

1 Tuesday, 26 April 2011

2 (9.30 am)

3 (Proceedings delayed)

4 (10.00 am)

5 THE CHAIRMAN: Good morning.

6 MS DUNLOP: Good morning, sir.

7 Introduction

8 Plainly, we have billed this morning as an  
9 opportunity for us to screen two episodes of World in  
10 Action and I imagine everyone is interested to see that.

11 I'm afraid I have some remarks. In this block for  
12 the next four weeks, we are only addressing topic B2,  
13 subject to a couple of qualifications which I will  
14 explain in a moment. Topic B2 is expressed as:

15 "The use of blood product concentrates in Scotland  
16 including any perceived disadvantages of such products  
17 from their introduction in or around 1974; the  
18 continuation of the use of commercial concentrates in  
19 particular, after international realisation that these  
20 carried a risk of AIDS; the proposal by Dr Galbraith of  
21 the Public Health Laboratory Service in May 1983 that  
22 use in the United Kingdom should be stopped and  
23 significant progress towards self-sufficiency in the  
24 manufacture of blood products by the NHS in Scotland had  
25 been made."

1           I plan to adopt a generally chronological approach  
2           to telling the story from the early 1970s to around the  
3           end of 1984. There are some exceptions to that: where  
4           a particular point needs to reach a conclusion then  
5           I will follow that piece of evidence to that conclusion.

6           I intend to lead 11 witnesses, five who are or were  
7           haemophilia clinicians, two who are or were  
8           transfusionists, the former national medical director of  
9           SNBTS, covering transfusion and fractionation, two  
10          scientists from the world of fractionation and an  
11          infectious diseases specialist.

12          Of course, so to describe them is to pigeonhole  
13          people and in fact there are considerable overlaps in  
14          the expertise of individuals, as will be seen. There  
15          are also individuals whose statements we will refer to  
16          but who are not giving evidence, mostly because the  
17          statements are of less importance or cover material  
18          covered by someone else who is giving evidence. In one  
19          or two cases people are not fit enough to come.

20          There will also be reference to some correspondence  
21          and it is my intention to use gaps, which will  
22          inevitably occur, to narrate some of these items. The  
23          scheduling has not been entirely easy to organise but  
24          I'm content that we have a reasonably logical order  
25          beginning with the haemophilia clinicians and moving to

1       those who represent the SNBTS, finishing with  
2       Professor Lever on infectious diseases. We may have  
3       some early finishes.

4             Mr Mackenzie will return on 12 May to lead the rest  
5       of the evidence from Dr Dow on topic C1, and that is my  
6       first qualification to the statement that we are only  
7       tackling B2.

8             The other qualification involves topic B5. As  
9       everyone knows, we have attempted to divide up the  
10      subject matter of the Inquiry into topics to make it  
11      manageable. Topic B5 is concerned more with the  
12      doctor/patient relationship and we intend to deal with  
13      that mostly in block 3 in June. But there are three  
14      witnesses whose evidence on topic B5 we propose to take  
15      in this block to save the time of the witnesses and the  
16      Inquiry. They are Dr Winter, Professor Hann and  
17      Dr Pettigrew.

18            Mr Gardiner will be leading evidence in relation to  
19      topic B5.

20            Turning more specifically to topic B2, there are  
21      certain themes I want to cover. Firstly, the arrival of  
22      commercial concentrates, although there were some  
23      earlier efforts to produce concentrates by the NHS in  
24      the 1960s, we understand that the commercial products,  
25      the first commercial products weren't available in this

1 country until the early 1970s. I want to look at  
2 attitudes within the government and of patients and  
3 haemophilia clinicians to concentrates around that time.  
4 I want to look at usage, the advantages and  
5 disadvantages of the products from time to time,  
6 risk/benefit assessments. I want to look at the  
7 provision of concentrates by the National Health Service  
8 in the 1970s and the 1980s, including the question of  
9 self-sufficiency for Scotland and whether it was or  
10 wasn't achieved. Did NHS products have similar  
11 drawbacks to commercial products? We will be looking  
12 too at the emerging realisation of the problem of AIDS  
13 in haemophilia. We will examine what was said by  
14 haemophilia clinicians mainly through UKHCDO, what was  
15 said by government and by the Haemophilia Society, as  
16 well as other actions of these bodies. We will look at  
17 the United States of America and at some other countries  
18 too.

19 We will also investigate the response to heat  
20 treated concentrates when those began to appear from  
21 1983 and we will be trying to get an idea of government  
22 policy in Scotland in these areas.

23 With that brief outline, I would now begin to look  
24 at the evidence.

25 THE CHAIRMAN: Before you do that, can I make a comment?



1           I think, gentlemen, that it is very important that  
2           we should stick to the topics and not take the  
3           opportunity, as it might be seen, of having a particular  
4           witness here simply to ask questions more or less  
5           casually. If any party wishes to ask any of the  
6           witnesses who are to come a question that lies outside  
7           of the scope of the topics Ms Dunlop has mentioned,  
8           I will require that notice of that be given in writing  
9           in advance on this occasion. The informality that  
10          I allowed last term didn't work particularly  
11          successfully, on at least one occasion, and I'm not  
12          prepared to allow it to continue. So I'm going to stick  
13          to the rule so far as material outwith the scope of  
14          these topics is concerned. I hope that's understood.

15   MS DUNLOP: Before I begin to try to sketch some of the  
16          background from the early 1970s, I should record, sir,  
17          that there is, as you are well aware, a vast amount of  
18          documentation. A lot of the key documents are referred  
19          to in the preliminary report but there are some that  
20          have come to the attention of the Inquiry team since the  
21          preliminary report was published. So there are some  
22          extra documents, both for the 1970s and the 1980s.

23          This means that some of what we will be looking at  
24          in evidence is not in the preliminary report but I do  
25          want to put it before the Inquiry. In some cases that's

1 best done by putting a particular document to a witness  
2 who perhaps was around at the time or was at  
3 a particular meeting, but that's not always possible.  
4 Where it is not possible, I would propose simply to  
5 narrate a document or a meeting to draw it to everyone's  
6 attention, perhaps to put up the minutes or whatever.  
7 It's my hope and my belief that using that and the  
8 evidence of Dr Winter, Professor Ludlam and  
9 Professor Forbes in particular, we should be able to  
10 assemble a reasonably complete account of events,  
11 particularly between 1974 and 1984 in this area.

12 Sir, I suggest that the story, the story of the use  
13 of blood product concentrates, begins with the early  
14 realisation of the transmission of hepatitis by blood  
15 and blood products, firstly in blood, and if we could  
16 look at the preliminary report, this is real page,  
17 page 138, and [\[LIT0012431\]](#). If we look in  
18 paragraph 6.2, this is the second sentence:

19 "The first association of blood transfusion with the  
20 development of hepatitis was recorded in 1943."

21 The article referred to there is in the Journal of  
22 the American Medical Association, 1943, by PB Beeson.  
23 There is also another reference which I would like to  
24 look at, [\[LIT0010246\]](#). This is from the BMJ. It's  
25 dated December 1, 1945, and it is a letter which can be

1       seen on the left-hand side. It is headed up  
2       "Transmission of hepatitis during blood transfusion":  
3        "It is an established fact that hepatitis,  
4       homologous serum jaundice, can occur 2 to 6 months after  
5       transfusion of human serum or plasma. In some episodes  
6       it has been possible to incriminate certain batches. In  
7       some batches the incidence of affected persons has been  
8       as high as 60 per cent."  
9       The letter in fact goes on to discuss the  
10      possibility that in some instances it may be that  
11      icterogenic material was administered accidentally  
12      through syringes contaminated with icterogenic material,  
13      inadequately sterilised between injections, suggesting  
14      that one possibility could be that material is passed on  
15      through reuse of syringes or contaminated syringes. We  
16      are discussing something called a Higginson syringe.  
17      Next I would like to look at the Maycock report,  
18      which is also referred to on page 138 of the preliminary  
19      report. This is [\[LIT0010063\]](#). This describes the  
20      administration of human antihaemophilic globulin  
21      concentrate and three cases of homologous serum jaundice  
22      afterwards, all in 1958 and 1959, and we can see that if  
23      we look in particular at page 0081. There is  
24      a subheading "Homologous serum jaundice":  
25      "Particular attention has been paid to the

1 occurrence of this complication in recipients of AHG  
2 concentrate. Among the patients reported here, three  
3 possible cases have been observed."

4 There is then discussion of those cases. Then under  
5 the heading "General":

6 "The use of human AHG concentrate has certain  
7 advantages. Compared with fresh blood or plasma,  
8 smaller volumes are needed to control haemorrhage and  
9 haemostasis is therefore achieved more rapidly, a fact  
10 of importance when haemorrhage is rapid and is causing  
11 extended tissue damage ... The clinical effect of AHG  
12 concentrate, since it has a known AHF content, is  
13 usually more accurately predictable than that of fresh  
14 frozen plasma ..."

15 Go on to the next page. We see that some of the  
16 potential difficulties in preparing concentrate on  
17 a large scale are anticipated.

18 Then the next reference is on page 138 of the  
19 preliminary report. If you go back to that. Footnote  
20 2, reference to a letter by Whittaker and Brown "Serum  
21 hepatitis in a haemophiliac." BMJ1969 volume 3,  
22 page 597, which is [\[LIT0010248\]](#). Perhaps if we don't go  
23 to that for a moment and look first actually at 0249,  
24 [\[LIT0010249\]](#), we can see that these are two publications  
25 in the BMJ quite close together. We see again this is

1 a letter headed, "Serum hepatitis in a haemophiliac",  
2 and this tells us that the Whittaker and Brown letter,  
3 was 6 September, page 597:

4 "Serum hepatitis is a rare but important hazard  
5 following the use of cryoprecipitated antihaemophilic  
6 globulin. We would like to report another non-fatal  
7 case."

8 We will see in a moment that Whittaker and Brown  
9 were reporting a fatal case. If we could now go to  
10 [\[LIT0010248\]](#), to Whittaker and Brown, we can see from  
11 the first paragraph of their letter -- well, firstly,  
12 a reference to an earlier report which is an American  
13 report, the New English Journal of Medicine in 1966 by  
14 Del Duca and Eppes. Which described:

15 "A 39-year old haemophiliac who developed transient  
16 jaundice 60 days after receiving 28 units of cryo ... we  
17 report a second case with a fatal outcome."

18 Then if we look at the last paragraph of what  
19 Whittaker and Brown said:

20 "Cryo represents a considerable advance in the  
21 management of the severe haemophiliac. This and other  
22 centres have used many thousands of units without  
23 mishap, and we do not know of a similar case in Britain.  
24 It is important to re-emphasise the potential danger of  
25 cryo, to ensure its use only when strictly needed.

1 A check should be kept of the source of cryo to trace  
2 any serum hepatitis which may occur in the future."

3 Then finally on this particular point -- that is on  
4 recognition of the transmission of hepatitis by blood  
5 and blood products -- I would like to look at  
6 a circular, which is [\[SNB0057275\]](#). This is something  
7 called "Scottish hospital memorandum, number 89 of  
8 1964":

9 "The Scottish National Blood Transfusion Association  
10 hospital blood transfusion arrangements and the supply  
11 of blood products in clinical use".

12 There is quite a lot of general introductory  
13 material about the organisation of the service. Then if  
14 we look to page 76, 7276, we can see that there is  
15 a subheading above paragraph 8:

16 "Hazards of blood transfusion":

17 "The hazards of transfusion therapy have become more  
18 widely recognised in recent years but avoidable  
19 transfusion accidents still occur in hospitals in  
20 Scotland."

21 Paragraph 9:

22 "The main dangers of transfusion therapy are (1)  
23 haemolytic reactions, (ii) bacterial infection, (iii)  
24 transmission of disease, (iv) iso-immunisation and (v)  
25 mechanical reactions ..."

1           Then on to the next page, SNB0057277, an important  
2 paragraph, sir, paragraph 11:

3           "All blood for transfusion must be regarded as  
4 potentially contaminated and care must be exercised to  
5 ensure correct conditions of storage. The supply is not  
6 only during storage in the blood bank but also during  
7 transportation. Bottles of blood must never be left  
8 unrefrigerated. The most important transmissible  
9 disease in this country is homologous serum jaundice or  
10 serum hepatitis, the incidence of which is five per  
11 1,000 recipients of blood or small pool plasma. No  
12 transfusion should be undertaken unless the benefits  
13 outweigh the risk of hepatitis."

14           Then the subheading "Blood products in clinical  
15 use". Reading the second paragraph:

16           "As with whole blood, these products should be used  
17 only when there is a clear clinical necessity for the  
18 following reasons: (a), with the exception of gamma  
19 globulin and albumin, they may carry the risk of  
20 transmitting serum hepatitis. (b), large quantities of  
21 blood are required for their preparation and, (c) they  
22 are expensive to prepare."

23           In 1973 it was known that commercial concentrates  
24 were coming. I would like to look firstly at  
25 [\[DHF0012122\]](#). This is obviously an English circular to



1 senior administrative medical officers headed up "Trends  
2 in the treatment of haemophilia":

3 "Antihæmophilic globulin concentrate is, in many  
4 instances, the therapeutic agent of choice in the  
5 treatment of hæmophilic patients. The production of  
6 the human concentrate in the UK is at present  
7 insufficient to meet the stated needs of clinicians who  
8 care for patients requiring surgical, including dental,  
9 treatment, or who have episodes of severe bleeding.  
10 Considerably more of this preparation would be used if  
11 it were available. Product licences have very recently  
12 been granted to two firms ..."

13 I don't think it would be controversial if I were to  
14 say that those appear to be Immuno of Austria and  
15 Travenol, Hyland Travenol, of the United States:

16 "... which enable them to market foreign human AHG  
17 concentrate to hospitals and hæmophilia centres in the  
18 UK. It has come to the notice of the department that  
19 one of the firms has already engaged in active promotion  
20 of this expensive product. The firm has indicated that  
21 they can supply large quantities of human AHG  
22 concentrate, and this could result in very significant  
23 expenditure if amounts were bought in excess of  
24 immediate needs.

25 In view of the several developments in the



1 management of patients with haemophilia, the department  
2 has decided to assemble a group of experts who will  
3 advise on likely trends in methods of treatment,  
4 possible future requirements for the treatment of the  
5 condition and the consequences for the supply of  
6 therapeutic agents, including human AHG concentrate."

7 So this is the expert group on the treatment of  
8 haemophilia. If we look at [\[DHF0012124\]](#) we see that  
9 someone -- and as usual we are not sure who, but someone  
10 in the Department of Health and Social Security is  
11 passing on a copy of this letter to senior  
12 administrative medical officers on the subject of trends  
13 in the treatment of haemophilia:

14 "The availability in this country of an American and  
15 an Austrian antihaemophilic globulin concentrate has  
16 made an urgent review necessary since, if a large  
17 proportion of eligible patients are to be treated with  
18 foreign commercially produced concentrate of this  
19 nature, the costs will probably amount to several  
20 million pounds a year. An expert group is being  
21 convened by medical division and will meet on 20 March.  
22 This group is to advise the department on trends in the  
23 treatment of haemophilia and it is anticipated that the  
24 conclusions reached will form the basis for future  
25 planning. Such planning could include consideration of

1 early arrangements for central purchase and controlled  
2 distribution of commercially produced concentrate,  
3 primarily to haemophilia centres, and the possibility in  
4 the slightly longer term of producing sufficient  
5 material in the UK to meet the need."

6 That's 13 March 1973. At this point, sir, I thought  
7 it might be useful to have a little bit of a look at who  
8 these companies are or were, and that is usefully  
9 explained by Douglas Starr. If we look in his book on  
10 blood at page 258, which is [\[LIT0012920\]](#) at 2928. This  
11 is a chapter entitled "The blood services complex", and  
12 we can see in the first full paragraph on page 258:

13 "Four major companies have controlled most of the  
14 world's plasma. Based in the United States, they  
15 included Cutter Laboratories of Berkeley, California,  
16 Alpha Therapeutic Corporation of Los Angeles, Armour  
17 Laboratories of Chicago and Hyland in a suburb of  
18 Los Angeles. These firms represented a pharmaceutical  
19 tradition. Armour, as we have seen, have been around  
20 since the previous century. Cutter, an old family  
21 business in northern California, boasted a colourful  
22 history of public involvement."

23 If we look down, actually, we can see a little bit  
24 of later development in the world of plasma, that in  
25 1978 the Green Cross company of Japan bought

1 Alpha Therapeutic, and Green Cross also went on to buy  
2 part of a Spanish fractionator. Then in 1977, Bayer,  
3 a German pharmaceutical giant, took over Cutter; Armour  
4 passed from one owner to another until the French  
5 multinational, Rhone Poulenc, held on to it. Of the  
6 major producers, only one remained in the hands of  
7 Americans, Hyland, which itself had been purchased by  
8 Baxter Travenol Laboratories, a multinational healthcare  
9 conglomerate based in Chicago.

10 I'm referring to this, sir, because from time to  
11 time one sees all three of these names, Baxter, Hyland  
12 and Travenol, and it's useful to know that they are  
13 essentially all the same.

14 How was the news received in Scotland? Well, we  
15 need to look at [\[SNB0102011\]](#). We can see that this  
16 document is the minutes of a meeting of the central  
17 consultative committee on blood transfusion at  
18 St Andrew's House on 15 March 1973. We can see that  
19 there were present some names we already recognise,  
20 Professor Douglas, I think Professor Forbes is going to  
21 come on to talk about, but a haemophilia clinician, both  
22 Professor Douglas and Professor Girdwood are indeed very  
23 well-known names. Also Dr George McDonald from  
24 Glasgow Royal Infirmary, Dr Iain Macdonald from SHHD;  
25 Dr Wallace, West of Scotland Blood Transfusion, and

1 Mr Watt of Protein Fractionation Centre all attending  
2 the meeting.

3 We can see that in fact there seems to have been  
4 a bit of difficulty about the content of the minutes of  
5 a previous meeting, if we look at the next page,  
6 SNB0102012, in paragraph 11 we can see that the central  
7 consultative committee had established its own working  
8 party to consider production, laboratory and clinical  
9 evaluation of the various Factor VIII and IX products in  
10 relation to the overall production capacity of the Blood  
11 Transfusion Service -- so NHS products -- and to report.  
12 There had been a working party meeting in September,  
13 a minute of the meeting had been circulated. There was  
14 some difficulty about the accuracy of the minutes. Then  
15 there is a bit of debate about that. Which I don't  
16 think it is really necessary to go into.

