/10 157/10 158/23</p> <p>shall [5] 39/17 47/19 77/20 97/21 121/8</p> <p>shared [2] 47/8 131/22</p> <p>she [52] 11/18 11/20 23/18 24/1 24/2 24/3 24/7 24/15 24/16 24/17 32/19 36/17 37/10 37/20 38/3 38/12 42/12 44/16 55/19 55/20 55/21 55/25 56/7 57/25 62/8 62/12 62/14 63/8 63/10 63/12 63/21 64/1 64/7 65/5 65/21 65/23 65/23 65/25 66/5 69/23 69/25 71/15 73/23 79/12 79/13 83/12 83/15 130/12 132/9 132/12 140/12 140/12</p> <p>she's [1] 11/23</p> <p>sheets [2] 113/9 114/4</p> <p>shift [1] 142/22</p> <p>shifted [1] 122/24</p> <p>ships [1] 76/7</p> <p>shock [1] 129/24</p> <p>short [9] 17/1 45/11 49/25 86/16 141/18 165/7 165/8 165/9 165/13</p> <p>shortage [1] 99/6</p> <p>shortages [1] 3/6</p> <p>shortfalls [1] 9/16</p> <p>shortly [2] 36/3 97/22</p> <p>should [46] 2/19 2/21 7/21 12/4 17/4 25/21 34/17 37/23 37/24 38/22 39/10 39/13 40/7 40/25 42/5 43/24 46/16 46/24 48/1 64/3</p>	<p>64/5 65/15 65/16 74/13 74/20 74/22 75/1 79/9 88/6 88/11 88/13 89/23 93/3 93/4 96/21 110/24 136/22 154/22 156/8 156/25 158/11 158/12 158/16 158/19 159/19 160/5</p> <p>shouldn't [1] 49/25</p> <p>show [6] 22/8 95/11 115/10 119/16 132/23 149/7</p> <p>showed [2] 41/21 58/10</p> <p>showing [1] 126/20</p> <p>shown [1] 76/6</p> <p>shows [18] 7/19 8/8 9/18 15/17 19/15 28/2 28/11 109/11 122/16 124/2 136/6 148/9 149/10 149/15 149/19 150/13 151/4 162/8</p> <p>sic [1] 46/5</p> <p>sick [2] 104/17 106/24</p> <p>side [2] 48/9 164/1</p> <p>significant [19] 14/25 16/22 18/20 19/20 21/4 21/20 21/21 28/20 29/17 36/5 36/21 61/4 63/1 80/13 118/16 122/18 132/11 145/16 151/5</p> <p>significantly [3] 17/2 28/9 143/20</p> <p>signing [1] 73/12</p> <p>signs [2] 42/18 147/3</p> <p>silence [1] 129/24</p> <p>similar [20] 8/4 8/11 16/11 19/9 22/8 28/25 29/7 35/18 45/1 74/17 81/9 81/16 82/25 109/8 121/8 136/13 136/18 137/12 143/2 144/25</p> <p>Simon [1] 132/1</p> <p>simply [5] 9/23 47/16 49/23 66/2 118/5</p> <p>since [6] 54/22 70/14 87/15 88/12 115/23 147/14</p> <p>single [15] 16/6 29/2 29/24 35/9 35/19 78/15 81/4 87/4 87/8 87/13 102/15 103/5 112/16 122/20 136/3</p> <p>sir [46] 1/6 11/10 16/18 32/9 40/7 45/4 45/13 48/6 48/10 54/8 60/1 65/7 66/7 72/20 89/20 92/11 94/23 95/7 95/12 97/10 109/18 110/1 112/12</p>
--	--	--	---	--	---

<p>S</p> <p>sir... [23] 112/25 114/9 115/12 117/8 124/5 130/7 131/15 134/19 138/18 140/6 141/10 141/20 144/11 145/9 146/21 146/23 148/14 150/25 152/14 159/16 159/25 165/1 165/6</p> <p>sister [1] 135/6</p> <p>site [1] 98/17</p> <p>situation [4] 96/9 158/16 160/8 161/21</p> <p>six [10] 14/23 43/9 77/22 92/4 94/15 114/20 115/5 142/8 160/16 165/8</p> <p>six pages [1] 160/16</p> <p>size [6] 27/17 33/7 87/14 109/2 134/19 135/22</p> <p>sizes [3] 86/23 89/17 89/18</p> <p>slight [2] 109/15 142/22</p> <p>slightly [8] 9/6 63/16 83/7 133/2 136/25 137/8 144/18 150/8</p> <p>small [36] 7/17 7/24 8/11 8/13 28/3 28/12 28/17 28/18 29/19 30/23 35/2 42/2 59/4 59/5 60/4 60/25 79/6 79/9 82/2 82/7 87/5 87/25 108/12 111/20 122/17 125/12 135/14 137/16 142/19 142/25 143/13 144/16 148/25 149/21 149/25 161/15</p> <p>smaller [18] 1/3 8/7 9/10 15/12 27/14 30/4 33/15 34/3 35/4 35/21 51/2 80/18 124/22 125/5 136/20 137/21 137/22 166/2</p> <p>Smith [8] 46/25 48/22 76/2 76/5 76/23 97/6 142/1 147/19</p> <p>Smith's [1] 141/24</p> <p>Snape [10] 40/18 41/6 48/14 49/18 50/3 50/13 82/22 93/25 125/21 152/19</p> <p>Snape's [1] 93/25</p> <p>snapshot [1] 99/7</p> <p>so [207]</p> <p>Social [2] 74/11 75/2</p> <p>Society [5] 73/25 75/8 95/20 104/9 117/13</p> <p>Society's [1] 75/21</p>	<p>sole [2] 59/19 142/1</p> <p>solely [1] 56/3</p> <p>some [94] 4/13 4/14 4/19 6/4 6/20 9/18 12/9 13/9 14/4 14/16 14/17 19/5 19/11 19/11 19/12 22/6 29/12 29/21 30/4 30/13 31/16 34/20 35/8 39/8 39/25 44/9 45/4 45/17 47/4 50/19 51/1 51/15 51/17 53/15 54/24 54/25 58/22 66/18 69/15 69/18 70/15 71/15 71/18 71/19 72/6 72/9 72/14 72/16 73/24 74/18 75/23 79/8 79/22 79/23 82/19 82/20 82/24 83/2 88/1 88/2 88/3 90/9 91/24 92/7 92/7 97/21 100/16 110/13 111/24 113/3 114/5 116/20 119/16 119/16 120/5 126/13 128/1 131/18 132/13 132/24 134/8 134/8 138/25 139/2 139/5 145/8 147/9 150/5 150/6 151/17 152/25 153/21 164/3 164/10</p> <p>somebody [3] 40/8 116/8 116/13</p> <p>Somerset [1] 134/7</p> <p>something [5] 5/13 88/23 96/8 108/16 