

Thursday, 24 September 2020

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

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

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

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

1 Then if we go down it a little further, please,
 2 Henry, we see a quote from a Dr Tony Pinching, an
 3 immunologist at St Mary's Hospital, London:
 4 "It seems madness that our blood supplies are
 5 coming from a country suffering from an epidemic of an
 6 incurable killer disease that nobody can even test
 7 for. The Swiss Red Cross, chief producer in
 8 Switzerland of the anti-clotting factor needed by
 9 haemophiliacs, said this weekend they would welcome
 10 requests from Britain for clean plasma."
 11 So we've gone from the BBC through to The Lancet
 12 through, now, to the Mail on Sunday, and the same
 13 date, 1 May, if we just look at one further example --
 14 there are a number of articles that weekend --
 15 MDIA0000015 please, Henry.
 16 This is the Observer, the same day, "The
 17 epidemic spreads", and if we could pick it up at the
 18 bottom of the left-hand column first of all:
 19 "However, incidents of the disease over the past
 20 18 months among 200 drug abusers and 11 haemophiliacs
 21 has strengthened suspicions that AIDS could also be
 22 passed on through blood, either via ..."
 23 If we go to the top of the next column:
 24 "... infected needles or through blood products
 25 such as those used by haemophiliacs to prevent

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1 in supplementary question and answer form, both of
 2 which I'm circulating more widely within the office.
 3 Officials are in touch with representatives of
 4 directors of haemophilia centres and the Blood
 5 Transfusion Service as well as the Haemophilia
 6 Society. The Haemophilia Society indicate they would
 7 welcome an opportunity to discuss AIDS with ministers
 8 by the end of the week.
 9 "Whilst one of the main purposes of the
 10 background briefing is to put the problem of AIDS into
 11 proper perspective, a view shared by The Society, we
 12 think it would be helpful if Mr Finsberg were to offer
 13 to meet representatives of The Society. Meanwhile
 14 there appears to be little to be gained from
 15 ministers issuing statements about a matter which has
 16 been sensationalised and, in some cases, distorted by
 17 the media, and on which, with the present state of
 18 knowledge, there is no immediate action which
 19 ministers could be advised to take. We should,
 20 however, review this line after official discussions
 21 are complete."
 22 Then there's a reference to whether to have
 23 a meeting with The Haemophilia Society.
 24 Could we go to the next page, please. This was
 25 "The Line to Take" that was drafted for Number 10:

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1 bleeding, which may contain blood pooled from up to
 2 1,000 donors."
 3 Then if we scroll down a little further, please,
 4 Henry:
 5 "The blood theory gained credibility a few
 6 months ago when a San Franciscan baby boy who received
 7 massive blood transfusions shortly after birth began
 8 to show early signs of AIDS four months later."
 9 Then there is further reference to the case of
 10 the San Francisco baby.
 11 So again, mainstream media in the United Kingdom
 12 picking up the story. There are other articles in The
 13 Guardian as well, which I won't go to.
 14 That was 1 May. We're then going to look at
 15 some Department of Health documents on 3 May.
 16 Henry, could we have DHSC0001651, please.
 17 So we can see from this it's a minute dated
 18 3 May 1983. It's headed "Acquired Immune Deficiency
 19 Syndrome (AIDS)":
 20 "You will recall we were asked to providing
 21 briefing for Prime Minister's Questions on the stories
 22 which appeared over the weekend about AIDS."
 23 We've just looked at a couple of those stories.
 24 "I attach a copy of the line to take, which went
 25 to Number 10, together with a background note written

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1 "I was very concerned to read this weekend's
 2 press reports and can well understand the anxiety
 3 which some sensational reports may have caused. It is
 4 important to put this in perspective: there is as yet
 5 no conclusive proof that AIDS has been transmitted
 6 from American blood products. The risk that these
 7 products may transmit the disease must be balanced
 8 against the obvious risks to haemophiliacs of
 9 withdrawing a major source of supplies. Already in
 10 this country there is a special surveillance system
 11 established by the Communicable Disease Surveillance
 12 Centre to monitor the occurrence of AIDS, in
 13 collaboration with the Centers for Disease Control in
 14 the USA. Every opportunity is being taken for this
 15 country to learn from the experience of this disease
 16 in the USA."
 17 Sir, you will see there the formulation that is
 18 then repeated on a number of occasions over the course
 19 of the year from the department: No conclusive proof
 20 that AIDS has been transmitted from American blood
 21 products.
 22 Of course, one question which you will no doubt
 23 wish to consider in due course is whether that was the
 24 right question to be asking.
 25 We will just look at the briefing note that is

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1 also referred to in this minute.
 2 Henry, could we have DHSC0001654, please.
 3 We can see here the reference to what is AIDS,
 4 a reference to the symptoms, and then under the
 5 heading "Who is at risk from AIDS?":
 6 "The disease occurred predominantly in
 7 homosexual males but other groups such as mainline
 8 drug abusers, Haitian immigrants and haemophiliacs
 9 requiring treatment with antihaemophilic factor
 10 concentrates have also been identified as being at
 11 increased risk.
 12 "Is it caused by a virus?
 13 "The cause is unknown. Although medical opinion
 14 is tending to favour a virus as the agent responsible,
 15 there is no proof that this is the case. There is no
 16 means of testing for the presence of AIDS in patients
 17 or in blood or blood products such as Factor VIII."
 18 Then there is a reference to laboratory tests
 19 for AIDS.
 20 Then if we go down to "Mortality":
 21 "The mortality from the established disease is
 22 high. At least 40 per cent of cases die after
 23 a variable period of months or years after contracting
 24 the disease."
 25 Then if we just go on to the question:

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1 them to have that information.
 2 "This would not exonerate American Factor VIII
 3 because of the long incubation period which there may
 4 be between exposure to the agent and the manifestation
 5 of the disease. On the other hand, the patient, who
 6 is a severe haemophiliac, has received since 1980
 7 a great deal of British-made Factor VIII concentrate,
 8 and it is not possible to know whether British
 9 concentrate may contain the AIDS agent.
 10 "Should a ban be placed on imports of US
 11 Factor VIII concentrate?
 12 "At present, haemophilia experts in this country
 13 take the view that to ban the imports of US
 14 Factor VIII would be to place haemophiliacs at greater
 15 risk from bleeding than they would be from acquiring
 16 AIDS.
 17 "Should we switch to European countries'
 18 concentrates?
 19 "AIDS has been reported in some European
 20 countries so that European plasma may not be free of
 21 the agent. Moreover, there is evidence that some
 22 European manufacturers may use plasma which comes not
 23 from Europe but from Latin America.
 24 "What action are we taking?"
 25 Then there's a reference to discussions from the

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1 "Is it transmitted in blood or blood products?
 2 "As yet there is no conclusive proof that AIDS
 3 is transmitted by blood as well as by homosexual
 4 contact, but the evidence is suggestive that this is
 5 likely to be the case. The evidence relates to some
 6 11 haemophiliacs in the USA and 3 in Spain, in whom
 7 the most likely explanation for the development of
 8 AIDS was their exposure to American Factor VIII
 9 concentrates. There is also some evidence that AIDS
 10 has been transmitted to babies in blood transfusions.
 11 "Are there any cases of AIDS in UK
 12 haemophiliacs?
 13 "As far as can be established, there are no
 14 proven cases of AIDS in UK haemophiliacs. There is
 15 a suspect case in Cardiff of whom we have details ..."
 16 Of course that will be of particular
 17 significance when you come to consider the decisions
 18 and actions of Professor Bloom.
 19 "... but the reported in the Sunday Mail case
 20 has not yet been traced. The case in Cardiff has not
 21 received any American Factor VIII concentrate
 22 since 1980."
 23 Pausing there, sir, that would suggest there had
 24 been some form of communication between the Department
 25 of Health and Professor Bloom or Cardiff in order for

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1 Blood Transfusion directors. Then:
 2 "All Haemophilia Centre directors have received
 3 instructions to report any suspect case of AIDS both
 4 to a monitoring centre for AIDS at the Oxford
 5 Haemophilia Centre and to the Communicable Disease
 6 Surveillance Centre, Colindale."
 7 There's reference to the Blood Transfusion
 8 Research Committee of the Central Blood Laboratories
 9 Authority considering the problems. Then there's a:
 10 "What are the controls on importing blood
 11 products?"
 12 Reference to the Medicines Act.
 13 Then this is again further questions and
 14 answers:
 15 "Is it true that if the Government had put more
 16 money into the blood products laboratory at an earlier
 17 stage, this problem would not now be with us?
 18 "No. The agent of AIDS is already present in
 19 this country, since a number of cases of AIDS have
 20 been diagnosed in homosexuals who have not received
 21 any blood or blood products.
 22 "When will this country be self-sufficient in
 23 blood products?
 24 "The Central Blood Laboratories Authority is
 25 about to embark on a £21 million scheme to build a new

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1 blood products laboratory at Elstree. This should be
 2 completed in three to four years ... will be of a
 3 size capable of making this country self-sufficient in
 4 blood products."
 5 Henry, is there anything further on that page?
 6 I don't think there is, no. Thank you.
 7 Again, sir, one of the questions you will no
 8 doubt wish to be considering in due course is whether
 9 what is said there about the causal connection with
 10 blood products was sufficiently reflected in the
 11 public statements that were being made by the
 12 department or in the approach being taken by
 13 Haemophilia Centre Directors, such as Professor Bloom.
 14 Sir, I ask you to note that the following day,
 15 4 May 1983, The Haemophilia Society published to its
 16 members a document containing Professor Bloom's advice
 17 on AIDS. I am going to come on to that this afternoon
 18 when looking at Professor Bloom's actions and
 19 decisions in more focus. But that's where it fits
 20 into the chronology. It is 4 May 1983.
 21 If we could then, please, have on screen, Henry,
 22 DHS0002227_020, please.
 23 This is a document you may recall seeing last
 24 year during the evidence of one of the witnesses who
 25 gave evidence in Cardiff. It's a communicable disease

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1 morning with the following information:
 2 "The male patient aged 23 years in Cardiff who
 3 is a known haemophiliac now appears to have the right
 4 symptoms and signs for a diagnosis of AIDS."
 5 And reference there to opportunistic infection
 6 and so on.
 7 "He has been ill for a month ... he has been
 8 treated with American Factor VIII ... no further news
 9 of the haemophiliac patient in London.
 10 "Dr Galbraith last night received information
 11 from Spain that three haemophiliac patients there are
 12 thought to have AIDS and have also been treated with
 13 American Factor VIII. Dr Galbraith asks that the
 14 Department should consider the matter as a priority
 15 and asks that any top level meeting should include
 16 CDSC who are collecting all data on AIDS cases for us.
 17 I assured him we would liaise with CDSC and also told
 18 him that we had already met Dr Gunson, CA in blood
 19 transfusion, and he was in touch with regional
 20 transfusion directors and that alternative supplies of
 21 Factor VIII are being considered but are not going to
 22 be easy to come by. The matter is under active
 23 consideration. Swiss supplies are considered
 24 doubtful. Is Germany a possibility?"
 25 So, again, direct communication to the

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1 report in relation to the week ending 6 May 1983, and
 2 you will see the heading, "Acquired Immune Deficiency
 3 Syndrome, Cardiff":
 4 "Acquired Immune Deficiency Syndrome has been
 5 reported in a 20-year old man with haemophilia in
 6 Cardiff."
 7 Then there's a reference to the infections that
 8 he had had for three months:
 9 "... a low T helper/suppressor ratio, known
 10 underlying cause of immunosuppression.
 11 "This is the first report of AIDS in a patient
 12 with haemophilia in the United Kingdom known to CDSC."
 13 So, again, a key fact in the chronology in the
 14 course of 1983.
 15 That is also immediately notified to the
 16 Department of Health, although the documents we've
 17 already looked at suggest that the Department of
 18 Health or some within the Department of Health were
 19 already aware of it.
 20 If we have please, Henry, DHSC0002227_021,
 21 please.
 22 This is an internal DHSS minute dated
 23 6 May 1983. "AIDS, American Factor VIII" is the
 24 heading:
 25 "Dr Spence Galbraith telephoned from CDSC this

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1 Department of Health of not only the Cardiff case but
 2 also the cases in Spain.
 3 If we then go, please, to CBLA0000043_040,
 4 please, Henry.
 5 This is a letter from Dr Spence Galbraith, who
 6 we've just seen referred to in the communication with
 7 the DHSS. It's dated 9 May, so three days later, and
 8 it's addressed to Dr Field at the Department of Health
 9 and Social Security:
 10 "Dear Ian,
 11 "Last week while you were away in Geneva a case
 12 of AIDS in a haemophiliac in Cardiff who had received
 13 USA Factor VIII concentrate was reported. The case
 14 fits the recognised criteria for the diagnosis
 15 of AIDS.
 16 "In The Lancet of 30 April three cases in
 17 haemophiliacs in Spain are reported; I have confirmed
 18 that they received USA Factor VIII concentrates.
 19 "In the same issue of The Lancet, the tally of
 20 11 reported cases in haemophiliacs in the USA is
 21 recorded and a paper describes a case in a multiply
 22 transfused child in the USA."
 23 Then he says this:
 24 "I have reviewed the literature and come to the
 25 conclusion that all blood products made from blood

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1 donated in the USA in 1978 should be withdrawn from
2 use until the risk of AIDS transmission by these
3 products has been clarified. Attached is a paper in
4 which I set out my reasons for making this proposal.
5 Perhaps the subject could be discussed at an early
6 meeting with haematologists, virologists and others
7 concerns so that a decision may be made as soon as
8 possible."

9 We can see if we go over the page, we see his
10 paper setting out his reasons. So reasons for
11 withdrawal of USA blood products:

12 "1. The AIDS epidemic in the USA is probably due
13 to a transmissible agent.

14 "2. The agent is probably transmitted by blood
15 and blood products."

16 Then he sets out his reasons for reaching that
17 conclusion and just picking it up towards the bottom
18 of that paragraph:

19 "One of these cases, Professor Bloom's case in
20 Cardiff, fits the accepted criteria of AIDS.

21 "3. Although this number of cases of AIDS
22 associated with the administration of Factor VIII
23 concentrate is very small in relation to the number of
24 individuals receiving the product, this may not
25 indicate that the risk is small because (a) the

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1 donations before 1978 are very unlikely to have been
2 contaminated. But he then goes on to say there's an
3 incubation period of seven months or so, if one allows
4 a year or so, he ought to have been saying '76 or '77,
5 oughtn't he?

6 **MS RICHARDS:** Yes, that last part of that sentence may not
7 follow from what he sets out elsewhere in the
8 paragraph.

9 **SIR BRIAN LANGSTAFF:** He is being cautious but he may not
10 be cautious enough.

11 **MS RICHARDS:** Yes, but he is certainly identifying the
12 currently known number of cases may not be an accurate
13 reflection of the true extent of risk.

14 **SIR BRIAN LANGSTAFF:** It is what is coming out of the tap,
15 not what is in the pipeline.

16 **MS RICHARDS:** Then he goes on to say:

17 "4. Factor VIII concentrate of pooled products
18 would appear to have a high risk of being contaminated
19 with AIDS agent because homosexuals and drug abusers
20 are known to be frequent blood donors and each plasma
21 pool from which it is manufactured is collected from
22 as many as 1,000 donors."

23 He refers to the possibility that the AIDS agent
24 being present in the blood of healthy persons for
25 several months before the onset of symptoms.

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1 earliest cases of AIDS reported in the USA developed
2 symptoms in 1978 and, therefore, USA blood products
3 manufactured from donations before 1978 are very
4 unlikely to have been contaminated. Indeed, the
5 earliest reported date of onset of AIDS in
6 a haemophiliac is October 1980. (b) Most of the
7 reported cases of AIDS had been diagnosed in 1981 and
8 1982", and he sets out various numbers:

9 "(c) The incubation period is long, between
10 several months and two years, maybe as long as four
11 years, and therefore one would not expect to see many
12 cases due to USA blood products until a year or more
13 after 1981/82 donated blood products had been given."

14 Pausing there, sir, you will have seen in
15 a number of documents and indeed will see it in some
16 further documents today reference made to the
17 incidence, to the number of cases and the number of
18 cases being small, and that effectively being
19 conflated with the risk. Here Dr Galbraith is not
20 falling into that error of conflating the two
21 concepts.

22 **SIR BRIAN LANGSTAFF:** He might to this extent. If you go
23 back to the previous page, he says the earliest cases
24 of AIDS reported developed symptoms in 1978.
25 Therefore, USA blood products manufactured from

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1 "5. There is apparently no known means of
2 ensuring that blood or blood products are free of the
3 AIDS agent."

4 Again, he refers to the San Francisco baby case.

5 "6. The mortality rate of AIDS exceeds
6 60 per cent one year after diagnosis and is expected
7 to reach 70 per cent."

8 So those are his reasons for suggesting that
9 action should be taken now to prevent the further use
10 of American imported Factor VIII concentrate which of
11 course we know did not as a matter of fact happen.

12 We go from Dr Galbraith to a pharmaceutical
13 company communication to the Department. PRSE0004496.
14 This is a letter of the same date, 9 May 1983, from
15 Travenol to the DHSS:

16 "I want to advise you of important developments
17 and actions being taken by Hyland Therapeutics and
18 Travenol Laboratories in connection with the risks of
19 AIDS. While the causative agent of this disease
20 remains to be identified, some evidence suggests it is
21 caused by a virus that can be transmitted by blood and
22 certain blood products."

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

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1 plasma donors had been identified as a possible victim
 2 of AIDS and it sets out a number of steps that Hyland
 3 was proposing and drawing to the attention of the
 4 DHSS. For present purposes, sir, in terms of looking
 5 at knowledge of risk it's really what is said in the
 6 first paragraph that I draw your attention.

7 On 13 May there was a special meeting of the
 8 Haemophilia Reference Centre directors, the purpose of
 9 which was to discuss recent publicity about AIDS. I'm
 10 going to come back to that when we look at
 11 Professor Bloom later on because he was chair of the
 12 Haemophilia Centre Directors Organisation at the time
 13 and it fits neatly into the account of what he was
 14 doing, but that was happening at the same time as the
 15 correspondence that we're seeing.