17 If we go to the next page, to paragraph 14 -- this  
18 is SNB0102013 -- we can see the situation was further  
19 compounded now because a commercial superconcentrate had  
20 been licensed for sale in this country at a high price.  
21 There was to be a meeting at DHSS on 20 March to discuss  
22 the matter.

23 Then back to the brouhaha. Dr Wallace said he had  
24 found the meeting helpful, regretted the subsequent  
25 history. He emphasised that time and effort were

1 required, not only for the design of effective trials  
2 but for the conduct of the trials. It was up to the BTS  
3 to produce a better concentrate than the commercial  
4 product.

5 Then paragraph 18:

6 "The department said that for the meeting with DHSS  
7 it was necessary to know the Scottish objective. It was  
8 hoped that there would be a step-up of production of  
9 Factor VIII, and in the meantime, although the  
10 commercial material might require to be used, it would  
11 only be in very small quantities. The situation was an  
12 evolving one."

13 19:

14 "PFC had, until recently, made Cohn Fraction I,  
15 which was not a good product but for a long time had  
16 been the only product. The facilities at Liberton would  
17 be more than adequate to provide all the Factor VIII  
18 products required."

19 One might think a slightly more ambitious steer on  
20 what was hoped for than we have seen in the DHSS  
21 document.

22 "It was possible that the meeting at DHSS ..."

23 This is reading from paragraph 20:

24 "... on 20 March would recommend the central  
25 purchase of the commercial concentrate for health

1 service use and that distribution should be through BTS  
2 centres. This would keep the situation under control  
3 and not allow a widespread market to be established  
4 through hospital pharmacies, it would also allow the BTS  
5 to step up its own production. The meeting agreed that  
6 if commercial concentrates had to be provided it should  
7 be by central purchase but that distribution should be  
8 made by the haemophilia centres, not through BTS  
9 centres."

10 Then we have the minutes of the meeting of the  
11 expert group on the treatment of haemophilia on  
12 20 March 1973. This is [\[SNB0067631\]](#). Again interesting  
13 to look at the dramatis personae. We can see  
14 Dr Rosemary Biggs who is obviously a very well-known  
15 name in the history of haemophilia treatment.  
16 Professor Douglas again, Dr Rizza, Dr Iain Macdonald  
17 from SHHD. Looking at the first paragraph:

18 "Several significant advances in the treatment of  
19 haemophilia have taken place in recent years. Various  
20 therapeutic materials are now available and most  
21 recently developed is human freeze-dried antihaemophilic  
22 globulin concentrate, which is expensive and may be in  
23 limited supply. Nevertheless, it appears to be the  
24 therapeutic agent of choice in the majority of cases and  
25 would be used widely if available in larger quantities."

1           It is narrated that the department -- this is DHSS:

2

3           "... have decided to assemble a group of experts to  
4       advise generally on what was happening in haemophilia  
5       treatment and to make proposals on which planning for  
6       the future could be based."

7           Terms of reference are noted. Then the size of the  
8       problem is discussed. Then on to the next page, 7632:

9           "Present treatment."

10          Dr Biggs had clearly produced a paper:

11          "It is agreed by clinicians that the preferred  
12       treatment of episodes of bleeding before and during  
13       surgical procedures is with the more purified products,  
14       namely cryoprecipitate and AHG concentrate."

15          Then a discussion of the various materials,  
16       cryoprecipitate, then the most commonly used therapeutic  
17       agent. Then freeze-dried concentrate. At the bottom of  
18       the page:

19          "It is presented in bottles, each containing about  
20       400 units of Factor VIII activity."

21          At the of that paragraph:

22          "Adverse reactions following infusions of  
23       freeze-dried AHG concentrate are rare. A possible  
24       disadvantage arises from the fact that AHG concentrate  
25       is prepared from a larger pool of donations and in

1 theory, therefore, the risk of hepatitis is greater.  
2 About 1 in 800 of the donors who present to the  
3 transfusion service is a carrier of Hepatitis B  
4 antigen."

5 Then on to the next page, SNB0067633, a bit more  
6 discussion of Hepatitis B and then at the end of the  
7 first paragraph on the page:

8 "It was agreed that the theoretically increased risk  
9 of acquiring hepatitis, which does not seem to be borne  
10 out in practice, should not be a deterrent to using the  
11 freeze-dried preparation, and in any case, this  
12 complication will decrease with the universal screening  
13 of donors for hepatitis antigen."

14 I suppose one should really read implicit in that:  
15 Universal screening of donors for Hepatitis B antigen:

16 "At a meeting of the haemophilia centre directors in  
17 1972, there was a consensus of opinion in favour of  
18 freeze-dried concentrate. This was confirmed in  
19 a survey undertaken by Dr Maycock of the opinions of  
20 clinicians. The limiting factors are the capacity for  
21 production and the cost of this preparation."

22 Then there is a marginal note that one might  
23 speculate is possibly in the handwriting of Mr Watts,  
24 but it is not really known:

25 "This was not communicated to PFC or SNBTA."



1           Looking further down the minutes of this meeting,  
2           the second last paragraph:

3           "At present, UK production is considerably less than  
4           the required amount of the freeze-dried preparation. It  
5           was agreed that there is an immediate need to discuss  
6           the advisability of central purchase and distribution of  
7           the two commercially produced preparations. There is  
8           also a pressing need to seek ways of increasing UK  
9           production with the intention of reducing and, as soon  
10          as possible, ending purchase from foreign sources."

11          Then on to the next page, 7634, third paragraph:

12          "Close cooperation between England, including Wales,  
13          Northern Ireland and Scotland, will be required in order  
14          to co-ordinate and optimise blood collection and  
15          transport. The fractionation process is distribution of  
16          the therapeutic agents and utilisation of other blood  
17          fraction by-products."

18          Then the recommendations by the expert group:

19          "1. There is to be early consideration of central  
20          purchase of the freeze-dried concentrate from the two  
21          firms. 2. Distribution to other haemophilia centres  
22          and hospitals should be through the regional centres,  
23          three of which are in Oxford, Manchester and Sheffield  
24          in England, one in Scotland, Edinburgh or Glasgow, and  
25          one in London."

1           That is to ensure the most effective use of  
2           available material:

3           "3. At the same time, the UK should aim to become  
4           self-sufficient as soon as possible by increasing home  
5           production of freeze-dried AHG concentrate."

6           Then:

7           "5. There should be further meetings of this expert  
8           group ... several subjects need to be discussed further,  
9           including home treatment, and, in due course,  
10          prophylactic treatment.

11          "6. The expert group membership might be expanded  
12          to include representatives of each of the Regional  
13          haemophilia centres, a representative of the Regional  
14          Transfusion Directors [and possibly senior  
15          administrative medical officer]. It is also suggested  
16          that the National Medical Director of the Scottish  
17          National Blood Transfusion Association a Mr Watt of the  
18          Edinburgh BPL [as it is inaccurately described -- of  
19          PFC] should be invited to join the group."

20   THE CHAIRMAN: Before you leave that, on the first page  
21           where there is a reference to the size of the problem  
22           and then at several points thereafter there are  
23           references to the UK, and this is of course a problem  
24           that runs through many of the documents, do we know  
25           whether the "UK", so described in this document, is

1 a reference to England and Wales or indeed to the  
2 United Kingdom?

3 MS DUNLOP: Well, given that there does appear to have been  
4 representation from Scotland, I would suspect -- I don't  
5 know is the answer to the question, sir, but I would  
6 suspect that the numbers that are given for the UK  
7 probably does include Scotland. There is some attempt  
8 made at some points in this minute to record that  
9 a particular figure relates only to England and Wales.  
10 For example in paragraph 3 when there is a discussion of  
11 cryoprecipitate. It is recorded that the figure given  
12 there is relating to England and Wales.

13 THE CHAIRMAN: Because the other point is that PFC hadn't  
14 been commissioned by this date.

15 MS DUNLOP: Yes.

16 THE CHAIRMAN: The first comment about the UK is just  
17 something that we have to bear in mind. I think that it  
18 becomes clear in time that in documents emanating from  
19 the DHSS there are often references to the  
20 United Kingdom which probably can only relate to England  
21 and Wales and it makes understanding quite difficult.

22 MS DUNLOP: Yes. I think sometimes one can derive  
23 a reasonably accurate perception from the context but,  
24 as you say, sir, there may be occasions where it is  
25 really impossible to tell.

1           We can then look at an SHHD letter to medical  
2           officers in Scotland, which is [\[SGH0029309\]](#), and see  
3           that this is dated 28 March 1973. It's actually  
4           virtually identical to the English one. If we could  
5           maybe juxtapose the two documents. So can we keep this  
6           one and look at [\[DHF0012122\]](#), which was the first  
7           document we looked at.

8           If we look at them side by side, we can see that  
9           although the order of the paragraphs has been changed,  
10          I think that's really enough to let us see that the two  
11          letters have the same beginning and then the Scottish  
12          one goes on to say:

13                 "In view of several developments ..."

14                 Which is paragraph 4 of the English one, and then  
15                 the conclusion is reached in paragraph 5 of the English  
16                 one and then the same text:

17                 "Production of human concentrate in the UK is at  
18                 present insufficient:"

19                 Production licences recently granted to two firms.  
20                 The department hope to let you have a further statement  
21                 soon. Then a new paragraph in the Scottish circular,  
22                 this is the last substantive paragraph:

23                 "The longstanding arrangements under which the  
24                 Scottish National Blood Transfusion Association prepares  
25                 and distributes AHG and cryoglobulin precipitate for the

1 treatment of haemophilia will no doubt be well-known to  
2 those concerned."

3 That's, I think, the only difference between the two  
4 letters. Then if we move to the autumn of 1973 and we  
5 look at a DHSS circular letter again, this one is dated  
6 23 October 1973. It is [\[SGH0029308\]](#). We can see that  
7 this is narrating how events have moved on since March:

8 "I wrote to you on 6 March informing you of recent  
9 developments in the availability of freeze-dried human  
10 AHG concentrate. The expert group which met in March  
11 reached certain conclusions which the department are now  
12 using as the basis for planning for the future,  
13 including a recommendation that arrangements should be  
14 made for central purchase of the concentrate."

15 We see that:

16 "Supply division are negotiating with Travenol  
17 Laboratories Limited and Serological Products Limited  
18 for the supply. Details of the supply arrangements will  
19 be circulated as soon as possible. Meanwhile, the  
20 department, in close cooperation with the Scottish Home  
21 and Health Department, is considering ways of increasing  
22 NHS production."

23 Then we can see the Scottish equivalent is  
24 [\[SGH0029306\]](#), and again there is a close similarity  
25 between these two letters, although the Scottish one

1 contains a different paragraph, paragraph 3:

2 "I should like to remind you of the arrangement  
3 referred to in my letter of 28 March, whereby the SNBTA  
4 prepares and distributes AHG and cryoglobulin  
5 precipitate for the treatment of haemophilia. The  
6 department is considering ways of increasing NHS  
7 production."

8 So that, sir, is really just a bit of a glimpse of  
9 what was happening in 1973, what effect was produced by  
10 the news that commercial concentrates or  
11 superconcentrates had arrived, the need for the NHS to  
12 step up production, the need for control about how the  
13 commercial concentrates were purchased and distributed.  
14 These are all threads that one can detect in the  
15 communications, and perhaps arguably a slightly more  
16 optimistic prediction of the future, or slightly more  
17 optimistic spin in Scotland as to what might be possible  
18 by way of NHS production.

19 Moving into 1974, there was a meeting of  
20 haemophilia centre directors and blood transfusion  
21 directors on 31 January 1974. The minutes of that are  
22 [\[SNB0072190\]](#). A very long list of attendees. Again  
23 some names that we certainly recognise. If we go to  
24 page 2195, we can see -- after a discussion of what kind  
25 of material is best for treatment -- at the top of

1 page 6, reading just at the bottom of the previous page  
2 it says:

3 "The meeting was asked to indicate whether anyone  
4 would in fact prefer to have cryoprecipitate if  
5 freeze-dried concentrate were freely available. It was  
6 clear that none of the those present would prefer  
7 cryoprecipitate."

8 So very obvious that the freeze-dried concentrates  
9 were greatly preferred, and indeed it's evident from the  
10 minutes of this meeting that commercial AHG was already  
11 in use. If we look at 2197, which is page 8 of the  
12 minutes, we can see -- this is in the middle -- some  
13 doctors were buying commercial AHG for use in home  
14 therapy. So a prompt start there.

15 Then there is a further document from 1974, which is  
16 [\[DHF0023406\]](#), it appears to have been a paper prepared  
17 for a meeting of the expert group on the treatment of  
18 haemophilia, for a meeting they would have on  
19 11 October 1974. We can see that this paper is entitled  
20 "Optimum use of available Factor VIII", and we can link  
21 back to the minutes we have just looked at if we see  
22 that paragraph 5 records that:

23 "The last meeting of the Haemophilia Centre  
24 Directors was unanimous in preferring lyophilized  
25 concentrate to cryoprecipitate."

1           Then paragraph 6:

2           "Haemophilic requirements at haemophilia centres may

3       be divided into three classes:

4           "1. Routine treatment of early bleeding.

5           "2. The provision of cover for dental extraction

6       and routine surgery.

7           "3. Cover for heroic surgery and major trauma and

8       the management of serious bleeding in patients with

9       anti-Factor VIII antibodies."

10          "There is also the rightly growing requirement to

11       provide home treatment."

12          If we look at the next page, DHF0023407, there is

13       a suggestion at the top of the page that NHS

14       freeze-dried lyophilised concentrate should be made

15       generally available for requirement 6.2, that's cover

16       for dental extraction and routine surgery, and will be

17       the appropriate material to use for home treatment when

18       more can be made available. But then paragraph 11:

19          "Until NHS supplies are adequate, commercial

20       material should be used in three areas:

21          "1. Material of choice for cover for heroic surgery

22       and major trauma and management of serious bleeding in

23       the face of antibodies.

24          "2. As back-up supplies for requirements 6.1 and

25       6.2."



1           That was routine treatment of early bleeding and  
2           cover for dental extraction and surgery:

3           "3. For the immediate provision of home treatment  
4           in suitable cases who live too far from  
5           a haemophilia centre to be adequately treated there and  
6           who cannot for the same reason be supplied with  
7           cryoprecipitate from there even if they have a deep  
8           freeze, and for whom NHS lyophilised concentrate cannot  
9           yet be obtained."

10           Then on the last page, 3408, we can see that an  
11           attempt has been made to produce a sort of rough  
12           costing -- I suppose it is not rough but it is limited  
13           costing -- looking at haemophilia centres in the  
14           southeast Thames region. We can see that for that  
15           region, 1972 to 1973, the cost is shown, this is cost of  
16           supplying treatment for patients with haemophilia,  
17           £5,980, rising to £9,007 from 1973 to 1974, but then the  
18           half year for 1974, £4,939, but then compared to Oxford  
19           Haemophilia Centre, for the first eight and a half  
20           months of 1974 they had spent £75,747. So one gets some  
21           idea of the escalation in cost, which occurred when the  
22           commercial products became --

23   THE CHAIRMAN: Dr Biggs was at Oxford?

24   MS DUNLOP: Yes.

25   THE CHAIRMAN: And her clear preference was for concentrate?

1 MS DUNLOP: Yes.

2 Then we can look at an exchange relating to the  
3 provision of NHS product in Scotland. Firstly, if we  
4 look at [\[SNB0072254\]](#), this is Dr Howard Davies, the  
5 consultant haematologist at Edinburgh Royal Infirmary at  
6 that time, writing to Dr Cash and saying:

7 "I hope you remember that sufficient supplies of  
8 human intermediate Factor VIII concentrate would be  
9 available in Edinburgh in January 1975 to cover the  
10 operative needs of our haemophiliacs and to enable me to  
11 start some of them on on-demand therapy at home."

12 And asking:

13 "What's the state of play?"

14 We can see [\[SNB0072255\]](#). This is Mr Watt, appearing  
15 to give to Dr Cash the information he needs to reply to  
16 Dr Davies:

17 "Re letter of December 18."

18 That's the one we have just looked at from  
19 Dr Davies:

20 "I suggested he needed to be a little patient  
21 a little longer. Production of Interate here is not yet  
22 started and will still have volume problems for some  
23 time ... suggested April likely earliest date on which  
24 estimate of regular output will be available."

25 Then lastly from 1974 we can look at another

1 circular from the DHSS. [\[DHF0029393\]](#). 5009 is the one  
2 with the letterhead on but I think the one we have is  
3 029393.

4 This is talking about blood products production,  
5 recording that the Blood Transfusion Service -- I think  
6 this is probably meant to be talking about England but  
7 was true really for both Scotland and England:

8 "We are currently unable to meet the demands of  
9 clinicians for certain preparations of human blood.  
10 Immediate need to provide more AHG concentrate ... at  
11 present, part of the demand for these blood products is  
12 being met by expensive imported material which is now  
13 marketed in this country. As the demand increases,  
14 commercial firms may consider it worth their while to  
15 establish panels of paid donors in this country in order  
16 to obtain their supplies of human blood. Such  
17 a development would constitute a most serious threat to  
18 the voluntary donor system upon which the NBTS is  
19 founded. The department therefore regards it as of the  
20 greatest importance, quite apart from the question of  
21 costs, that the NHS should become self-sufficient as  
22 soon as practicable."

23 Then there is a reference on the following page,  
24 9394, paragraph 5, to the fact that clearly it would be  
25 considerably cheaper to produce these blood products

1       within the NHS than to buy them from commercial sources.

2               Next, sir, I would like to look at a letter we have  
3       already seen in the Inquiry, which is Dr Garrot Allen's  
4       letter, [\[SGH0046061\]](#). I'm sorry but this is the one  
5       that's slightly sliced off on the right-hand side, but  
6       I don't think that matters for today's purposes.

7               We looked at this letter in the context of topic C1,  
8       but I would like to look at it bearing in mind what we  
9       have just seen in the DHSS circular about how precious  
10      the voluntary system of blood donation in the  
11      United Kingdom was seen to be. In this letter on  
12      6 January 1975 from Dr Garrot Allan, he is writing to  
13      Dr Maycock at BPL because of information he has learned  
14      from Dr Judith Pool about the situation in the UK:

15              "The only place where these two components [that is  
16      Factor VIII and IX] is prepared is at Oxford. Am I  
17      correct in assuming your laboratory doesn't produce  
18      them? No doubt you also know what the practices in  
19      Glasgow are at the West of Scotland blood centre. Do  
20      they produce Factor VIII and IX? Dr Pool spent the past  
21      year at Oxford and tells me that at least one of the  
22      sources for commercial Factor VIII and IX is the Hyland  
23      Laboratories in the Los Angeles area."