155/19</p> <p>sometimes [2] 51/7 98/6</p> <p>somewhat [4] 20/2 31/11 78/22 79/5</p> <p>soon [4] 107/20 121/8 125/15 125/20</p> <p>sorry [14] 2/5 13/5 17/4 23/6 91/2 93/22 96/15 105/3 111/23 114/25 136/22 144/11 145/4 149/12</p> <p>sort [1] 113/14</p> <p>sought [2] 64/5 82/23</p> <p>soul [1] 73/23</p> <p>Soumik [14] 2/5 4/2 11/22 33/22 49/19 72/21 103/12 112/8 115/1 117/11 129/8 133/3 134/14 146/22</p> <p>source [3] 101/5 101/9 103/19</p> <p>sources [1] 88/2</p> <p>sourcing [1] 101/21</p> <p>south [21] 2/1 2/10</p>	<p>2/10 12/17 32/11 32/22 57/9 57/16 63/19 64/7 66/11 94/25 96/19 97/2 98/15 101/12 117/9 119/15 128/8 132/22 142/4</p> <p>South-East [1] 2/10</p> <p>south-west [7] 2/10 64/7 94/25 117/9 119/15 132/22 142/4</p> <p>Southampton [36] 32/12 32/13 32/21 32/23 32/23 35/13 40/12 40/21 41/12 43/21 44/6 44/18 44/25 45/13 45/25 47/3 47/6 47/8 48/1 48/11 48/18 49/17 50/7 50/17 50/23 51/9 51/13 51/19 53/7 53/12 54/3 54/9 76/3 77/3 93/15 154/15</p> <p>Southmead [1] 98/16</p> <p>speak [1] 125/25</p> <p>special [1] 133/23</p> <p>specialist [4] 130/22 131/13 135/1 135/8</p> <p>specific [6] 51/16 92/5 97/22 105/23 106/2 106/9</p> <p>specifically [6] 13/23 63/23 118/23 120/25 126/23 162/3</p> <p>specimen [3] 51/25 156/20 157/6</p> <p>specimens [1] 157/19</p> <p>split [1] 122/25</p> <p>spoke [3] 74/16 96/19 127/25</p> <p>Spooner [4] 39/14 44/8 92/22 146/23</p> <p>spouse [2] 157/9 158/18</p> <p>spouses [1] 158/4</p> <p>sprayed [2] 104/16 106/22</p> <p>St [9] 1/23 2/7 2/24 2/24 11/5 11/9 26/8 95/24 96/1</p> <p>St George's [1] 26/8</p> <p>St Thomas' [1] 11/9</p> <p>staff [6] 44/19 56/4 56/6 88/14 133/24 134/22</p> <p>staffed [1] 56/3</p> <p>Stafford [7] 26/8 95/24 96/2 97/13 97/19 99/9 99/17</p> <p>Stafford's [1] 100/11</p> <p>stage [5] 6/16 27/12 95/16 132/11 155/20</p>	<p>stand [1] 164/16</p> <p>standard [1] 56/25</p> <p>standardised [1] 39/22</p> <p>start [11] 1/6 2/19 27/9 32/12 45/18 54/11 96/7 120/7 122/3 152/2 165/15</p> <p>started [1] 107/18</p> <p>starting [2] 80/8 142/7</p> <p>starts [1] 127/22</p> <p>state [2] 86/13 163/11</p> <p>stated [1] 41/22</p> <p>statement [25] 11/20 55/15 57/23 61/21 63/8 63/12 97/21 97/22 100/19 103/7 112/20 114/18 115/6 119/11 125/14 126/2 128/19 129/4 129/8 130/8 130/17 130/22 132/3 132/7 139/7</p> <p>statements [4] 22/4 32/2 55/16 69/16</p> <p>station [1] 98/5</p> <p>status [4] 43/3 43/6 43/8 165/3</p> <p>steps [1] 129/11</p> <p>Stern [13] 72/23 74/12 74/16 75/14 75/24 76/17 77/4 83/5 85/6 86/14 88/19 88/24 89/14</p> <p>Stern's [2] 76/4 89/21</p> <p>Steve [1] 133/8</p> <p>Steve Johnson [1] 133/8</p> <p>Steven [1] 113/16</p> <p>stick [2] 103/3 124/8</p> <p>stigmata [1] 139/25</p> <p>still [31] 15/20 16/21 17/2 18/5 18/10 21/2 29/24 30/1 34/1 35/4 42/6 52/20 74/11 78/3 84/1 94/25 106/17 108/23 109/13 109/14 123/13 125/9 129/20 137/1 138/4 142/11 143/5 144/12 145/11 145/17 149/23</p> <p>stock [2] 94/6 100/8</p> <p>stocks [2] 99/10 99/14</p> <p>stop [2] 37/14 47/10</p> <p>stopping [1] 128/2</p> <p>storage [3] 65/22 72/17 117/22</p> <p>store [1] 118/6</p> <p>stored [7] 71/4 71/19 71/24 72/1 72/1 79/4 148/12</p> <p>storing [1] 65/24</p>	<p>strain [2] 13/11 13/24</p> <p>strategies [1] 157/3</p> <p>strategy [1] 157/16</p> <p>strict [1] 41/21</p> <p>strictest [1] 43/12</p> <p>strongly [1] 161/11</p> <p>stuck [1] 100/1</p> <p>studies [1] 13/24</p> <p>study [3] 40/13 89/6 96/8</p> <p>sub [3] 98/17 98/19 99/2</p> <p>sub-centre [3] 98/17 98/19 99/2</p> <p>subject [3] 84/22 92/6 161/9</p> <p>submission [1] 126/20</p> <p>submitted [2] 44/8 139/2</p> <p>subsequent [2] 89/2 152/1</p> <p>subsequently [4] 40/13 57/20 93/13 98/10</p> <p>subset [1] 164/1</p> <p>substantial [22] 15/13 16/13 18/5 18/13 20/15 29/3 30/1 60/19 82/7 82/18 109/13 110/8 112/16 122/22 124/9 124/21 124/25 125/11 138/15 142/12 143/12 145/17</p> <p>substantially [1] 138/5</p> <p>succeeded [3] 32/14 73/2 148/21</p> <p>successfully [1] 118/8</p> <p>successor [3] 89/21 95/25 119/7</p> <p>such [15] 5/11 25/20 32/2 38/22 40/13 64/3 87/4 95/14 101/18 106/9 118/4 126/13 130/19 134/2 146/20</p> <p>sufferer [1] 49/1</p> <p>suffering [4] 46/13 77/9 107/9 152/11</p> <p>sufficiency [1] 128/11</p> <p>sufficient [3] 117/21 118/6 128/14</p> <p>suggest [13] 27/1 52/19 52/22 53/21 68/1 79/7 83/19 94/4 94/6 115/20 139/6 149/1 152/20</p> <p>suggested [3] 2/17 74/13 114/20</p> <p>suggestion [6] 75/1 94/1 100/5 110/14</p>	<p>148/1 156/11</p> <p>suggestive [1] 157/23</p> <p>suggests [11] 6/14 11/1 23/21 32/5 47/5 51/22 58/21 65/1 78/2 95/13 164/14</p> <p>suitable [2] 26/3 26/6</p> <p>suite [1] 56/15</p> <p>summarise [1] 47/17</p> <p>summary [3] 54/8 85/8 141/11</p> <p>summer [2] 96/25 97/1</p> <p>super [1] 57/22</p> <p>supplied [10] 50/11 50/25 57/6 94/9 99/1 103/14 108/18 117/23 118/5 118/18</p> <p>supplies [15] 12/4 12/17 32/24 37/20 38/7 38/8 75/18 75/19 76/3 104/1 119/14 119/17 125/21 126/4 127/12</p> <p>supply [24] 3/5 26/3 26/6 41/1 75/24 77/7 78/8 79/8 79/10 97/7 98/11 99/6 99/19 100/17 101/6 101/11 101/21 103/19 103/24 117/21 121/10 121/16 128/8 128/12</p> <p>supplying [1] 57/11</p> <p>support [4] 49/11 75/6 130/18 134/2</p> <p>suppose [3] 5/22 78/15 160/8</p> <p>supposed [1] 134/13</p> <p>supra [2] 1/24 54/16</p> <p>supra-region [2] 1/24 54/16</p> <p>Supraregional [1] 54/23</p> <p>sure [9] 13/16 59/24 102/10 104/21 104/22 110/17 111/5 122/5 133/25</p> <p>surgery [6] 5/8 39/14 76/19 77/11 77/15 128/3</p> <p>surgical [2] 13/3 77/24</p> <p>surprising [2] 31/11 99/12</p> <p>surrounding [1] 50/20</p> <p>surveillance [3] 41/15 152/21 152/22</p> <p>survey [4] 44/7 89/9 139/2 146/24</p> <p>surveys [1] 126/21</p> <p>survived [1] 106/24</p> <p>suspect [3] 90/1 94/5</p>
---	---	--	--	---	---

<p>S</p> <p>suspect... [1] 106/18</p> <p>suspected [1] 147/13</p> <p>suspicion [1] 147/15</p> <p>sustaining [1] 68/4</p> <p>switch [2] 38/5 61/23</p> <p>symptomology [1] 42/18</p> <p>symptoms [1] 147/3</p> <p>syringe [3] 5/4 6/8 6/13</p>	<p>tenable [1] 159/9</p> <p>tendency [1] 13/18</p> <p>tends [1] 52/18</p> <p>tenth [1] 146/2</p> <p>termed [1] 70/22</p> <p>terminal [1] 98/20</p> <p>terms [86] 1/24 3/6 3/21 5/25 10/14 10/24 14/18 15/22 16/19 19/22 20/6 20/20 22/8 23/9 23/24 24/14 26/21 27/1 27/24 29/24 30/11 30/16 31/13 31/24 32/5 32/21 33/4 33/11 34/15 35/9 35/18 36/3 38/6 44/11 50/22 53/23 61/18 62/15 63/1 65/12 75/18 79/16 80/2 80/13 81/8 81/12 82/4 83/2 91/4 94/8 94/17 97/23 98/11 99/5 99/14 101/1 103/18 107/19 108/7 108/10 108/22 111/17 114/8 119/19 120/12 121/24 122/9 124/12 126/17 131/3 134/21 135/13 135/25 136/6 138/8 139/1 139/5 139/12 140/4 140/16 146/8 147/16 148/24 150/4 162/19 164/13</p> <p>test [17] 51/3 51/20 51/21 70/23 71/2 71/4 71/14 71/25 72/12 72/12 94/11 114/12 115/23 129/23 131/8 147/14 157/10</p> <p>tested [21] 11/2 51/25 54/5 54/7 65/15 65/15 65/16 65/20 67/12 70/10 70/24 72/2 72/5 93/13 104/18 114/10 115/18 140/8 164/15 164/22 165/5</p> <p>testing [32] 11/3 23/9 23/18 23/24 24/5 31/25 32/6 51/6 64/18 65/2 65/12 67/7 67/9 69/9 70/17 72/8 72/17 83/13 87/24 94/20 119/25 131/7 139/5 139/6 139/9 140/20 147/10 148/10 148/12 148/16 157/6 157/23</p> <p>tests [21] 24/4 64/3 65/16 65/17 65/24 70/16 70/19 70/21 71/6 71/8 71/9 72/2 91/6 91/13 91/15 92/1</p>	<p>92/3 113/18 113/19 129/15 129/16</p> <p>text [1] 77/5</p> <p>Thames [1] 2/10</p> <p>than [35] 7/24 8/22 9/11 10/12 16/7 16/19 17/5 17/9 20/3 21/24 28/9 31/12 35/4 45/6 64/11 68/13 80/14 81/7 81/12 83/20 87/6 87/10 90/18 110/16 112/2 113/13 114/17 118/16 126/10 129/4 130/8 130/16 143/20 144/22 145/21</p> <p>thank [9] 50/4 53/6 72/21 78/20 115/2 116/11 117/11 141/16 164/9</p> <p>that [444]</p> <p>that I [2] 105/11 140/14</p> <p>that is [6] 15/18 61/3 66/2 95/10 140/22 148/14</p> <p>that's [61] 4/10 9/22 10/9 11/10 19/1 19/2 24/13 24/19 26/10 26/20 30/8 30/10 35/6 36/13 47/12 50/16 53/3 53/13 58/23 69/15 75/4 76/21 79/22 79/23 83/17 93/8 94/18 96/10 109/7 109/15 110/17 111/1 111/2 111/9 111/24 112/6 112/12 116/8 116/9 116/10 116/18 117/8 121/17 125/3 125/13 135/11 136/22 137/11 138/23 141/10 144/20 146/3 147/2 150/16 151/19 153/13 159/8 159/11 163/17 163/22 165/6</p> <p>their [25] 11/8 37/25 51/5 64/3 92/2 98/23 106/6 106/21 107/1 114/9 114/10 114/11 115/7 125/18 129/7 129/23 134/9 139/10 140/4 141/7 147/12 148/17 158/23 161/13 165/3</p> <p>them [20] 4/5 19/10 22/7 22/7 39/11 44/8 45/23 54/24 54/24 55/17 97/16 103/5 129/1 129/19 129/21 130/14 157/18 157/20 158/18 160/15</p> <p>theme [1] 8/24</p>	