16 Then if we could please have, Henry,
 17 NHBT0017430, please. This is a report by Dr Gunson on
 18 proceedings in Lisbon that had taken place between 16
 19 and 19 May 1983 in the Committee of Experts on blood
 20 transfusion and immuno-haematology. You can see under
 21 the heading of "Acquired Immune Deficiency Syndrome",
 22 he says this:

23 "There is no doubt that this subject dominated
 24 the meeting and a report is to be submitted to
 25 a meeting of ministers in June, 1983."

21

1 we'll come to that. Recommendations were made on
 2 23 June 1983 so I will get to that shortly.

3 Around this time we have Montagnier's report in
 4 the Journal of Science of a possible link between AIDS
 5 and the virus referred to by him as LAV. I don't have
 6 any particular documentation that I am proposing to
 7 show you in relation to that.

8 DHSC0003824_164, please, Henry. This is
 9 a letter dated 20 May 1983. It is from
 10 Dr Richard Tedder of the School of Pathology at the
 11 Middlesex Hospital Medical School to Dr Walford of the
 12 DHSS. You will see it is essentially a recommendation
 13 for there to be research but in the second paragraph
 14 he says this:

15 "This condition [i.e. AIDS] is likely to be
 16 caused by an infectious agent or agents. It's
 17 epidemiology bears a striking similarity to
 18 hepatitis B", which was of course known and had been
 19 known for decades to be transmissible by blood and
 20 blood products.

21 Henry, could we then have PRSE0000984. If we
 22 turn it round, thank you.

23 This is a document dated May 1983. I think we
 24 have established it's likely to be towards the end
 25 of May of 1983. It's headed, "AIDS and blood

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1 In the next paragraph he sets out some of what
 2 has been observed and concludes the disease carries
 3 a high mortality rate. There is then a reference to
 4 reports by members of the incidence of AIDS:

5 "Within the European countries, with one
 6 exception, there were less than ten cases of AIDS
 7 reported from each country. The exception was Belgium
 8 where 15 had been found", and then this:

9 "The significance of AIDS to the committee was
 10 in relation to the effects with respect to the
 11 transfusion of blood and blood products, particularly
 12 with coagulation factor concentrates given to patients
 13 suffering from haemophilia. Absolute proof that AIDS
 14 is caused by a transmissible infectious agent is not
 15 yet available but the consensus in the Committee was
 16 that it should be regarded as such and that
 17 a recommendation should be made to the Council of
 18 Ministers at the meeting in June to take necessary
 19 steps to minimise the transmission of AIDS by the
 20 transfusion of blood products."

21 There, sir, we see what is being said at
 22 a European level. We don't yet have --

23 **SIR BRIAN LANGSTAFF:** What were the recommendations it
 24 went on to make?

25 **MS RICHARDS:** We'll come to that I think, sir -- yes,

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1 transfusion, some background to the recent publicity".
 2 It's produced by Dr A Smith, I understand from the
 3 South East Scotland Blood Transfusion Service. He
 4 refers to, in the first paragraph:

5 "There has been a lot of publicity about AIDS in
 6 the media recently and we thought we should explain
 7 something about the disease for donors who are worried
 8 about it."

9 Then further down there's a question:

10 "Who can get the disease? AIDS has been
 11 occurring particularly in the USA in certain people
 12 who are apparently susceptible to the disease ..."

13 Then we have a number listed and the fifth is
 14 haemophiliacs, this is the top of the middle column:

15 "... who may be more susceptible or may become
 16 infected by their use of blood products which may have
 17 come from a blood donor with AIDS. Has AIDS occurred
 18 in the UK? The answer is yes. Does this mean the UK
 19 is relatively safe? We do not know. Can it be
 20 transmitted by blood transfusion? It appears it can.
 21 This might produce the disease in people who are not
 22 normally at risk. It may have infected clotting
 23 factors that cause AIDS in haemophiliac men in USA.
 24 We have not had any definite cases of AIDS in
 25 haemophiliacs in the UK."

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1 Then this:
 2 "The disease cannot be taken lightly. Those
 3 getting AIDS may die because they are more susceptible
 4 to serious infections and cancer due to their impaired
 5 immune system."
 6 Could we then please, Henry, have
 7 DHSC0002231_051. We can see again this is part of an
 8 internal DHSS communication in relation to AIDS.
 9 There's reference to there having been a meeting on
 10 3 June. The document itself or the minute itself is
 11 dated 6 June 1983.
 12 If we look in paragraph 3 of that, it says:
 13 "Dr Walford who is the author of this minute has
 14 written a paper for Dr Harris to accompany an agenda
 15 item for the CBLA, see attached sheet B."
 16 If we could go please Henry to the third page of
 17 this document, we can see the paper authored by
 18 Dr Walford:
 19 "Possible implications of AIDS for plasma supply
 20 and manufacture at BPL. There are increasing
 21 indications that the acquired immune deficiency
 22 syndrome may be transmitted by blood and blood
 23 products. Because of the number of donations to which
 24 they are exposed haemophiliacs receiving large pool
 25 Factor VIII concentrate such as that manufactured at

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1 Henry, can we check that we are in the right place
 2 please.
 3 **MS RICHARDS:** I think we are. It was the very bottom of
 4 the first page, the very last line of the first page.
 5 **SIR BRIAN LANGSTAFF:** Thank you.
 6 **MS RICHARDS:** "The Chairman outlined the problems caused
 7 by AIDS. Since it appeared [then we go to the next
 8 page] to be transmitted through blood and blood
 9 products, then it should be considered by the
 10 Committee", and then there are various discussions
 11 about research and consideration by the transfusion
 12 committee. But then you will see there, sir, the CBLA
 13 seemingly accepting the causal connection between
 14 blood and blood products and AIDS and certainly not
 15 advancing any alternative cause.
 16 Then, Henry, if we could have PRSE0000372. This
 17 is the Council of Europe Committee of Ministers'
 18 recommendations, 23 June 1983.
 19 If we go down to the third paragraph:
 20 "Considering the growing importance of a new
 21 severe health hazard, AIDS, that may be caused by an
 22 infectious agent transmissible by blood and blood
 23 products", and then if we go to the next page, please,
 24 Henry:
 25 "Recommends the Governments of Member States (1)

27

1 BPL might be at greater risk than those receiving
 2 single donor cryoprecipitate or small pool products."
 3 Reference is made there to the Council of Europe
 4 meeting.
 5 Henry, if we then have please PRSE0002741.
 6 Sorry, I think I may have given you the wrong
 7 reference. Don't worry I may come back to that.
 8 That's another version of Dr Gunson's report. It's an
 9 updated version of Dr Gunson's report.
 10 If we have please -- no, I think I might in fact
 11 have given you the right one, sorry, PRSE0002741.
 12 Thank you, it was the right one. This is the CBLA
 13 meeting, 21 June 1983. We can see attendees include
 14 Dr Gunson, Professor Bloom, Dr Rizza and
 15 representative Dr Bell from the Scottish Home and
 16 Health Department, Dr Gibson from the Medical Research
 17 Council, Dr Walford from the DHSS.
 18 If we just go to the bottom of that page,
 19 please, under the heading "AIDS":
 20 "The Chairman outlined the problems caused by
 21 AIDS. Since it appeared to be transmitted through
 22 blood and blood products, then it should be considered
 23 by the committee."
 24 **SIR BRIAN LANGSTAFF:** I think we may not be in the same
 25 part of the page, not on the screen. Can we just --

26

1 to take all necessary steps and measures with respect
 2 to AIDS and, in particular, to avoid wherever possible
 3 the use of coagulation factor products prepared from
 4 large plasma pools. This is especially important for
 5 those countries where self-sufficiency in the
 6 production of such products has not been achieved, to
 7 inform attending physicians and selected recipients
 8 such as haemophiliacs of the potential health hazards
 9 of haemotherapy and the possibilities of minimising
 10 these risks", and then, thirdly, "to provide all blood
 11 donors with information on AIDS so that those in risk
 12 groups will refrain from donating."
 13 **SIR BRIAN LANGSTAFF:** Does it give a definition of what
 14 large plasma pools are?
 15 **MS RICHARDS:** Certainly not in this document. I haven't
 16 put before you, sir, all the material relating to the
 17 Council of Europe meeting. There were reports from
 18 a number of different European countries. We do
 19 I think have much of the material so we can check what
 20 the position was there.
 21 But you'll see there, sir, in relation to the
 22 first two recommendations the overall arching
 23 recommendation is take all necessary steps and
 24 measures but, in particular, the (2) is to avoid
 25 wherever possible the use of factor products prepared

28

1 from large plasma pools and to inform physicians and
2 recipients, in other words, patients, of the potential
3 health hazards and the possibilities of minimising the
4 risks.

5 Again, one of the key questions for you, sir,
6 will be in particular evaluating the evidence you have
7 heard from individuals whether clinicians did provide
8 information or warnings about the risk of AIDS to
9 their patients and no doubt you will be assisted too
10 by the evidence you will hear from clinicians on that
11 issue in the coming months.

12 Without going to it, sir, 24 June 1983, there's
13 a further MMWR publication from the Centers for
14 Disease Control in Atlanta updating the increasing
15 numbers of cases of AIDS, 1,641 now reported in the
16 USA and its territories.

17 We then get to HCDO0000270_004. Again, this is
18 a document we will no doubt come back to possibly in
19 relation to Professor Bloom or in relation to Oxford
20 and Dr Rizza. It is dated 24 June 1983. It says
21 "Dear blank" but we know from other material it was
22 sent to the haemophilia centre directors following the
23 meeting of reference centre directors held on
24 13 May 1983. It says:

25 "So far one possible case has been reported to

29

1 "It seems logical to continue to use our normal
2 supplies of NHS concentrate."

3 Then it looks at proposed trials in relation to
4 hepatitis reduced Factor VIII concentrates. Again,
5 sir, one of the many questions that you will need to
6 consider in due course is whether this was an adequate
7 and appropriate response to the developing knowledge
8 of the risk of AIDS for haemophiliacs and, indeed,
9 whether the advice that was set out here, in such
10 terms as it is, was implemented by clinicians in
11 centres across the country.

12 Could we then please have DHSC0001209, please,
13 Henry. This is a document prepared for a key meeting
14 on 13 July 1983 of a subcommittee of the Committee on
15 the Safety of Medicines. This is a suggested agenda
16 for the meeting. You'll see it's said at:

17 "(1) that the aim of the discussion is to help
18 the subcommittee to formulate advice to the CSM and
19 whether any action is needed and, if so, what action
20 in respect of AIDS and blood products licensed under
21 the Medicines Act."

22 We can see at (2) that there have been a number
23 invited to attend the subcommittee, including
24 Professor Bloom but also Dr Craske, Dr Galbraith
25 Dr Gunson and Dr Mortimer. Then at (4) it says:

31

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

6 Then it refers to the general recommendations
7 agreed on 13 May:

8 "For mildly affected patients with haemophilia A
9 or von Willebrand's disease and minor lesions,
10 treatment with DDAVP should be considered. Because of
11 the increased risk of transmitting hepatitis by means
12 of large pool concentrates in such patients this is in
13 any case the usual practice of many directors.

14 "2. For treatment of children and mildly
15 affected patients or patients unexposed to imported
16 concentrates, many directors already reserve supplies
17 of NHS concentrates (cryoprecipitate or freeze-dried)
18 and it would be circumspect to continue this policy.
19 It was agreed that there is as yet insufficient
20 evidence to warrant restriction of the use of imported
21 concentrates in other patients in view of the immense
22 benefits of therapy but the situation will be
23 constantly reviewed."

24 Then it goes on to deal with treatment of
25 patients with haemophilia B where it's said:

30

1 "This agenda suggests heading for the
2 discussion", and a suggested first speaker is given.

3 "As a target for discussion, brief possible
4 conclusions are indicated -- doubtless these will be
5 changed radically."

6 It is a somewhat unusual document because under
7 the heading "agenda" it sets out suggested
8 conclusions.

9 If we go down the page we see under the heading,
10 "Factor VIII and other clotting factors:

11 "Aetiology, current possibilities, conclusion
12 and infectious cause seems likely and a single new
13 agent could be responsible, repeated exposure to or
14 reactivation of known viruses cannot be excluded.
15 Although possible agents have been proposed their
16 relationship to the disease remains very uncertain.
17 The infectivity of the supposed agent appears to be
18 low, requiring for transmission intimate contact or
19 introduction into the body tissues."

20 Then epidemiology:

21 "Current position, assessment of risk from
22 Factor VIII", if we go over the page.

23 "Conclusion. Recipients of clotting factor
24 concentrates are at risk. The degree of risk cannot
25 yet be quantified. The risk is likely to be greatest

32

1 from products derived from the blood of homosexuals
2 and IV drug abusers resident in areas of high
3 incidence, and in those who repeatedly receive
4 concentrates in high dosage."

5 Then the next part goes on to look at possible
6 approaches to avoiding or reducing the presence of
7 viruses in clotting factor preparation, including
8 screening of donors, screening of donor blood, and
9 a number of other matters one of which is -- and this
10 is on the third page, please, Henry:

11 "4. Consideration of the different operational
12 possibilities for reducing the risks from clotting
13 factor preparations. Withdraw Factor VIII and IX
14 concentrates, i.e. use only cryoprecipitate for
15 treatment", and it looks like it's suggesting
16 Professor Bloom will be the one to address the
17 committee on that.

18 "Conclusion. This step cannot at present be
19 recommended: (a) it is probably impossible to satisfy
20 UK needs in this way; (b) even if needs could be
21 satisfied it would involve a major rethink of UK
22 policy for preparing blood products; (c) the perceived
23 level of risk at present does not justify serious
24 consideration of this solution."

25 Then the next suggestion is:

33

1 If we go to the third page, the recommendations
2 here are set out there.

3 "The Medical Board reached agreement on two
4 issues and wish to advise the Council and General
5 Assembly accordingly. There is insufficient evidence
6 to recommend at the present any change in treatment.
7 Therefore, present treatment of haemophilia should
8 continue with whatever blood products are available
9 according to the judgment of the individual physician.
10 (2) Longitudinal studies are urgently needed on the
11 questions already mentioned ..."

12 So that was the recommendation being made by the
13 Medical Board to the Council and General Assembly of
14 the World Federation of Haemophilia at the end of
15 June.

16 There is an interesting reflection on that
17 meeting. If we go to ARCH0002544, please. This is
18 a note from Dr Foster 15 July 1983 it might be helpful
19 if I summarise the key points concerning AIDS from the
20 World Federation for haemophilia and ISTH Stockholm
21 meetings. Most of the information was presented by
22 Dr Evatt. We can skip down the next few paragraphs.

23 We can see:

24 "(6) Haemophiliacs are in a group which develops
25 opportunistic infections.

35

1 "Withdraw US preparations from the UK market.
2 Conclusion. Impracticable on grounds of supply."

3 Then the next suggestion is:

4 "Use US blood products as sparingly as possible.

5 Note: this possibility is largely a matter for
6 physicians treating haemophilia but it could in theory
7 be decided to modify product licences, eg not for use
8 in children with mild haemophilia."

9 Again, it looks like that is going to be
10 a matter on which Professor Bloom is going to be asked
11 to advise the committee.

12 "Conclusion. The uncertain balance of
13 risk/benefit considerations in various categories of
14 patient are too finely balanced to justify action via
15 licensing. The matter should be left to clinical
16 judgment."

17 So that's the agenda with suggested conclusions.

18 We then -- before we get to the CSM meeting
19 itself, this document I think is produced -- it's
20 28 June of 1983 for a meeting that was going to take
21 place on 13 July. So dealing with matters in strict
22 chronological order the next relevant event is on
23 29 June a meeting of the World Federation of
24 Haemophilia General Assembly.

25 Henry, could we have PRSE0001351 please.

34

1 "(7) For haemophiliacs there are 16 confirmed
2 cases in the USA, 8 now dead; 5 in Europe; 3 Spain; 1
3 Wales; 1 Canada."

4 I am not quite sure why it is thought Canada is
5 in Europe.

6 "Other delegates seemed to think there were more
7 cases than this outside the USA, eg Canada, Germany,
8 Israel, Sweden. Of the 16 USA cases 1 is a mild
9 haemophilia B case who also received two units of New
10 York blood. Haemophilia A cases are mild, moderate
11 and severe."

12 Go to the next page:

13 "AIDS is still located mainly in key urban areas
14 in the USA ... however the haemophilia cases are
15 generally located in non-AIDS areas. This is strong
16 evidence for transmission by Factor VIII."

17 Paragraph 11:

18 "The AIDS haemophiliac in Cardiff has received
19 products from Armour and Immuno as well as NHS. Other
20 suspected European cases have received products from
21 Hyland and Immuno."

22 Then this, this is Dr Foster's impression:

23 "My general impression was that there was
24 a concentrated attempt from USA delegates to play down
25 the situation. The risk to haemophiliacs was said

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

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1 a session or to send it out as part of the call-up
 2 material. However, one or two regions felt that there
 3 might be some benefit in a slightly more aggressive
 4 approach and these RTDs may be asked to develop a kind
 5 of trial in their regions by either posting or handing
 6 out the leaflets."
 7 Then we look at the leaflet itself, and it's
 8 instructive to see what it says -- next page, please,
 9 Henry:
 10 "Why is a leaflet on AIDS necessary?
 11 "Recently there's been considerable publicity in
 12 the newspapers ..."
 13 Et cetera, et cetera:
 14 "What is AIDS? Who is at risk of AIDS?"
 15 Then if we keep going down, please:
 16 "Has AIDS occurred in the United Kingdom?"
 17 "Yes, a few cases have been reported."
 18 Then this:
 19 "Can AIDS be transmitted by transfusion of blood
 20 and blood products?"
 21 "Almost certainly yes. There is only the most
 22 remote chance of this happening with ordinary blood
 23 transfusions. However, in the USA about ten patients
 24 suffering from haemophilia have developed AIDS."
 25 It refers to the use of Factor VIII:

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

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

40

1 recommendation from the Council of Europe that we've
2 looked at.