24              Then he talks about a product from the Cutter  
25      company, Konyne for Factor IX deficiency has proved

1       extraordinarily hazardous, a 50 to 90 per cent rate of  
2       icteric hepatitis developing from it. About half of  
3       these proved fatal, Cutter's source of blood is  
4       100 per cent from skid row derelicts."

5           He then talks about the relatively poor screening  
6       techniques for Hepatitis B and goes on to suggest in the  
7       fourth paragraph that half, if not more cases of  
8       post-transfusion hepatitis are caused by an agent other  
9       than Hepatitis A or B. Whatever this agent may be it  
10      still seems to be more frequently encountered in the  
11      lower socio-economic groups of paid and prison donors."

12           Then he says:

13           "A blood bank for these groups in the United States  
14      ..."

15           I suspect this is meant to be monetotropic, or  
16      a word of that nature, anyway something suggesting that  
17      blood banks attract people in need of money:

18           "Commercial blood banks attract these kind of  
19      donors. I would hope Great Britain would give some  
20      thought to what the purchase of Factor VIII and IX from  
21      the United States tends to do to our attempts to run  
22      a volunteer programme. Commercial blood banking  
23      perpetuates the high risk rates for hepatitis B  
24      encountered with their products and it tempts these same  
25      commercial firms to sell the residual products of these

1 high risk donors."

2 So he's wondering what the situation is in the UK  
3 and pointing out that it doesn't help the attempts in  
4 America to establish the sort of voluntary donor system  
5 that it might be thought was so precious in the  
6 United Kingdom if these commercial products are so  
7 readily marketable in the UK.

8 I also wanted, really for reference, to look at some  
9 statements in Parliament on this topic in 1975.

10 THE CHAIRMAN: Before you go to them, Professor James is  
11 pointing out to me that we should see the reference to  
12 the financial implications in context, that in the early  
13 1970s the National Health Service generally was very  
14 strapped for cash and there was what he refers to as  
15 widespread occult rationing, for example in renal  
16 transplant and dialysis units, where the work was  
17 severely limited by restricted funds, and it took  
18 20 years really to reverse that. So really one should  
19 see the references to cost as not particularly targeted  
20 at the supply of blood products, that it's an aspect of  
21 a wider problem. Indeed, he suggests that the lobby did  
22 extremely well to get the funding that it did.

23 Just a little bit of context.

24 MS DUNLOP: Thank you. The references I wanted to make to  
25 Hansard are [\[PEN0120185\]](#), firstly. It shows Mr George

1 Cunningham asking Dr Owen:

2 "What deficiencies exist in the supply of  
3 Factor VIII (cryoprecipitate) [rather confusingly] for  
4 the treatment of haemophilia and what action [she]  
5 proposes to take to deal with the problem."

6 And Dr Owen recording that:

7 "The amount of Factor VIII produced within the NHS  
8 is not sufficient. There is an immediate need to  
9 provide more human antihaemophilic globulin concentrate,  
10 now the preferred treatment for haemophilic patients.  
11 Part of the demand for concentrate is being met by  
12 imported material but this is very expensive. I believe  
13 it is vitally important that the National Health Service  
14 should become self-sufficient as soon as practicable in  
15 the production of Factor VIII, including AHG  
16 concentrate."

17 From the same year, February, [\[PEN0120186\]](#).

18 Mr GRO-A this is. I'm not terribly sure who he  
19 is/was, but he asked the Secretary of State for Social  
20 Services if she will now:

21 " ... consider making adequate supplies of  
22 Factor VIII available to the National Health Service so  
23 that it is self-sufficient in this product for the  
24 benefit of those suffering from haemophilia."

25 We see Dr Owen recording that £500,000 special



1 finance is being made available to increase the existing  
2 production. I think we know that that's an injection of  
3 capital that took place in England.

4 Then there is more discussion about the arrangements  
5 for purchase, discussion about the possibility of  
6 central purchase, and Dr Owen says:

7 "I confirm that in most cases I think it is the most  
8 desirable form of treatment but one cannot avoid the  
9 fact that this is one of the many costly treatments that  
10 are competing on priorities. The present system,  
11 whereby a doctor can persuade his local area health  
12 authority that his patient needs this form of treatment  
13 most is the best way of proceeding and not by central  
14 allocation."

15 Then there is more discussion of the benefits of  
16 treatment. Then lastly from Hansard [\[PEN0120183\]](#)  
17 Mr Madden really having another go on this topic. First  
18 of all asking how many patients suffer from haemophilia  
19 in Great Britain. Estimated to be approximately 3,000,  
20 a small proportion having regular home treatment.  
21 Mr Madden is wondering what arrangements, including the  
22 provision of money, are being made by health authorities  
23 to secure supplies of Factor VIII concentrate. What  
24 financial resources has each regional health authority  
25 for securing supplies of concentrate privately produced.



1           Then we can see from the bottom of the reference to  
2           the same two companies, two suppliers of product  
3           licenses for Factor VIII, annual running contracts with  
4           these firms.

5           Then on the following page there is another  
6           reference to the £500,000 injection and Dr Owen's belief  
7           that it is vitally important that the NHS should become  
8           self-sufficient as soon as practicable. Also from 1975  
9           we should note that there was a WHO resolution on the  
10          utilisation and supply of human blood and blood  
11          products. This is May 1975 and it's [\[DHF0030764\]](#). In  
12          the recital, the World Health Assembly is conscious of  
13          the increasing use of blood and blood products,  
14          considered information provided by the director general  
15          and what has been said by the Red Cross:

16          "Noting the extensive and increasing activities of  
17          private firms in trying to establish commercial blood  
18          collection and plasmapheresis projects in developing  
19          countries, expressing serious concern that such  
20          activities may interfere with efforts to establish  
21          efficient national blood transfusion services based on  
22          voluntary, non-remunerated donations."

23          Then:

24          "Urging member states to promote the development of  
25          national blood Transfusion services based on voluntary,

1 non-remunerated donation of blood and enact effective  
2 legislation governing the operation of blood services  
3 and take other actions to protect and promote the health  
4 of donors and recipients."

5 So it is very clear that the WHO view was that  
6 national blood services based on voluntary donations  
7 should be the aim of all countries.

8 Then lastly, just to look at a paper, which was  
9 presented at a World Federation of Haemophilia  
10 International Society of Blood Transfusion symposium in  
11 Helsinki, between 27 July 1975 and 1 August.

12 [\[LIT0010150\]](#). Just to note that at that symposium there  
13 was information about the drawbacks of the use of  
14 antihaemophilic concentrates. This is a paper by  
15 Dr Mannucci. Again, a very well-known name. For the  
16 record, this paper is actually pages 1 to 5 of the  
17 Scandinavian Journal of Haematology, volume 19, issue  
18 S30, which is dated June 1977. So it was published  
19 obviously a bit of time after the symposium, but just to  
20 note from the headnote that:

21 "Liver disease and thrombo-embolism are the most  
22 frequent and severe side-effects associated with the use  
23 of clotting factor concentrates in haemophiliacs."

24 Mention of the approach which should be taken to  
25 monitoring. Then:

1            "These complications do not justify withdrawal or  
2            limitation of the very effect of a life-changing use of  
3            concentrates, however, awarenesses of their recurrence  
4            and of their danger requires that specialised  
5            haemophilia centres carry out, at frequent intervals,  
6            clinical and laboratory testing of the organs to allow  
7            early detection."

8            There is obviously within the text more discussion.  
9            Perhaps one should just look at the conclusion, to see  
10           how the discussion is reflected. That's in LIT0010153.  
11           The reports of this symposium -- this is on the  
12           right-hand side:

13           "Clearly show that antihaemophilic concentrates are  
14           frequently associated with side-effects which may be of  
15           clinical relevance, however, they do not justify  
16           withdrawal or a limitations of replacement therapy,  
17           which would be accompanied by a consistent deterioration  
18           of the present pattern of life of haemophiliacs. More  
19           detailed knowledge and assessment of risk factors is  
20           likely to reduce, if not to abolish, the most frequent  
21           and severe side-effects, such as liver disease and  
22           thrombo-embolism."

23           With that, I am afraid, rather lengthy introduction,  
24           sir, I propose that we now watch the television  
25           programme which comes in December 1975. I propose that

1       we should watch the two episodes consecutively. I don't  
2       know whether we will need a break. I'm not sure whether  
3       the stenographers will need a break.

4             The total running time, I think, is about 50  
5       minutes, whether it might be better given that it is ten  
6       past 11 to watch the first episode and then have a short  
7       break before we watch the second episode. I'm in your  
8       hands, if we want to watch both episodes consecutively.

9   THE CHAIRMAN: Let's take it stage by stage, we will watch  
10       the first and if necessary, review the situation at the  
11       end.

12

13   MS DUNLOP: The other thing I need to mention is that we  
14       have copies of a transcript of the programme. The  
15       transcript is [\[PEN0131400\]](#). There are hard copies of  
16       the transcript. I would have thought it is better to  
17       watch the programme rather than sit reading the  
18       transcript but certainly if people want to take away  
19       a copy of the transcript at the end, they will be  
20       available. I think we will put them in an obvious place  
21       so that if somebody wants to help themselves to the  
22       transcript and take it home, there is no difficulty with  
23       that.

24             World in Action video played

25   (12.06 pm)

1 MS DUNLOP: Perhaps we could have a short break to make sure  
2 everything is up and running again.  
3 THE CHAIRMAN: Right, we will adjourn.  
4 (12.08 pm)  
5 (Short break)  
6 (12.27 pm)  
7 MS DUNLOP: Sir, we have Dr Mark Winter with us to give  
8 evidence now.  
9 DR MARK WINTER (sworn)  
10 Questions by MS DUNLOP  
11 THE CHAIRMAN: Do you have some difficulty in hearing?  
12 A. Yes, I am registered deaf but I have NHS hearing-aids.  
13 THE CHAIRMAN: Would you just sit down, we will try and bear  
14 that in mind.  
15 Ms Dunlop?  
16 MS DUNLOP: Thank you, sir.  
17 Dr Winter, the first thing that I would like to do  
18 is take you through your CV which should come up on the  
19 screen in front of you. It is WIT0030359.  
20 How is this for audibility? Is it all right?  
21 A. Yes.  
22 Q. Right, thank you.  
23 First point to notice from your CV is that you show  
24 us your present appointment since 1983, consultant  
25 haematologist and haemophilia centre director, Kent and

1 Canterbury Hospital in Kent, but you are now retired.

2 Is that correct?

3 A. I'm not using that word. I have moved on. I'm still  
4 very involved with teaching and training and I have  
5 a honorary contract with my trust, but since June of  
6 last year, I'm no longer working as a clinical doctor.

7 Q. So you don't see patients?

8 A. I don't see patients any more.

9 Q. Which presumably means you are not the centre director?

10 A. Correct.

11 Q. Right. I'm told that I should remind, Dr Winter, if you  
12 could, please, to make sure you speak into your  
13 microphone so that we can hear you.

14 A. Okay.

15 Q. Thank you.

16 We notice also from the first page that when your  
17 career began in the 1970s, you worked in haematology at  
18 the Middlesex in London and then at Guys, and in both  
19 positions you were a senior registrar. You amplify that  
20 a little on the next page, where you tell us under a  
21 subheading "Haematology", that you received a general  
22 introductory training in laboratory practice. You had  
23 a significant clinical commitment with particular  
24 emphasis on leukaemia. Then as part of the Middlesex  
25 hospital training scheme you actually spent six months

1 at Edgware hospital doing general clinical haematology  
2 and six months on secondment to the North London Blood  
3 Transfusion Service at Edgware.

4 We have heard of Edgware already in the Inquiry when  
5 we looked at precautions that were taken in donor  
6 selection in the 1980s. I think it was  
7 a Dr Patricia Hewitt who was there at one time, who  
8 I think was described to us as very forward-looking. Is  
9 this a particularly forward-looking blood transfusion  
10 centre, Edgware?

11 A. Not at the time I was there.

12 Q. No, right, okay.

13 At Guys you say you developed an interest in  
14 haemophilia and thrombosis, you introduced a home  
15 therapy programme for patients with severe haemophilia  
16 and set up a system for comprehensive care. Then in  
17 1983 you went as consultant haematologist to Canterbury  
18 and Thanet Health Authority. First in Margate and then  
19 moving to Canterbury. In 1984 you were appointed as the  
20 designated HIV physician for the area and established  
21 a network of AIDS patient care in response to the  
22 evolving epidemic. Was that solely for patients with  
23 haemophilia who had HIV or was it all HIV patients in  
24 the area?

25 A. When we got the results of AIDS blood testing

1       in October 1984, in my centre only one of the regularly  
2       treated patients did not have HIV. So from that moment  
3       on we, as a centre, became very involved. One of the  
4       stipulations of the AIDS Control Act was there had to be  
5       a designated physician for each area for AIDS, and as  
6       I seemed to be the only doctor who knew anything of it,  
7       they suggested that I should be the nominated AIDS  
8       physician. So from that moment on I started to look  
9       after, not only haemophilia patients with AIDS but also  
10      people from all walks of life, and it turned out there  
11      was quite a large local gay community and also because  
12      we were fairly close to the channel ports, there was  
13      quite a lot of drug addiction. So in no time at all  
14      I was looking after over 100 patients with AIDS.

15               So they then took pity on me and appointed  
16      a colleague to do the leukaemia work. So from that  
17      moment on I really only involved myself with HIV carers  
18      and HIV physicians and haemophilia. But I suppose  
19      because of that, I was rather unlike my other  
20      haemophilia colleagues, I did a lot more HIV clinical  
21      work than they did.

22    Q. Yes, at the same time as being the director of the  
23      haemophilia centre?

24    A. Yes.

25    Q. Then you tell us on page 3 of your CV -- so on to the



1 following page, if we could, please -- that you were  
2 involved with the Haemophilia Society's campaign for  
3 recompense for those infected, and you were the  
4 nominated campaign medical contact for media and MPs.

5 Eventually the Macfarlane Trust was set up. What is  
6 the brief of the Macfarlane Trust? It is targeted  
7 towards a particular group. Is that correct?

8 A. Yes, the Macfarlane Trust was established for the  
9 support of patients with haemophilia who had been  
10 infected with HIV through use of contaminated blood  
11 products. So I guess, because of my HIV background,  
12 I became the medical officer appointed by the Department  
13 of Health to represent the Macfarlane Trust and also  
14 a parallel trust called the Eileen Trust, which was for  
15 the smaller number of people in Britain who had got HIV  
16 through blood transfusion as opposed to blood products.

17 Q. Yes. You do actually mention that further on in your  
18 CV, that, I think, it was in 1996 that you were  
19 nominated to serve on the Eileen Trust as well, and are  
20 you still involved with the Macfarlane Trust?

21 A. No, I'm no longer a trustee of either of those trusts.

22 Q. You describe the establishment of a comprehensive care  
23 centre, and it really looks from your description, which  
24 we can see in the paragraph beginning, "A comprehensive  
25 care programme for haemophilia has been implemented ..."

1 as though haemophilia, particularly for families with  
2 affected children, really reaches into almost all  
3 aspects of the family's life. Is that fair?

4 A. Yes, I think it is true that different centres look  
5 after patients not always in the same way, and some  
6 centres are perhaps rather more holistic than others.  
7 I think that one of the things we tried to do was to set  
8 up a centre where we could control all aspects of their  
9 health because we didn't trust what might happen if they  
10 went to any other part of the healthcare process without  
11 us being involved. So I guess it was comprehensive in  
12 that sense, that we always direct the patients to come  
13 through us so that we could then control everything so  
14 that even if the medical problem had nothing to do with  
15 the haemophilia, at least we could interact with the  
16 other teams and make sure that nothing inappropriate  
17 happened in their management.

18 Q. I think I was particularly struck by the sentence:  
19 "Many families with infected children now choose to  
20 live in the area so as to be near the centre."  
21 Did you also have contact with schools?

22 A. Yes -- well, firstly, when we have a child who is  
23 starting school, we would always go and visit the school  
24 and make sure that the school understood the nature of  
25 the haemophilia and set out those activities that the

1 child could and couldn't do, and we would provide  
2 written information as well as verbal information. This  
3 would usually be done by one of the nursing team and  
4 then we would establish processes of contact where  
5 anybody from the school could get in touch with us  
6 urgently if they had a problem. I mean, there were very  
7 particular issues about the 20 children we had with HIV.  
8 But maybe we will talk about that later in my testimony.

9 Q. You talk about the upgrading that took place of the  
10 centre in Canterbury in 1996, I think, and you say:  
11 "It was the only comprehensive care centre not sited  
12 in a teaching hospital."

13 That presumably was a matter of some pride, that the  
14 centre had achieved that status despite not being  
15 attached to a teaching hospital?

16 A. I think we were using a sort of football analogy, that  
17 we were the sort of Blackpool of the premier league and  
18 shouldn't be there really. But, yes, it was quite  
19 a difficult process to go through and all very formally  
20 conducted, and it included a lot of input from patients,  
21 which was very welcome. So that was really a big step  
22 forward for the centre at that time because it then  
23 became a fully recognised comprehensive care centre.

24 Q. Right. You describe some other developments for which  
25 you were responsible. A home treatment diary, 1997,

1 perhaps a sign of the times then that it was known as  
2 the "filo factor", whereas now patients are issued with  
3 a palm pilot with particular software, and you say this  
4 system is now in use in many countries. You also  
5 mention a twinning relationship with a centre in  
6 Pakistan, and I expect we could spend quite a lot of  
7 time talking about the standards of haemophilia care in  
8 developing countries?

9 A. That experience is relevant in terms of asking the  
10 question: what would have happened if our British  
11 patients with haemophilia had not had the type of  
12 treatment that they did receive from the early 1970s  
13 onwards? Because the Pakistan experience mirrors  
14 obviously that of British patients before any effective  
15 treatment was introduced.

16 Q. Yes. And I know that you have watched the  
17 World in Action programme that we have all been  
18 watching, and certainly Mr Watt at the end of the second  
19 episode is talking about standards of haemophilia care  
20 in developing countries, in the Middle East and in  
21 Africa, and I imagine there are still tremendous  
22 inequalities around the world. Is that a reasonable  
23 comment?

24 A. A very significant percentage of the world's haemophilia  
25 patients still get no treatment. A very significant

1       number of haemophilia people in the world, because we  
2       know the incidence in each ethnic population doesn't  
3       vary we can work out that there must be many, many  
4       thousands of people with haemophilia who are  
5       undiagnosed. For instance, quite recently in Cambodia,  
6       they have had their first ever patient diagnosed. Well,  
7       as they have a population similar to if not greater than  
8       Britain, there must be at least 25,000 others somewhere.