<p>themselves [3] 21/24 114/4 159/13</p> <p>then [310]</p> <p>therapeutic [9] 12/5 13/17 13/22 14/5 77/12 78/6 84/15 84/19 122/21</p> <p>therapy [5] 37/12 37/24 67/23 68/23 121/21</p> <p>there [188]</p> <p>there's [35] 28/17 30/22 44/21 45/4 48/12 58/12 73/4 82/2 83/2 83/15 83/22 84/17 87/18 89/5 91/12 94/13 100/4 100/9 109/15 110/14 112/22 114/16 115/19 118/21 121/20 139/5 143/2 144/11 146/19 152/18 153/12 153/20 154/20 156/11 158/21</p> <p>thereabouts [1] 15/6</p> <p>thereafter [2] 44/15 161/17</p> <p>therefore [7] 2/17 68/3 97/25 100/1 120/23 121/12 143/20</p> <p>these [21] 4/3 25/22 41/1 43/4 50/8 54/12 66/23 71/11 81/25 95/18 96/11 96/24 96/25 99/23 100/2 106/6 113/10 113/15 129/16 157/20 157/25</p> <p>they [42] 22/8 24/3 24/11 24/12 24/18 33/5 37/21 39/9 42/14 42/19 48/4 51/2 51/4 51/4 51/5 54/1 54/1 54/6 54/6 58/4 58/22 62/21 64/20 68/14 72/14 76/18 77/2 81/7 86/15 88/12 88/25 89/25 98/6 98/7 101/23 121/25 123/18 126/5 134/5 140/22 145/25 151/21</p> <p>they'd [6] 24/2 51/4 54/4 139/16 140/9 147/13</p> <p>they're [3] 21/9 135/14 145/23</p> <p>thing [1] 143/4</p> <p>things [6] 2/9 11/24 63/4 66/3 162/25 164/16</p> <p>think [49] 4/22 18/19 19/24 20/13 26/20 27/11 30/8 34/7 39/7 39/25 40/6 46/23</p>	<p>47/15 48/7 59/8 60/1 60/25 65/22 79/12 79/25 80/23 83/18 86/13 90/4 91/21 92/12 93/5 94/13 97/12 105/23 109/24 110/1 110/21 111/18 111/23 111/24 112/5 112/9 121/14 123/2 126/18 131/10 132/13 145/6 146/16 152/3 158/12 159/16 162/8</p> <p>thinking [1] 22/2</p> <p>thinks [2] 83/24 128/23</p> <p>third [5] 2/14 91/13 91/22 123/25 124/24</p> <p>this [197]</p> <p>Thomas [1] 141/24</p> <p>Thomas' [5] 1/23 2/7 2/24 11/5 11/9</p> <p>Thompson [6] 132/8 133/9 135/2 139/13 139/22 140/8</p> <p>thorough [2] 7/7 139/8</p> <p>those [22] 4/16 10/24 24/14 24/23 25/19 39/5 39/6 53/17 60/9 65/15 86/1 86/24 88/18 107/10 114/5 121/2 130/2 139/25 150/10 164/17 164/17 164/21</p> <p>though [5] 14/4 51/4 52/9 58/4 150/2</p> <p>thought [8] 46/13 63/22 78/13 103/25 115/18 152/11 157/14 160/6</p> <p>thousand [1] 87/10</p> <p>threatening [1] 88/7</p> <p>three [38] 1/7 2/21 3/19 3/24 16/8 19/7 19/12 23/21 27/4 33/16 48/3 61/8 80/11 85/9 86/18 87/13 90/21 92/4 105/3 108/3 118/11 118/13 118/15 127/5 130/13 131/9 133/20 140/19 141/3 148/13 149/8 150/17 153/5 154/13 164/15 164/18 164/20 164/21</p> <p>three years [2] 130/13 149/8</p> <p>three-quarters [1] 2/21</p> <p>through [30] 2/13 3/23 10/12 10/25 11/8 11/9 18/18 19/10 22/7</p>	<p>26/8 40/15 45/14 51/7 53/13 75/5 86/20 90/25 98/8 105/20 106/8 116/16 121/22 141/7 158/25 159/2 160/15 162/15 162/16 163/24 165/11</p> <p>throughout [4] 8/24 23/2 43/24 119/21</p> <p>throws [1] 163/11</p> <p>Thursday [1] 1/1</p> <p>thus [2] 85/16 101/8</p> <p>Tillyer [5] 11/18 21/24 23/17 24/13 24/15</p> <p>Tillyer's [1] 23/25</p> <p>time [34] 6/3 7/18 7/20 12/8 13/7 22/20 24/15 30/8 45/4 46/23 48/13 55/8 58/17 68/20 69/5 70/8 71/22 76/22 86/25 88/2 97/4 102/9 103/23 105/17 107/3 113/4 115/21 128/3 134/4 139/8 147/15 157/12 159/21 165/8</p> <p>times [3] 13/22 64/4 130/20</p> <p>tiny [3] 29/1 136/15 138/9</p> <p>to [945]</p> <p>today [6] 33/2 41/5 54/25 72/15 127/25 129/20</p> <p>together [4] 25/13 50/25 156/19 158/19</p> <p>told [17] 22/11 22/11 54/3 96/4 114/14 115/7 129/7 130/12 140/8 147/11 147/13 147/15 156/25 158/11 159/20 160/5 161/14 165/15</p> <p>tomorrow [2] 112/11 165/15</p> <p>too [3] 29/18 131/12 134/1</p> <p>took [10] 11/5 11/18 55/13 73/23 119/9 119/20 125/14 126/16 129/11 130/4</p> <p>Tooting [5] 2/2 2/19 3/5 12/18 96/2</p> <p>top [11] 4/22 74/3 75/23 98/13 111/1 111/5 116/5 128/10 134/15 157/15 160/25</p> <p>Torbay [1] 96/22</p> <p>Torquay [1] 57/19</p> <p>total [17] 33/8 58/12 60/19 79/10 81/19 85/17 100/3 115/5 124/14 128/12 140/23</p>
--	---	---	---	--	---