3 "Moreover, one of the regional transfusion
4 directors had let slip to the press that a leaflet was
5 in the offing and if nothing was now done, speculation
6 would be rife."

7 Pausing there, sir, there doesn't appear to be
8 any doubt expressed in this minute of the existence of
9 the causal relationship. The question is only should
10 a leaflet be issued, is that the appropriate course,
11 rather than it being suggested that there's
12 insufficient evidence that AIDS was transmitted
13 through blood or blood products.

14 Then we see the minister's response at 3:
15 "MSH accepted the strength of these arguments,
16 he thought the leaflet as drafted read well although
17 he would like it to emphasise more strongly how few
18 cases of AIDS there have been in the UK, perhaps by
19 quoting numbers."

20 Then there's reference to Lord Glenarthur would
21 be answering an oral Parliamentary question about AIDS
22 from Baroness Dudley on 14 July. If she asked about
23 the Blood Transfusion Service, Lord Glenarthur should
24 emphasise that the risk to haemophiliacs was very
25 small.

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1 categories of those who appear to be particularly
2 susceptible is set out above under the heading, "Who
3 is at risk of AIDS?" We see there:

4 "Gay men with many different partners, drug
5 addicts using injections, sexual contact with people
6 suffering from AIDS."

7 But yes, it is a request rather than an
8 injunction.

9 **SIR BRIAN LANGSTAFF:** It obliges the person to say, "Oh,
10 I'm at risk".

11 **MS RICHARDS:** To self-identify effectively, yes.

12 **SIR BRIAN LANGSTAFF:** Yes, thank you.

13 **MS RICHARDS:** Sir, I should say there is other evidence
14 that suggests that the leaflet was published in early
15 September 1983.

16 Then if we could have, please, DHSC0001208 --
17 and this is probably the last document before we
18 break -- this is a report of the meeting that took
19 place in the committee -- the subcommittee of the
20 Committee on Safety of Medicines on 13 July 1983. We
21 do also have the minutes. I am not going to put them
22 up. If anyone wants them, they're at ARCH0001710, but
23 actually the minutes, in terms of content, don't
24 really say anything more than what we have here.

25 "Summary of main points from a consideration of

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1 **SIR BRIAN LANGSTAFF:** I appreciate we're looking at risk
2 at the moment but the subtext of this meeting seems to
3 be that the leaflet itself was saying to people who
4 were in particular risk groups that they shouldn't
5 give blood.

6 **MS RICHARDS:** Yes.

7 **SIR BRIAN LANGSTAFF:** Can we go back to the leaflet?

8 **MS RICHARDS:** Yes, certainly. That is NHBT0020668.

9 **SIR BRIAN LANGSTAFF:** Does it actually say anywhere in the
10 leaflet that people who are homosexual men who have
11 had many different partners or drug addicts and sexual
12 contacts of people suffering with AIDS should not give
13 blood?

14 **MS RICHARDS:** The way it is put is -- under the question
15 at the bottom of the page:

16 "How can risks be reduced?"

17 "At present there is no screening test the
18 Transfusion Service can use to detect people with
19 AIDS, so until there is and until more is known about
20 this disease, donors are requested not to give blood
21 if they think they might either have the disease or be
22 at risk from it."

23 **SIR BRIAN LANGSTAFF:** So it's not particularly specific,
24 is it?

25 **MS RICHARDS:** No, although it is fair to say that the

42

1 AIDS and licensed blood products by CSMB,
2 13 July 1983.

3 "The subcommittee was helped by the following
4 expert advisers: Professor Bloom, Dr Craske,
5 Dr Galbraith, Dr Gunson and Dr Mortimer.

6 "Consideration was given to the current
7 information available on incidence and epidemiology,
8 aetiology and related factors. Strategies for
9 limiting or eliminating risks from blood products were
10 examined together with possible practical measures.

11 "The following conclusions were reached:

12 "(1) The cause of AIDS is unknown but an
13 infectious aetiology seems likely. A previously
14 unrecognised or new agent may be responsible.
15 Heightened susceptibility may be an important factor,
16 eg immunological deficiencies induced by unusual
17 sexual practices or exposure to blood products.

18 "(2) Patients who repeatedly receive blood
19 clotting factor concentrates appear to be at risk, but
20 the evidence so far available suggests that this risk
21 is small. The risk appears to be greatest in the case
22 of products derived from the blood of homosexuals
23 and IV drug abusers resident in areas of high
24 incidence, eg New York and California, and in those
25 who repeatedly receive concentrates in high dosage.

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

45

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

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1 Viral inactivation is considered as a promising
 2 future development in point 6. Consideration is given
 3 to the hepatitis B vaccine and others and then, at 11,
 4 it concludes there's a need for research work on AIDS
 5 in the UK.

6 As I say, you will no doubt look at that, sir,
 7 with witnesses in due course.

8 In fact, sir, we have reached 11 o'clock or just
 9 gone 11.00, so before I move to another document, that
 10 may be a convenient point at which to finish.

11 **SIR BRIAN LANGSTAFF:** That would be a convenient moment.

12 We break off at the position in which the
 13 subcommittee is recommending that there be no ban on
 14 the importation?

15 **MS RICHARDS:** Yes.

16 **SIR BRIAN LANGSTAFF:** Very well.

17 We will come back, as always, in three-quarters
 18 of an hour to make sure you have time to go, socially
 19 distanced, to pick up the coffee or to be served with
 20 coffee or whatever you have. I look forward to seeing
 21 you back here at 11.45.

22 (11.03 am)

(A short break)

23 (11.45 am)

24 **MS RICHARDS:** Sir, we move to August of 1983.

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1 to discuss it at their next meeting in September. If
 2 the risks are now considered too great to justify
 3 continued collection from prisons, some measures will
 4 be needed to compensate for the loss of that source of
 5 donors. Perhaps, for example, a system whereby
 6 regions with no need to rely on prisons can take extra
 7 blood to be transferred to those regions for whom loss
 8 of prisons as a source of blood will cause
 9 difficulties.

10 "I shall of course advise you of any
 11 developments which occur. I gather this problem has
 12 been debated by transfusion directors in Scotland but
 13 no particular policy line emerged. We shall obviously
 14 need to liaise closely with Home Office also since
 15 they have in the past been very much in favour of
 16 blood donation by prisoners."

17 Sir, I draw attention to that because of course
 18 we looked in some detail at the sources of blood in
 19 America feeding into the pooled plasma and the
 20 concentrates used by those with bleeding disorders,
 21 but we see here, in August 1983, blood still being
 22 collected from prisons and borstals in the
 23 United Kingdom and no clear policy line emerging.

24 I'm afraid I don't have a note of what was then,
 25 if anything, discussed and concluded at the meeting in

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1 September, but I can check that.
 2 If we then, please, have DHSC0002231_036,
 3 please, Henry.
 4 Yes, DHSC0002231_036. This is a letter of
 5 26 August 1983, so around the same time as the memo.
 6 It's addressed to the general secretary,
 7 Clive Jenkins, of the Association of Scientific,
 8 Technical and Managerial Staffs, and it is from the
 9 Joint Parliamentary Under-Secretary of State,
 10 Lord Glenarthur. I draw attention only to the second
 11 paragraph:
 12 "I think I should emphasise, firstly, that there
 13 is no conclusive evidence that AIDS is transmitted
 14 through blood products."
 15 So as at the end of August 1983, that is still
 16 the Government's articulated public position. Then he
 17 goes on to say:
 18 "Nevertheless, we are taking all practicable
 19 measures to reduce any possible risks to recipients of
 20 blood and blood products. Our scope for action in
 21 this is limited as there is no means of testing for
 22 the presence of AIDS in blood donors or in blood
 23 products."
 24 Then there's a reference to various specific
 25 issues.

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1 been reported to the Centers for Disease Control.
 2 There is thought to be considerable under-reporting.
 3 Then there's reference to 75 per cent occurring in
 4 male homosexuals. Then it says:
 5 "Homosexuals, together with three other distinct
 6 groups of individuals, comprise the so-called
 7 '4-H List' of those particularly susceptible to the
 8 disease."
 9 They are there set out, the last of which is
 10 haemophiliacs.
 11 Then if we carry on down, we see it says just
 12 above the heading "Spread of the disease":
 13 "A handful of cases have developed in recipients
 14 of ordinary blood transfusions, and these have
 15 provided valuable evidence to indicate that the
 16 incubation period for the disease may vary from
 17 several months up to four years.
 18 "Spread of the disease."
 19 "The pattern which emerges is of a disease which
 20 appears to be transmitted predominantly by male
 21 homosexual activity but also by heterosexual means.
 22 As a secondary method of spread, contaminated needles
 23 used by drug addicts and the transfusion of blood and
 24 plasma taken from donors carrying the AIDS agent
 25 account for the occurrence of AIDS in intravenous drug

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1 Again, sir, it will be an issue for you to
 2 consider in due course whether there is any mismatch
 3 between the suggestion here that the Department is
 4 taking all practicable measures to reduce any possible
 5 risks and the outcome of the meeting on 13 July of the
 6 Committee on Safety of Medicines.
 7 Reported in the media -- I'm not going to go to
 8 it -- but at the beginning of September 1983 is
 9 a further case of a baby given a blood transfusion who
 10 died of AIDS. That was in Canada.
 11 If we pick matters up towards the end of
 12 September of 1983 -- Henry, could we have
 13 DHSC0003824_060, please.
 14 This is just to show what the next document is.
 15 So this is a handwritten note, September 22, 1983. It
 16 is for the CMO, so the chief medical officers meeting
 17 with the association of district medical officers, and
 18 it refers to attaching an updated information paper on
 19 AIDS for the district medical officers.
 20 Then if we go, please, Henry, to same reference
 21 but 061 at the end, DHSC0003824_061.
 22 So this is the document produced in September of
 23 1983 for the chief medical officers' meeting.
 24 We can go down to "AIDS in the USA", and we see
 25 the current figures. Some 2,008 cases of AIDS have

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

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1 be no dumping of high-risk plasma products on the UK
 2 market and are seeking various assurances from the
 3 manufacturers in relation to the quality of their
 4 products. It should be noted that certain commercial
 5 manufacturers are proposing to introduce heat treated
 6 Factor VIII concentrate. There's no evidence
 7 whatsoever that such material reduces the risk of
 8 transmitting AIDS."

9 So you will see there, sir, in September 1983
 10 identification of the risk to haemophiliacs in those
 11 fairly stark terms. That is only a month or so after
 12 the letter from Lord Glenarthur suggesting no
 13 conclusive evidence of AIDS being transmitted through
 14 blood products.

15 A few days after this document at PRSE0004533,
 16 we have the report in The Guardian of the first AIDS
 17 fatality in a British haemophiliac. If we then move
 18 two or three weeks after that to PRSE0004440, please.
 19 No, that's not it. Don't worry, I can read the
 20 relevant passage it may be that the references have
 21 changed.

22 This is on 17 October 1983. It's the 14th
 23 meeting of the UK haemophilia centre directors and
 24 it's a document we'll look at I have no doubt with
 25 a number of witnesses.

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1 **SIR BRIAN LANGSTAFF:** Just pausing there, it's an
 2 abbreviated record of the meeting so one doesn't know
 3 quite what was said, but as reported the words are "no
 4 proof that commercial concentrates were the cause of
 5 AIDS."

6 That's rather different than saying a virus was
 7 the cause of AIDS, is it not?

8 **MS RICHARDS:** It is, sir.

9 **SIR BRIAN LANGSTAFF:** Because whatever was the cause of
 10 AIDS, assume for the moment it is unknown, it might
 11 have appeared that commercial concentrates were
 12 transmitting it.

13 **MS RICHARDS:** Yes. It is not articulated in that way. It
 14 is of course a compressed set of minutes and not
 15 a verbatim record.

16 **SIR BRIAN LANGSTAFF:** So it may simply be a reflection of
 17 a much larger -- bound to be a reflection of a much
 18 larger discussion.

19 **MS RICHARDS:** It may be but the outcome, in any event, is
 20 clearly recorded in the minutes and the minutes were
 21 disseminated as I understand it is the usual practice
 22 to haemophilia centres, the outcome was don't
 23 encourage patients to switch to cryoprecipitate.

24 Could we then please have, Henry -- we're moving
 25 to the following month, November 1983 -- PRSE0002122,

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

23 Again, sir, one key question for you will be
 24 whether that was an appropriate response on behalf of
 25 the haemophilia centre directors as at October 1983.

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1 thank you. I want to see the whole document.

2 Sir, you will see this is copies of two
 3 newspaper reports, one from the Daily Telegraph and
 4 one from The Guardian and then there's a handwritten
 5 entry at the bottom. We'll just zoom in on the
 6 Guardian item, "US blood caused AIDS". It says this:

7 "The British haemophiliac who died from AIDS
 8 almost certainly caught the disease from contaminated
 9 supplies of blood clotting agent Factor VIII, imported
 10 from the US, doctors report today. The man, aged 55,
 11 caught AIDS a few weeks after being given US
 12 Factor VIII for the first time. Hitherto, he had been
 13 treated exclusively with British supplies. It seems
 14 highly probable that the development of AIDS was
 15 related to this treatment. This case provides further
 16 evidence for a link between blood products and
 17 AIDS ..."

18 That's a quote from Dr Daly, Dr Helena Daly and
 19 Dr Jeffrey Scott from the Bristol Royal Infirmary from
 20 a report in The Lancet. There is a reference to that.
 21 I won't go to it, but The Lancet report is
 22 PRSE0004509.

23 Then it's referred to a haemophiliac in Cardiff
 24 having developed the disease. This was the Bristol
 25 case:

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1 "Bristol man was given a large amount of US
 2 Factor VIII in December 1981, fell ill in January",
 3 et cetera, et cetera.
 4 So that's reported in The Guardian. I think the
 5 actual date of the report is 18 November of 1983.
 6 If we zoom out, please, to the handwritten
 7 entry. This is a Department of Health document, just
 8 slightly back, thank you. Someone's written:
 9 "Have you seen? On X -- is it okay for me to
 10 continue to say there is no conclusive proof that the
 11 disease has been transmitted by American blood
 12 products."
 13 Then we have an answer:
 14 "Thanks. Yes, it is okay."
 15 Now, our understanding at least of who wrote the
 16 answer is that it's Dr Diana Walford within the
 17 Department of Health and Social Security. If we zoom
 18 back out again, the X is, as we can see, an X that's
 19 marked by what Dr Daly and Dr Scott have reported in
 20 The Lancet.
 21 We can see the handwritten note is not dated but
 22 I understand the Guardian report is to be 18 November.
 23 I will double-check that. It would fit with the date
 24 of The Lancet, I think. We can see a Parliamentary
 25 question just a few days before that, PRSE0000886,

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1 press reports on AIDS may have caused and would, first
 2 of all, like to put matters into perspective: the
 3 cause of AIDS is as yet unknown and there is no
 4 conclusive proof that the disease has been transmitted
 5 by American blood products."
 6 Then it goes on to give an assurance that the
 7 Government is committed to making the country
 8 self-sufficient and various factual information is
 9 there set out.
 10 Sir, I am then going to move on to April 1984
 11 and I should emphasise there is a vast amount of
 12 documentation from this time as one would expect both
 13 emanating from the Department and from --
 14 **SIR BRIAN LANGSTAFF:** Just a moment. Before you leave
 15 that, just scanning down, it refers, does it, to "the
 16 imports prepared from plasma collected after March
 17 this year", the same paragraph, subject to new
 18 regulations initiated by the US FDA.
 19 **MS RICHARDS:** Yes. So it refers to the expenditure on
 20 BPL, then it says:
 21 "Meanwhile, in the absence of a satisfactory
 22 alternative, we shall be dependent upon imports from
 23 the USA for an adequate supply of Factor VIII."
 24 Then there is reference to imports prepared from
 25 plasma collected after March being subject to new FDA

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1 14 November 1983, top right-hand corner, Mrs Currie
 2 asked the Secretary of State for Social Services what
 3 advice has been given to hospitals concerning the use
 4 of imported Factor VIII in the light of recent concern
 5 about its possible contamination with the causative
 6 agent of AIDS. Mr Kenneth Clarke:
 7 "There is no conclusive evidence that acquired
 8 immune deficiency syndrome (AIDS) is transmitted by
 9 blood products. The use of Factor VIII concentrates
 10 is confined almost exclusively to designated
 11 haemophilia centres whose directors and staff are
 12 expert in this field. Professional advice has been
 13 made available to all such centres in relation to the
 14 possible risks of AIDS from this material."
 15 That, as I say, may possibly pre-date the -- or
 16 may pre-date the handwritten note we've just looked at
 17 but if we then go to ARCH0000679, please, we can see
 18 now this is 16 December 1983, so on any view this
 19 would seem likely to post date the handwritten note,
 20 "Is it okay for me saying this", answer, "Yes, it is".
 21 It is a letter from Lord Glenarthur responding to an
 22 MP's letter addressed to Kenneth Clarke and it says in
 23 the second paragraph this:
 24 "I can well appreciate the anxiety, particularly
 25 amongst haemophiliacs and their families which recent

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1 regulations designed to exclude donors from high-risk
 2 groups.
 3 Then says:
 4 "There is still a quantity of stock which has
 5 been made from pre-March plasma. The FDA has recently
 6 decided not to ban the use of such stocks because to
 7 do so would cause a crisis of supply. The same
 8 considerations apply here."
 9 **SIR BRIAN LANGSTAFF:** So what that means is, is it, that
 10 a pre-March plasma collected from high-risk groups was
 11 still going to be made available here?
 12 **MS RICHARDS:** Yes.
 13 **SIR BRIAN LANGSTAFF:** I see.
 14 What's the next line?
 15 "We are anxious to minimise the possible risk of
 16 the transmission of AIDS by blood donation."
 17 **MS RICHARDS:** "... by blood donation."
 18 So then there's reference to the leaflet.
 19 **SIR BRIAN LANGSTAFF:** So that's talking about something
 20 different?
 21 **MS RICHARDS:** Yes. Let me just check the full text of the
 22 letter. Yes, it just finishes with the leaflet, and
 23 it encloses a copy of the leaflet.
 24 So, sir, the next document is from April 1984.
 25 Obviously, there continues to be a significant amount

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1 of material generated by Department, Regional
 2 Transfusion Directors, Haemophilia Centre directors
 3 and the like, but that will all be further examined in
 4 the course of the Inquiry's hearings. For present
 5 purposes we move to 23 April 1984 and the press
 6 conference announcement by Dr Robert Gallo. That's at
 7 DHSC0000455.