9     Q. If we move to the next page, we see that you were  
10       involved in the establishment of the haemophilia  
11       alliance and that's an organisation that continues, is  
12       that correct?

13    A. It is. I was the founding medical chairman of the  
14       alliance, which was sort of born out of a concept,  
15       I think, firstly that there had been diversity of care  
16       given to people with haemophilia in the past, as of  
17       course happens in all aspects of medicine, and that also  
18       maybe some of the very significant problems that had  
19       occurred with haemophilia patients might have been  
20       lessened if we had had what you might call better  
21       politics.

22       So although there were haemophilia organisations  
23       like the UKHCDO setting up formal protocols, the concept  
24       was that it would be good to have an across the board  
25       organisation involving doctors, nurses and patients,

1       where we could say to politicians and commissioners, you  
2       know, we are the voice of the haemophilia community and  
3       this is what we think.

4             Another major aspect of the work of the alliance was  
5       that for the first time a group of us produced  
6       a national service specification. So this was  
7       a standardised document setting out the standard of care  
8       that people with haemophilia and related conditions  
9       should receive. It had the formal blessing of the  
10      Department of Health. It was published, I think, for  
11      the first time in 2001. It has recently been  
12      republished. There is a website. I like to think that  
13      it has been seen as influential because, as I say, it  
14      was saying to commissioners of healthcare, "This is the  
15      standard of care that you should be commissioning for  
16      your patients with haemophilia", and it was hoped that  
17      it was of benefit to local haematologists round Britain  
18      who could go to their own commissioners and wave this  
19      document and say, "This document is the national service  
20      specification. It says, I ought to have the following  
21      facilities and I don't and what are we going to do about  
22      it?"

23   THE CHAIRMAN: Dr Winter, do you know of any other group of  
24      patients with particular conditions who have got that  
25      level of influence?

1 A. I think the kidney doctors are very well -- there is  
2 a lot of similarity actually between haemophilia and the  
3 management of renal disorders, where it is often very  
4 long-term, very intimate relationships between doctors  
5 and nurses and patients and they also now have a kidney  
6 alliance but I think we were there first.

7 MS DUNLOP: Are you still involved in the alliance?

8 A. No.

9 Q. Then you talk about research. I took it from what you  
10 said earlier that you are still interested in and  
11 involved in research. Is that --

12 A. No, not clinical research. The work I'm doing at the  
13 moment is just involved with teaching and training. I'm  
14 not involved in any clinical activity or any research  
15 any longer.

16 Q. On the following page you set out some of your  
17 experience in teaching, your membership of learned  
18 societies and the administration roles that you have  
19 held. Then if we move to the next page after that, you  
20 chart national activities within haemophilia care, quite  
21 a long list, Dr Winter. We see the Macfarlane Trust and  
22 the Eileen Trust mentioned. We see that also between  
23 1987 and 1991, you were the nominated media liaison for  
24 the compensation campaign of the Haemophilia Society,  
25 and indeed from the bottom we see that you have also

1       served on an UKHCDO working party on VCJD. Is that  
2       something which has also come to an end since this was  
3       written?

4   A. It has now come to an end, yes.

5   Q. Your involvement in the working party or both?

6   A. Both.

7   Q. Then you list for us your publications. It struck me  
8       you had done a lot of work with D W Jones?

9   A. Yes.

10   Q. Is that another haemophilia --

11   A. He is a scientist in my centre.

12   Q. So there are both original papers and then you list  
13       a large number of published abstracts. Perhaps you had  
14       better explain to us quite what a published abstract is  
15       and how it differs from a published article?

16   A. So a published article is of much more relevance in that  
17       it will have been submitted to a scientific journal and  
18       subjected to a process of peer review, and then  
19       a published abstract would not have been peer-reviewed  
20       in the same sense. It would have been part of a major  
21       scientific meeting, such as the World Federation of  
22       Haemophilia, and the meeting would have then published  
23       the abstracts in a written publication.

24   Q. Yes. I think we have already come across something like  
25       that when we were looking at statistics for Scotland,



1       and Dr Tait told us about work that the haemophilia  
2       doctors had done in Scotland about Hepatitis C, and that  
3       was by reference to an abstract. So I think we have  
4       some understanding of the concept.

5           I noticed from among your articles that you had --  
6       this is number 13, we don't need to go back to it --  
7       looked at the care and management of children with  
8       haemophilia and HIV infection and that's, I guess,  
9       a chapter in a book called "Caring for children with HIV  
10      and AIDS". Is that correct?

11   A. Yes, that was -- I think I was commissioned to write  
12      that because of the particular experience that we had  
13      had with children and HIV and haemophilia.

14   Q. You have also looked -- this is number 37 -- at the  
15      impact of HIV on mortality rates in the complete  
16      haemophilia population.

17           We have some statistics on that ourselves:

18           Your abstracts included one which caught my eye. It  
19      is number 80. I don't know if we can perhaps move on to  
20      that. Yes, it is an abstract entitled, "When supplies  
21      run dry, how do patients cope?" Did you come up with an  
22      answer?

23   A. That came about because in that year one of the American  
24      companies, Bayer, had their plant shut down by the FDA.  
25      So there was a transient shortage of commercial

1 concentrates, which lasted for a few months, and we  
2 therefore had to alter our clinical practice, mostly in  
3 terms of postponing non-essential surgery and looking at  
4 treatment regimes and maybe talking to patients on home  
5 therapy about moderating the amount -- the dosage of  
6 Factor VIII and Factor IX they might be using for  
7 self-injection. So it was a phase that lasted quite  
8 a few months and it did cause some problems at the time.

9 Q. Thank you, Dr Winter. With that completed, I would like  
10 now to put before the Inquiry two documents that you  
11 have provided to us. One is a written submission you  
12 made for the Archer Inquiry, which is [\[PEN0150283\]](#).  
13 There is also [\[PEN0150292\]](#), which is a document prepared  
14 for this Inquiry and which consists of a series of  
15 answers to questions that you were sent by the Inquiry  
16 team. I'm not sure if you have hard copies with you?

17 A. I do.

18 Q. Yes. Please feel free to use those rather than watching  
19 it on the screen.

20 You gave evidence to the Archer Inquiry, I think, in  
21 2007. Is that correct?

22 A. Yes.

23 Q. You make the point in your statement to the  
24 Archer Inquiry -- which I think you delivered orally in  
25 evidence at the Inquiry -- at the end of the first

1 paragraph, that you did that in a personal capacity, not  
2 representing any of the organisations you named. That  
3 would be the UKHCDO and the Haemophilia Alliance and so  
4 on. Should we take it that that is also true today?  
5 You are here in a personal capacity and not representing  
6 any bodies?

7 A. If you would, please.

8 Q. Yes. Thank you.

9 The first short point, I think, perhaps we could  
10 take from you, Dr Winter, is something that's mentioned  
11 on the first page of that submission and it's the  
12 reference to "life expectancy", which without treatment,  
13 you say -- and this is near the bottom of the page, the  
14 second line under the heading "Spring 1984":

15 "Without treatment, we know that life expectancy is  
16 very limited."

17 Without going to the other paper, I think we asked  
18 you about the Birch Report, which I think was written in  
19 the 1930s but was actually an American publication. Is  
20 that correct?

21 A. Yes.

22 Q. But you, I think, clarified for us that there would be  
23 no reason to believe that the likely survival of  
24 untreated British patients would have been any different  
25 from American patients, and certainly at that time, you

1 say, only 20 per cent of patients with severe  
2 haemophilia could expect to live beyond 20 years. We  
3 have tried but not succeeded to obtain a copy of the  
4 actual paper but it seems that the figure was that  
5 82 patients out of 98 died before they were 20. Without  
6 going to it, we refer to this in paragraph 3.49 of our  
7 preliminary report.

8 The next point I wanted to ask you about was the  
9 gradations of haemophilia. Perhaps we could at this  
10 point look at the other paper, [\[PEN0150292\]](#).

11 A. Could I just make parallel comment about the natural  
12 history, before we move on, if you don't mind?

13 Q. Yes, certainly.

14 A. I think it is helpful. I have mentioned Pakistan.  
15 I think it may be relevant to say that if you still want  
16 evidence of what happens when somebody with severe  
17 haemophilia doesn't get treated, you don't only need to  
18 look back to these retrospective studies, which were  
19 a long time ago and not many of them, you can go to one  
20 of the developing countries because the cost of  
21 concentrate is so significant there are many developing  
22 countries where, as in Pakistan, they have got very nice  
23 hospitals, experienced doctors, good nurses, they have  
24 a nuclear power, but they have no concentrate. In the  
25 centre in Islamabad, where we visited twice, there are

1       upward of 250 children with severe haemophilia, of which  
2       one of them lived beyond the age of 18.

3           So that remains the natural history of haemophilia.  
4       Without treatment, as happened to members of the Royal  
5       Family, the likely thing by far is that you will have  
6       some life-ending event of serious and spontaneous  
7       internal haemorrhage before the age of 20 or so years.  
8       That is the natural history of severe haemophilia.

9   THE CHAIRMAN: Dr Winter, when we visited Newcastle, we were  
10       shown photographs of boys in Africa today, showing very  
11       severe damage to joints and so on. Is the progressive  
12       natural history the same generally now, but for  
13       treatment?

14   A. It is. You can look at the old footage of the Tsarevich  
15       being carried round Moscow at the age of 8 and he is  
16       completely crippled and can't walk, and in Pakistan  
17       hardly any of the children we were doing clinics with,  
18       hardly any of them -- certainly none of them had normal  
19       joints and most of them were bedbound.

20   MS DUNLOP: Can I ask you then, please, Dr Winter, just one  
21       or two questions about the gradations of haemophilia.  
22       You have set this out for us on the other statement,  
23       which is [\[PEN0150292\]](#). I think we have it in front of  
24       us.

25           You say:

1           "The various grades have been agreed by the World  
2       Federation as follows."

3           Under 1 "International Unit Per Decilitre" -- is  
4       that? --

5   A.   Yes.

6   Q.   -- of blood is severe and then 1 to 5 per decilitre  
7       would be moderate haemophilia and mild would be 5 to 50.  
8       I did actually have a look at the World Federation's  
9       website the other day and, perhaps slightly confusingly,  
10      there are references on it to mild being 5 to  
11      30 per cent and normal being 50 per cent and above, and  
12      then at another point on the website mild is described  
13      as 5 to 40 per cent, which I suppose leaves you  
14      wondering about people that were at 45 per cent or  
15      thereabouts. At least with your definition all the  
16      categories join. But I suppose if people are at about  
17      40 per cent, they don't have very many symptoms. Is  
18      that the explanation?

19   A.   I'm not sure. There has been some controversy about  
20      this. I think from a clinician's point of view the  
21      really important point is that if you have a Factor VIII  
22      level of, say, about 40 and you then have surgery, you  
23      may well bleed very significantly. So I think from  
24      a clinician's point of view we feel pretty strongly that  
25      we would like the mild classification to go up to

1 a level of 50 because we think in the sort of range 30  
2 to 50 people can have really pretty significant clinical  
3 problems at times of dentistry or surgery or following  
4 trauma.

5 Q. We have also already had some evidence from Dr Colvin,  
6 when he came to speak about one of the specific deaths  
7 that we have been asked to investigate, about  
8 fluctuation in people's levels of Factor VIII and,  
9 presumably, Factor IX as well. That's a physiological  
10 feature, is it?

11 A. Factor VIII is what is known as an acute phase protein.  
12 Let's just say you are a patient with haemophilia and  
13 your Factor VIII might be 20 and you then get pneumonia;  
14 it might transiently go up to 30. So there are times in  
15 life when you are ill in any way when this level might  
16 transiently increase.

17 The other aspect to all this is that Factor VIII  
18 assays are not necessarily the easiest test to do. So  
19 probably somebody who is told by one centre that their  
20 level is 10 and another centre it's 15 might actually be  
21 the same level, it is just the different laboratories  
22 doing the test. It is, as I say, not necessarily a very  
23 straightforward test to do and there is still quite  
24 a lot of technical discussion as to the best way to do  
25 it.

1 Q. Is there a danger, therefore, that these sorts of  
2 figures give an impression of precision which isn't  
3 achieved in clinical practice?

4 A. Yes. I think we wouldn't get too excited about a level  
5 that varied by, say, 5 IU per DL. We wouldn't be at all  
6 surprised to find that, for instance, our centre had  
7 found a level of 12 and another centre a level of 17.  
8 That would not be a surprise.

9 Q. What about differences between, say, 7 and 11 or 7 and  
10 12, something that, obviously, you know, covers one of  
11 the boundaries?

12 A. That would be less likely. If you talk about people  
13 with severe haemophilia and they have a gene deletion so  
14 that they can't make any Factor VIII protein at all,  
15 which is a significant percentage of patients, then that  
16 Factor VIII level won't, of course, increase as an acute  
17 phase protein because even if the patient has got  
18 pneumonia, they haven't got a codable Factor VIII gene  
19 that can make any protein under any circumstances. So I  
20 think for very severely affected patients we wouldn't  
21 expect the level to change but this dynamic with the  
22 milder patients is seen from time to time, depending on  
23 how the test is done and depending on the general health  
24 of the patient. For instance, we have had patients who  
25 have developed arthritis in older age, so they have got



1       ongoing inflammation. Their background Factor VIII  
2       might have gone from 20 to 30.

3   Q.   Yes. Of course, my example, 7 to 12, wasn't a good one  
4       because I was really looking for something which  
5       obviously could be within one category or the other.  
6       But does what you said also hold true for somebody whose  
7       measurement might be, say, 4 one day and then 8. You  
8       would just say that that is very unlikely?

9   A.   I think these variations are much less likely in the  
10       severe and moderate categories.

11   Q.   I wondered too whether the definition or the  
12       classification of a patient's haemophilia as mild,  
13       moderate or severe depends only on these sorts of levels  
14       or are there other factors, that can, as it were, put  
15       a patient into a different category?

16   A.   It's complex. It is traditionally based on the level of  
17       the Factor VIII. Some patients are in a situation  
18       where -- the phrase we used -- "phenotype does not equal  
19       genotype", and what that means is there are some  
20       patients where they might have extremely low levels of  
21       Factor VIII and yet they would not bleed as often as you  
22       might expect, given that very low level. Some of these  
23       patients, intriguingly, it turned out that they have  
24       already acquired another gene for clotting.

25       So I have one patient in particular where from his

1 mother he has acquired a severe haemophilia gene -- we  
2 know this little boy's uncle had severe haemophilia and  
3 died of AIDS -- but from his father I have established  
4 that he has happily inherited a thrombosis gene. So the  
5 end result clinically, although he has got no  
6 Factor VIII, his father's thrombosis tendency has made  
7 his severe haemophilia bleed much less than you would  
8 expect. So clinically he behaves like a mild  
9 haemophilia patient.

10 I'm just making the point that you can't always tell  
11 how often somebody is going to bleed just by looking at  
12 their Factor VIII level. Of course, another much more  
13 common dynamic would be how active is the patient. We  
14 had some children who were very, very active and very  
15 sporty and they would bleed quite a lot, and yet some  
16 other children would spend their summer holidays in  
17 front of Sky Television and not do too much and they  
18 wouldn't bleed particularly often.

19 So I think a lot of this is related also to  
20 lifestyle activities and also particularly to how often  
21 did they bleed in the very first few years of life  
22 because that's a great determinant of subsequent  
23 bleeding, if they develop what we call a "target joint".  
24 Let's just say that by the age of three they have had  
25 two or three bleeds into one particular joint. Then

1       they are much more likely than other children to get  
2       bleeds later on in life.

3    Q.   The process you are describing of a patient whose  
4       bleeding problems are not as serious as their level  
5       might suggest, does the converse hold true? Are there  
6       patients who have much more serious bleeding problems  
7       than their resting level might suggest?

8    A.   The bleeding patterns in haemophilia are in any case  
9       complex because they are variable. Although you may  
10      read that patients get of the order of 30 or 40 bleeds  
11      a year, an absolute characteristic which any haemophilia  
12      patient will recognise is that you could go through  
13      whole weeks with no problems and you then might have  
14      a run of several bleeds over a few weeks.

15        A particular precipitating factor, especially in  
16      children, would be if you had a concurrent infection.  
17      So a very common clinical dynamic in a child would be  
18      a mother would bring in an eight year old boy with a bad  
19      bleed into the knee and then say, "He has been  
20      absolutely fine but he has had an ear infection for the  
21      past week." There are scientific reasons to support the  
22      idea that bleeding in haemophilia is more likely to  
23      happen if you have a concomitant infection. Again these  
24      things are complex. Rarely, in some mild patients, they  
25      can develop inhibitors, antibodies, against Factor VIII

1       which would then convert them into a more severely  
2       affected patient.

3     Q.   And have these levels at which the classifications  
4       change, particularly the level of 5, which appears to be  
5       the border between moderate and mild, changed within the  
6       past few decades?

7     A.   I don't think so particularly.  I mean, clinically, we  
8       have always worked off the criteria that you have in  
9       front of you there.  I mean, these things have a wider  
10      relevance too because, of course, haemophilia centres,  
11      their funding is related to the levels of severity  
12      usually of the patients that they are looking after.  So  
13      this has been a matter of some interest to all the  
14      commissioning bodies because the level of payment that  
15      they would have to make to each centre would normally be  
16      in two parts.  It would, firstly, be based on the number  
17      of severely affected and moderately affected patients --  
18      I don't know whether this situation pertains in Scotland  
19      but it certainly does in England -- and then there would  
20      be a separate component related to the individual usage  
21      of coagulation factor concentrates.

22           This is something which has exercised the  
23      commissioning bodies quite a lot.  You know, they would  
24      say to a centre, "When you say you have got 40 severely  
25      affected patients, can we be absolutely clear what

1 classification you are using to define the phrase  
2 'severely affected?'" And for each severely affected  
3 patient there would be a payment of maybe  
4 £4,000/£5,000/£6,000/£7,000 a year for the clinical care  
5 that that patient received. That would exclude any cost  
6 relating to coagulation factor concentrates, which, of  
7 course, could be extremely high.

8 Q. So, just as an example, these considerations about how  
9 you grade someone's haemophilia, could somebody with  
10 a level of 10 international units per decilitre still be  
11 classified as having moderate haemophilia?

12 A. No, not if it was 10. You would be expected to call  
13 them mild. That's not to say they might not bleed a lot  
14 more often than other mildly affected patients. One of  
15 my mild patients started to be goalkeeper for the local  
16 Sunday morning football team, so he bled quite  
17 significantly for a while, not because of his -- well,  
18 because of his haemophilia but although he was only  
19 10 IU per DL, he was obviously participating in an  
20 activity that made him a lot more likely to bleed than  
21 other mildly affected patients of the same level.