T	52/4 52/10 52/17 58/10 59/2 59/7 59/23 60/12 60/23 61/7 61/23 61/25 62/1 62/3 67/24 68/2 70/4 70/6 79/17 80/5 80/11 80/12 81/1 82/14 82/23 85/23 90/2 96/25 102/20 107/17 107/25 108/5 108/7 109/3 111/3 111/13 112/1 112/7 116/25 117/3 117/5 121/24 122/5 123/18 125/16 125/21 126/10 126/11 128/6 130/5 135/13 135/23 142/8 143/16 148/24 149/23 150/1 150/3 150/22 164/2 165/2	63/17 140/24 TSFT0000002 [3] 66/11 112/19 132/16 turn [13] 11/11 43/22 54/10 58/8 59/6 76/12 82/11 95/7 107/22 109/1 117/9 117/15 152/12 Turning [1] 119/4 Turton [4] 65/8 69/21 69/23 72/19 twenty [2] 60/12 85/17 two [52] 15/4 19/12 24/17 27/4 33/9 33/10 33/25 35/1 43/10 46/17 47/7 47/12 47/25 48/10 55/16 55/25 56/3 56/4 59/7 60/9 64/24 67/17 80/11 85/15 86/7 90/16 91/1 95/3 98/22 99/23 99/24 100/2 105/3 108/6 121/8 121/17 130/12 131/9 135/24 137/24 138/1 141/4 148/12 149/7 151/8 154/20 157/3 157/21 157/25 158/3 160/1 161/9 two pages [1] 91/1 two paragraphs [1] 158/3 two years [2] 43/10 157/21 type [2] 16/10 19/5 types [7] 16/8 19/7 19/12 34/5 35/1 85/15 150/18 typing [1] 40/8	unacceptable [1] 107/11 unaware [1] 54/4 uncertainty [2] 107/4 113/11 unclear [9] 31/6 57/2 66/15 81/24 109/19 109/22 110/13 112/20 152/23 under [34] 5/5 9/21 12/8 19/17 19/25 20/17 30/18 30/20 33/13 35/11 35/17 48/5 56/21 65/9 74/4 81/22 81/23 84/6 85/1 85/20 108/24 124/17 127/23 136/4 137/9 137/13 141/9 143/9 143/19 144/14 150/19 151/1 151/16 155/12 undergoing [1] 77/11 undergone [1] 67/8 underlined [1] 4/25 underlying [1] 75/13 underneath [2] 68/11 159/19 understand [10] 11/5 22/1 40/4 49/6 51/1 55/11 74/22 86/24 88/25 151/21 understanding [10] 48/4 51/8 61/22 61/25 92/17 105/15 112/24 128/20 158/16 160/8 undertake [2] 68/16 147/24 undertaken [4] 13/3 114/13 126/22 156/8 undertreat [1] 13/18 undue [1] 46/21 unfair [1] 127/13 unfortunate [1] 155/8 unfortunately [3] 4/16 68/13 77/16 unhappy [1] 99/21 unheated [6] 52/2 52/10 52/11 52/14 52/19 112/7 unidentified [1] 70/22 unique [1] 29/11 unit [7] 56/11 56/12 63/11 78/15 98/8 133/10 135/7 United [4] 41/25 141/22 146/25 148/2 United Kingdom [1] 41/25 units [97] 4/24 7/13 9/21 15/1 15/15 15/21 15/25 16/1 16/1 16/12 16/13 16/20 16/25 17/1 18/8 18/9 19/16	19/17 28/5 28/14 28/15 30/18 33/14 33/14 34/3 34/16 34/25 35/10 35/11 35/18 36/6 36/25 59/3 59/4 59/5 59/14 60/4 60/14 60/17 60/20 60/24 61/10 61/14 76/4 77/17 77/18 78/11 78/12 79/5 80/17 108/9 108/11 108/12 108/15 109/6 110/10 110/14 111/15 111/16 111/18 122/23 123/8 123/11 123/11 123/12 123/22 123/22 124/1 124/11 124/14 125/2 125/2 125/10 136/2 136/4 137/13 138/16 138/17 142/17 142/19 142/20 143/1 143/9 143/19 144/5 144/17 149/21 149/22 150/17 151/6 151/7 151/8 151/10 151/14 151/15 151/16 154/5 University [1] 71/1 unknown [2] 94/12 94/20 unless [1] 105/9 unlikely [3] 25/14 87/8 117/2 unlimited [2] 37/20 38/7 unpaid [1] 103/17 unsurprisingly [1] 30/15 untenable [1] 134/10 untested [1] 67/2 until [24] 1/11 11/15 11/19 21/25 24/24 32/13 32/20 52/21 55/12 55/14 73/7 85/22 97/19 104/24 119/6 119/10 128/13 130/23 131/13 141/14 157/21 157/22 161/4 165/17 untransfused [1] 39/13 unused [2] 46/18 48/23 unusual [5] 6/25 25/24 29/11 43/16 150/12 Unwell [1] 147/6 unwise [1] 107/4 up [89] 3/7 3/25 7/8 8/19 9/15 13/12 14/19 16/16 24/4 27/3 29/6 32/17 33/5 34/19 37/9 40/8 42/16 43/9 45/5	45/14 47/14 47/22 48/12 48/15 49/4 49/13 49/19 49/21 49/25 50/5 50/10 54/4 55/17 59/21 64/2 76/9 79/4 81/7 81/17 82/1 83/7 93/11 93/16 94/1 94/24 96/10 96/21 98/3 99/19 100/20 102/2 103/8 104/5 105/2 105/17 106/10 107/23 108/2 111/8 117/17 119/20 125/20 126/16 129/10 130/4 133/2 133/3 133/9 134/14 135/21 136/24 140/17 142/6 148/4 149/5 149/24 151/24 152/13 153/25 155/6 156/4 156/6 156/19 157/2 157/12 157/12 158/1 161/6 165/12 upon [4] 13/24 92/17 134/24 158/6 urge [1] 49/10 urged [1] 155/24 urgent [1] 129/16 URN [1] 11/21 us [25] 22/1 39/17 39/23 41/15 42/6 46/10 51/14 58/4 61/17 66/17 67/4 75/23 78/1 86/24 101/1 103/4 112/6 112/23 113/3 114/5 134/19 137/17 143/24 151/20 162/18 USA [1] 128/23 usage [32] 7/4 8/20 9/1 15/17 16/22 20/6 21/5 21/11 26/23 27/21 29/1 29/17 29/22 30/4 30/13 30/16 35/8 59/4 59/5 60/3 60/18 80/22 81/3 82/4 108/22 112/12 138/23 144/16 145/18 149/6 150/5 151/20 use [159] 4/12 5/1 5/4 5/6 6/22 7/12 7/16 7/20 7/24 8/9 9/7 9/14 9/15 9/18 9/24 10/6 13/19 14/12 14/25 15/4 15/11 15/12 15/13 17/24 18/5 18/10 18/16 18/23 19/16 19/24 19/24 20/20 26/16 26/22 27/11 27/12 27/16 28/3 28/4 28/8 28/12 28/13 28/23 29/20 30/7 33/8 33/16 34/1
----------	---	---	---	--	--

(65) total... - use