8 I won't go through the entirety of it but we can
 9 just see there it's said that:

10 "Scientists have discovered that variants of
 11 human cancer virus are the probable cause of AIDS.
 12 This should make it possible for there to be a test.
 13 Dr Robert Gallo, who directed the research, isolated
 14 the new group of viruses. They are variants of
 15 a family of viruses known as HTLV of which HTLV-I
 16 and II are members. The new virus is named HTLV-III."

17 We will see in the documentation from then on
 18 until the name "HIV" is given that the virus is
 19 referred to generally as HTLV-III.

20 May of 1984, then.
 21 PRSE0001094.

22 This is one of various Haemophilia Society
 23 communications, and again these are documents we're
 24 going to be looking at, I've no doubt, time and again.
 25 This is, we'll see, May 1984.

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1 Again, no doubt when we hear from relevant
 2 clinician witnesses, including Professor Lee, we'll be
 3 wanting to consider with her the terms in which that
 4 articulation of incidence and risk was expressed.

5 Sir, if we go briefly to DHSC0000443, page 233,
 6 sir, we're now in August of 1984. If we go to the
 7 second page, this is an internal DHSS document. It's
 8 commenting on the publication of a paper in The Lancet
 9 and a publication in The Guardian on the use of
 10 a screening test for AIDS devised by the Institute of
 11 Cancer Research in the Middlesex Hospital.

12 So in August 1984 it was reported that a test in
 13 relation to detecting the HTLV-III virus was underway,
 14 and details are given of that.

15 Then if we go to the third page, please, Henry,
 16 so the next page, we see under the heading
 17 "Haemophilic patients with antibody to HTLV-III":

18 "The proportion of haemophilic patients amongst
 19 the relatively small total number tested ..."

20 I'm skipping over but there had been a number of
 21 tests undertaken:

22 "... is high. It must be stressed that at
 23 present the significance of this finding is not yet
 24 clear. However, in all the studies carried out on
 25 groups of patients so far there does seem to be

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1 We go to the second page -- and you saw this,
 2 sir, in the course of evidence from individuals last
 3 year -- it's an update on AIDS by Dr Christine Lee,
 4 then Senior Registrar in the Royal Free.

5 We'll see it says:

6 "The occurrence of AIDS in haemophilic patients
 7 has strongly suggested transmission of the order by
 8 blood products, and epidemiological studies have
 9 suggested it may be related to a transmissible agent."

10 Then she refers to the report that we've just
 11 looked at and also to the work in Paris, and then says
 12 this in the second paragraph:

13 "In Great Britain the number of haemophiliacs
 14 who have been reported with AIDS remain at two, thus
 15 the incidence is less than 1 in 1,000 patients at
 16 risk."

17 Then she goes on to -- if we go further down,
 18 Henry, in the third paragraph -- talk about:

19 "The prospects for resolving problems are
 20 brighter for haemophiliacs since improvements in
 21 plasma fractionation are likely to make it possible to
 22 remove or inactivate causal agents from therapeutic
 23 products."

24 She refers to the prospect of heat treatment.
 25 So that's The Haemophilia Society publication.

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1 evidence that haemophilic patients are a group at
 2 risk, presumably because of the therapy they require
 3 with Factor VIII, most of which is derived from human
 4 blood."

5 They then say at the last sentence of that
 6 paragraph:

7 "Until a test is developed that can be used to
 8 screen all blood donations, no guarantee can be given
 9 that donations are free from the AIDS agent."

10 If we then move to November 1984, picking up on
 11 this issue of the development of a test, at
 12 DHSC0000435 we see this. It's a minute dated
 13 23 November 1984 from one departmental official to
 14 another:

15 "The briefing session last night with MSH [which
 16 is presumably still Kenneth Clarke] for his ITV
 17 interview revealed that he has strong views on
 18 spending money on the blood test for HTLV-III. He
 19 felt that to spend around £2 million was not
 20 cost-effective when there were so few AIDS cases and
 21 the money could be better spent elsewhere. I paraded
 22 a number of arguments, including that widespread use
 23 was a virtual certainty in the US, demonstrating
 24 publicly we were doing all we could to show that our
 25 blood is safe, the parallel with hepatitis. Clearly

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1 we will need to play a strong devil's advocate role
 2 with the working group next week. I would be grateful
 3 if we could look out some figures about hepatitis
 4 testing."
 5 Then further reference to a donor leaflet.
 6 It may be that's a revised version of the
 7 leaflet, I'm not sure.
 8 Then if we go, please, to DHSC0002309_057. This
 9 is dated 30 November 1984. Again, it's an internal
 10 departmental minute and it says:
 11 "Ministers will wish to be aware of three
 12 incidents of UK blood being given by donors found
 13 positive by the screening test for HTLV-III antibody.
 14 In one case the infection had been transmitted to
 15 a number of recipients, none of whom has yet developed
 16 AIDS but this is a possibility."
 17 The background is then set out. Then it says at
 18 (3):
 19 "Knowledge of these incidents is becoming more
 20 widespread and is likely to reach the media before
 21 long. Haemophilia Centre Directors managing the
 22 haemophiliacs involved may well feel that they have to
 23 inform their patients of the situation."
 24 It seems to be left to the clinicians to make
 25 that decision. Then if we go please to TYWE0000048,

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1 advice":
 2 "Our conclusions and advice are as follows: from the
 3 available evidence a change from using conventional
 4 commercial Factor VIII to using commercial heat
 5 treated Factor VIII appears to carry little risk but
 6 offers substantial advantages. It should be
 7 appreciated however that these advantages, though
 8 likely, are not proven and we cannot exclude the
 9 possibility that even heat-treated commercial
 10 Factor VIII concentrates do not transmit AIDS."
 11 **SIR BRIAN LANGSTAFF:** That should be "do" transmit AIDS,
 12 shouldn't it? "Can't exclude the possibility that
 13 they do transmit it".
 14 **MS RICHARDS:** That's probably right, yes, sir.
 15 **SIR BRIAN LANGSTAFF:** So the "not" is misplaced.
 16 **MS RICHARDS:** Then:
 17 "We believe on balance that the use of NHS
 18 Factor VIII should be discontinued until after
 19 April 1985 when material from this source will also
 20 undergo prior heat treatment."
 21 Then if we carry on:
 22 "We advise the continued use of cryoprecipitate.
 23 We cannot identify groups of haemophiliac patients who
 24 would be likely to benefit from heat-treated
 25 commercial Factor VIII or would be likely to be at

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1 this is a document internal to Newcastle District
 2 Health Authority, report of an *ad hoc* group to
 3 consider the use of heat-treated Factor VIII
 4 concentrate, so heat treatment is now potentially
 5 available.
 6 If we go to the second page under the heading
 7 "Acquired immunodeficiency syndrome", if we just go
 8 down please to the second paragraph:
 9 "90 individuals are believed to have died from
 10 AIDS in the UK including two heterosexual haemophiliac
 11 patients. Because of the known haematogenous
 12 transmission of AIDS, haemophiliacs are at clear and
 13 special risk of contracting the disease. 74 per cent
 14 of haemophiliacs in the USA, 53 per cent of West
 15 German haemophiliacs and 34 per cent of London
 16 haemophiliacs have antibodies to the putative AIDS
 17 virus. It is not known at present what proportion of
 18 haemophiliacs attending the Northern Regional Centre
 19 have antiviral antibodies but the information will be
 20 available soon. There is no reason to believe that
 21 the incidents will be less than that in London
 22 haemophiliacs and we know that one patient has
 23 contracted the disease in Newcastle."
 24 Then if we go to the last but one page, please,
 25 there's then under the heading "Conclusions and

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

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1 should or should not now be used.
 2 The references for that, sir, are -- Henry,
 3 there's no need to put it up but HCDO0000394_117.
 4 It's the note of the 10 December 1984 meeting and then
 5 the guidelines drawn up as a result of it which are
 6 dated 14 December 1984 is at HCDO0000270_007. So it's
 7 in December of 1984 that the Haemophilia Centre
 8 Directors finally take some form of decision and
 9 action and one key issue for you, sir, will be whether
 10 that was too late.

11 Two further references, sir, again without
 12 needing to go to the documents. In January 1985 two
 13 new groups were formed and began to meet: the
 14 Haemophilia Centre Directors set up its AIDS group and
 15 they met for the first time on 11 January 1985, and
 16 then 29 January 1985 was the first meeting of
 17 something called the Expert Advisory Group on AIDS,
 18 EAGA, which was an advisory group set up by the
 19 Department of Health and, again, one question for you,
 20 sir, will be whether those are steps that should have
 21 been taken at an earlier stage and, if so, when.

22 In January 1985 one of the pressing issues, and
 23 again this will be explored at a later stage, is the
 24 question of the introduction of a test to screen blood
 25 donations. We will just, I think, look at two

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1 have been donors. The confidence of patients will be
 2 lost if they cannot be assured that they will not
 3 contract AIDS infection from transfusions."

4 Then various facts and figures are set out in
 5 relation to the introduction of a screening test.

6 Then if we look at one further document from
 7 this month, DHSC0002482_012 this is I think a fairly
 8 well known document now. It's from -- it's dated
 9 22 January. It's authored by Kenneth Clarke, the then
 10 Minister of State for Health. It refers to the
 11 submission and says this:

12 "This looks inevitable I suppose. Could I have
 13 drafts please of the proposed public announcement.
 14 Could I have a draft of a letter to go to all chairmen
 15 of all RHAs explaining our proposals, how did Wellcome
 16 corner this market", et cetera, and then in the last
 17 paragraph this:

18 "Before we all panic further, it is presumably
 19 the case that the ending of the collection of blood
 20 from homosexuals greatly reduces the risk from blood
 21 collected in this country? Also, as only
 22 haemophiliacs have died and they may have had
 23 Factor VIII from American blood, is it the case that
 24 we have not had one AIDS fatality from blood donated
 25 in this country yet? Do we need this and heat

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

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

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

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

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

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

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

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1 treatment of the blood?"

2 Sir, there is then I think at MDIA0000039
 3 a document that you may find useful in relation to
 4 knowledge of risk. This is a letter in The Guardian
 5 from Professor Hardisty who was director of the
 6 haemophilia centre at GOSCH. He is responding to
 7 a letter from the mother of a 9-year old haemophiliac
 8 boy. He says this in the second paragraph:

9 "The facts are these. AIDS was first described
 10 early in 1981 and the first case in a haemophiliac was
 11 reported to the Center for Disease Control in the
 12 United States later that year. Medical intelligence
 13 travels fast and these facts were well known to this,
 14 as to all British haemophilia centres at that time.
 15 Although the occurrence in haemophiliacs provided
 16 strong evidence that the disease could be transmitted
 17 by blood products, however, it was not until 1984 that
 18 the causative virus was identified."

19 So, sir, I just draw attention to that for the
 20 statement from Professor Hardisty that medical
 21 intelligence travels fast and that these facts were
 22 well known to haemophilia centres.

23 **SIR BRIAN LANGSTAFF:** That time would be July 1982.

24 **MS RICHARDS:** Yes, it would. That is the date of the
 25 first report from CDC in relation to a haemophiliac.

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1 **SIR BRIAN LANGSTAFF:** He does say the first case was
2 reported later that year, '81, but he has got that
3 date wrong, has he?

4 **MS RICHARDS:** He has.
5 In the course of 1985, again there is
6 a significant amount of important material relating to
7 the speed or lack of speed in introducing or making
8 available tests and expressions of concern at delays
9 or limited availability of heat treated product and
10 centres still using non-heat treated products. Those
11 are all matters that will be explored over the coming
12 months, so I'm not going to go to those documents now.

13 I do just draw your attention, I'm not going to
14 ask to put it up on screen, but picking up upon the
15 issue of non-A, non-B hepatitis, research by Professor
16 Preston was discussed by the Haemophilia Centre
17 Directors' Hepatitis Working Party in February of 1985
18 and reported in -- I'm trying to find the
19 publication -- The Lancet in June of 1985 authored by
20 Professor Preston and Professor Hays and, obviously,
21 that's material that we will be exploring further with
22 appropriate witnesses.

23 Sir, I'm going to then pick matters up now in
24 1986 in relation to non-A, non-B hepatitis. If we
25 have up on screen PRSE0004555 we see if we -- thank

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1 "Dear Ian,
2 "Non-A, non-B hepatitis surrogate testing.
3 I have a feeling that as the drums are beating louder
4 and louder in other parts of the world on this topic
5 the Brits remain fast asleep. I may be wrong but
6 I would like to be better briefed on the matter."

7 He suggests planning a consensus meeting,
8 inviting a number of experts and transfusion service
9 directors to make some recommendations to the
10 Department of Health.

11 If we then, please, have -- I'm not sure whether
12 this is the right reference but we will try it.

13 Henry, BNOR000323.

14 This is in extract from Hansard,
15 20 November 1986. The question is asked of the
16 Secretary of State when the Department first became
17 aware that AIDS could be transmitted through blood and
18 blood products, and it's instructive to see the answer
19 of Mr Newton for the Secretary of State:

20 "We became aware in 1982 of reports from the USA
21 that haemophiliacs were contracting AIDS. Although
22 the mechanism of infection was not known, it was
23 presumed that it had been transmitted through the use
24 of blood products such as Factor VIII. Evidence that
25 the AIDS infection could also be transmitted by blood

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1 you -- we can see:

2 "Blood Bank Week American Association of Blood
3 Banks publication 21 February 1986", and this gives us
4 sufficient information for what we need:

5 "FDA advisory panel recommends surrogate testing
6 for non-A, non-B hepatitis."

7 We'll obviously again in due course be exploring
8 the UK consideration of whether or not to introduce
9 surrogate testing.

10 There's an editorial in August of 1986 in The
11 Lancet that it may be worth looking at, PRSE0001137
12 called "Safer Factor VIII and IX." We will just see
13 that it says in the opening paragraph:

14 "The risk of contracting non-A, non-B hepatitis
15 from Factor VIII and IX concentrates was first
16 recognised ten years ago."

17 Then reference again to large pools of plasma.
18 I can't, I'm afraid, find the reference at the moment
19 but there is a reference in here to it now being clear
20 that there's a substantial risk of chronic sequelae in
21 relation to non-A, non-B hepatitis.

22 Then if we look at PRSE0002109, still on the
23 topic of surrogate testing for non-A, non-B hepatitis,
24 this is Dr Cash to Dr Fraser of the Bristol Regional
25 Transfusion Centre, 28 August 1986:

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1 transfusion emerged from the USA in 1983."

2 Whether there was a tension between that and the
3 public statements of the Department and of ministers
4 in the course of 1983 will no doubt be a matter, sir,
5 that you consider further.

6 Then, returning to hepatitis, in November of
7 1986 there was a -- Transfusion Hepatitis Working
8 Party reconvened. I will give you, sir, the reference
9 but won't go to it. It's NHBT0000023_007. That's
10 24 November 1986.

11 There are various publications in 1987 which
12 look at the issue of surrogate testing and the
13 non-introduction in the United Kingdom of surrogate
14 testing.

15 Then we get to April 1988. If we could have,
16 please, PRSE0003126, we will see there:

17 "Hepatitis non-A, non-B virus discovered.

18 "Researchers at Chiron Corp announced Tuesday
19 they have isolated and cloned proteins from the virus
20 responsible for non-A, non-B hepatitis. If true, this
21 discovery is a major breakthrough for transfusion
22 medicine because 90 to 95 per cent of patients with
23 post-transfusion hepatitis are considered to be
24 infected with the non-A, non-B strain, and we're told
25 that a screening test (an ELISA test) to detect

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1 antibodies is being submitted for approval."
 2 December 1988, so December of that year --
 3 PRSE0002580 -- we see a publication in The Lancet:
 4 "Chronic liver disease and haemophilia."
 5 Sir, in what perhaps may be thought to be an
 6 understatement:
 7 "These are difficult times for haemophiliacs.
 8 Initial optimism in the early '70s that introduction
 9 of clotting factor concentrates might restore patients
 10 to good health with normal life expectancy has given
 11 way to an increasing appreciation of the hazards
 12 produced by the contaminants of these preparations."
 13 And reference there to HIV and then it says:
 14 "Less dramatic but no less prevalent has been
 15 infection with hepatitis viruses."
 16 Then it refers to non-A, non-B as the major
 17 problem.
 18 "Acute post-transfusion hepatitis and chronic
 19 increases in liver enzyme concentrations have long
 20 been associated with Factor VIII and Factor IX
 21 concentrate infusion, but those caring for
 22 haemophiliacs were slow to accept chronic progressive
 23 liver disease as an important complication."
 24 Then it goes on to consider the further
 25 discussion of that. If we look in the right-hand

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1 I have to answer: the question whether we should have
 2 introduced surrogate testing, which we never did; and
 3 secondly, whether there was a delay in testing for the
 4 virus itself once it had been cloned by Chiron and
 5 a test was available.
 6 **MS RICHARDS:** Precisely. Sir, I won't take time going to
 7 it but there's an important study in November 1989
 8 published in the New England Journal of Medicine by
 9 Alter and others. It's PRSE0002501 and it looks at
 10 what the benefits could have been of the introduction
 11 of surrogate testing.
 12 There is then in the course of 1990 and the
 13 dates and references, all given in the chronology that
 14 core participants have, a series of meetings of the
 15 advisory committee on the virological safety of blood
 16 which consider the introduction of screening. There's
 17 a deferral of decisions. We get to July 1990 and
 18 there's a recommendation of the meeting that the UK
 19 should introduce hepatitis C testing and then we have
 20 in October of 1991 an 11th meeting of that committee,
 21 the Advisory Committee on the Virological Safety of
 22 Blood considering recommendations in relation to HCV
 23 testing and the results of the first HCV test trials
 24 and the possibility of look-back study although no
 25 decision then taken.