22 Q. I'm conscious it is after one o'clock, so just one more  
23 question, I think, on this, which is probably quite  
24 a complicated answer, I suspect, but it is rather a daft  
25 layperson's question. I think we, as lay people, can

1 understand that the problem, if you lack Factor VIII or  
2 Factor IX, is that your blood doesn't clot in the same  
3 way as somebody whose levels are normal, but what is it  
4 that causes the spontaneous bleeding to start, which  
5 seems to be an event before the clotting problem?

6 A. It's not such a daft question as you say. It's quite  
7 complicated, as you did say.

8 We don't know why, I think it would be true to say,  
9 haemophiliacs don't bleed more often. They have no  
10 Factor VIII, so why do they only bleed naturally 30- to  
11 40-ish times per year? We have evidence they are more  
12 likely to bleed when they are infected. That's probably  
13 because the infection affects the way their platelets  
14 work, which is the other part of the clotting mechanism  
15 apart from clotting factors.

16 We have evidence that bleeding is much more common  
17 in a joint when the joint has been previously damaged.  
18 I think that this is probably the most obvious answer to  
19 your question, that actually microbleeding is probably  
20 happening the whole time in joints and muscles, which is  
21 the site of main pathology in haemophilia.

22 But the patient with a joint that's quite sore on  
23 a day-to-day basis because of previous bleeding and then  
24 the inflammation that follows that can't actually work  
25 out whether the minor ache in his knee is due to his

1       arthritis or is it due to a new bleed. Some of these  
2       episodes of bleeding will reach a greater threshold,  
3       where the bleeding is obviously very significant, but  
4       I think our suspicion is that a lot of episodes of  
5       bleeding are subclinical and attributed by the patient  
6       to the inflammation that he experiences day to day  
7       because of all the previous joint damage. Certainly if  
8       you go to an operation on somebody's joint, which I have  
9       done, and you look at it as the joint is explored  
10      through a telescope, you can see that the lining of the  
11      joint looks like mushroom risotto, for want of a better  
12      word, and that it is very bloody.

13           So one would expect that these joints have been  
14      damaged by bleeding early in life. The joint reacts  
15      by -- the synovium, the lining of the joint, becomes  
16      much more friable and, like fronds of sea weed, waves in  
17      the cavity of the joint and, naturally enough, that can  
18      be a focus for very, very tiny episodes of bleeding.

19           Obviously, if the patient then has trauma -- about  
20      half of our patients would come in and say, "I have  
21      a bleed. I know why. I banged my elbow coming down the  
22      stairs." About half of them would say, "I woke up this  
23      morning, I have a bleed and I don't know why." So these  
24      things are by no means as well understood as you might  
25      think.

1 THE CHAIRMAN: Ms Dunlop, I rather think the answer,  
2 comprehensive as it was, won't meet everyone's demand  
3 for information, so we should probably stop there for  
4 lunch.

5 Dr Winter, I have only two things I would like you  
6 to think about a little before you come back. One is  
7 the question of the percentages recognised as mild,  
8 moderate and severe. In the preliminary report we quote  
9 a range taken from a National Health Service publication  
10 website, which gives mild as between 5 and 30 per cent.  
11 You have suggested that the 50 per cent level has been  
12 recognised and used consistently for a long time. So  
13 I might like to explore that just a little. It may not  
14 be significant in the long run but one would wish to be  
15 accurate about it.

16 The other thing relates to the funding arrangements  
17 that you have identified. One would be surprised if  
18 National Health Service funding had been consistent in  
19 any respect over a long period of time and I would just  
20 like to find out the period by reference to which the  
21 current arrangements existed.

22 (1.10 pm)

23 (The short adjournment)

24 (2.00 pm)

25 THE CHAIRMAN: Now, Dr Winter, is there a clear and easy



1       answer to either of the points made? In the first place  
2       the range. It's my impression having read documents  
3       over a very long period of time that at both ends of the  
4       range there have been changes, 2 per cent I seem to  
5       remember being used as the measure of severe haemophilia  
6       early on, though 1 per cent is certainly a steady figure  
7       at the later period, and then the 30 per cent figure  
8       that we quote in a preliminary report is rather  
9       different from yours.

10           But what is the position?

11   A. I think there has been a change, as you imply. The body  
12       that would be responsible for the classification would  
13       be the International Society of Thrombosis and  
14       Haemostasis, ISTH, and my understanding is that they  
15       have classified or changed the classification down to  
16       a level of 30 for mildly affected patients.

17           As I pointed out, there might be some clinical  
18       arguments suggesting that that might not necessarily be  
19       wise because it might not capture all people who might  
20       bleed easily at rare times of their life, but I think  
21       that's the correct ISTH classification as I understand  
22       it, and then certainly at the other end of the scale,  
23       particularly because of all the financial implications  
24       of what you call severe haemophilia, the consensus is  
25       that the level is less than 1.

1           I think, because of the clinical argument, in the  
2           national service specification we included levels of up  
3           to 50 IU per DL because I recall receiving some  
4           correspondence along the lines of why weren't we  
5           following the ISTH classification, and that is the  
6           reason why, because we were concerned that we should  
7           capture the 30 to 50s to make sure that they had proper  
8           care at the rare times in their life when they might  
9           bleed.

10   THE CHAIRMAN: Is it entirely coincidental that you were  
11           choosing a range that would provide for the largest  
12           number of capitation fees, as it were.

13   A. No, the way the capitation works usually -- as I say,  
14           this is not a national system, it is just a system that  
15           was followed by an awful lot of commissioning bodies and  
16           it recommended in the national service specification --  
17           is that 90 per cent of all the problems in the  
18           haemophilia centre clinically would be taken up with the  
19           severe and moderately affected patients.

20           So the usual arrangement would be that there would  
21           be two scales of charge. I stress this is just for the  
22           clinical component. And for a patient with severe or  
23           moderate haemophilia, that charge might be 5 or £6,000  
24           a year. For a mildly affected patient, who might be in  
25           the centre only once a year and have no problems, that

1 set registration fee might only be a few hundred pounds.  
2 So actually the commissioning bodies were not greatly  
3 exercised as to how we classified the mild. They were  
4 extremely exercised as to how we classified the other  
5 end.

6 THE CHAIRMAN: Perhaps to round this off, we have noticed  
7 a very considerable increase in the number of  
8 von Willebrand patients registered over time. Is that  
9 in the same sort of category of event?

10 A. Von Willebrand is not necessarily an easy disease to  
11 diagnose. I'm sure it is true that we are diagnosing  
12 more mildly affected patients than we used to. The same  
13 principles apply. These patients can have problems at  
14 certain times in their lives. And that would be the  
15 clinical driver for that expansion of numbers. And  
16 I don't think it would be true to say that there was  
17 a financial driver from a centre because these patients  
18 would only have carried with them a small degree of  
19 funding.

20 THE CHAIRMAN: Ms Dunlop?

21 MS DUNLOP: Dr Winter, I wanted to ask you just a little bit  
22 about another haemophilia treatment related question and  
23 it is the difference between home therapy and  
24 prophylaxis. I think we understand in general terms  
25 that home therapy came first and that was an idea that

1 the patient, knowing that a bleed was coming or was  
2 happening, would be able to do something about it and  
3 then care moved on to prophylaxis. Is that right? But  
4 I thought perhaps you could say a little bit about that  
5 sequence.

6 A. No, it really was a major revolution when the  
7 concentrates became available, perhaps at some stage in  
8 my testimony we can talk about cryoprecipitate and the  
9 issues around cryoprecipitate treatment. But when the  
10 concentrates were introduced in the early 1970s, the  
11 major revolution that came with it is because the  
12 concentrates were so much easier to use and in  
13 particular, unlike cryoprecipitate, they did not need to  
14 be deep frozen, and in that day and age nobody had  
15 a freezer in their homes.

16 So Factor VIII concentrate and Factor IX concentrate  
17 opened the door for home therapy because you could issue  
18 concentrate that was small volume and that could be kept  
19 in a domestic refrigerator. So it was really from that  
20 time that the concept of comprehensive care evolved, and  
21 usually what happened was that from the age of about  
22 three, depending on the state of the child's veins and  
23 the competence of the parents, you would teach the  
24 family how to inject and the patient would go on home  
25 therapy for the rest of his life and would then come in

1 every two to three months, depending on the severity of  
2 the disorder, for a comprehensive clinical review.

3 Prior to that, schooling in particular had been so  
4 variable an experience for children with haemophilia  
5 that there was actually a dedicated boarding school in  
6 Hampshire for patients with haemophilia, called the Lord  
7 Mayor Treloar School, where many of my patients went.  
8 When the concentrate came in, the boarding aspect of  
9 that school was no longer deemed to be necessary.

10 So this was a very major breakthrough. It enabled  
11 patients to get control back over their lives, to be on  
12 home therapy, and in retrospect we now call this period  
13 "the golden interval". This would be sort of 1973 until  
14 we entered the years of viral contamination problems,  
15 say five or six years later.

16 In retrospect it seems like a golden time where here  
17 was a disease which for 2,000 years had had no treatment  
18 and then suddenly there had been this enormous quantum  
19 leap forward. People were getting decent jobs, having  
20 a decent amount of time at school, getting early  
21 treatment at home for their bleeds. That was causing  
22 less joint problems.

23 So everything appeared to be a major break through.

24 Now, the prophylaxis was really parallel with that.  
25 The practice of prophylaxis, as pioneered by the Swedish

1 physicians, really relates to a particular observation.  
2 If you have a child with severe haemophilia and their  
3 baseline Factor VIII level is nothing, that child will  
4 bleed spontaneously and regularly. If you have a child  
5 that is born with a level of say, 5 per cent of 5 IU per  
6 DL, that child may bleed but he will not bleed  
7 spontaneously. So the theory behind prophylaxis was if  
8 we give children regular Factor VIII, say three times  
9 a week, although it won't normalise their Factor VIII  
10 levels, it will in effect change their baseline  
11 0 per cent into a baseline of 5 per cent so that they  
12 will not bleed spontaneously. They will still bleed if  
13 their sister kicks them but they won't bleed  
14 spontaneously. That's the basis of the widespread  
15 practice, in Europe -- it has never been very widely  
16 practised in the US until very recently -- of  
17 prophylaxis. It is the regular administration of  
18 Factor VIII or Factor IX for severely affected patients  
19 to prevent spontaneous episodes of bleeding.

20 Q. If we look at the 1970s for a start, the people we saw  
21 in the television programme injecting themselves at  
22 home, am I right in my understanding that that was not  
23 prophylactic treatment, that was the initial form of  
24 home therapy, that they would be injecting themselves  
25 because they had a feeling that a bleed was coming?

1 A. I think the prophylactic programmes didn't really get  
2 going until the 1980s because as I say, it was the  
3 Swedish experience that triggered other European doctors  
4 to get going and that wasn't really available until the  
5 1980s.

6 Q. So for a person like the people in the television  
7 programme, who is giving themselves an injection because  
8 they feel a bleed is coming, I wondered if we can take  
9 joint bleeds first, does the patient just have  
10 a sensation in the joint that all is not well, and  
11 I wondered also how that is handled as between a parent  
12 and a child. How can the parent tell that the child  
13 needs an injection?

14 A. I think some adult patients will speak to you and the  
15 analogy would be with epilepsy. They would say there is  
16 a very early and short lasting phase of a few minutes  
17 where they have what you might call an aura that all is  
18 not well. But that would then be followed very quickly  
19 by obvious clinical signs of the bleed, wherever in the  
20 body it might be. For joint bleeding, which is the  
21 major clinical problem, it would be pain, it would be  
22 swelling, a particular feature we teach is that, because  
23 there is blood in the joint it is very hot. So we teach  
24 the families to rub the back of the hand over the  
25 affected joint and happily we have two of most joints.

1       So we teach them to compare the good knee with the bad  
2       knee. The bad knee will be a lot hotter. That's a very  
3       good sign of an acute episode of bleeding.

4               Then for children -- it is a question that the child  
5       will not be -- the child may be in distress, in  
6       particular if you passively try and move the joint. Say  
7       you have noticed that the child is limping, you are  
8       suspicious that your son might have a bleed, if you try  
9       and straighten the knee and the ankle, the child will  
10      resist because it is painful. So as well as being hot  
11      and painful to touch, he won't want you to move the  
12      joint with the bleed in it. So that's the way we teach  
13      parents how to recognise an episode of bleeding. The  
14      parents often say to us, "How on earth am I going to  
15      know?" But actually in day-to-day home life it is  
16      pretty obvious that the child does have a bleed, if it's  
17      into a joint or a muscle. It is pretty obvious.

18   Q.   What about cerebral bleeding?

19   A.   Cerebral bleeding these days thankfully is much, much  
20      less rare [sic] but major teaching points for families  
21      before they go on home therapy would be that there are  
22      several times when it's absolutely of the utmost  
23      importance that the centre should be contacted  
24      immediately, day or night, and that would be if the  
25      child has a significant head injury. If the child loses



1       consciousness, if the child starts to vomit after head  
2       injury. And then another major area would be we worry  
3       a lot about bleeding into the mouth. So these would be  
4       the big four major teaching points for families. If any  
5       of these things are happening day or night, you must get  
6       in touch right away because we would wish to administer  
7       very quick clotting factor but also to clinically assess  
8       the child.

9     Q. Yes. I think the point you were making was that  
10       cerebral bleed is much more rare now. Is that correct?

11    A. It is. Of course, for many, many years it was the  
12       leading cause of death and it does still happen but  
13       thankfully -- I guess it is because of better education  
14       and the availability of earlier treatment -- the  
15       incidence is very much less than it was say 30 years  
16       ago.

17    Q. Right.

18    THE CHAIRMAN: I think, Ms Dunlop, if we just substitute  
19       "common" for "rare" in 74/16, that will solve the  
20       problem.

21    MS DUNLOP: I wanted to ask you for some of your comments  
22       about the television programme. I know that you saw a  
23       bit of it again today and you have seen it at home. You  
24       have covered this in your second statement to us, if we  
25       look at [\[PEN0150292\]](#), and turn to page 293, you say that

1       you have reviewed the World in Action documentary and  
2       have the following comments. The opening scenes of  
3       various British teenage haemophiliacs. I think they  
4       were all actually from the Newcastle area. Is that  
5       right?

6    A. I believe so.

7    Q. And Newcastle was very much at the forefront of the  
8       development of home therapy in the 1970s. Is that  
9       correct?

10   A. It is.

11   Q. And that was largely due to the then centre director,  
12       Dr Jones?

13   A. Yes, and also the senior nurses there who were also very  
14       go ahead in the move towards home therapy.

15   Q. "These scenes underscore the very great improvement in  
16       quality of life afforded by the new concentrates."

17       Perhaps we can all remember that, I think it is the  
18       boy, Neil Robinson, who has had 98 visits to hospital in  
19       one year and three months off school. So I think we can  
20       see for ourselves that that has effected a huge change?

21   A. Since it is such an important point, can we just maybe  
22       walk through what it would be like to have one episode  
23       of treatment on cryoprecipitate, because this was the  
24       situation that arose in 1983 and 1984, as we shall  
25       discuss: should these children and other patients be

1 switched back from concentrate to cryoprecipitate?  
2 There was very significant patient opposition and  
3 Haemophilia Society opposition to any such proposal. We  
4 know -- and you have probably already heard evidence --  
5 that although cryoprecipitate was the first ever  
6 effective treatment, it had some clinical problems  
7 attached to its usage, because firstly it was high  
8 volume. So it was difficult to give to children and  
9 difficult to inject. It was very laborious to draw up.  
10 It might take two people one hour to prepare it from  
11 about 20 frozen bags, which had to be pulled out of the  
12 deep freeze and put into a water bath to thaw and then  
13 reconstituted. You didn't know how much Factor VIII was  
14 in each bag, so you couldn't scientifically calculate  
15 a dose for the patient and it could have quite  
16 significant side effects, in terms of shakes and shivers  
17 and chills.

18 Added to that, let's just walk through a realistic  
19 event in the life of a patient who has a bleed and they  
20 need to come to hospital for some cryoprecipitate.  
21 There are 168 hours in a week; the haemophilia centre  
22 staff are probably there for 50. There would be a good  
23 chance that the patient would have to come out-of-hours.  
24 That would mean going to a casualty department. It  
25 would be extremely unlikely that the doctor seeing them

1       knew anything about haemophilia, which meant there would  
2       probably be a delay while the doctor worked out what he  
3       was supposed to do and ask. The patient would probably  
4       tell the doctor what he had to do. The doctor would  
5       ring the consultant haematologist on-call who would say,  
6       "This patient needs to have 20 bags of cryoprecipitate.  
7       It's available from the blood transfusion department,  
8       they will show you how to give it."

9       The doctor, when he found the time, would consult  
10      the blood transfusion department, who were also very  
11      busy because they were crossmatching blood for emergency  
12      patients and eventually the cryoprecipitate might be  
13      prepared by the doctor or by the technician.

14      The doctor would probably then offer to do some  
15      blood tests to see if the patient still had haemophilia,  
16      which wasn't very relevant. He would almost certainly  
17      want to keep the patient in overnight, he might want to  
18      gain venous access with a very large needle rather than  
19      the small butterfly needle which was perfectly suitable.  
20      By this stage it is probably four to six hours after the  
21      patient has arrived, and -- I have laboured this point  
22      because it was a very harrowing experience. I have  
23      never, in all my years of haemophilia, ever heard  
24      a patient say, "I went to casualty with a bleed and  
25      everything went well". It never does, for pretty

1 obvious reasons. These departments are very busy. The  
2 doctors know nothing about the condition, and  
3 haemophilia is rare.

4 So not only was cryoprecipitate not a very good  
5 medical treatment, for the patients it was a pretty  
6 dreadful experience having to go to hospital to have  
7 that treatment. So that was why, when one spoke to  
8 patients or you went to residential Haemophilia Society  
9 weekends, there was a very strong, very strongly  
10 expressed view from the patients of, "We want  
11 concentrate, not cryoprecipitate and we want it to be  
12 British concentrate, not American".

13 Q. Yes. Dr Winter, there are a number of different strands  
14 in that, most of which I'm hoping to pick up, but while  
15 we are on the topic of cryoprecipitate, you actually  
16 also say in paragraph 1.8 that it was associated with  
17 the chills and shakes. Which I think is a reaction you  
18 say to pre-existing antibodies to plasma proteins. So  
19 a sort of immune response. Is that correct?