<p>U</p> <p>use... [111] 34/2 34/5 34/10 34/12 35/2 35/5 35/10 35/17 35/20 36/8 36/18 36/19 39/7 39/16 40/2 45/3 58/22 59/19 60/9 61/18 61/19 63/4 69/12 79/20 80/16 81/5 82/4 82/8 84/19 85/14 86/18 87/4 88/22 88/22 101/2 102/1 103/4 105/4 105/6 105/8 105/9 105/25 106/8 107/2 107/6 107/13 107/17 107/19 109/11 109/13 110/8 111/17 112/2 112/15 112/16 117/16 119/1 120/14 120/25 121/2 122/18 122/19 123/13 124/13 124/21 125/6 125/9 125/12 125/16 127/10 129/2 136/1 136/4 136/6 136/7 136/11 136/15 136/19 136/21 137/2 137/6 137/9 137/11 137/18 137/20 138/1 138/3 138/10 138/13 142/9 142/12 142/16 142/23 142/23 143/3 143/17 143/21 143/23 144/2 144/8 144/9 144/12 144/18 145/10 146/1 146/14 150/6 150/25 151/9 162/15 162/16</p> <p>used [157] 7/7 7/19 8/2 8/6 8/12 8/13 8/25 9/2 9/9 9/25 10/1 15/14 16/14 17/11 17/17 17/20 18/12 18/20 19/18 19/20 20/8 20/16 21/9 21/10 21/17 21/19 21/20 27/7 27/17 27/22 28/1 28/19 28/19 28/22 29/4 29/8 29/12 29/14 29/25 30/2 30/19 31/2 31/5 33/12 34/14 34/17 34/21 34/22 34/25 35/3 35/10 35/13 35/21 36/4 36/5 36/6 36/10 36/11 36/25 37/2 42/5 52/20 58/13 59/12 59/16 59/18 60/13 61/9 62/1 62/6 80/13 80/17 81/6 81/10 81/12 81/18 81/19 81/21 81/25 82/3 82/6 82/15 82/19</p>	<p>87/2 88/10 94/6 101/3 102/19 103/1 105/10 107/23 108/7 108/15 109/6 109/7 109/9 109/14 110/5 111/11 111/14 111/19 112/4 121/5 122/10 122/11 122/14 122/21 123/5 124/1 124/4 124/10 124/20 124/25 125/1 125/11 135/25 136/16 137/12 137/13 137/15 137/22 137/23 138/4 138/15 138/16 142/12 142/15 142/19 143/10 143/11 143/13 143/18 143/25 144/4 144/13 144/23 144/25 145/13 145/15 145/20 146/7 149/21 150/8 150/10 150/15 150/16 150/17 150/18 150/23 151/2 151/3 151/6 151/13 151/18 151/21 151/22 162/12</p> <p>useful [2] 79/3 113/10</p> <p>usefully [1] 96/15</p> <p>uses [1] 143/12</p> <p>using [10] 36/17 37/12 37/14 65/16 88/15 99/22 100/2 102/14 129/1 157/2</p> <p>usual [2] 38/1 118/4</p> <p>usually [3] 79/3 112/16 134/17</p>	<p>124/25 125/12 130/20 134/7 134/13 137/12 138/4 138/15 142/25 144/16 146/9 165/7</p> <p>vials [4] 48/23 154/6 154/7 154/9</p> <p>Victoria [7] 72/24 74/7 75/11 76/16 77/4 85/7 94/16</p> <p>view [8] 12/10 37/10 77/24 83/10 133/7 134/6 159/7 159/11</p> <p>VIII [60] 5/25 20/9 20/12 30/25 37/9 38/11 38/16 38/17 39/4 43/18 46/5 46/10 48/15 50/6 50/12 52/2 52/3 52/8 58/15 70/4 77/19 77/20 78/12 78/24 84/7 84/11 85/4 85/11 85/18 85/24 86/4 86/9 86/19 87/9 87/15 87/22 88/6 90/2 101/5 102/18 105/8 105/12 108/6 109/4 110/16 116/20 127/10 127/24 128/2 128/5 128/8 128/12 130/5 133/20 155/11 156/2 157/5 158/8 161/13 161/15</p> <p>viral [10] 22/16 24/5 31/13 43/23 62/17 67/22 68/23 71/8 106/7 138/24</p> <p>virtues [1] 7/2</p> <p>virus [4] 106/25 140/14 140/14 158/9</p> <p>viruses [1] 84/21</p> <p>visit [2] 76/1 156/18</p> <p>visitors [6] 79/18 80/5 80/12 97/1 99/13 133/15</p> <p>vitamin [1] 1/21</p> <p>volume [27] 8/6 9/21 14/25 15/23 15/23 17/12 20/21 28/4 30/16 34/15 34/24 35/3 35/4 61/9 61/13 80/14 80/18 82/6 108/10 109/16 111/17 124/10 124/21 124/22 137/21 137/22 151/5</p> <p>volumes [23] 7/17 15/4 16/23 18/5 18/13 19/20 20/15 27/17 28/6 29/3 30/2 30/4 30/20 33/15 34/4 35/21 35/22 36/21 82/7 82/18 125/5 137/16 150/9</p> <p>volunteer [2] 87/17</p>	<p>87/23</p> <p>volunteering [1] 76/7</p> <p>von [35] 4/1 8/23 27/4 29/10 29/13 30/15 33/18 34/18 59/8 61/7 102/16 103/2 108/3 110/7 112/3 123/17 124/6 124/9 124/11 133/19 135/16 137/7 137/19 138/7 138/12 143/8 143/25 144/19 149/4 149/12 149/13 150/2 150/3 150/11 150/14</p> <p>Von Willebrand [1] 102/16</p> <p>von Willebrand's [33] 4/1 27/4 29/10 29/13 30/15 33/18 34/18 59/8 61/7 103/2 108/3 110/7 112/3 123/17 124/6 124/9 124/11 133/19 135/16 137/7 137/19 138/7 138/12 143/8 143/25 144/19 149/4 149/12 149/13 150/2 150/3 150/11 150/14</p>	<p>149/8 155/22 159/1 163/23</p> <p>we're [9] 45/24 72/18 92/16 94/2 95/9 103/7 143/15 154/14 159/3</p> <p>we've [32] 6/3 7/1 10/11 16/4 17/5 18/7 18/15 19/3 20/19 22/15 28/22 31/25 34/21 37/3 44/1 44/8 59/11 62/17 77/3 82/25 84/23 109/2 111/25 112/3 115/3 143/9 150/21 152/12 152/13 153/18 154/16 164/16</p> <p>wearing [1] 130/16</p> <p>week [1] 46/17</p> <p>weekly [1] 135/5</p> <p>weeks [2] 118/14 129/17</p> <p>welcomed [1] 75/16</p> <p>well [20] 15/16 21/5 22/23 45/8 55/21 56/5 62/11 77/22 78/4 82/20 114/15 120/3 123/22 133/11 141/14 143/4 144/14 151/3 160/5 165/13</p> <p>went [1] 