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

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1 That brings us effectively to the autumn or
 2 close of 1991. I've galloped fairly quickly through
 3 those materials but they are all available and will
 4 all be considered in due course, sir, with relevant
 5 witnesses at suitable hearings.
 6 I wanted to finish, sir, this presentation with
 7 looking at a documentary in 1995. It's called Bad
 8 Blood. It's a Panorama documentary. It will take us
 9 probably to 1.05 or thereabouts but I think it will be
 10 instructive, not least because of what is said by Dame
 11 Sheila Sherlock and others in the course of the
 12 programme about the seriousness of non-A, non-B
 13 hepatitis, now known as hepatitis C.
 14 Henry, it's BBCO0000003.
 15 *(Documentary, Bad Blood, played)*
 16 **MS RICHARDS:** So that's what I propose to finish this
 17 presentation with. As I hope has been obvious from
 18 the presentation, it is intended very much as an
 19 introduction and not as a conclusion on any of the
 20 issues that have been raised.
 21 The knowledge of risk chronology that we've
 22 shared with Core Participants is a document that will
 23 no doubt develop and be added to as more and more
 24 evidence is heard, and so if Core Participants have
 25 any particular material they wish to draw to our

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1 attention we would invite them very much to do so.
 2 But, sir, that completes this and we'll turn after
 3 lunch to Professor Bloom and Cardiff.
 4 **SIR BRIAN LANGSTAFF:** Thank you very much. You have posed
 5 a number of questions for me to answer. There will
 6 undoubtedly be other questions which come from this
 7 material and whatever other material is joined to it,
 8 so that I have a full view of everything that there is
 9 to see by the time I come to write my report. Thank
 10 you very much.

Ladies and gentlemen, 2.10 if you please.

(1.12 pm)

(Luncheon adjournment)

(2.10 pm)

15 **SIR BRIAN LANGSTAFF:** Just so that you know, what we shall
 16 do, we shall aim to have the next break at 3 o'clock
 17 as usual or thereabouts but, because the numbers are
 18 smaller than they were yesterday, I think perhaps
 19 half-an-hour should be long enough for you to have
 20 refreshment. We can come back then, we won't lose any
 21 time off the hearing, but then finishing at or just
 22 after quarter past 4, so that if any of you have
 23 arrangements for travelling on tonight you know what
 24 time we are likely to finish -- sometime between 4.15
 25 and 4.30 but probably much nearer quarter past.

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1 doctor with ultimate responsibility for the treatment
 2 of patients with bleeding disorders at that centre.
 3 Secondly, his decisions and actions, in
 4 particular in his capacity as chair of the Haemophilia
 5 Centre Directors Organisation between 1979 and 1985 --
 6 critical years -- influenced the decisions and actions
 7 of other haemophilia clinicians.

8 Thirdly, his influence clearly extended beyond
 9 haemophilia care because he was involved in, belonged
 10 to or advised a number of other bodies, committees or
 11 groups. The documents suggest he therefore played
 12 a particularly influential role in shaping the
 13 response at a national level, or, in any event, in
 14 relation to England and Wales, to the arrival of AIDS.

15 To give a flavour of the groups of which he was
 16 a member or a participant, at some time at least, he
 17 joined, in 1976, an expert group on the treatment of
 18 haemophilia and allied conditions, which was a group
 19 advising the Department of Health and Social Security.
 20 He was a member of The Haemophilia Society's medical
 21 advisory panel from 1979 to 1992. We'll see in the
 22 materials that we look at, he also played a broader
 23 role in shaping and advising The Haemophilia Society's
 24 response to the AIDS crisis.

25 He was, as I've said, chair of the Haemophilia

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1 **MS RICHARDS:** Sir, the purpose of this next presentation
 2 is to look at Professor Bloom and the Cardiff
 3 Haemophilia Centre. I will start that this afternoon
 4 but I don't expect to finish. We will then pick this
 5 topic up next Wednesday, when the Inquiry sits again,
 6 complete the presentation on Professor Bloom, and
 7 start the presentation on the Oxford Haemophilia
 8 Centre.

9 If we don't have enough time to finish it, we
 10 will complete Oxford the following week, the next day
 11 when we don't have a live witness but have
 12 a presentation on St Thomas'. So there won't be any
 13 compressing of the material. It's just some of it is
 14 taking a little longer to map out than when we
 15 originally set the timetable.

16 **SIR BRIAN LANGSTAFF:** Well, there is a lot of it.

17 **MS RICHARDS:** There is, and even this is a selection
 18 rather than the entire material.

19 Professor Arthur Bloom was director of the
 20 Cardiff Haemophilia Centre from 1966 until 1992. He
 21 died in November 1992. He played a hugely significant
 22 part in the events which the Inquiry is investigating
 23 in three key respects. Firstly, and in many respects
 24 of course most importantly, he was consultant at and
 25 director of the Cardiff centre, and so he was the

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1 Centre Directors Organisation between 1979 and 1985.
 2 He was not a member of its hepatitis working party but
 3 he did join one key meeting in January 1983. He was
 4 on the Haemophilia Centre Directors Organisation's
 5 AIDS group from its inception, in January 1985, to
 6 1991. He was a member of the CBLA, the Central Blood
 7 Laboratories Authority, from 1982 to 1984 or '85, and
 8 it would seem he was on its research and development
 9 committee in blood transfusion, or played some part in
 10 that committee, between 1982 and 1985. He was part of
 11 the MRC working party on AIDS between August 1983 and
 12 1987 and he was a member of EAGA, the Expert Advisory
 13 Group on AIDS, advising the Department between
 14 January 1985 and 1987.

15 He was also on the Working Party on AIDS of the
 16 British Society for Haematology from October 1983, and
 17 between 1987 and 1988, it may be other years as well,
 18 he was president of the British Society for
 19 Haematology. He played a part on the AIDS Medical
 20 Advisory Committee to the World Haemophilia AIDS
 21 Centre, which seems to have been partly under the
 22 auspices of the World Federation of Haemophilia, at
 23 least in 1984 and 1985.

24 He was on the NBS, National Blood Transfusion
 25 Service, Advisory Committee Working Group on AIDS from

1 November 1984, and he played a role in the National
2 Blood Transfusion Service, or the NBTS Technical and
3 Scientific Working Group on Viral Contamination of
4 Blood Products, at least in 1988. There may have been
5 some overlap in this latter two groups.

6 So it can be seen that his influence was
7 extremely wide, and we will look at interactions that
8 he had with The Haemophilia Society, with the
9 Department, with the National Blood Transfusion
10 Service and others.

11 The presentation will fall into three parts.
12 I'm going to start by looking at what we've learnt
13 from or managed to pull together from documents dating
14 back to the 1970s, and I'll go through those in
15 a largely chronological order. They are drawn from
16 a written note that has been provided to core
17 participants. It's pretty long and detailed, it's
18 150 pages of material with multiple references, and
19 I am not going to cover all of it but it is available
20 to all core participants. So that will be the first
21 part of the presentation.

22 I'm then going to look at back at some of the
23 evidence heard from individuals about their
24 experiences of treatment by Professor Bloom or under
25 Professor Bloom's care at the Cardiff Haemophilia

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1 from core participants over the coming weeks and
2 months.

3 Sir, I am going to start, as indeed we do in the
4 written note, with a brief description of the
5 facilities and staff of the Cardiff Centre.

6 Henry, could we have, please, HCDO0000279_011,
7 I hope.

8 This is The Haemophilia Society's publication,
9 The Bulletin, from 1990.

10 Henry, if we could go to -- I think it's
11 page 10. We have an article there headed "The Cardiff
12 Haemophilia Centre". This is an article authored by
13 Professor Bloom in 1990, but it gives a little flavour
14 of what the facilities and staffing may have been like
15 in earlier years. So we see there it's said:

16 "The development of The Cardiff Haemophilia
17 Centre really dates from the invention of
18 cryoprecipitate in 1964. 11 patients were seen
19 in 1963 at the Cardiff Royal Infirmary, where
20 treatment was then undertaken under the direction of
21 the late Professor Harold Scarborough. At that time
22 the life expectancy of a person with severe
23 haemophilia was 23 years.

24 "We moved to the University Hospital of Wales in
25 1971 and the number of treatments rose to over 1,000

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Centre.

2 So that, sir, will be a reminder of just some of
3 the key parts of the evidence that we heard last year.
4 That's because the documents, the contemporaneous
5 documents, tell only a partial picture, and the
6 evidence of patients and their families helps complete
7 that picture.

8 Then thirdly, I will look at the litigation
9 report prepared by Professor Bloom in the course of
10 the HIV litigation. He was retained as an expert
11 witness and prepared a fairly lengthy report. Again,
12 it's disclosed and available to all core participants,
13 and it would take some days to go through it in its
14 entirety but I will deal with certain key issues set
15 out in that report and relate that back to what we
16 learn from the documents.

17 First of all, looking at the materials, I will
18 set out what we have learnt so far from those
19 documents. I say "learnt so far" deliberately
20 because, as with all presentations that we undertake
21 during the hearings, these aren't intended to be the
22 last word on the subject. They are really intended to
23 be the first word on the subject. No doubt more
24 material will be provided or will be gathered by
25 the Inquiry or received from witnesses or received

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1 in 1979. At first, day patient treatment was
2 undertaken from the haematology or children's wards,
3 but with the development of freeze-dried concentrates
4 and home treatment, this system became inadequate and
5 a room adjacent to the coagulation laboratories was
6 adapted as a treatment room.

7 "A haemophilia sister was appointed in 1977 to
8 supervise and co-ordinate treatment."

9 Then we're told later on that in 1987 the space
10 problem was partly solved by expansion of the clinical
11 facility to a suite of three rooms and a secure
12 laboratory.

13 On the next page we see a description of
14 a number of the staff. I won't go through the details
15 of it but we are told there are nursing staff.

16 At the point in time at which this article was
17 written, which was 1990, we're told that:

18 "At present there are about 50 patients on home
19 therapy and Professor Bloom says, 'Most are severely
20 affected or require frequent treatment during the
21 year. We like to start this therapy at an early age,
22 as soon as a child is co-operative, venipuncture
23 access is good, parents feel able to cope and home
24 circumstances are satisfactory'."

25 Then there's reference to social work and other

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1 staff, and I'll come back to that in a moment.
2 Then in terms of research, we're told that the
3 research group within the Cardiff Haemophilia Centre
4 has been in existence for over 20 years.

5 "During the 1970s, procedures were developed in
6 order to examine the clotting factors in tissues and
7 in blood, special assays were developed. Detailed
8 studies on the genetic defects started in 1982, and
9 a series of genetic defects within Factor VIII and IX
10 and von Willebrand factor genes have been detected and
11 studied in detail."

12 That's a brief outline of the physical
13 facilities.

14 In terms of staffing, we do have a handful of
15 statements, witness statements, that the Inquiry has
16 obtained from nursing or social work staff who worked
17 at the centre. I'll explain what we have. I'm not
18 going to go to any of them but, again, this is
19 material that's available to core participants and
20 indeed will be, no doubt, more widely available in due
21 course.

22 We have a statement from Jennifer Jones who was
23 a nursing sister 1972 to 1977 and then again from 1981
24 to 2003. We have a statement from Christine Loran who
25 was a nurse at the centre from 1992 to 1995 and then

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1 1976. These were the returns that were submitted to
2 the Oxford Haemophilia Centre and we'll hear a little
3 more about that process when we look at Oxford next
4 week.

5 Centre Cardiff, director Professor AL Bloom, and
6 so we see the number of haemophilic patients treated
7 during the year, 57; number with Factor VIII
8 antibodies, 6; number of Christmas disease patients
9 treated during the year, 15; number with antibodies,
10 zero.

11 Then if we go down the page we can get a sense
12 of the different treatments as at 1976. We see there
13 cryoprecipitate is the type of material used, the
14 number of Factor VIII units is 909,020 so it seems at
15 that stage to have been still the main treatment,
16 cryoprecipitate. We then see in terms of the volume
17 of NHS Factor VIII 23,750 and then we see smaller
18 amounts of proflilate, Factor VIII and Koate. In terms
19 of Hemofil we see a larger amount, 101,160 units, and
20 in terms of Kryobulin a larger amount of 319,775.

21 If we go on to the next page, please, we can see
22 there in terms of carriers of haemophilia we have one
23 carrier identified as being treated with
24 cryoprecipitate.

25 We can skip over the next page, Henry, and go on

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1 more recently when it was under the direction of
2 Professor Collins. We have a statement from a nurse
3 Kerry Thomas who worked on a central children's ward
4 but had some dealings with the treatment of children
5 with bleeding disorders between 1980 and 1982, and we
6 have a statement from Mary Dykes who was a social
7 worker who worked at the centre in the 1970s from 1974
8 to 1977 and in the period 1987 to 1992. Those are all
9 materials, as I say that core participants will be
10 able to consider.

11 We also have a statement from the current
12 director of the Cardiff Haemophilia Centre, Professor
13 Peter Collins who took over in 1996 and it may be that
14 the Inquiry hears oral evidence from Professor Collins
15 in due course. But obviously he can't give much of
16 a light on the years when the centre was under
17 Professor Bloom's direction.

18 We don't have a complete set, currently at
19 least, of the annual returns submitted by the centre
20 to give us data for every year of the number of
21 patients and the types of treatment but we do have two
22 snapshots that we can look at. We'll look first at
23 a set of returns from 1976. Henry, it's
24 HCDO0000072_006, please.

25 We can see from this it's the annual return for

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1 to the fourth page. Here we have the annual return in
2 relation to patients with von Willebrand's disease.
3 We're told that there's 12 patients treated during the
4 year and we can see there that the bulk of the
5 treatment as at 1976 was with cryoprecipitate with
6 a smaller amount of NHS Factor VIII concentrate.

7 I think that's all we have from 1976.

8 We can then move forward a decade to 1986. This
9 is HCDO0000349_002, please, Henry. So here we have
10 the annual returns for 1986 of materials used to treat
11 haemophilia A patients, carriers of haemophilia A and
12 von Willebrand's disease patients. I'm not quite sure
13 what has happened there in relation to haemophilia B
14 patients, but anyway we see the centre is centre
15 number 150, but it is Cardiff; director,
16 Professor Bloom; total number of haemophilia A
17 patients treated in 1986, 71; total number carriers of
18 haemophilia A treated in 1986, 3; total number of von
19 Willebrand's disease patients treated in 1986, 15.

20 Then if we look at the types of material used,
21 we can see, and I won't go through all of the figures,
22 but much, much smaller amounts of cryoprecipitate now
23 in use, except for von Willebrand's disease patients.
24 NHS Factor VIII is used both for hospital and home
25 treatment in the figures we see there set out, but

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1 then the treatment which appears to be most used in
2 hospital and to a roughly equivalent level for home
3 treatment is the alpha Factor VIII profilate.

4 If we go to the third page -- sorry, the fourth
5 page please, Henry, we also have figures here for
6 materials used to treat patients with haemophilia B.
7 Total number of haemophilia B patients treated in 1986
8 21. Then if we look at the material used, we can see
9 it's predominantly NHS Factor IX concentrate both for
10 hospital and home treatment, but also some usage of
11 alpha commercial Factor IX and a very limited amount
12 of usage of fresh frozen plasma.

13 That's a snapshot both in terms of numbers and
14 in terms of the materials used. We need to then piece
15 together from other documents how the treatment
16 practices and the materials used changed over the
17 years.

18 You'll see that in terms of the number of
19 patients, in some respects it's a relatively small
20 centre for the reference centres. There are centres
21 with much larger numbers of patients but
22 Professor Bloom's influence nonetheless, as I have
23 already outlined, really was very extensive indeed in
24 the world of haemophilia care.

25 I'm going to look now at some of the materials

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1 what we would now call hepatitis B.

2 Then we can see the top of the next page is
3 a record that each director, each centre, so including
4 Cardiff, are agreeing they will maintain and send to
5 Oxford each year: detailed records of material given
6 to patients who developed jaundice, the full list of
7 names of patients treated so their names are being
8 shared with Oxford and the total amount of material
9 used in a year in terms of the number of donor units.

10 Then we can see under the heading "Hepatitis and
11 Australia antigen", there's a discussion about the
12 incidence of Australia antigen and antibody in the
13 haemophilic population and the precautions which
14 should be taken to prevent the spread of infection in
15 the wards and among laboratory staff. It's recorded
16 that donor blood will in due course be screened for
17 that.

18 Then if we go on please, Henry, to it should be
19 page 7. There is then a brief discussion about the
20 availability of Factor VIII concentrates, bottom half
21 of the page. We'll see this again as a theme in
22 haemophilia centre directors' meetings:

23 "There was discussion about the presentation of
24 cryoprecipitate to single donor packs. This
25 presentation was not convenient, in general it was

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1 we have, first of all, from the first half of the
2 1970s; so from the period 1970 to 1975. Henry, could
3 we have please on screen DHSC0100019_042. This is
4 a letter, we don't see who it's from but we know from
5 a subsequent letter it's from Dr Maycock to Dr Biggs
6 at the Oxford Haemophilia Centre, but it's providing
7 information about cases of serum hepatitis as at
8 22 April 1970 and we can see there it gives details of
9 five individuals treated in the late 1960s who
10 developed serum hepatitis at Cardiff.

11 If we then, please, Henry, have HCDO0001014,
12 please. This is now April 1971 and these are the
13 minutes of a meeting of Haemophilia Centre Directors
14 and we can see from the list of attendees that
15 Professor Bloom was there.

16 If we go to the second page, please, we can see
17 that the issue of incidence of jaundice was, and we
18 see this from pretty much every meeting of Haemophilia
19 Centre Directors over the years, a topic of discussion
20 at the directors' regular meetings. So under agenda
21 item 3 were told Dr Biggs gave a summary of the report
22 on the incidence of jaundice and then we see the
23 action is, amongst other things, to ask directors to
24 give figures about Australia antigen and antibody
25 testing to send her these results. So that would be

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1 felt that some steps ought to be made to provide the
2 cryoprecipitate in a pooled form. It was agreed that
3 although the supply had improved in the last two
4 years, there was still a shortage of material."