20 A. Yes, some patients who have had multiple previous  
21 transfusions, which includes most haemophiliacs, can  
22 often react with protein impurities in the  
23 cryoprecipitate and that can make the administration of  
24 the cryoprecipitate really quite an unpleasant  
25 experience for the patient. Over the period of an hour

1       they might shake and shiver and run a fever and have  
2       muscle aches and feel generally unwell.

3    Q.   In your second paragraph, at 1.5, if we can go back to  
4       that, please -- that's 0293 -- you say:

5               "The programme sets out visually what was already  
6       clear at the time: blood products derived from  
7       commercial donations are significantly more likely to be  
8       associated with viral infections."

9               I think near the beginning of the programme we are  
10       told that paid donors have six to 13 times the risk of  
11       having hepatitis, and then doctor Garrott Allen goes on  
12       to say -- and I appreciate this is a slightly different  
13       point -- that commercial concentrates have a six to 70  
14       times greater risk of carrying hepatitis than product  
15       made from donors who are volunteers; although he goes on  
16       to say, instances of volunteers, friends and relatives,  
17       which perhaps is rather more low level than anyone was  
18       really achieving at that time.

19              Then in his second letter, of 13 February 1975,  
20       which we don't seem to have, he says that the attack  
21       rate -- that is the rate of people who suffer  
22       hepatitis -- is astounding. The programme seems to be  
23       talking about pools of around 12,000 donors; we can see  
24       all this from the transcript, but just to take it  
25       shortly, the programme discusses taking half a litre

1 from each donor and saying that the pool size at that  
2 point could go up to 6,000 litres. So we would then be  
3 talking about 12,000 individuals, obviously. But indeed  
4 the pool sizes that I have seen quoted go very much  
5 higher even than 12,000 individuals. There has been  
6 mention of pool sizes in the 20,000 and even, I think on  
7 one occasion, 30,000. So --

8 A. That was my understanding, that by the time concentrate  
9 production was well underway by the mid 1970s, the pool  
10 size would be at least 20,000 and sometimes higher.

11 Q. Yes. This is a point that we need to look at in much  
12 more detail, I think, when the Inquiry comes to look  
13 properly at the topic of Hepatitis C, but would it be  
14 correct to say that in essence you do reach a pool size  
15 where all the lots prepared from that pool will have  
16 hepatitis, and I'm talking about Hepatitis C?

17 A. The mathematics is actually quite straightforward.  
18 There are studies showing that the incidence of the  
19 virus that we now know as Hepatitis C in US donor plasma  
20 in the 1970s was of the order of 1 per cent. So if you  
21 were giving somebody with haemophilia a treatment that  
22 came from 20,000 donors, and one in 100 of them had  
23 Hepatitis C, each time the patient had a treatment they  
24 were getting a couple of hundred, at least, different  
25 Hepatitis C infections, and of course this treatment was

1       being given to them maybe 30 to 50 times a year, or even  
2       more often than that.

3               So our understanding, as haemophilia doctors, is  
4       that it was absolutely inevitable that if you had  
5       Factor VIII concentrate in the 1970s, particularly from  
6       US donor plasma, it was absolutely inevitable that you  
7       were getting a number of different Hepatitis C  
8       infections, and clinically quite an interesting  
9       observation that has been made is Hepatitis C comes in  
10      different genotypes, six different genotypes -- I say  
11      quite often, there have been quite a few experiences in  
12      my centre and in a number of other centres that we have  
13      treated a patient with a known genotype, say genotype  
14      number 1, and we have cleared that genotype and retested  
15      him to be then told by the viral laboratory we have now  
16      found another genotype. So our understanding based on  
17      this mathematics is that these patients were multiply  
18      infected with Hepatitis C, as we now call it.

19   THE CHAIRMAN: Does the arithmetic go even further? If you  
20      are taking 20 bags out of the freezer, I suppose it is  
21      unlikely that the constituents contributing to each of  
22      those bags would be the same.

23   A. Yes, that was the difference in risk, it was 1 in 20  
24      rather than the other...

25   THE CHAIRMAN: Yes.



1 MS DUNLOP: There were certain points made in the programme  
2 about what we might call the donor constituency shown in  
3 some of the blood centres, in particular alcohol  
4 consumption, malnutrition among the donors.

5 I understand that that is relevant to whether the donor  
6 should be giving blood at all, but is that relevant to  
7 the recipient, somebody receiving blood products made  
8 from blood donated or plasma donated by those donors?

9 A. Not in terms of the quality of the Factor VIII that  
10 would be in the eventual batch. That would be  
11 unaffected by those health issues. Obviously, the major  
12 consideration was the viral status of any donors, but  
13 whether the donor was underweight or drank alcohol would  
14 be of less significance.

15 Q. In fact a bit of a red herring, the references to  
16 alcohol and the pictures of people with bottles sticking  
17 out of their pockets, maybe.

18 There also perhaps was a bit of the blurring of the  
19 edges, understandably, given that it was 1975, but at  
20 one point hepatitis is spoken of as an illness that can  
21 make you seriously ill with jaundice or chronically ill  
22 or something that you can get from insanitary  
23 conditions. Is that a bit of a blurring of the  
24 different types of hepatitis?

25 A. I felt -- I had seen the World in Action documentary

1       some years ago, but looking at it again recently,  
2       Professor Zuckerman and the others really are talking  
3       about Hepatitis B. So let's be clear.

4             In the mid 1970s -- let's just say concentrate had  
5       been in use for two to three years -- many patients with  
6       haemophilia were displaying blood tests suggestive of  
7       a hepatitis-like pattern in their liver function blood  
8       tests. They were, by and large, very well. It was  
9       possible to demonstrate that maybe 5 per cent, perhaps  
10      slightly higher than that, had circulating levels of  
11      Hepatitis B; a small per cent could be demonstrated to  
12      have Hepatitis A, so-called infectious hepatitis; about  
13      20 per cent could be shown to have antibodies against  
14      Hepatitis B and had therefore been exposed to  
15      Hepatitis B, but for the majority of these other  
16      patients, who clearly had a hepatitis-like picture on  
17      their liver function blood tests, all the standard  
18      Hepatitis A and B markers were negative.

19            So it was for this reason that haemophilia doctors  
20      started to use this phrase "non-A non-B hepatitis," the  
21      implication being these clinicians were saying, "It  
22      looks to us, even though the patients are well, as if  
23      they have a third type of hepatitis, which we will call  
24      'non-A, non-B'." When you get non-A non-B hepatitis,  
25      you can become clinically unwell but it is not

1       necessarily a very common event, it is not as common as  
2       having Hepatitis A or B when you normally feel  
3       thoroughly unwell at the time of the infection.

4           One of the features of non-A non-B hepatitis is that  
5       it only quite unusually gives you clinical symptoms at  
6       the time of the infection. It is just more likely to  
7       get into the blood stream and inflame the liver, and  
8       that indeed is what happened to the majority of the  
9       patients.

10           So I think it is striking in the documentary that  
11       they are really not talking about non-A non-B, but if  
12       you like, they should have because it is by far the most  
13       relevant type of hepatitis for these patients.

14   Q.   Yes, and we will come on in a moment to look at some of  
15       the articles that we asked you to consider from the  
16       1970s, but just to stay with your paragraph 1.5, I noted  
17       also what you had said, that:

18           "The practice of blood collection from developing  
19       countries, such as Africa, was always denied by the  
20       commercial manufacturers but there was subsequent  
21       evidence from the study of Hepatitis C genotypes that  
22       suggested that blood of African origin may have found  
23       its way into pools."

24           I just wanted to show you, and to show the Inquiry,  
25       another extract from Douglas Starr's book. It is

1 page 233, which is [\[LIT0012901\]](#) at 2903. By way of  
2 illustration of the point made about plasma from the  
3 Third World, he discusses the centre that used to exist  
4 in Haiti. By the beginning of the 1970s, a likely trade  
5 was already underway. The first centre to receive  
6 public attention was a facility in Haiti called  
7 Hemo-Caribbean, the most impoverished capital in the  
8 western hemisphere, Port Au Prince, and it discusses the  
9 mechanics of how the plasma was collected and taken for  
10 fractionation; about the payments, \$3 a litre or about  
11 three times the average daily wage, but the condition of  
12 the donors was deplorable.

13 In fact, we see, if we go a little bit further down  
14 the page, what happened to that particular one was that  
15 Baby Doc Duvalier was stung by some of the criticism,  
16 and after only 22 months of the centre's 10-year  
17 contract, he closed Hemo-Caribbean. So it would seem,  
18 as you say, there is indirect evidence by way of the  
19 genotypes that have been found but there is direct  
20 information as well about there having been plasma  
21 collection centres in Third World or developing country  
22 locations.

23 You presumably knew that there had been this  
24 facility in Haiti?

25 A. I was aware of the Haitian facility and that the biggest

1       plasmapheresis plant in the world was in Nicaragua.

2   Q.   Yes, which is also discussed in the Douglas Starr book.

3   A.   There is data about Hepatitis C genotypes. We started

4       to talk about matters haepatological, on which I'm not

5       an expert.

6   Q.   We are going to have quite a lot of evidence about that

7       in the autumn.

8   A.   Okay, but let me, if you wish, just say that my

9       understanding is that Hepatitis C comes in six

10       genotypes. Genotypes 1, 2 and 3, are usually found in

11       European and American peoples. 4, 5 and 6 are more

12       often from the developing world, particularly Africa,

13       and a paper was published by the group of

14       Professor Eric Preston in Sheffield on a quite large

15       number of patients with haemophilia, more than 100,

16       showing that quite a significant number of those

17       patients, their Hepatitis C was of genotypes 4, 5 or 6,

18       the implication being that that virus might have come

19       from donors who lived in Africa rather than America.

20   Q.   Yes. Just before we leave the programme, Dr Winter, the

21       whole programme, in fact both the programmes, are

22       interesting but I wanted just to highlight a few of the

23       comments made. If we could look at the transcript,

24       [\[PEN0131400\]](#), and if we could go to the second page, so

25       1402, thank you. What Professor Zuckerman says there:

1           "Hepatitis or jaundice is a particularly interesting  
2           infection because the severity of the illness ranges  
3           from a very mild form of infection, perhaps with trivial  
4           symptoms, to an attack of jaundice with quite a lot of  
5           disability which may last for some weeks or perhaps even  
6           months, and is associated with a significant death rate.  
7           In addition, in a number of cases it may progress to  
8           chronic liver danger and may end up in a condition such  
9           as chronic active hepatitis or cirrhosis of the liver."

10           In essence what he is saying in that paragraph  
11           beginning "in addition", is really non-A, non-B or  
12           Hepatitis C?

13   A.   It is, yes.

14   Q.   So perhaps, unsurprisingly given his expertise, that  
15           seemed to me to be spot-on; is that reasonable, what he  
16           is saying there?

17   A.   Yes, I think it mirrors the comments I have just been  
18           making to you, that the clinical presentations of viral  
19           hepatitis of whatever type are variable, and that can  
20           often -- particularly with non-A non-B -- go on to  
21           chronic illness which eventually, after a good many  
22           years, can be very significant in terms of damaging the  
23           health of the patient.

24   Q.   Yes. Then if we could look at -- I think it will be  
25           1409, please -- Dr Garrott Allen. Unfortunately I have

1 a copy which is numbered -- I'm not even sure that it is  
2 paginated in the same way.

3 Could we go two pages before that, please? Yes,  
4 that answer that's just at the foot of the screen, where  
5 Dr Garrott Allen says:

6 "We really don't know how many viruses are involved.  
7 There are at least two and perhaps more. The major one,  
8 Hepatitis B, is detected fairly well. It appears that  
9 at least two-thirds more infectious bloods or donors  
10 will escape detection by the use of this test because  
11 the test does not apply to their virus."

12 I think it follows from everything you have said  
13 that that's spot-on as well?

14 A. Absolutely correct.

15 Q. Then Dr Mosely on the next page, he says -- it is that  
16 answer there, beginning "well" that I'm interested in.  
17 Dr Moseley is asked about the chances of catching  
18 hepatitis from using a product made from the plasma of  
19 these type of people, and Dr Mosely says:

20 "If it is a blood product that cannot be  
21 sterilised..."

22 This is Dr Mosely of UCLA:

23 "... that is true for the clotting factor  
24 concentrate; it can't be sterilised. The risk is  
25 probably 100 per cent if the individual is susceptible."

1           I'm not sure quite what he means by "susceptible".  
2           Does that mean: doesn't have antibodies?  
3    A.   I think so, yes.  
4    Q.   So for somebody who doesn't have antibodies, the risk of  
5           getting hepatitis from a clotting factor concentrate is  
6           probably 100 per cent. That was accurate as well, was  
7           it?  
8    A.   Well, it mirrors the comments I have made to you a few  
9           minutes ago.  
10   Q.   Yes. Then lastly I wanted to look at what was said by  
11          one of the commentators from the Haemophilia Society.  
12          I think you recognised some of the people in the  
13          programme, Dr Winter, is that right?  
14   A.   I did. It was very poignant really because I knew some  
15          of those people who had haemophilia and it was very  
16          poignant to see them discussing whether these viruses  
17          had any relevance to them which, of course, in due  
18          course they did.  
19   Q.   A particular comment I wanted to look at is from  
20          committee member number 4 and it's on 0131418. Really  
21          quite a considered comment from someone thinking about  
22          the different dilemmas saying:  
23                "One of the things I noticed on that programme was  
24                the sort of ethical problems and social problems which  
25                it posed, and that's the question whether the less



1       fortunate people should be used, or used as donors.  
2       Whether we should take blood from them; whether  
3       commercial firms should take blood from them. And I'm  
4       quite sure that the answer for the haemophiliac in this  
5       country would be: he is not really too bothered about  
6       where the blood comes from as long as he has that blood  
7       concentrate to keep him going, and in some cases to keep  
8       him alive. No doubt whatsoever in my mind. Of course,  
9       he would much sooner, if there were sufficient number of  
10      well disposed people, thousands upon thousands of them  
11      already in this country would come along and regularly  
12      and give blood, who weren't undernourished and weren't  
13      alcoholics, I am sure they would be delighted."

14               Does that really encapsulate an attitude you  
15      recognise as well?

16    A. I do recognise that. I mean, in my centre, for various  
17      reasons, the supply of NHS concentrate was extremely  
18      limited. I would think at least 90 per cent of the  
19      concentrate we used was commercial in origin, and in all  
20      our interactions with the Regional Blood Transfusion  
21      Service and with the BPL plant at Elstree, I had always  
22      understood that the limiting factor in the production of  
23      NHS concentrate was not related to the number of donors.  
24      The problem was the capacity of the plant to produce the  
25      clotting factor concentrate. So, if you like, you know,

1       there was not a particular issue about there being  
2       enough blood donors. That was not the limiting factor  
3       as to why there was not more NHS-produced concentrate  
4       available at that time. It was to do with the capacity  
5       at Elstree.

6    Q. I suppose too the committee member is saying that the  
7       bottom line perhaps, particularly for someone severely  
8       affected by haemophilia, is that this product makes such  
9       a huge difference to his life that these considerations  
10      about source and so on took second place?

11   A. We heard on the video, even the man who said, "I have  
12      actually been sick with this concentrate because I have  
13      hepatitis, but I'm still going to go on with it".  
14      That's a mirror of, as I have been trying to reflect in  
15      my comments, the quite extraordinary change of quality  
16      of life for these people whose existence had really been  
17      pretty miserable, regular bleeding into joints and  
18      muscles, poor schooling, lifelong pain, no sport,  
19      limited ability to get jobs because of poor education,  
20      and suddenly there was this white powder they could give  
21      at home and it had an enormous difference. So for all  
22      these reasons, when faced with this variable data with  
23      variable opinions by doctors, their view was, "Well, we  
24      are extremely reluctant to consider not using this  
25      product any more because of the quality of life it has

1       given us".

2     Q.   The Inquiry team did try standing what's said in the  
3       programme about hepatitis in the mid 1970s, associated  
4       with concentrates -- we did try to find some articles  
5       that might reflect that outbreak and we did, I think,  
6       send you three of those articles and I would like just  
7       quickly to look at them really in passing. The first is  
8       [\[PEN0150238\]](#). This is from the Lancet of 2 August 1975.  
9       I think somebody at some point has highlighted this but  
10      we can probably just about read it:

11                "An outbreak of hepatitis associated with  
12      intravenous injection of Factor VIII concentrate."

13                We can see that the first named doctor is Dr Craske.  
14      I think we learned from the programme, although some of  
15      us had discovered this before, that he was a virologist.  
16      Is that correct? We saw him in fact in the programme.

17     A.   Yes, Dr John Craske was exclusively really the source of  
18       virological advice to haemophilia doctors in the early  
19       1980s, when the HIV epidemic was just getting going. He  
20       came to all our meetings, he wrote to us regularly and  
21       it was more or less exclusively him that we derived all  
22       our virological advice from.

23     Q.   Yes, and really this article is making the same points  
24       that we have just been discussing and that were in the  
25       programme, he says in his summary and the authors say in

1       their summary:

2                "An outbreak of jaundice associated with three out  
3       of four batches of a commercial brand of freeze-dried  
4       Factor VIII occurred at the Bournemouth  
5       Haemophilia Centre in 1974. Seven cases of non-B  
6       hepatitis, four of Hepatitis B."

7                Then in the introduction the point is made about the  
8       huge improvement brought by concentrate treatment:

9                "They do not produce pyrexia and urticaria which  
10      occasionally occur with cryoprecipitate."

11              That will be the chills and shakes, will it?

12    A.   Yes.

13    Q.   And then:

14              "Commercial Factor VIII concentrates ..."

15              Looking at the next paragraph:

16              "... prepared from pools of 2 to 6,000 litres of  
17      plasma can be expected to carry a much higher risk of  
18      transfusion hepatitis."

19              And they go on to say that's what they are  
20      reporting.

21              There is a much more detailed description of the  
22      outbreak and of the tests that were carried out. Just  
23      to look at the passage at the end of the paper, if we  
24      can look at what will be page 0240, two pages on, and  
25      highlight perhaps what he is saying in that paragraph:

1           "There seems to be a pronounced increase in the risk  
2           of post-transfusion hepatitis when some batches of  
3           commercial freeze-dried Factor VIII concentrates are  
4           used. This must be balanced against the undoubted  
5           advantage that freeze-dried product has over  
6           cryoprecipitate."

7           I don't think we have any difficulty in  
8           understanding, Dr Winter, that this is all about  
9           balance. Then there are some measures suggested:

10           "1. Commercial Factor VIII concentrates should be  
11           reserved for the treatment of life-threatening bleeds in  
12           all haemophiliacs and for covering major operations."