101/2</p> <p>were [97] 1/10 1/19 2/12 3/15 7/6 10/1 11/24 12/3 12/16 22/5 23/15 23/25 24/3 24/18 25/12 25/22 32/4 37/16 40/13 44/25 45/15 47/5 47/8 47/25 48/4 48/11 48/21 53/11 54/6 56/10 61/7 62/21 64/19 65/20 69/6 70/18 70/24 71/6 71/9 71/19 71/24 74/19 75/5 80/5 80/11 82/23 88/18 89/1 90/24 96/24 97/4 97/25 98/9 101/8 101/14 101/18 102/5 103/17 103/20 104/1 104/3 105/21 106/5 107/23 110/21 114/6 119/21 123/18 123/25 126/3 126/5 126/10 126/12 126/22 127/9 128/23 129/7 130/18 130/19 130/20 130/20 134/2 135/1 146/7 148/5 148/17 148/19 151/21 151/21 151/22 153/3 154/4 154/7 154/9 162/20 164/18 164/20</p> <p>Wessex [27] 32/25</p>	<p>33/3 45/16 45/21 48/22 50/20 75/19 75/24 76/2 76/10 76/13 76/24 77/16 78/9 78/17 83/9 93/12 93/20 97/8 151/25 152/5 153/13 154/5 154/6 154/8 160/21 161/19</p> <p>west [15] 2/10 57/10 57/16 63/19 64/7 66/11 94/25 96/20 97/2 101/12 117/9 119/15 128/9 132/22 142/4</p> <p>Western [1] 98/15</p> <p>Westminster [1] 2/25</p> <p>Weston [1] 57/22</p> <p>Weston-super-Mare [1] 57/22</p> <p>what [58] 2/20 4/15 4/22 5/17 6/10 6/14 6/16 7/6 9/22 10/9 17/16 20/19 21/23 29/23 31/12 38/23 41/6 41/7 44/22 47/15 57/2 60/6 62/16 63/23 68/11 72/14 76/6 79/20 83/14 87/22 90/24 92/18 100/20 101/2 101/7 101/9 102/1 103/8 104/11 107/23 110/3 112/5 112/25 120/17 122/5 125/13 126/6 127/17 129/6 134/12 140/12 140/22 149/7 152/25 153/20 154/18 156/22 161/25</p> <p>what's [3] 152/22 159/4 163/17</p> <p>whatsoever [4] 82/12 101/20 110/5 111/11</p> <p>when [50] 3/15 10/4 13/23 39/23 40/23 41/7 41/20 46/24 52/1 62/2 62/3 63/10 64/16 68/20 70/2 70/10 71/3 71/13 72/2 72/5 72/10 73/10 76/9 77/20 78/11 78/18 79/6 87/11 94/2 98/6 100/2 103/21 103/25 104/21 104/25 105/23 107/16 110/21 119/20 123/9 124/23 126/16 128/22 130/4 131/5 131/8 142/14 146/13 150/21 155/20</p> <p>where [21] 20/12 25/2 30/25 38/12 41/10 57/19 65/14 71/13</p>
---	---	---	---	---	---

<p>W</p> <p>where... [13] 81/9 83/17 83/24 84/5 97/5 99/19 100/23 104/2 107/15 107/18 127/11 134/5 143/3</p> <p>whereas [2] 6/10 37/20</p> <p>wherever [1] 107/7</p> <p>whether [28] 6/21 9/22 10/10 37/11 39/18 40/11 43/20 62/21 64/6 66/2 66/4 101/13 106/14 108/16 111/6 117/5 124/5 138/25 146/6 151/22 156/25 158/7 160/4 160/7 162/15 164/17 164/17 164/21</p> <p>which [127] 2/23 3/4 6/2 6/12 6/19 6/25 7/8 8/23 11/11 12/8 13/10 13/11 13/17 17/19 18/3 18/19 22/1 23/7 25/19 28/2 30/12 31/8 33/19 34/14 35/25 37/6 38/4 39/15 39/23 39/23 41/2 41/8 41/17 42/4 43/18 45/5 48/25 51/14 51/15 52/13 52/16 53/1 54/1 55/3 55/8 55/20 57/4 57/6 57/9 57/17 57/19 58/21 61/5 61/17 62/18 66/14 72/1 73/4 74/17 76/3 77/3 79/14 80/15 80/21 82/5 82/11 84/20 86/6 86/9 86/23 89/15 89/19 91/22 93/6 94/6 94/15 94/19 95/9 96/6 97/16 98/9 100/10 101/23 102/19 104/23 106/13 108/17 111/9 112/6 113/5 113/19 114/14 114/23 119/16 121/3 121/7 121/9 123/4 123/7 125/11 126/16 126/25 128/17 129/9 130/4 132/24 133/11 137/25 141/21 143/21 148/11 150/9 150/12 151/20 152/15 154/13 154/14 154/16 156/16 158/15 160/3 160/17 162/25 163/4 163/8 163/10 165/8</p> <p>While [1] 103/7</p> <p>whilst [2] 62/14 104/16</p> <p>Whitmore [4] 11/15</p>	<p>11/16 22/22 118/22</p> <p>who [65] 1/15 2/17 10/7 11/14 12/13 16/6 19/5 19/6 19/11 19/11 19/12 24/23 25/12 25/14 27/5 38/19 39/5 39/8 40/21 42/15 42/20 42/24 43/19 47/6 47/8 50/14 51/4 51/5 51/12 53/8 53/11 53/18 53/19 66/21 66/23 67/8 68/19 76/24 84/10 88/14 89/21 92/6 93/4 105/13 113/12 114/6 115/16 127/18 133/13 133/14 133/16 135/6 140/6 140/12 141/8 147/8 147/23 148/4 153/22 154/12 154/19 156/1 161/12 164/22 165/2</p> <p>who'd [2] 164/18 164/20</p> <p>who's [1] 156/12</p> <p>whoever [2] 18/6 20/14</p> <p>whole [3] 115/1 126/3 153/21</p> <p>whom [4] 80/11 85/18 162/6 164/4</p> <p>whose [9] 22/5 23/15 32/4 41/16 44/25 46/12 130/9 132/18 152/9</p> <p>why [9] 5/10 31/4 61/17 68/16 74/22 79/25 81/24 110/17 151/21</p> <p>widely [1] 138/11</p> <p>wildly [1] 150/24</p> <p>Wilkinson [1] 113/16</p> <p>will [53] 3/14 9/17 14/1 15/16 32/2 33/2 39/23 41/3 43/11 45/5 45/14 45/16 45/19 47/1 47/4 47/20 48/17 49/15 50/18 54/25 57/8 65/7 66/16 75/12 76/9 78/3 78/14 79/14 80/8 80/9 85/1 88/1 91/23 92/12 95/11 95/24 96/8 96/9 100/15 108/19 120/16 121/6 121/9 121/11 138/18 155/14 155/19 158/5 158/6 158/12 