5 So identification there, as a general
6 observation, shortage of cryoprecipitate.

7 Then if we go on to page 11 we see under the
8 heading prophylactic therapy and home treatment
9 there's a discussion and we can't tell from this any
10 particular contribution of Professor Bloom but we're
11 told the directors described their experience in
12 prophylaxis home treatment and self-administration of
13 factors VIII and IX by patients:

14 "It was generally felt that the regular
15 administration of Factor VIII to severely affected
16 Christmas disease patients was beneficial."

17 So it appears to be a favourable view of
18 prophylactic therapy in relation to Factor IX. Then
19 it says:

20 "For the classic haemophilic Factor VIII
21 deficient patient such treatment was more difficult.
22 More frequent treatment could be necessary. The
23 supply of material was not adequate. A number of
24 centres were treating a limited number of patients in
25 this way. It was felt that a controlled trial might

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1 be helpful. If agreed, the trial could be of regular
 2 weekly treatment for six months and on demand
 3 treatment for six months."
 4 So an early discussion there in 1971 of
 5 prophylactic therapy. We'll see as we go through the
 6 documents the extent to which we have been able to
 7 discern the usage or home therapy and prophylactic
 8 therapy at Cardiff.
 9 If we then please, Henry, have DHSC0100026_118.
 10 This is a letter which looks at the supply of
 11 cryoprecipitate. We're in June 1971. It's a letter
 12 from the director of the Welsh Regional Transfusion
 13 Centre to Dr Maycock at the Lister Institute and it
 14 refers to the ever-increasing demands for
 15 cryoprecipitate for haemophilia treatment at the CRI,
 16 so Cardiff Royal infirmary, where all haemophiliacs in
 17 the region are treated:
 18 "I was obliged to point out that we were
 19 producing proportionately more cryoprecipitate than
 20 most other regions and asked why the haemophiliacs
 21 should need so much more cryoprecipitate here than in
 22 other regions. I think my note has had some good
 23 effect at any rate making the CRI unit realise they
 24 are getting their fair share. I have had to write to
 25 tell Professor Jacobs and Dr Bloom that if they want

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1 the last six months received treatment with Factor IX
 2 concentrate for various bleeds. The concentrate is
 3 prepared at Oxford. I understand that one of the
 4 donors of blood from which the concentrate is prepared
 5 has since developed jaundice, which could be due to
 6 infective hepatitis. Your patient is therefore at
 7 risk from developing hepatitis. But in view of the
 8 fact that he has received so much treatment in the
 9 past and has probably been previously exposed I think
 10 the risk is a small one."
 11 We'll then move on please, Henry, to HCDO0001015
 12 this is picking matters up now at the Haemophilia
 13 Centre Directors' meeting in October of 1972,
 14 27 October, it was attended by Dr Bloom. We can see
 15 that in the fourth line. If we go please, Henry, to
 16 page 9 we can see also there is an earlier discussion
 17 about home treatment. Here we pick up the issue about
 18 halfway down the page of supplies of therapeutic
 19 material, and if we look at the last three lines, this
 20 is Dr Biggs' probably speaking at this point but it's
 21 not clear from the minutes:
 22 "The desirability of increasing home treatment
 23 and the availability of good commercial material make
 24 the question of increased British supply very urgent."
 25 If we go over the page:

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1 even more cryoprecipitate it can only be done if they
 2 send a technician to assist in cryoprocessing done one
 3 or two evenings a week. We can easily get the donors
 4 but handling the blood here is too much for our small
 5 staff."
 6 Then there's a suggestion in the next paragraph
 7 that Dr Maycock should perhaps put this issue down for
 8 discussion at the next directors' meeting and
 9 Dr Drummond says the object of the analysis is to show
 10 the wide variation in practice by the clinicians.
 11 Then we see bottom of the page the issue virus
 12 hepatitis flagged up and an issue of Australia antigen
 13 testing of blood donors. Picking it up on the last
 14 word of the page and then to the next:
 15 "Clinicians are increasingly demanding blood
 16 tested for Australia antigen", and there is concern
 17 expressed about the ability of the Cardiff transfusion
 18 centre to cope with that demand.
 19 If we move then, please, to WITN2554013. This
 20 is a document from a patient record. We saw it during
 21 the witness' evidence last year. It's from
 22 January 1972 and it's again just to see the extent to
 23 which the issue of developing hepatitis featured in
 24 the early 1970s:
 25 "This patient with Christmas disease has during

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1 "The cost of preparing concentrate was
 2 discussed. It was emphasised that material made by
 3 the NHS was unlikely to be more expensive than the
 4 present commercial material."
 5 There's then a discussion about units initiated
 6 by Dr Maycock. Then it says this:
 7 "Two main topics were discussed. One concerned
 8 the purchase of commercially available Factor VIII
 9 preparations and the other was the more long-term
 10 problem of increasing the supply of a good quality
 11 soluble British product. Many directors were pressing
 12 for permission to purchase the good commercial
 13 products manufactured overseas."
 14 Again, we can't discern from the minutes whether
 15 those many directors specifically included Dr Bloom,
 16 but we can see that the general mood, as at the autumn
 17 of 1972, is Haemophilia Centre Directors asking
 18 effectively to be able to use commercial material and
 19 identifying an insufficient amount of NHS concentrate.
 20 If we then please, Henry, have CBLA0000098.
 21 Here we are at November 1972 and get a sense from
 22 Professor Bloom of the treatments being used at that
 23 time. It's his letter to Dr Maycock and he says this,
 24 picking it up in the second line:
 25 "You may have noticed we have not used much

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1 freeze dried concentrate of AHF recently. This is not
 2 because we were ever unhappy with it but is mainly
 3 because the supply of cryoprecipitate produced locally
 4 is quite good."
 5 Then skipping down a few lines he says:
 6 "I note that you are changing over to
 7 a high-potency preparation. I would imagine this
 8 would be easier to give by simple injection. For this
 9 reason on completing the form I have now assumed we
 10 would optimally like to use freeze-dried concentrate,
 11 if available."
 12 So the suggestion there appears to be the
 13 predominant usage at that time cryoprecipitate and
 14 that's no doubt reflected in the 1976 return we looked
 15 at, but a preference to start being able to use
 16 freeze-dried concentrate. That obviously in relation
 17 to the letter to Dr Maycock would be Elstree produce.
 18 It is perhaps instructive just look at
 19 Dr Maycock's brief reply which is at CBLA0006294 where
 20 he says this to Dr Bloom:
 21 "I hope that one day there really will be
 22 sufficient material to treat all the haemophiliacs in
 23 an ideal manner but I doubt whether that will be in my
 24 time."
 25 Henry, could we then have, please, HCDO0001016.
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1 freely available. It was clear that none of those
 2 present would prefer cryoprecipitate."
 3 So we can infer that by January 1974 Dr Bloom's
 4 stated preference is to be able to use concentrates in
 5 place of cryoprecipitate.
 6 Elsewhere in the document there is emphasis on
 7 the need for the UK to become self-sufficient in
 8 products and if we go then on to page 8, there's then
 9 a discussion about home therapy. We don't know
 10 whether one of the directors involved here is Dr Bloom
 11 or not. It said:
 12 "Several directors said they did not treat all
 13 the patients at their centres since this was too
 14 inconvenient for the patient and too difficult. On
 15 the other hand, they were aware that the materials
 16 might not be used properly. This raised the question
 17 of home therapy. It was stressed that home therapy
 18 was becoming more accepted widespread and was
 19 improving the quality of the patients' lives.
 20 Cryoprecipitate was not ideal for home therapy from
 21 many point of views. Some directors were buying
 22 commercial AHG for use in home therapy."
 23 As we've seen from the 1976 annual return,
 24 certainly Cardiff, although still using a very
 25 significant quantity of cryoprecipitate, was buying
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1 We've moved forward now to January 1974 and again we
 2 see what we can pick up from the minutes of the --
 3 this is a joint meeting of directors of haemophilia
 4 centres and blood transfusion directors,
 5 31 January 1974. We see Dr Bloom was in attendance
 6 and we can see he is a faithful attendee of pretty
 7 much all of these meetings.
 8 If we go to page 5 please, Henry, picking it up
 9 in the last paragraph, again this is in a discussion
 10 about supply and self-sufficiency:
 11 "What kind of material was best for treatment?
 12 There was a wide ranging discussion about the relative
 13 merits of cryoprecipitate and freeze-dried
 14 concentrates with regard to ease of manufacture,
 15 recovery from the original plasma, ease of
 16 administration, and recovery of activity in patients.
 17 It was generally felt that larger supplies of
 18 concentrated preparations were required now and
 19 urgently and some felt that it was rather meaningless
 20 to ask doctors if they would prefer freeze-dried
 21 concentrate to cryoprecipitate when no freeze-dried
 22 concentrates were available to them. When the
 23 discussion was completed, the meeting was asked to
 24 indicate whether anyone would in fact prefer to have
 25 cryoprecipitate if freeze-dried concentrate were
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1 some commercial concentrates.
 2 Could we then please have WITN0047002. If we go
 3 to the next page this is an extract from a patient
 4 record from February 1975 and it gives us some idea of
 5 how Dr Bloom's approach to treatment is developing.
 6 He says:
 7 "This patient who suffers from haemophilia has
 8 been selected for home treatment", and there is
 9 a description of the instruction that's been given to
 10 the patient's wife in that regard.
 11 Then in the next paragraph it's said that the
 12 risks from the use of this preparation, especially
 13 allergic reactions and hepatitis, have been explained.
 14 Then if we skip over the description of allergic
 15 reactions it said this:
 16 "A small percentage of these freeze-dried
 17 preparations contain, unavoidably, the virus of serum
 18 hepatitis and therefore potentially dangerous to the
 19 patient, his relatives, et cetera."
 20 Whether by serum hepatitis in 1975 Dr Bloom had
 21 in mind hepatitis B, non-A, non-B hepatitis which had
 22 begun to be recognised, or was using the term to cover
 23 both we don't know.
 24 **SIR BRIAN LANGSTAFF:** The term then, certainly when used
 25 before the 1970s it covered both, didn't it?
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1 **MS RICHARDS:** We now know it covered both, but some --
 2 some clinicians we see, from some doctors, seem to use
 3 it more to describe hepatitis B. We've no way of
 4 knowing what Dr Bloom necessarily had in mind, save
 5 it's clear from this he regarded it as an unavoidable
 6 fact that serum hepatitis would be found in
 7 concentrate and he regarded it as potentially
 8 dangerous not just to the patients but to the
 9 patients' relatives.
 10 Then if we could have, please, HCDO0001019,
 11 please.
 12 This is Haemophilia Centre Directors' meeting
 13 September 1975. Again, we can see that Dr Bloom was
 14 present.
 15 If we look at the discussion on "Progress
 16 towards self-sufficiency" -- sorry, I haven't noted
 17 down the page number. If we just scroll down I'll
 18 hopefully find it. Next page. Next page.
 19 Sorry, just pausing there, we'll see there,
 20 again, as we see, it's essentially at all these
 21 meetings discussion of the incidence of jaundice in
 22 haemophiliac patients.
 23 If we go to the next page please, Henry. Next
 24 page.
 25 There's a hepatitis survey being established

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

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1 there.
 2 The next page, please. Next page. No. If we
 3 carry on -- I'm sorry, Henry.
 4 There's reference there to a proposed pilot
 5 study of hepatitis in haemophiliac patients.
 6 Then if we go on to the next page, there is
 7 somewhere reference to a discussion about
 8 self-sufficiency which I will find, I hope. If we
 9 carry on -- if not, I will come back to it on
 10 Wednesday.
 11 Ah, page 12. Thank you. That's what happens
 12 when you don't print off the page.
 13 So if we pick it up towards the bottom of the
 14 page, thank you, "Supply of Factors VIII and IX":
 15 "Dr Maycock said an expert group had met at the
 16 DHSS on 20 March 1973."
 17 That's the group that we considered briefly with
 18 Lord Owen during his evidence on Tuesday, and we'll
 19 look at again when we look at the Oxford Haemophilia
 20 Centre.
 21 If we go to the next page, please, if we scroll
 22 down there should be a reference to Dr Waiter from the
 23 DHSS.
 24 Yes, so pick it up here.
 25 Various directors having set out their views on

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1 being done or what significance was being attached to
 2 it at that stage by Professor Bloom.
 3 In 1976, Professor Bloom was invited to join the
 4 reconvened Expert Group on Haemophilia. He didn't in
 5 fact attend the 1976 meeting so I'll look at that
 6 document next week when we look at Oxford Haemophilia
 7 Centre, because both Dr Biggs and Dr Rizza did.
 8 If we then go, please, to CBLA0000473.
 9 This is what's described as an exploratory
 10 meeting of blood transfusion directors and Haemophilia
 11 Reference Centre directors in October of 1976. We can
 12 see from the agenda that the issue of self-sufficiency
 13 is high on the agenda.
 14 If we go to the second page, please, Henry, we
 15 can see from the list of attendees that Dr Bloom is
 16 there. We're told in paragraph 3 it's supposed to be
 17 an informal meeting. Only Haemophilia Reference
 18 Centre Directors and the Blood Transfusion Directors
 19 related to the Reference Centres, along with
 20 fractionation experts, have been invited.
 21 Representatives from the DHSS, Welsh office,
 22 Northern Ireland Health Authority and Scottish Home
 23 and Health Department have not been invited at this
 24 stage.
 25 Then we can see under the heading, "Reason for

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

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

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1 "There are five commercial companies licensed
 2 and supplying very satisfactory Factor VIII in the UK.
 3 It will be surprising if doctors and patients do not
 4 come to prefer these very convenient preparations as
 5 compared with cryoprecipitate."
 6 Then over the page we see a discussion and some
 7 interventions from Professor Bloom. So, about
 8 three-quarters of the way down, Professor Bloom is
 9 recorded as saying:
 10 "We use cryoprecipitate for ordinary bleeds, eg
 11 into joints, but we need the treatment of inhibitors
 12 and home treatment freeze-dried material."
 13 So concentrates for home treatment.
 14 Top of the next page he's recorded as saying
 15 that NHS material compared very well with commercial
 16 products.
 17 Then if we look towards the bottom of that page,
 18 the question is asked what's the target for how much
 19 freeze-dried and how much cryoprecipitate and
 20 Professor Bloom's answer is 100 per cent freeze-dried.
 21 So that presumably his target or aim as at 1976 to
 22 move to entire usage of concentrates in place of
 23 cryoprecipitate.
 24 If we then just look in 1977 at documents which
 25 explore again the issue of jaundice, HCDO000072_005,

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1 themselves about these matters.
 2 Then one final document before we break at -- no
 3 just a short series of documents I think very quickly.
 4 We see some interactions between Professor Bloom and
 5 pharmaceutical companies in the late '70s. We can
 6 just get a flavour of them from a couple of documents.
 7 IPSN0000334_018, please. This particular
 8 interaction, and it's just an example, there are
 9 various documents that we refer to in more detail in
 10 the note. This is August 1978 and it's the director
 11 of Speywood communicating with Professor Bloom:
 12 "Thank you for sparing me some of your time last
 13 week. I found our discussion most interesting. We
 14 will keep you in touch with progress on the animal
 15 product."
 16 He then offers to let Professor Bloom have
 17 a small amount of polyelectrolyte to help with
 18 research that is being undertaken at Cardiff into the
 19 biochemistry of human Factor VIII. There's then
 20 reference to an offer to send some of the animal
 21 product to Professor Bloom for laboratory testing
 22 against blood from inhibitor patients. Just pausing
 23 there again, we've not currently been able to
 24 construct from the documentation the extent to which
 25 patients themselves were aware of any of these matters

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1 in terms of, for example, laboratory testing against
 2 their blood.
 3 Then the last main paragraph, turning to Koate,
 4 so one of the commercial concentrates here we
 5 certainly would like to be restored as a partial
 6 supplier of your needs and the price is there set out
 7 and guaranteed delivery within 24 hours.
 8 Then just before we break, if we go to
 9 IPSN0000334_019, we have an internal note from the
 10 same gentleman of his meeting with Professor Bloom and
 11 again it gives us a flavour of the kind of discussions
 12 that took place and some of Professor Bloom's
 13 preferences for treatment. So this is a meeting with
 14 Professor Bloom August 24, 1978:
 15 "There are 250 haemophiliacs attached to this
 16 centre of which 100 are regular attendees and 13
 17 inhibitors. Until recently human Factor VIII
 18 purchases have been split three ways, Hemofil,
 19 Factor VIII and Elstree."
 20 So two commercial products and one NHS product.
 21 "They have now stopped using Armour following
 22 the hepatitis problem."
 23 Then it said:
 24 "Bloom used to favour Immuno but as this is now
 25 16p he never buys."