13           That wasn't really what happened, was it? That  
14           recommendation is pitched more highly than was actually  
15           put into effect in the 1970s.

16   A. No. By the way I didn't hear you clearly. Urticaria is  
17           a nettle rash and not shakes and shivers. It is part of  
18           the side effects that people can get with  
19           cryoprecipitate.

20   Q. Pyrexia and Urticaria.

21   A. Urticaria is a nettle rash.

22           Yes, the first recommendation there is not feasible  
23           because there was not enough NHS concentrate to sustain  
24           the requirements of the haemophilia population in  
25           either -- in England. So it would not have been

1       feasible to have followed that recommendation.

2   Q.   The second one, although it is not explicitly expressed  
3       in this manner, reads as though it is meant to be a sort  
4       of fallback, I think:

5       "If used for treatment, commercial concentrates  
6       should be reserved for severely affected haemophiliacs."

7   A.   But the second recommendation is, in any case, not  
8       relevant because the major hepatitis we now know is  
9       Hepatitis C, so the fact that the more severely treated  
10      patients might be immune to Hepatitis A or B wouldn't  
11      actually be relevant.

12   Q.   I suppose it is a bit of a contorted logic --

13   A.   The paper generally states exactly what you would  
14      expect.  If you give Factor VIII concentrate to patients  
15      with haemophilia at that time, they nearly all get  
16      abnormal liver function tests, yet only a minority of  
17      them get clinical symptoms.  That's exactly what you  
18      would expect.

19   Q.   I suppose if you decouple his rationale, since they are  
20      more likely to be immune to Hepatitis A and B, and just  
21      treated the recommendation on its own, if used for  
22      treatment, commercial concentrates should be reserved  
23      for severely affected haemophiliacs, at least in the  
24      beginning when NHS concentrates were still being made  
25      from quite small pools, that might have protected,

1 I suppose, some of the less severely affected  
2 haemophiliacs from non-A non-B.

3 A. Well, in due course there were still -- it came to pass  
4 that NHS concentrate did transmit Hepatitis C, as you  
5 will be aware, so it wasn't really a safer option.

6 Q. In general terms, though, he is urging caution and the  
7 pattern of that seems to continue with a letter in the  
8 Lancet two weeks later. This is [\[PEN0150241\]](#). This is  
9 the Lancet of 16 August 1975. This is from Dr Dane and  
10 Dr Cameron at the Middlesex. You presumably recognise  
11 these names too. Did you work with doctors Dane and  
12 Cameron?

13 A. Indirectly. They were in the department above mine.  
14 Dr Dane was a very distinguished virologist, in fact the  
15 core of the Hepatitis B virus is known as the Dane  
16 Particle discovered by him. So he was a very  
17 distinguished virologist at the time.

18 Q. It looks that in this letter, the point that's being  
19 made is about an improvement that could be brought about  
20 by a different form of screening. Looking at the  
21 paragraph beginning "during the past year," it looks as  
22 though what they are saying is that the manufacturers  
23 had been using CEP for screening donations and RIA for  
24 testing the final product. The RIA testing contributed  
25 little to safety because of the dilution factor involved

1       in a large pool product. They are advocating that the  
2       actual donations themselves should be screened by RIA.

3   A. So this discussion is all about Hepatitis B.

4   Q. Yes.

5   A. This is a discussion about different ways of testing for  
6       Hepatitis B.

7   Q. In a sense, doctor, this is leading people in the wrong  
8       direction because it is creating a kind of reassurance,  
9       "Well, if we can just do something about better  
10      screening for Hepatitis B, we will solve the problem,"  
11      but history was to reveal that actually there was  
12      another problem of a different nature.

13  A. Yes. It turned out that Hepatitis B was a relatively  
14      minor problem in relation to hepatitis viruses  
15      transmitted by pooled coagulation factor concentrates.  
16      Hepatitis C was a much greater problem. About 3,000  
17      people have Hepatitis C in this country from treatment  
18      of their haemophilia.

19  Q. Yes. The third article I wanted to look at is  
20      [\[PEN0150228\]](#). This is back to Dr Craske, "Commercial  
21      Factor VIII associated hepatitis, 1974 to 1975, in the  
22      United Kingdom, a retrospective survey."  
23      A paper that has been completed by September 1977.  
24      Dr Craske is saying really quite clearly, if we look  
25      just at the summary two types of hepatitis were



1 observed, Hepatitis B and non-B hepatitis, the latter  
2 with an incubation period of between 8 and 60 days. And  
3 we can see in fact that this is referring back to  
4 Bournemouth. It would appear that having recorded the  
5 Bournemouth outbreak in 1974 -- and there is  
6 a reference, if we go a little bit further down -- we  
7 can see that reference to Craske, Dilling and Stern.  
8 That was the first paper we looked at and he says that  
9 they went on and conducted a retrospective survey of the  
10 use of this product in British haemophilia centres.

11 So they really widened the net to look to see what  
12 the incidence of hepatitis was elsewhere. That is the  
13 data that they then used and they produce a table on the  
14 third page, if we go to 329, and we can see that the  
15 total number of patients transfused -- and this is in  
16 the summer as well -- was 371, and the number of  
17 patients who had one or more attacks of hepatitis was  
18 66. And the breakdown seems to have been 48 non-B and  
19 30 Hepatitis B. Is it possible that the non-B is a bit  
20 of an underestimate, in that the non-B may have been  
21 completely silent in some patients?

22 A. That would be my main comment, that I'm surprised that  
23 the non-B figure is not higher.

24 Q. We see a rather different classification of haemophilia  
25 here, the serious or mild.

1 A. Yes.

2 MS DUNLOP: The 2 per cent, yes.

3 THE CHAIRMAN: 2 per cent.

4 MS DUNLOP: Then in the conclusions they recite the  
5 findings, and this is page 334, so --

6 THE CHAIRMAN: Before we leave that altogether, is there any  
7 significance in the note that is below the table, which  
8 refers to the total number of attacks of hepatitis.

9 PROFESSOR JAMES: I think I can answer that actually.

10 They were really only recording what might be called  
11 reported cases there. So this was not, as we  
12 subsequently see, surveys in which patients had liver  
13 blood tests systematically recorded after transfusion or  
14 after some particular treatment.

15 So this is just a round-robin really to the  
16 haemophilia centres, and we are seeing the sort of, if  
17 you like, dying days of susceptibility of haemophiliacs  
18 still to acute attacks of Hepatitis B, when not all of  
19 them had previously been infected with Hepatitis B on  
20 the one hand, and the products were still not, as they  
21 would be a year or two later, really well screened with  
22 the most up-to-date tests. And as far as what we now  
23 know as non-A non-B is concerned, you have an "attack  
24 rate" of about 10 per cent or 15 per cent, which means  
25 of this "non-B". That means that 48 or whatever have

1       had actually an overt illness of some sort with abnormal  
2       blood tests. But the odds are, I think -- probably  
3       Dr Winter would agree -- that as many as another 100 or  
4       maybe even more, if you had formally tested their blood  
5       tests, would have shown a rise in the transaminase,  
6       which we now know would have been an attack of non-A  
7       non-B.

8             I don't know if you would agree with that,  
9       Dr Winter.

10    A. I would. It would be surprising if any of these  
11       patients proved not to have Hepatitis C.

12    PROFESSOR JAMES: Precisely.

13    MS DUNLOP: If we look at the entry criteria, as it were,  
14       that really makes it clear. If we go back to 229, which  
15       is page 328 in the article, it does say:

16             "Only patients with symptoms and signs compatible  
17       with the diagnosis of hepatitis were included.

18       A patient was considered to be suffering from hepatitis  
19       when three or more symptoms or signs compatible with  
20       a diagnosis of hepatitis were present as indicated on  
21       the sickness record form."

22             So there has to have been something recognised as an  
23       illness and then evidence of abnormal liver function  
24       tests. So all these people whose liver function may  
25       have been disturbed but who didn't seem to be ill will

1 have been missed.

2 Then to go back to the conclusions, page 335, which  
3 will be 0236, he does say, particularly in paragraph 5:

4 "We do not yet know the nature of the non-B  
5 hepatitis we have described. The epidemiology of the  
6 disease, the definite incubation periods observed, the  
7 association with commercial plasma derivatives and the  
8 absence of illness when a convalescent patient is  
9 transfused with batches producing hepatitis in other  
10 patients -- suggesting the acquisition of specific  
11 immunity -- are all consistent with the view that an  
12 infective agent is involved, and elicits specific  
13 immunity."

14 There is a great deal of other material from this  
15 period, Dr Winter, but it is fair to say, isn't it, that  
16 awareness of non-A non-B really grew in the second half  
17 of the 1970s and particularly in association with blood  
18 product concentrates?

19 A. I think it was very well established by 1975, the group  
20 in Milan of Professor Mannucci had actually done liver  
21 biopsy studies which had demonstrated histological  
22 hepatitis in these patients as well, and it was for that  
23 reason by, you know, the mid 1970s that UKHCDO were  
24 starting to approach DOH with a view to persuading them  
25 to initiate moves towards self-sufficiency. It was the

1 hepatitis argument that was obviously driving this  
2 initiative.

3 Q. Yes. We also asked you to look at a letter which  
4 Professor Cash sent after the television programme.  
5 Perhaps we can look at that now. That's [\[LIT0010245\]](#).  
6 This is the British Medical Journal of 24 January 1976,  
7 and we can see that Professor Cash firstly is making the  
8 point that journalists may take comments out of context,  
9 put them together to make a programme and create  
10 a misleading impression. He says this probably arose  
11 during the ITN television series, World in Action:

12 "Two consecutive programmes attempted to deal with  
13 the availability of Factor VIII concentrates."

14 Then he says:

15 "There is no doubt the import of concentrates  
16 derived from external sources represents an unequivocal  
17 pathway by which the level of a potentially lethal virus  
18 into the whole community is being deliberately  
19 increased."

20 That's really mainly talking about Hepatitis B  
21 again, isn't it?

22 A. I assume so. I don't know why he says it was  
23 deliberately increased.

24 Q. Perhaps "knowingly" might have been a better word?

25 A. Yes.

1 Q. Then he says:

2 "The absolute magnitude of the problem was  
3 exaggerated and overdramatised by the television  
4 programmes. Nobody with direct or indirect  
5 responsibility would wish to belittle the serious nature  
6 of the moral and practical dilemmas which face us all."

7 Then he goes on to say that:

8 "The other misleading feature was that £500,000 was  
9 going to fix the problem as far as domestic production  
10 was concerned."

11 He was right about that, was he not?

12 A. He was. I mean, he doesn't seem to have been right  
13 about his claim that the magnitude of the problem was  
14 being exaggerated because of the scale of Hepatitis C  
15 infection that eventually occurred in people with  
16 haemophilia that was happening at the time, but he does  
17 seem to be right about the timescale for introducing  
18 self-sufficiency.

19 Q. Yes. Again, like almost everything we look at,  
20 Dr Winter, it is quite complicated because if you  
21 analyse the programme as only talking about the  
22 Hepatitis B risk, then the absolute magnitude of the  
23 problem might not have been that great, but if you bear  
24 in mind that actually what was going on was that there  
25 was another hepatitis virus as well, then I understand

1       your comment, that actually the magnitude of the problem  
2       was not being exaggerated because there was a very  
3       serious problem developing. Is that a reasonable way of  
4       putting it?

5   A. It is. I mean, understandably because the virus hadn't  
6       then been identified, World in Action is really  
7       concentrating on Hepatitis B, which wasn't the major  
8       clinical problem we now know.

9   Q. You referred, in discussions before today, to a sort of  
10       "Tarzanoid" philosophy which operated around  
11       concentrates in this period. I think perhaps you just  
12       need to explain that for us.

13   A. One of the things that haemophilia doctors do is we go  
14       and run these residential weekends for people with  
15       haemophilia all over the country and you would sit down  
16       with a group of haemophilia patients from all over the  
17       UK and discuss things like this on a Saturday afternoon.  
18       And at that time the patients would say to you very  
19       strongly and understandably, as I have already  
20       recounted, that they were very strongly in favour of the  
21       use of concentrates; concentrate compared with the  
22       cryoprecipitate offered very significant improvements in  
23       their quality of life and they certainly didn't want to  
24       contemplate not using concentrates.

25       But then very quickly, and again equally

1       understandably, they would say to you they really did  
2       not want to have any concentrate of American origin.  
3       They wanted, as the patients in the World in Action  
4       documentary said, to have Factor VIII that was of  
5       British origin because of the perception, obviously  
6       enough, that British donors were voluntary donors and  
7       were therefore acting from motives that were altruistic,  
8       whereas commercial donors were doing it for money and  
9       reasons financial and were more likely to be infected  
10      with viruses.

11           So that was a fairly clearcut and, if you like,  
12      simplistic argument but it was very strong within the  
13      haemophilia community. In my centre, as I have said to  
14      you, we had great difficulty in getting supplies of NHS  
15      concentrate. So it took us quite a lot of work to  
16      persuade patients in some cases to continue to receive  
17      commercial concentrate because of this same perception.

18   Q. I think where Tarzan came into it is that it is just  
19      a very succinct way of putting it: UK good, US bad.

20   A. That was exactly it, yes.

21   Q. Yes. You said in your statement for the Archer Inquiry  
22      and this is looking at page 2 of [\[PEN0150283\]](#) -- just  
23      picking up this point, slightly more than half way down  
24      the page:

25           "A number of patients would refuse to receive



1       concentrate that was of US origin. It was for this  
2       reason that representation made by the haemophilia  
3       community to the DOH that there should be  
4       self-sufficiency in blood products."

5           I think, Dr Winter, before you arrived this morning,  
6       we also saw a lot of material from the DHSS in 1973 that  
7       would certainly suggest that the government was very  
8       concerned about cost too. It made economic sense really  
9       to promote self-sufficiency, didn't it?

10    A. Yes, and we heard Dr Owen's comments on the documentary  
11       too.

12    Q. Yes, about the pricing structures and so on. Does it  
13       really follow from everything you are saying, Dr Winter,  
14       that there was a widespread awareness among patients who  
15       were taking American concentrates, at least in the  
16       1970s, that there were dangers of hepatitis or risks of  
17       hepatitis, or was people's understanding not as  
18       developed as that?

19    A. Yes, my impression was that there was widespread  
20       awareness. It was a matter that was widely discussed  
21       with the haemophilia patients. It was widely written  
22       about in the Haemophilia Society bulletin. These  
23       patients would have been tested for Hepatitis A and B.  
24       They would have been vaccinated against Hepatitis B, if  
25       appropriate. So their doctors would certainly have been

1        talking to them about hepatitis and the possibilities of  
2        hepatitis from concentrates. This conversation,  
3        I suspect, would mainly have been in relation to  
4        Hepatitis A and B because of the uncertain theories  
5        about the non-A non-B hepatitis, but it was certainly  
6        a topic the patients in my experience were very familiar  
7        with.

8        Q. Dr Winter, a slight change of tack. I wanted to take  
9        you more into the period of which you have direct  
10       experience, which is the 1980s. We can see that you  
11       begin to discuss that in the part of your statement that  
12       we still have in front of us about what happened in the  
13       summer of 1982. Just to ask you, though, about the  
14       first report of a patient with AIDS in the UK, which  
15       I think is [\[LIT0012479\]](#) in paragraph 8.8. If we read  
16       down, we can see that the Lancet of 12 December 1981  
17       published a letter -- sorry, the same edition also  
18       carried a letter from physicians at the Brompton  
19       Hospital in London, the Royal National Hospital in  
20       Bournemouth, detailing the case of a 49-year old man who  
21       had reported et cetera with symptoms of, as it turned  
22       out, what later became known as AIDS.

23       I just wondered, you were working in London I think  
24       at the time, did you have any understanding or awareness  
25       of that happening in 1981?

1 A. I did. As you say, I was a senior registrar at  
2 Guys Hospital and I remember clearly the events that  
3 happened after the publication of that article because  
4 it seemed to be such an extraordinary event. It did  
5 seem to be genuinely a new disease, and I do recall that  
6 for probably at least a year or maybe slightly less than  
7 that, the major theory that was being proposed was that  
8 it was due to lack of immune function in this group of  
9 gay patients, and there was a whole series of  
10 speculations as to why gay patients might get this new  
11 disease because of an immune system that wasn't working  
12 properly. There was a lot of talk about lifestyle,  
13 agents they might be using, about poppers and things  
14 they took for stimulation, and these agents had been  
15 shown in vitro to depress immune function.

16 So that was for quite a time the most prevalent  
17 theory, viral aetiology was less favoured at that time,  
18 although it was noted there were some similarities  
19 between the outbreak and also the pattern of hepatitis  
20 infections. Obviously all that changed in due course  
21 when the first haemophilia patients and blood product  
22 and blood transfusion patients were described.

23 Q. Yes, and that, as you say in your statement, is the  
24 summer of 1982, and I think we could just quickly look  
25 at [\[LIT0010559\]](#). This is a page from the MMWR,

1 published by the American Centres for Disease Control,  
2 16 July 1982, and this, I think, is the reference that  
3 you are thinking of in your statement when you say in  
4 the summer of 1982, three patients in fact here are  
5 described, three patients with haemophilia A and without  
6 other underlying disease. This is still in the very  
7 first paragraph:

8 "All three were heterosexual males. None had  
9 a history of intravenous drug abuse."

10 We need to note that because we will come back to  
11 it. And at that point they were all males and two in  
12 fact had died.

13 Can we go to the second page, please? We can see  
14 that records of administration of Factor VIII  
15 concentrate have been reviewed:

16 "No two of the patients are known to have received  
17 concentrates from the same lots."

18 Then the editors note, if we go a little bit further  
19 down:

20 "Pneumocystis carinii pneumonia, not previously  
21 reported among haemophilia patients ..."

22 In fact we can see that this has been noted by the  
23 CDC because doctors were requesting a particular drug.  
24 Is that correct?

25 A. It is. This is quite an extraordinary story.

1 A Dr Bruce Evatt, working for the CDC in Atlanta,  
2 noticed that he was being requested for pentamidine for  
3 treatment of pneumocystis by haemophilia centres. For  
4 reasons that I'm not clear, the only way you could get  
5 pentamidine, the treatment for this opportunistic chest  
6 infection was from the CDC. There was no other outlet.  
7 And Dr Evatt noted that he had had three requests from  
8 haemophilia centres and he couldn't understand this. So  
9 he started to investigate and he was really the doctor  
10 who in 1982 identified these haemophilia patients with  
11 what became known as AIDS.