161/16 161/18 165/13</p> <p>Willebrand [1] 102/16</p> <p>Willebrand's [34] 4/1 8/23 27/4 29/10 29/13 30/15 33/18 34/18</p>	<p>59/8 61/7 103/2 108/3 110/7 112/3 123/17 124/6 124/9 124/11 133/19 135/16 137/7 137/19 138/7 138/12 143/8 143/25 144/19 149/4 149/12 149/13 150/2 150/3 150/11 150/14</p> <p>Winchester [5] 46/3 55/4 154/15 165/7 165/15</p> <p>Winter [3] 1/15 9/14 10/17</p> <p>Winter's [3] 3/3 10/3 22/18</p> <p>wise [1] 157/8</p> <p>wish [2] 38/23 40/21</p> <p>wished [1] 126/8</p> <p>wishes [1] 69/3</p> <p>with [262]</p> <p>within [9] 39/10 46/17 54/16 85/14 98/8 106/3 130/18 132/6 164/10</p> <p>without [5] 25/24 47/22 66/3 105/13 114/10</p> <p>WITN1574003 [1] 69/20</p> <p>WITN1589001 [1] 130/11</p> <p>WITN3298005 [1] 11/22</p> <p>WITN4408007 [2] 119/13 129/9</p> <p>WITN4685001 [1] 55/18</p> <p>WITN4685008 [1] 55/18</p> <p>WITN5422001 [1] 100/20</p> <p>WITN5590001 [1] 132/5</p> <p>witness [8] 57/23 100/19 119/11 121/21 130/8 130/9 147/9 147/11</p> <p>won't [18] 8/4 12/3 15/16 16/11 18/18 19/10 22/7 28/25 37/4 47/14 75/4 78/12 82/24 83/23 86/20 92/11 109/19 163/24</p> <p>wonder [1] 39/14</p> <p>wondered [2] 37/10 127/10</p> <p>word [4] 40/2 105/24 115/19 115/21</p> <p>words [1] 105/3</p> <p>work [8] 6/15 6/20 25/9 74/17 98/23</p>	<p>132/7 132/25 133/25</p> <p>worked [3] 96/24 104/16 133/9</p> <p>working [5] 24/8 98/22 161/7 161/10 163/1</p> <p>works [1] 98/19</p> <p>worry [3] 13/22 37/11 46/21</p> <p>Worsley [1] 73/21</p> <p>would [76] 4/12 4/20 5/1 5/4 10/19 10/21 11/8 12/11 14/12 26/5 26/16 38/20 38/23 39/19 40/4 40/21 42/14 42/19 42/22 44/19 49/10 52/16 53/21 57/3 63/23 64/20 68/14 71/24 72/8 73/5 79/2 79/3 79/4 79/20 86/11 92/18 93/8 96/7 97/5 98/5 98/7 98/7 99/25 101/23 105/8 105/9 105/13 105/17 106/7 107/4 107/10 114/1 115/20 117/4 121/12 126/9 129/18 130/24 133/12 133/15 134/1 134/4 134/5 134/10 143/11 146/4 147/23 148/3 148/11 157/8 157/16 157/21 160/10 161/11 161/20 165/14</p> <p>wouldn't [2] 68/17 78/13</p> <p>writes [1] 38/13</p> <p>writing [7] 25/9 41/11 59/22 78/23 89/21 99/17 132/18</p> <p>written [10] 11/20 22/7 47/2 58/19 89/20 105/17 118/21 121/15 164/4 164/6</p> <p>wrong [1] 20/14</p> <p>wrote [5] 32/16 47/24 125/20 127/21 154/23</p> <p>Y</p> <p>Y69402 [4] 42/2 42/25 43/4 43/6</p> <p>year [63] 1/14 7/14 7/25 9/10 10/1 12/25 14/22 15/13 15/14 15/25 16/6 18/17 18/24 19/8 21/22 25/21 29/10 33/9 33/25 34/2 34/10 35/2 35/14 35/25 36/4 36/18 39/10 53/19 58/11 59/10 61/5 62/18 64/4 78/19 80/3</p>	<p>80/3 80/17 80/23 82/14 109/17 110/6 110/9 110/19 111/9 111/13 116/6 122/5 132/2 135/23 137/5 140/22 140/22 142/8 142/14 142/24 144/1 144/4 144/23 150/1 150/4 150/14 150/24 162/2</p> <p>yearly [1] 100/3</p> <p>years [19] 3/22 8/3 17/15 23/17 26/25 43/10 66/4 72/7 72/15 81/25 89/3 107/24 108/2 130/13 139/17 149/2 149/8 156/8 157/21</p> <p>Yellow [2] 90/14 90/24</p> <p>Yeovil [7] 55/3 57/21 131/16 131/16 131/20 141/1 141/12</p> <p>yes [37] 1/5 6/7 6/9 6/20 6/24 14/15 17/10 17/18 18/25 20/24 26/19 40/10 45/8 47/20 52/24 60/1 67/16 78/16 95/2 96/13 108/16 108/20 111/25 116/9 116/12 116/17 116/22 117/7 120/13 138/20 141/14 145/8 145/19 145/23 159/19 159/24 160/12</p> <p>yesterday [4] 3/10 4/5 25/2 46/9</p> <p>yet [2] 70/21 96/2</p> <p>you [84] 1/13 3/3 3/14 4/8 4/12 5/15 10/13 13/16 14/10 14/12 15/16 16/25 21/1 23/14 24/10 25/9 26/14 26/16 29/16 30/24 32/10 38/23 39/2 39/14 39/16 40/6 41/1 42/5 42/22 45/19 46/22 47/1 47/16 48/21 49/4 49/10 50/4 53/6 60/1 65/7 68/10 68/16 68/17 69/9 70/3 72/21 78/1 78/7 78/17 78/20 79/20 82/24 91/23 93/3 93/22 109/18 109/24 114/9 114/14 115/2 115/10 116/11 116/15 117/11 121/6 121/7 125/19 127/11 130/7 130/7 132/4 132/23 133/5 133/11 134/7 140/6 141/16 146/22 155/14</p>	<p>155/17 159/16 161/16 164/9 165/1</p> <p>you'd [1] 40/5</p> <p>you'll [13] 16/3 16/18 30/24 45/25 55/5 58/18 112/19 127/2 127/18 150/15 152/17 159/3 164/19</p> <p>you're [2] 138/21 159/24</p> <p>you've [5] 17/22 45/1 53/24 66/7 77/25</p> <p>young [2] 70/3 117/24</p> <p>your [21] 3/13 4/13 14/13 23/12 25/8 26/17 32/2 39/12 46/8 46/21 46/22 49/1 49/11 50/4 53/6 66/21 68/10 68/23 79/21 92/13 127/25</p> <p>yours [1] 42/4</p> <p>yourself [1] 46/24</p> <p>Z</p> <p>zero [1] 61/10</p>
---	---	---	---	---	---