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1 least to be Professor Bloom's approach to the use of
 2 commercial concentrates, and we see there obviously
 3 what appears to be a particular concern about their
 4 cost.
 5 That, I think, takes us to just after 3 o'clock
 6 and time to break.
 7 **SIR BRIAN LANGSTAFF:** Time then to break until 3.30.
 8 **(3.03 pm)**
 9 **(A short break)**
 10 **(A short break)**
 11 **(3.27 pm)**
 12 **MS RICHARDS:** Sir, there are two further documents from
 13 1978 which provide another small piece of the jigsaw
 14 that we're trying to assemble.
 15 Henry, could we have HCDO0000400, please.
 16 This is a meeting of the Reference Centre
 17 Directors on 27 January 1978, and again we see
 18 Professor Bloom in attendance.
 19 We can see from the second page, seven or five
 20 lines down, he is proposed as chairman to succeed
 21 Professor Blackburn and he'll take up that post in the
 22 autumn of 1979.
 23 Then if we go to page 7 please, Henry, under the
 24 heading "Price of commercial Factor VIII
 25

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1 Then if we skip down a paragraph:
 2 "I offered Koate at 10p for 50,000 units lots
 3 and am reasonably confident we'll get some of the
 4 business. Bloom always likes to keep two suppliers
 5 but is reluctant to make frequent changes. Bloom is
 6 obviously not an animal lover, although he is
 7 interested in our work. He is prepared to look at the
 8 new material when available", and then there's
 9 a suggestion of providing him with clinical evidence
 10 as soon as possible.
 11 "Bloom would like some PE to help with a new
 12 research project of his looking at the biochemistry of
 13 human Factor VIII. He has a research worker starting
 14 in January '79 to work full time on this subject."
 15 Then over the page, it said:
 16 "PPF was at one time rationed in his area but
 17 it's now issued on a first come first served basis.
 18 There is never enough available partly because the
 19 Health Service does not produce sufficient, partly
 20 because of the high price. Bloom felt there was
 21 a place for commercial material, if it could be
 22 produced more cheaply. We should obviously
 23 investigate."
 24 So we get there, from that source, some idea of
 25 what was understood by pharmaceutical companies at

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1 concentrates", Professor Bloom says this -- or the
 2 minutes say this:
 3 "Professor Bloom expressed concern regarding the
 4 number of companies now marketing Factor VIII. The
 5 different prices, along with fluctuating prices, made
 6 it difficult for doctors to establish their patients
 7 on any one preparation of Factor VIII for any length
 8 of time. Several directors expressed similar
 9 worries."
 10 There's an agreement that Professor Ingram will
 11 write to the DHSS asking for advice.
 12 Sir, just pausing there, you will see the
 13 concern that's expressed about the numbers of
 14 companies is one that's related to price and
 15 consequences of price, not an issue raised in relation
 16 to safety as a basis for concern.
 17 Secondly, it doesn't necessarily follow from the
 18 fact of different or fluctuating prices that doctors
 19 can't establish their patients on any one preparation
 20 of Factor VIII for any length of time, because the
 21 concentrate is obviously there. It may be that's
 22 a reflection of what we pick up from the Speywood
 23 document, is Professor Bloom's desire to purchase the
 24 cheapest of commercial products, and that's the reason
 25 why his patients are switching from one concentrate to

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1 another type of material, even though it's not
 2 regarded as being the most appropriate clinical
 3 course. That's just one inference that it might be
 4 open to you to draw from the material, sir.
 5 Then if we go on, please, to -- different
 6 document, Henry -- HSOC0010549.
 7 This is a meeting of the Haemophilia Centre
 8 Directors, so the reference centres meeting is the
 9 small number of leading clinicians and then we have
 10 the larger number of directors attending these bigger
 11 meetings, including again Professor Bloom.
 12 If we go to page 13, please, Henry -- actually,
 13 we can pick it up at page 12.
 14 So, under the heading, second half of the page,
 15 "Supplies of Factor VIII concentrate to the DHSS
 16 contract and the price of commercial Factor VIII", we
 17 see a question being posed to the Department of Health
 18 representative, Dr Collins, about the Department's
 19 policy regarding the supply situation, and it's said
 20 that the DHSS's original target had been reached and
 21 exceeded by 1978. They wonder now whether there was
 22 a revised target. It's said Scotland can't produce
 23 any more because of continuing problems over shift
 24 work. Department's target figures included
 25 cryoprecipitate which was used throughout the UK.

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1 to page 3, you can see, under the heading "Progress
 2 report on the 1979 annual returns from haemophilia
 3 centres", it's just a comment halfway down -- this is
 4 not specifically related to Professor Bloom but, sir,
 5 may pick up on a point you were asking about earlier.
 6 It says:
 7 "It was pointed out that there was now great
 8 difficulty in calculating the donor exposure in view
 9 of the many different brands of commercial products
 10 now used and the lack of information as to the pool
 11 size."
 12 Then discussion of estimates.
 13 Then if we go over the page, to page 4, we see
 14 Professor Bloom's contribution about eight lines down:
 15 "Professor Bloom said the increased use of
 16 prophylactic therapy would also increase the overall
 17 cost of treating haemophiliac patients."
 18 It's unclear whether he is talking there about
 19 an increased use of prophylactic therapy at Cardiff or
 20 whether it's a more general, national observation.
 21 Sir, just for your note that on the next page,
 22 under the heading "Hepatitis Working Party", there's
 23 then a discussion about pool sizes again and the
 24 relative pool sizes used for Elstree and Oxford
 25 materials.

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1 Then there's this observation from
 2 Professor Bloom:
 3 "He said he had a feeling that there was
 4 complacency in the Department about the target
 5 situation. He appreciated that the DHSS had to have
 6 a target and wondered if the target should not now be
 7 set at 100 million units."
 8 It's then said that that had been thought about
 9 by the Department of Health. Then, towards the bottom
 10 of the page, Professor Bloom flags up the question of
 11 funding of BPL. He asks if the Blood Products
 12 Laboratory was sufficiently well funded:
 13 "If not, could the directors help with this
 14 matter in any way?"
 15 It is not clear what kind of help he had in mind
 16 in making that suggestion, but the comment is going to
 17 be conveyed to Dr Lane.
 18 We move then to 1979. Again, there were
 19 a number of directors' meetings where -- and I won't
 20 go to them, but the same issues of self-sufficiency,
 21 supply, use of commercial concentrates and discussion
 22 of hepatitis and jaundice are recurrent themes.
 23 We'll pick matters up on 22 September 1980.
 24 It's at HCDO0000406, please, Henry.
 25 Professor Bloom is now in the chair. If we go

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1 Then if we go toward the bottom of that page, so
 2 this should be page 5, about seven or eight lines up
 3 from the bottom it's recorded:
 4 "Dr Craske said there had been a poor response
 5 from directors to the request for information about
 6 patients thought to have developed chronic hepatitis."
 7 So, again, we see the issue of chronic hepatitis
 8 being very much on the agenda for Haemophilia Centre
 9 Directors.
 10 Then if we go to page 11, please, Henry, about
 11 halfway down the page -- carry on a little bit further
 12 down so we can see the whole passage -- thank you.
 13 "Dr Savidge -- so that's Dr Savidge, St Thomas's
 14 Hospital -- asked what the policy was of the
 15 Haemophilia Reference Centre Directors regarding the
 16 use of cryoprecipitate for the treatment of
 17 haemophiliac patients and for home therapy, and
 18 Professor Bloom said that it was a matter for the
 19 individual directors to decide. He referred to the
 20 minutes of the fifth meeting of Haemophilia Reference
 21 Centre Directors, January 1978 [which we've looked
 22 at], when the matter of cryoprecipitate versus
 23 Factor VIII concentrates for home therapy had been
 24 discussed at considerable length and the Reference
 25 Centre Directors had agreed that Factor VIII

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1 concentrates were preferred for home therapy."
 2 So something of a tension, potentially, there.
 3 He's saying it's a matter for the individual director
 4 rather than for the UKHCDO or for Professor Bloom to
 5 give any guidance. Then there's a reminder: well,
 6 there's been an extensive discussion and you should be
 7 using concentrates rather than cryoprecipitate.

8 Now, also in September of 1980 we have some
 9 extracts from an international symposium that was held
 10 in Glasgow which a number of directors and others
 11 attended. I think by this time next week I'll have
 12 a full copy of the document but I've just got the
 13 extracts very kindly provided by a core participant.

14 If we could go to JEVA0000001 please, Henry.

15 So what we have are some extracts from this
 16 symposium which set out some of Professor Bloom's
 17 interventions and we can see as at September 1980
 18 a key topic is the impact of hepatitis on haemophiliac
 19 patients' livers. So Professor Bloom asks the
 20 question:

21 "Could the appropriate members of the panel
 22 advise the Haemophilia Centre Directors and the
 23 clinicians who are present on what is the current
 24 state regarding the possible treatment of these
 25 various types of hepatitis? Should we be doing liver

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1 opening remarks by Professor Bloom and I'll just pick
 2 it up in the last paragraph on this page. Having
 3 talked about cryoprecipitate and concentrates he says:

4 "Successful though this treatment has been, many
 5 problems remain to be solved, notably the high
 6 incidence of abnormal liver function tests and various
 7 forms of hepatitis discussed in detail elsewhere in
 8 this symposium ..."

9 Then if we go on please, Henry, to -- it should
 10 be the second page of this, I think. Do you have
 11 a second page? Last paragraph, we then see
 12 a reference again by Professor Bloom to the issue
 13 about self-sufficiency. Four lines down that
 14 paragraph he says this:

15 "The usage of Factor VIII concentrates in the UK
 16 has been assessed accurately because of the
 17 organisation of Haemophilia Centre Directors and the
 18 returns effectively collated at the Oxford Centre.
 19 The current usage of 50 million units was forecast in
 20 1975. The most recent data indicate that the annual
 21 requirement will rise to 85 million units by 1985 due,
 22 perhaps, to developments such as home treatment and
 23 limited prophylaxis."

24 Then he says this and again this perhaps gives
 25 us an insight into his own treatment practices:

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1 biopsies in practice on our haemophiliacs and, if we
 2 do, can we correlate possible treatment to the liver
 3 biopsy appearances?"

4 Then there's a response from Dr Thomas. I don't
 5 need to take you to the detail of that. This is just
 6 really looking at the kind of questions that were in
 7 Professor Bloom's mind.

8 So if we go to JEVA0000002 we can see that later
 9 in the discussion Professor Bloom comes back to the
 10 same topic:

11 "To come back to my earlier question, what
 12 should the people who are not associated with
 13 a specialised liver unit be doing when they are faced
 14 with a young man who has persistently abnormal liver
 15 function tests, a spleen tip palpable, and an enlarged
 16 liver? Should we be doing a liver biopsy? Is there
 17 any value in it? Or is there any possible treatment
 18 available?"

19 It's not I think unreasonable to infer that this
 20 is an issue that Professor Bloom may have been
 21 presented with in clinical practice for it to be
 22 a topic of particular interest to him.

23 If we could then please, Henry, have
 24 JEVA0000003. A later part of the symposium is opened,
 25 the same event but a later part of the day, there are

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1 "It is the experience of most haematologists
 2 that crude cryoprecipitate is not a suitable material
 3 for home treatment ..."

4 He then goes on to talk about the likely
 5 shortfall in Health Service-produced concentrate.

6 Then if we go please, Henry, to PRSE0003946,
 7 please. We're now in a haemophilia centre directors'
 8 meeting on 30 September 1980, so not long after the
 9 Reference Centre Directors' meeting had met the bigger
 10 meeting takes place chaired by Professor Bloom. If we
 11 go, please, to page 5 we can see towards the bottom of
 12 the page, last ten or so lines:

13 "Professor Bloom said that all the directors
 14 were aware of the very severe shortfall in national
 15 health concentrate, which was a worrying situation.
 16 One of the directors commented that he was not sure
 17 that the idea of a commercial firm taking over the
 18 manufacture of Factor VIII would be a good idea
 19 because the situation might change with a change in
 20 Government."

21 This is presumably a response to the proposed or
 22 potential takeover by Beecham of BPL.

23 He thought it would be better to recommend the
 24 Department of Health look urgently into increasing the
 25 production of Factor VIII concentrate in NHS

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1 laboratories."
 2 Then over the page, page 6, about six lines
 3 down:
 4 "Professor Bloom proposed that the meeting
 5 should press the Department of Health to provide more
 6 Factor VIII. It was agreed that a strong resolution
 7 should be sent from the meeting to the Department of
 8 Health that the Department view with grave concern the
 9 increasingly inadequate supplies of NHS Factor VIII
 10 concentrate."

11 Then if we go to page 10, please, in this same
 12 document, this is in the context of a discussion about
 13 hepatitis and the presentation of material by
 14 Dr Craske. Picking it up four lines down from the
 15 top:

16 "Dr Craske felt that increased usage of small
 17 pooled concentrates would help to reduce the incidence
 18 of hepatitis in the haemophilic population. First
 19 time exposure to large pooled Factor VIII concentrate
 20 resulted in many cases of hepatitis, especially in
 21 von Willebrand's disease patients. Professor Bloom
 22 wondered whether cryoprecipitate would be a better
 23 product to use for mild haemophiliacs and von
 24 Willebrand's disease, but pointed out there was
 25 a problem over the amount of Factor VIII in these

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1 intermediate or higher purity Factor VIII concentrate
 2 is the material of choice for the treatment of
 3 haemophilia.

4 "Statistics collected by the Haemophilia Centre
 5 Directors show that 50 million units were used during
 6 1979, a figure accurately forecast in 1975. Medical
 7 progress, increase in the number of patients and
 8 changing patterns of treatment are reflected in the
 9 arithmetic increase in the annual use of Factor VIII
 10 seen since 1969 when those statistics were first
 11 collected. If this trend continues at the present
 12 rate, the annual requirement will rise to about
 13 85 million units ..."

14 Then he goes on to set out what the current
 15 production is of NHS fractionation.

16 "It's generally agreed that cryoprecipitate is
 17 not suitable for home treatment and has limited
 18 medical indications for use. Nevertheless, even
 19 taking into account this latter material, there is
 20 still a shortfall of 25 million units of Factor VIII
 21 per annum, and this amount is currently purchased from
 22 commercial sources at a cost to the NHS of
 23 2.5 million."

24 Then there is the expression of concern in this
 25 next paragraph about the possibility of licensing the

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1 materials."

2 So, again, a very clear live issue for
 3 Professor Bloom and his fellow directors: the issue
 4 about pool sizes and the risk of hepatitis, and the
 5 recognition that cryoprecipitate would bear a lower
 6 risk.

7 The resolution that a message would be sent from
 8 the haemophilia centre directors to the Department
 9 resulted in Professor Bloom, along with Dr Rizza,
 10 writing a letter to the Secretary of State and we see
 11 that at HCDO0000394_049.

12 It's dated 12 November 1980, addressed to the
 13 Right Honourable Patrick Jenkin, the Secretary of
 14 State for Social Services, and it says this:

15 "Dear Secretary of State,

16 "At the recent meeting in Glasgow of the UK
 17 Haemophilia Centre Directors, disquiet was again
 18 expressed at the shortfall of freeze-dried
 19 concentrates of anti-haemophilic factor provided by
 20 the NHS manufacturers for the treatment of haemophilia
 21 and at the consequent need to purchase large
 22 quantities of Factor VIII from foreign commercial
 23 sources.

24 "There's general agreement amongst experienced
 25 haematologists and physicians that freeze-dried

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1 commercial production of Factor VIII by private
 2 enterprise within the UK, and reference to it being
 3 contrary to the spirit of voluntary blood donation and
 4 eventually to treatment.

5 Then over the page it is said:

6 "The problem of supply of Factor VIII cannot be
 7 divorced from that of these other aspects of the Blood
 8 Transfusion Service, and in our opinion should be
 9 solved by improving NHS transfusion resources within
 10 the UK, both centrally at the fractionation
 11 laboratories and peripherally at blood transfusion
 12 centres. We feel that the future of blood transfusion
 13 practice and plasma fractionation in this country is
 14 too important to be exposed to the vagaries of
 15 national and international commerce. Moreover, once
 16 expertise in plasma fractionation has been lost and
 17 staff dispersed, it may prove difficult to set up
 18 plasma fractionation again within the NHS should the
 19 commercial organisation withdraw."

20 So effectively a request not to proceed with
 21 commercial takeover of BPL from Professor Bloom and
 22 Dr Rizza and effectively a cry for greater investment
 23 in NHS production.

24 There is a response from Sir George Young on
 25 behalf of the Secretary of State. I'm not going to go

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1 to it but it is dated 18 December 1980, and reference
2 is made to the fact that the Minister for Health had
3 now said there's no question of a commercial company
4 taking over BPL.

5 If we move then to April of 1981 and we go
6 please, Henry, to CBLA0001346 we can see this is
7 a joint meeting of representatives of haemophilia
8 centres and Blood Transfusion Service directors
9 23 April 1981.

10 Again, we can see Professor Bloom is there. The
11 purpose of the meeting is set out under the heading
12 summary of the main points discussed, four lines down,
13 the meeting had been convened in order to consider the
14 foreseeable requirements for blood products containing
15 coagulation factors used in the treatment of
16 haemophilia.

17 Without going into the detail, at the first page
18 there's agreement as to a projected figure for
19 Factor VIII usage for the mid-80s. Then over the page
20 I just want to pick up the references there to
21 hepatitis risks under the heading:

22 "Types of material required frozen
23 cryoprecipitate.

24 "Even if this were largely phased out for the
25 treatment of severe haemophiliacs, there would still

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1 the questions but for present purposes what's relevant
2 is paragraph C:

3 "I understand that Professor Bloom wishes to
4 continue independent purchase of Factor VIII for the
5 Cardiff Haemophilia Centre."

6 The context here is that there was an ongoing
7 discussion at this time and it appears repeatedly in
8 Haemophilia Centre Directors' meetings a suggestion
9 that the transfer of decision-making for the purchase
10 of Factor VIII would move from Haemophilia Centre
11 Directors to Regional Transfusion Directors or
12 Regional Transfusion Centres, and that was vehemently
13 opposed by Professor Bloom and, indeed, by other
14 Haemophilia Centre Directors. They did not want to
15 lose control over the decision-making in terms of the
16 purchase of products.

17 One further document, this is in 1980, at
18 HCDO0000274_028. It's a letter from Dr Kernoff at the
19 Royal Free to Professor Bloom, dated 20 October 1980.
20 It describes what he characterises:

21 "... as a disastrous series of events following
22 a liver biopsy carried out on one of our haemophilic
23 patients who developed severe and uncontrollable
24 bleeding and the resulting complications causing his
25 death a week later."

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1 be a small requirement for its use in patients with
2 von Willebrand's disease and in mild haemophiliacs and
3 some carriers with low levels of Factor VIII. In the
4 last two categories the small pool size with its
5 lesser risk of hepatitis transmission was the main
6 reason why frozen cryoprecipitate was preferred to
7 concentrates."

8 So again a clear recollection both of the risk
9 of hepatitis transmission and of the relationship as
10 it was then understood to be with pool sizes.