12 Q. Yes. And in fact we can see that's said in the second  
13 paragraph of the editorial note:

14 "Although the cause of the severe immune dysfunction  
15 is unknown, the occurrence among the three haemophiliac  
16 cases suggests the possible transmission of an agent  
17 through blood products."

18 And you are explaining to us that this is  
19 a deduction for which Dr Bruce Evatt is responsible.

20 Then can we go back to the preliminary report,  
21 please, and look at paragraph 8.13, which, in the report  
22 is page 189, which will be [\[LIT0012479\]](#). Just after  
23 that reference, 16 July 1982, paragraph 8.13. That same  
24 month the BMJ of 3 July 1982 had had an article, "Severe  
25 acquired immuno-deficiency in European homosexual men,"

1 describing the cases of four Danish men who had  
2 developed KS or opportunistic infections. Three had  
3 never been to the USA.

4 So in a nutshell, Dr Winter, by July 1982 two things  
5 can really be said, can they, firstly it was evident  
6 that the syndrome was occurring outside the  
7 United States and secondly it was evident that people  
8 who were not homosexual appeared to be suffering from  
9 the syndrome as well?

10 A. That's right. Prior to July 1982 the disorder was known  
11 as GRID, Gay Related Immuno-Deficiency, and it was these  
12 reports of July 1982 that really changed the favoured  
13 aetiological agent, obviously enough towards a virus.  
14 The fact that here were this small number of patients  
15 with a blood disorder, treated regularly with blood  
16 products, here were they with the same disorder, that  
17 made viral aetiology very much more likely than the  
18 previously favoured theories, and then obviously we only  
19 had to wait a few more months before there was much  
20 clearer evidence that it was likely to be a viral  
21 disorder even though the virus had not at that time been  
22 identified.

23 Q. The DHSS didn't miss the point either, I don't think,  
24 Dr Winter, at this stage. If we look at [\[DHF0016744\]](#).  
25 I'm sorry, I can't remember if we sent you this or not,

1       we have had so many documents circulating. Do you  
2       recognise this memo which is an internal DHSS memo dated  
3       also 16 July 1982? Have you seen that?

4   A. I haven't seen this previously.

5   Q. Right. I'll give you a minute --

6   THE CHAIRMAN: Should we take the opportunity of a short  
7       break at that point?

8   MS DUNLOP: Yes, sorry.

9   THE CHAIRMAN: Dr Winter can read it.

10   (3.20 pm)

11                                       (Short break)

12   (3.35 pm)

13   THE CHAIRMAN: Yes, Ms Dunlop.

14   MS DUNLOP: Thank you.

15       Yes, Dr Winter, we were just looking at this memo  
16       and actually I think it is possible to work out who  
17       wrote it because, as those who have been here before  
18       will know, we have a sort of key on one of the DOH memos  
19       that has a whole lot of names and room numbers and so on  
20       on it. But anyway I think this person is described by  
21       the DOH as a middle ranking official and he has written  
22       this, I suspect, to someone in the Department of Health,  
23       who is medically qualified, but if you look at the  
24       middle paragraph, obviously some of it is a bit flakey  
25       but given all the debate that is destined to happen

1       within the DHSS and so on after this, about what is or  
2       isn't causing AIDS and whether there is a connection  
3       with commercial concentrates and so on, actually it  
4       doesn't seem too bad, does it, Dr Winter?

5     A. I'm not sure. I don't think saying that you can look at  
6       whether somebody has injection marks or not to see  
7       whether they might be a risky donor is a valid  
8       statement, really.

9     Q. I think I was really just meaning, where the second  
10       paragraph records what the problem is thought to be, the  
11       problem seems to be thought to be that plasma has a sort  
12       of virus, which, when used for Factor VIII, really poses  
13       a risk to people with haemophilia; that's a reasonable  
14       sort of understanding of the nature of the problem, is  
15       it not?

16    A. It is in a way. I think, you know, the letter might  
17       have shown a bit more concern about it. It doesn't seem  
18       to give it the sort of importance that in retrospect we  
19       can give it. It doesn't seem to, you know, reflect that  
20       it might turn out to be a major healthcare problem,  
21       which it did. But I agree, there is nothing in it which  
22       is strictly inaccurate.

23    Q. Yes. I think I was just interested in exploring with  
24       you whether it shows really quite an early appreciation  
25       within the Department of Health of, in very broad terms,



1 the nature of the risk. I take your point that, in  
2 terms of the response, the response seems to be to move,  
3 in the third paragraph, straight to a sort of defensive  
4 position; indeed, that's the word that's used:

5 "We can defend the National Blood Transfusion  
6 Service's own record."

7 A. I mean, it does rather read as if the concern is more  
8 about the furore rather than the plight of the people in  
9 Britain with haemophilia who might have been similarly  
10 infected perhaps. Can I ask you what the date of this  
11 letter is?

12 Q. This is also 16 July 1982, so the same date as the MMWR  
13 report in fact.

14 A. So this is very early on and I agree, he or she has done  
15 well to make reasonably sensible statements, given the  
16 very early stage of the epidemic.

17 Q. And in fact in the third paragraph it's also recorded  
18 that about half the Factor VIII bought from commercial  
19 companies is imported from the USA:

20 "Your division ... "

21 I'm not sure quite what division this is going to,  
22 but anyway:

23 "Your division -- I understand one of your sections  
24 scans the technical literature for such material -- may  
25 have to consider revoking licences of certain

1 manufacturers. Of course, it may turn out none of the  
2 Factor VIII involved is supplied to this country."

3 Now, having looked at that, I wanted to go next to  
4 the UKHCDO meeting on 13 September 1982. Can you, just  
5 briefly, Dr Winter, give us a little bit of an  
6 explanation of what these gatherings were like? They  
7 are described as meetings but they are very big  
8 gatherings. They read in a way a bit like a conference.  
9 What was the general format?

10 A. There were two different types of meeting. There are in  
11 Britain somewhere in the order of 100 hospitals that  
12 carry the designation "haemophilia centres", and all of  
13 those centres would be invited to send a representative,  
14 usually the director, to the annual general meeting of  
15 the Haemophilia Directors' Organisation. However, of  
16 those 100 centres, 75 or so would be really rather small  
17 centres, where the doctor concerned was probably doing  
18 more work related to leukaemia than haemophilia, and  
19 there was a relatively small number, as is still the  
20 case, of what's called "comprehensive" care centres.

21 So once a year there would be an annual general  
22 meeting of the whole organisation, usually a whole day  
23 business meeting, sometimes attached to a second day of  
24 science, with visiting speakers. But, in addition to  
25 that, every three months or so the comprehensive care

1       centre directors would meet up, usually in London, to  
2       discuss matters of more pressing business, and they were  
3       the ones that also set up all these various working  
4       parties: variant CJD, von Willebrand's, hepatitis,  
5       et cetera.

6               So they were a very active group, who met regularly  
7       and wrote protocols, and they would present everything  
8       to their colleagues at this annual general meeting,  
9       which, as you say, could be a very large meeting of  
10      80/90 people maybe.

11    Q.   In those days they were the reference centre directors,  
12       the other group, weren't they?

13    A.   Yes, they were called reference centres.

14    Q.   And it looks, just again in general terms, from having  
15       read a number different sets of minutes of the AGMs, as  
16       though from time to time the gathering would vote. So  
17       they might vote on what was the appropriate step to be  
18       taken in relation to something. Is that right?

19    A.   Yes, there was a proper constitution and each director  
20       had voting rights.

21    Q.   Right. I hope this doesn't sound too awful but  
22       I actually have four different documents relating to  
23       this meeting. A lot of people seem to have produced  
24       their own notes. Look firstly at the minutes,  
25       [\[SNB0017419\]](#). This is only 1982, so you are not yet the

1 director in Kent but you were there; we can see your  
2 name. It's on page 2, I think, actually, if everyone  
3 just wants to see that. Yes, there you are. You are  
4 representing Dr Barkhan?

5 A. Dr Barkhan was my director at Guys, who wasn't very  
6 well, so I represented him.

7 Q. Do you actually remember this meeting?

8 A. Yes.

9 Q. Is that for a particular reason which is relevant to the  
10 Inquiry?

11 A. No, I think it was the first time I had been to such  
12 a meeting.

13 Q. Right. Now, really the only thing to look at in the  
14 minutes is page 10 at [\[SNB0017419\]](#). I think we are into  
15 AOB by this point. At the bottom of the page we can see  
16 "The acquired immuno-deficiency syndrome":

17 "The Reference Centre directors had asked Dr Craske  
18 to look into the report from the United States of this  
19 syndrome, mainly in homosexuals but including  
20 three haemophiliacs. It appeared that there was a  
21 remote possibility that commercial blood products had  
22 been involved."

23 Without going back to it, I don't think Dr Evatt  
24 used the word "remote" in the MMWR but anyway:

25 "There was a remote possibility that commercial

1 blood products had been involved and Dr Craske asked the  
2 directors to let him know if they had any cases. The  
3 working party was considering the implications of the  
4 reports from the USA."

5 That would be the hepatitis working party in fact,  
6 I take it?

7 A. Yes.

8 Q. If we look at [\[DHF0016837\]](#), this is another redacted  
9 document but we can just see that someone has written  
10 along the top, "Received in confidence from the  
11 Haemophilia Society." By this time the Haemophilia  
12 Society had appointed Mr Watters as a coordinator. Do  
13 you remember Mr Watters?

14 A. Yes. By the way, the Haemophilia Society was always  
15 invited to attend the annual general meeting and they  
16 were always invited to make a short presentation about  
17 matters related to the society. David Watters was for  
18 a number of years the chief executive of the society.

19 Q. Thank you. Just to look at his note, he has summarised  
20 what he says are items of particular interest, rather  
21 than a comprehensive report of everything discussed at  
22 the meeting. He talks of the Reference Centre  
23 directors' reports, the annual returns, BPL Elstree, and  
24 then:

25 "The hepatitis working party ... "

1           I suspect that the name that has been taken out  
2           there is probably Dr Craske and we can see that from the  
3           other reports of the meeting:

4           " ... produced statistics on the incidence of  
5           hepatitis, which I found largely incomprehensible."

6           I am not quite sure what I should ask you about  
7           that, Dr Winter. It sounds really as though he has  
8           rather tuned out perhaps at the presentation of  
9           statistics on the likelihood of contracting hepatitis  
10          from commercial or NHS concentrates. But he does say:

11          "It appears from a study at Oxford that the risk of  
12          contracting hepatitis from large pool NHS concentrates  
13          is unexpectedly high."

14   A. I think the key word there is "NHS". I think that this  
15          is the point I was making, that, you know, the society  
16          at that stage were really very strong on promoting the  
17          use of NHS concentrate. They had concerns about the use  
18          of commercial concentrate, which many patients shared,  
19          and what is surprising him here is that this report is  
20          indicating that NHS concentrates might also transmit to  
21          a significant degree a form of hepatitis.

22   Q. Yes. So, put like that, Dr Winter, I think we can all  
23          understand why that would strike him as particularly  
24          worthy of note.

25          Look then at the next record, which is [\[SNB0017431\]](#).

1       This is not signed but without taking up too much time,  
2       I'm reasonably sure it is written by Dr Perry but we  
3       will put that beyond doubt when Dr Perry comes and we  
4       ask him.

5             This is his note of the meeting and if we look  
6       two pages in, at SNB0017433, he is taking notes on  
7       matters of relevance to PFC and he has noted down the  
8       statistics. If we look at the bottom of that page:

9             "The hepatitis working party ... "

10            He says:

11            "The following results of the study were presented."

12            Not a particularly large study, I guess,  
13       32 patients, of whom 28 had adequate data, and then  
14       those who had a history of Factor VIII or IX  
15       transfusion, 26.

16            Then, if we go to the next page, the little table,  
17       it says that there were nine patients who had no record  
18       of receiving concentrate and of those who had had no  
19       previous concentrate, all nine seemed to have got NANB.  
20       And the little note beside that, a footnote effectively,  
21       is that seven out of the nine received NHS concentrate.  
22       So Dr Perry from the protein fractionation centre,  
23       I suppose he would be struck by that as well.

24    A. I don't really understand that data, I have to say.  
25       Perhaps you could ask him to clarify.

1 Q. We actually have quite a bit more data on that  
2 particular study, including the published article, which  
3 eventually appeared the following year.

4 Then go to the next page, 7435, heading "Liver  
5 disease in haemophiliacs", and perhaps particularly  
6 looking at the heading "Raised liver function tests",  
7 LFTs:

8 "Abnormal liver function tests were more than  
9 50 per cent."

10 Perhaps that doesn't surprise you in the context of  
11 everything we have been saying.

12 A. No, it doesn't surprise me.

13 Q. And then he says:

14 "49 per cent of haemophiliacs on only cryo have  
15 evidence of CAH ... "

16 Would that be "chronic active hepatitis"?

17 A. Yes, it would be, yes.

18 Q. " ... or history of infection. Therefore cryo no better  
19 than concentrates? The main conclusion was there is not  
20 a lot to choose between commercial, NHS or cryo  
21 Factor VIII with respect to hepatitis."

22 That's perhaps slightly clearer than the table?

23 A. Well, the table wasn't very clear at all. These are  
24 very small numbers of patients, aren't they, really, and  
25 that's why the percentages are perhaps not really what



1 we would expect them to be.

2 Q. Then finally, at least on this meeting, could we look at

3 [\[SNB0017494\]](#)? The writer of this note is

4 Dr Frank Boulton because he has signed it. Dr Boulton

5 is from the Blood Transfusion Service, Edinburgh and

6 Southeast Scotland Blood Transfusion Service, and he

7 also has a note about AIDS. He has got the statistics,

8 the figures, that we have already looked at. I don't

9 want to take up time with that. But could we look at

10 SNB0017502. That will be page 9 of this, I guess.

11 A similar sort of note underlined there:

12 "A first exposure to VIII or IX will cause non-A

13 non-B hepatitis."

14 Then a heading at the bottom of that page, "Acquired

15 immuno-deficiency syndrome":

16 "This is a wasting disease with deficient

17 cell-mediated immunity, possibly associated with

18 an infectious element ...

19 "Mortality 40 to 50 per cent.

20 "Three cases have occurred in haemophiliacs in the

21 USA, possibly associated with parenteral drug abuse."

22 That's puzzling, isn't it, Dr Winter, because the

23 reference to drug abuse, it is not only not in the MMWR

24 report, the MMWR report actually says that they have no

25 history of drug abuse. Do you have any theories as to

1       where that might come from?

2    A.  Let's just reflect on where they were at that time.  It  
3       is September 1982.  Where they are coming from, both as  
4       doctors and with all the patient body, is, if you like,  
5       "We really have so much benefit from the use of these  
6       concentrates, we don't really want to hear about any  
7       problems with them unless we can find a very convincing  
8       reason so to do."  I think there was a feeling at the  
9       time that, you know, these are very small numbers, the  
10      three patients, they are in America; can we be  
11      absolutely sure that they weren't part of some other  
12      risk group.  I mean, it clearly says, as you say, that  
13      they weren't drug addicts, but I think the feeling at  
14      the time was we just don't have enough evidence at the  
15      moment, just based on three American patients who we  
16      maybe don't know enough about.

17           The other part of the pattern at that time was that  
18      always a lot of attention was paid to Germany.  In  
19      Germany, particularly in the Bonn centre, they used  
20      spectacularly high quantities of Factor VIII.  I think  
21      in fact the Bonn centre one year used more than every  
22      American centre put together, and one of the things that  
23      was said regularly at this time was, "If this is a new  
24      disease and it is in blood, why aren't the Germans  
25      getting it because, if anybody is going to get it, the

1       Germans will."

2               So I think this was another part at that particular  
3       time, September, of what you might call the stance of  
4       UKHCDO. All this would change within three or  
5       four months, as we will see in a minute, doubtless, but  
6       I can only think that at that time, with such a small  
7       number of cases -- no British cases, no German cases,  
8       three American ones -- it wasn't the basis for any  
9       further action beyond Dr Craske saying to everyone,  
10      "Please let me know if you see anything like this."

11   Q.   Yes. I think perhaps, Dr Winter, just what's striking,  
12       when you look at it, admittedly in hindsight but look at  
13       it from a position of neutrality, is that firstly there  
14       is this reference to the possibility that the cases were  
15       associated with drug abuse -- and it is not really  
16       evident where that has come from -- and, secondly, that  
17       the possibility of transmission via commercial  
18       Factor VIII is being described as remote. We saw that  
19       in the official minutes as well.

20               I don't know if you would accept this: They do seem  
21       to be at least a bit of a gloss on the information  
22       that's available from America.

23   A.   I think the sentiments might have been more cautiously  
24       phrased, mightn't they? They might have used sentiments  
25       like, "There seems to be no evidence at this time," but

1 the UKHCDO would instigate studies to look further at  
2 the problem, et cetera. I mean, these minutes were  
3 usually written by a doctor in a hurry, coming back from  
4 the meeting and, you know, "I must get minutes out," and  
5 they didn't necessary reflect -- how could they? -- what  
6 actually might be eight hours of meeting.

7 THE CHAIRMAN: Ms Dunlop, if you are turning to a new topic,  
8 I have got a problem.

9 MS DUNLOP: Yes, I know. Well, can I just finish 1982?  
10 I have got one more document.

11 THE CHAIRMAN: Yes, okay.

12 MS DUNLOP: Just so that we can make a start a little bit  
13 further on tomorrow morning. I just wanted to highlight  
14 lastly [\[LIT0010540\]](#), which is another MMWR. It is  
15 24 September 1982. I won't ask you any questions about  
16 it, Dr Winter, but I'll just point out that the  
17 incidence of AIDS has roughly doubled every half year  
18 since the second half of 1979. Then the mention of  
19 people with haemophilia, which is at the foot of the  
20 first page. Then the editorial note on the next page  
21 suggesting that the eventual case mortality may be far  
22 greater than the 41 per cent rate noted and that perhaps  
23 haemophilia A is an identified risk factor.

24 So that was really all, sir. This one, for some  
25 reason, isn't in the Preliminary Report.

1 THE CHAIRMAN: No.

2 MS DUNLOP: So just to get it into the notes. Then that  
3 enables us to start in January 1983 tomorrow.

4 THE CHAIRMAN: Thank you very much.

5 (3.57 pm)

6 (The Inquiry adjourned until 9.30 am the following day)

7

8 I N D E X

9

10 Introduction .....1

11 World in Action video played .....40

12 DR MARK WINTER (sworn) .....41

13 Questions by MS DUNLOP .....41

14

15

16

17

18

19

20

21

22

23

24

25