11 Then there's a reference again in the next
12 paragraph to that. This in the context of discussing
13 the possibility of freeze-dried cryoprecipitate but it
14 said four lines down:

15 "Unless the pool size for the freeze-dried
16 cryoprecipitate was small, the advantages of such
17 a product in terms of lessening the hepatitis exposure
18 would be lost and it would be difficult to standardise
19 and expensive to produce."

20 Then if we look, please, at DHSC0002209_049 we
21 see here a letter from Dr Napier Medical Director of
22 the Welsh Regional Transfusion Centre to the Advisory
23 Committee on the National Blood Transfusion Service.
24 It's not entirely clear what all of the answers mean
25 because we haven't, I think, yet matched it up with

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1 For my purposes however if we could just go,
2 Henry, to the second page last paragraph, we can pick
3 it up five lines down:

4 "The seriousness of the hepatic problem in
5 haemophiliacs cannot be ignored."

6 Then there's reference again to the question of
7 liver biopsies. But there's a communication from
8 Professor Kernoff to Professor Bloom in those terms,
9 the seriousness of the hepatic problem with
10 haemophiliacs, a clear recognition of the significance
11 of the issue.

12 Then if we could look please at TREL0000145_084.
13 This is one of a number of letters from
14 Professor Bloom to Dr Aronstam at Treloars. The
15 purpose of this is just to see that as at
16 February 1980 what is being said by Professor Bloom
17 is:

18 "Most of our home treatments patients are on
19 Elstree Factor VIII, although we must supplement this
20 with other products from time to time during periods
21 of shortage."

22 How that matches up with some of the other
23 material we have seen would suggest that Elstree
24 Factor VIII is certainly used but so too are a number
25 of commercial products is unclear but that --

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1 **SIR BRIAN LANGSTAFF:** The return which you showed me for
 2 1976 I think it was showed a hugely greater use of
 3 imported concentrate than it did of local concentrate.
 4 Was it '76 or is it the other one?
 5 **MS RICHARDS:** I think it might have been '86 but it is
 6 right to say '76 shows a significant amount of Elstree
 7 product being used, but it also shows a not
 8 insignificant amount of a range of different
 9 concentrates being used. Then we have, for example,
 10 the insights we see in the note of the meeting with
 11 the managing director of Speywood which show that
 12 Professor Bloom clearly does use commercial
 13 concentrate, I suppose it's conceivable it's not for
 14 home treatment but it doesn't quite fit this statement
 15 here with what we pick up again from the different
 16 pieces of the jigsaw.
 17 Then if we could -- again, it's really within
 18 the 1979/1980/1981 period we're looking at here. If
 19 we could pick up please, Henry, another Speywood
 20 communication. It's IPSN0000334_006.
 21 Sorry, I said it the wrong way round. It's
 22 IPSN0000334_004. I'm not sure that is the document
 23 I want, sorry. I think it should be 006 at the end.
 24 Yes.
 25 So this is a letter from Professor Bloom to

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1 the polyelectrolyte programme mounting, life is a bit
 2 difficult for Speywood. Anything which you can do to
 3 help will be greatly appreciated."
 4 Then there's a reference to Hyate:C being
 5 available for clinical use:
 6 "We are anxiously waiting for the first suitable
 7 case. If you have an inhibitor crisis, perhaps you
 8 will consider using the product. I will come down to
 9 Cardiff early in the new year to update you on the
 10 rest of our projects."
 11 There are other communications we see as well
 12 from Professor Bloom with other pharmaceutical
 13 companies.
 14 That brings me to 1982, which is a key year,
 15 clearly, because of AIDS first being reported in
 16 haemophiliacs.
 17 I'll start, if I may, with a letter that may be
 18 from 1982 or may not. I'll explain why I say that in
 19 a moment. It's at HCDO0000252_042.
 20 It's a fairly well known letter. It's dated
 21 11 January 1982. For reasons I'll come back to when
 22 we look at some documents, probably on Wednesday, from
 23 late 1982 and early 1983, it is at least possible that
 24 this document has been incorrectly dated and that it
 25 was sent on 11 January 1983. But for present purposes

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1 Speywood Laboratories, 19 November 1979. He says
 2 this:
 3 "I'm trying to rationalise purchasing policy of
 4 Factor VIII concentrate for the treatment of
 5 haemophilia and I would be very grateful if you could
 6 bring me up-to-date on your current price lists and
 7 marketing policy."
 8 What the relevance of marketing policy is and
 9 what is meant by that is opaque. Price lists, again,
 10 is consistent with what we've seen earlier, that an
 11 important factor for Professor Bloom in choice of
 12 product appears to be its cost.
 13 Precisely what is meant by rationalising
 14 purchasing policy is not clear but clearly the
 15 purchase of commercial concentrates is here being
 16 contemplated.
 17 The response is at IPSN0000334_004. It's in
 18 these terms from David Williams of Speywood:
 19 "Dear Arthur,
 20 "I enclose formal reply to your recent request
 21 for human Factor VIII prices. It would be great if we
 22 can get back onto your list of suppliers, and
 23 I believe that our correct price structure is
 24 competitive. I have to confess we're a bit short of
 25 sales at the moment and, with research expenditure of

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1 I'm going to focus on its content rather than the
 2 date.
 3 It's addressed to all Haemophilia Centre
 4 Directors:
 5 "You are no doubt aware of at least four
 6 commercial companies are about to introduce
 7 preparations of Factor VIII and possibly Factor IX
 8 that have been processed in an attempt to reduce the
 9 risk of transmitting hepatitis B and non-A, non-B.
 10 "As far as we know, the products have been
 11 subject to a heat treatment process."
 12 Then there's reference to the possibility of
 13 other methods of treatment having been used."
 14 "Although initial production batches may have
 15 been tested for infectivity by injecting them into
 16 chimpanzees, it is unlikely that the manufacturers
 17 will be able to guarantee this form of quality control
 18 for all future batches. It is therefore very
 19 important to find out by studies in human beings to
 20 what extent the infectivity of the various
 21 concentrates is being reduced. The most clear-cut way
 22 of doing this is by administering those concentrates
 23 to patients requiring treatment who have not been
 24 previously exposed to large pool concentrates."
 25 So, pausing there, the suggestion is in those

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1 who have been previously not -- PUPS as they are often
2 referred to -- previously not exposed to large pool
3 concentrates, that those patients are treated with
4 these suggested new products to see whether they have
5 reduced the infectivity of non-A, non-B hepatitis.

6 Then the letter continues:

7 "Those patients are few in number but a study
8 along those lines is being carried out at Oxford to
9 determine the infectivity of Factor VIII concentrates
10 produced by the Plasma Fractionation Laboratory
11 Oxford, and Blood Products Laboratory Elstree. This
12 study shows that it is possible to demonstrate
13 infectivity using quite small numbers of previously
14 untreated patients. It's very important also to find
15 out as soon as possible whether the manufacturing
16 methods used to reduce the hepatitis risk has resulted
17 in a product with undesirable characteristics ..."

18 It gives examples of what those characteristics
19 might be.

20 "Although there's no doubt that the introduction
21 of hepatitis-safe products would constitute a major
22 advance, we hope you will agree with us that their use
23 on a named patient basis would be undesirable and
24 might seriously hinder controlled studies in the
25 future. There are several reasons for thinking this:

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1 that the Hepatitis Working Party [that's the working
2 party of the Haemophilia Centre Directors'
3 Organisation] are discussing plans for clinical trials
4 of these products as they become available and will,
5 if necessary, request exemption from a clinical trial
6 certificate in respect of individual products in order
7 to expedite trials. We hope the companies concerned
8 will collaborate in these trials and will offer
9 appropriate supplies of their concentrate as well as
10 financial support. Unfortunately, there is
11 insufficient time available to air these problems at
12 the next meeting of the Haemophilia Centre Directors
13 but if you have any observations we would be most
14 grateful to learn of them as soon as possible. With
15 best wishes ..."

16 Then we see it's from Professor Bloom and
17 Dr Rizza.

18 Again, that's one of the key documents that I'm
19 sure we will come back to both with witnesses and with
20 submissions in due course.

21 That's January of 1982 potentially and we'll
22 come back to that. September 1982 there is
23 a Reference Centre Directors' meeting on 6 September.
24 Henry, that's HCDO0000410 please, chaired by
25 Professor Bloom.

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1 "1. The best way of assessing efficiency and
2 observing recovery of activity, side effects,
3 et cetera, is by properly conducted clinical studies.
4 Since a number of products are likely to be introduced
5 in the next few months, a core of at-risk patients
6 will be needed for this assessment. It is for the
7 treatment of such patients that producers will make
8 their products available. If patients at risk are
9 treated as on a named patient basis, they will be
10 unavailable for clinical trials and the results will
11 be of anecdotal value only."

12 If we carry on please, Henry:

13 "2. For the purposes of a product licence, the
14 manufacturers are required to set out to the
15 regulatory authority in the UK the evidence of product
16 efficacy and safety and details of processing,
17 et cetera ..."

18 Then various matters set out in relation to
19 regulatory requirements ending with the sentence:

20 "Formal trial of efficacy and ongoing monitoring
21 of quality control is thus important.

22 "3. Use of a product on named-patient basis is
23 often justifiable but bypasses these regulatory
24 controls which have been established in the interest
25 of patients. We are therefore writing to let you know

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1 We can pick up the issue about the Hepatitis
2 Working Party on page 8 please, Henry. So bottom of
3 page 8 there's a report from Dr Craske for the
4 Hepatitis Working Party. If we go on to page 9,
5 please, we can see reference to two matters hepatitis
6 vaccine and then a surveyor that Dr Craske was
7 conducting in collaboration with Oxford on the use of
8 commercial and NHS concentrates for first-time or
9 seldom-treated patients. There's a description of
10 that study. Nine of the patients had developed non-A,
11 non-B hepatitis. It appears that there was a
12 100 per cent attack rate for first-time treated
13 patients who received NHS Factor VIII concentrate and
14 more than an 80 per cent chance of contracting
15 hepatitis following treatment within any type of
16 concentrate.

17 Then if we go further down, we see and this is
18 the issue to which the January letter alluded,
19 Dr Craske said he'd advise caution with regard to the
20 claims for hepatitis B-free materials which had been
21 made by commercial firms. Only way to check this
22 material was to test it.

23 Over the page, we then see a continuing
24 discussion and then if we can go on please to page 11
25 the discussion goes from one topic to another and then

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

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

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

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

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1 has since been used to prepare Factor VIII or IX
2 concentrates. All the haemophiliacs who have had the
3 disease have had severe coagulation defects requiring
4 regular treatment with Factor VIII."

5 Then Dr Craske says this:

6 "The likelihood is, therefore, that other cases
7 will be identified amongst severe haemophiliacs,
8 though, probably at a low prevalence."

9 Then there is a reference to proposed dates for
10 meetings.

11 Sir, the covering letter perhaps provides
12 a little further detail about Dr Craske's view. It
13 would, I think, perhaps be surprising if Dr Craske's
14 view was not known to Professor Bloom, given how
15 closely Craske, Bloom and Rizza were working at this
16 time.

17 Then the very final document for today is at
18 BPLL0011138. This is a meeting at BPL on
19 15 December 1982. It's headed "The implications for
20 the Haemophilia and Blood Transfusion Services of
21 Commercial Introduction of hepatitis-safe Factor VIII
22 and IX". We can see the attendees. They include
23 Bloom, Rizza and Craske.

24 If we pick it up under "Commercial
25 Considerations":

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1 commercial manufacturers to haemophilia directors in
2 the UK to study H-S VIII has many severe disadvantages
3 for the NHS and gives little or no payback to the UK
4 in return for opportunistic and non-contractual use of
5 the special potential of the UK haemophilia services
6 as a collective entity."

7 Quite what that means, sir, happily is a matter
8 for you to decide and not me.

9 Then if we go to the third page, under the
10 heading "Efficacy and safety of HS VIII and HSIX":

11 "The above statement defines the need for
12 centralised, fully controlled prospective trials of
13 HS materials, best operated through a properly
14 executed national clinical trial, and the proposals
15 are that the random exploitation of the haemophilia
16 service by commercial organisations for the study of
17 hepatitis-safe products should be discouraged, that
18 the haemophilia services should create a formal basis
19 for controlled clinical trial of alleged
20 hepatitis-safe products, that the haemophilia
21 services, PHLS and NBS, should combine resources in
22 a manner likely to advance economic treatment of
23 NHS haemophiliacs with safe products."

24 Sir, pausing there, that is the issue which is
25 the subject of the January 1982 letter that we looked

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1 "Factor VIII concentrates occupy 13 per cent of
2 the gross operating turnover of blood products.
3 Factor VIII lies fourth to ..."

4 Sets out the other three.

5 "Pricing stability in the world market on blood
6 products has introduced many bizarre effects,
7 particularly in Europe. The price battle for
8 Factor VIII intermediate concentrate in the UK is an
9 example. Intense competition and unacceptably low
10 prices is alleged to have resulted in the withdrawal
11 of Hyland Hemofil 2 from the UK market and the
12 threatened possibility of a second major company
13 withdrawal in 1983."

14 Then there are various predictions set out, and
15 at (2):

16 "It's a clear-field entry for commercial
17 hepatitis-safe Factor VIII, which by nature of its
18 special product status (unproven) can command a price
19 structure more in keeping with market expectations."

20 Then if we go over the page under the heading --
21 I should have said, this is a note prepared by
22 Dr Lane, the director of BPL.

23 Under the heading "Current commercial approach
24 to UK users":

25 "The random approach now being adopted by

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1 at, the chimpanzees infectivity humans letter, and
2 that's why it seems likely that the themes that are
3 picked up in that letter, which echo the themes here,
4 follow on from this and why -- it's one reason why we
5 think the letter may, in fact, be incorrectly dated
6 and should be dated January 1983. There's another
7 reason, which we'll look at on Wednesday when we look
8 further into 1983, why we think that might be the
9 case.

10 Sir, that I think may be a convenient time to
11 stop for the day because I'm about to look at the key
12 communications and advice given by Professor Bloom on
13 AIDS in the course of 1983, and that will take some
14 time.

15 **SIR BRIAN LANGSTAFF:** Yes.

16 Well, thank you very much, Ms Richards. We meet
17 again on Wednesday at ten o'clock then.

18 **MS RICHARDS:** Sir, yes. We'll resume with this material
19 relating to Professor Bloom and Cardiff. We will
20 then, I anticipate, start looking at the Oxford
21 material but probably not complete it that day, but
22 then on the Thursday and Friday of next week we have
23 our first haemophilia clinician witness, who is
24 Dr Mark Winter, who will be giving evidence here in
25 person.

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1 **SIR BRIAN LANGSTAFF:** Yes. He is scheduled for Thursday
2 and Friday.

3 **MS RICHARDS:** He is scheduled for Thursday and Friday,
4 sir.

5 **SIR BRIAN LANGSTAFF:** Very well.

6 That is it for today, so that is it for this
7 week. Those of you who are travelling or whatever
8 your plans are, stay safe. Those of you who have
9 plans to return, I look forward to seeing you again in
10 due course. Thank you very much.

11 **(4.20 pm)**

12 **(Adjourned until Wednesday, 30 September 2020 at 10 .00am)**

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<p>MS RICHARDS: [42] 1/3 1/21 1/24 2/10 3/22 4/1 4/10 19/5 19/10 19/15 22/24 27/2 27/5 28/14 42/5 42/7 42/13 42/24 43/10 43/12 46/14 46/24 55/7 55/12 55/18 59/18 60/11 60/16 60/20 67/13 67/15 72/23 73/3 79/5 80/15 81/25 82/16 104/25 115/12 133/4 148/17 149/2</p> <p>SIR BRIAN LANGSTAFF: [43] 1/2 1/19 1/22 2/5 3/21 3/23 4/8 18/21 19/8 19/13 22/22 26/23 27/4 28/12 41/25 42/6 42/8 42/22 43/8 43/11 46/10 46/15 54/25 55/8 55/15 59/13 60/8 60/12 60/18 67/10 67/14 72/22 72/25 78/24 81/3 81/14 82/15 104/23 115/6 132/25 148/14 148/25 149/4</p> <p>'4 [1] 51/7 '4-H List' [1] 51/7 '70s [2] 77/8 112/5 '76 [3] 19/4 133/4 133/6 '77 [1] 19/4 '79 [1] 114/14 '81 [1] 73/2 '85 [1] 84/7 '86 [1] 133/5 'Most [1] 88/19</p> <p>... [4] 24/15 36/14 38/21 131/21 ... as [1] 131/21 ... who [1] 24/15</p> <p>0 002 [1] 92/9 004 [3] 29/17 133/22 134/17 005 [1] 110/25 006 [3] 90/24 133/20 133/23 007 [2] 69/6 76/9 011 [1] 87/6 012 [1] 71/7 018 [1] 112/7 019 [1] 113/9</p>	<p>020 [1] 13/22 021 [1] 14/20 028 [1] 131/18 036 [2] 49/2 49/4 040 [1] 16/3 042 [2] 94/3 135/19 049 [2] 126/11 130/20 051 [1] 25/7 057 [1] 65/8 060 [1] 50/13 061 [2] 50/21 50/21 084 [1] 132/12</p> <p>1 1 May [2] 5/13 6/14 1 May 1983 [1] 4/15 1,000 [4] 19/22 37/2 62/15 87/25 1,000 donors [1] 6/2 1,300 [1] 4/20 1,641 [1] 29/15 1.05 [1] 80/9 1.12 [1] 81/12 10 [4] 6/25 7/25 87/11 125/11 10 December 1984 [2] 68/22 69/4 10.00 [2] 1/2 1/21 10.00am [1] 149/12 100 [2] 110/20 113/16 100 million [1] 118/7 100 per cent [1] 140/12 101,160 [1] 91/19 10p [1] 114/2 11 [8] 5/20 10/6 36/17 38/3 46/3 96/7 120/10 140/24 11 January 1982 [1] 135/21 11 January 1983 [1] 135/25 11 January 1985 [2] 69/15 70/6 11 o'clock [1] 46/8 11 patients [1] 87/18 11 per [1] 37/5 11 per cent 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