

1 Thursday, 17 November 2011

2 (9.30 am)

3 DR RUTHVEN MITCHELL (continued)

4 Questions by MR MACKENZIE

5 THE CHAIRMAN: Good morning, Mr Mackenzie.

6 MR MACKENZIE: Thank you, sir. Sir, today our first witness  
7 is Dr Mitchell.

8 A. Good morning.

9 THE CHAIRMAN: Dr Mitchell it has been some time.

10 A. Not too long.

11 MR MACKENZIE: Good morning, Dr Mitchell.

12 A. Good morning.

13 Q. We are dealing today with the topic C2, the question of  
14 surrogate testing for non-A non-B Hepatitis during the  
15 1980s and, doctor, you have helpfully provided two  
16 statements for us. Before I go to them, I would like to  
17 take you through one of two documents from the time, if  
18 I may, and ask you some questions. I would like,  
19 doctor, firstly, if I may, to take you back to 1983 and  
20 the UK Working Party on Transfusion-Associated  
21 Hepatitis, of which I think you were a member.

22 Could we, please, go to the minutes of a meeting  
23 dated 18 January 1983. It's our reference page 4 of  
24 [\[PEN0171507\]](#). We can see from the top of the minutes,  
25 doctor, that you were present at this meeting. Do you

1           have any recollections as to --

2   A.   Yes.

3   Q.   Yes?  We can see this particular meeting is the second  
4       meeting of the working party.

5           If we can go to page 2, please, of the minutes,  
6       under item 6 we can see the subheading  
7       "Transfusion-associated hepatitis studies".  There is  
8       then a listing of various different types of studies,  
9       including prospective study, like the USA TTV study.

10          At the very bottom of the page we can see somebody  
11       has put two lines beside the passage:

12          "It was agreed that some form of study was needed so  
13       that the UK is equipped to answer queries about any  
14       specific or non-specific tests for non-A non-B Hepatitis  
15       offered from abroad."

16          Under paragraph 6.4 there is a discussion of the  
17       fate of the 1974 MRC study.

18          Do you remember that study, doctor?  That was the  
19       study that was carried out, I think, earlier, that was  
20       reported in 1974 by Professor Zuckerman and others?

21   A.   I have seen the results of it.  I wasn't party to it.  
22       I wasn't director then.

23   Q.   Yes.  Under item 6.5 we see:

24          "Dr McClelland circulated a draft proposal for  
25       a prospective study of non-A non-B Hepatitis.  Members

1 of the working party were asked to provide him with any  
2 comments on this."

3 The final passage I would like to take you to,  
4 please, in two paragraphs down:

5 "If MRC samples are not available, the working party  
6 will put forward proposals for some form of study to the  
7 MRC and DHSS."

8 The question I would like to ask you, doctor, is  
9 this: we have heard from Dr McClelland that he was of  
10 the view that there should be a study in the UK along  
11 the lines of the American studies, namely a prospective  
12 study of blood donors and recipients to investigate the  
13 incidence of post-transfusion hepatitis and the  
14 effectiveness of surrogate tests in reducing the  
15 incidence of post-transfusion hepatitis. Can you  
16 remember, doctor, what were your views at the time on  
17 the need for such a study in the UK?

18 A. Yes, I think everyone was concerned that we had seen  
19 this information from America, a different donor  
20 population and so on, but we had seen it, and there was  
21 a lot of discussion about problems that might arise in  
22 the future if we hadn't looked at this particular set of  
23 tests.

24 No one was convinced that they were absolutely  
25 specific but, nevertheless, it was something that just

1           couldn't be ignored. And you have got to remember  
2           that -- and it's difficult to say this but early on  
3           clearly Dr McClelland and Professor Cash both very  
4           tragically had had experience of staff and colleagues  
5           being affected by a disease which was -- we now know to  
6           be transmissible and they obviously were quite sensitive  
7           to the question of: is there any way we could diagnose  
8           non-A non-B or some other virus which we don't know  
9           about? And that was really the reason that people were  
10          interested. But the idea of going into a big  
11          prospective study was very difficult because of the  
12          enormity of it.

13                 I don't want to go into too much detail but clearly  
14          it would require an enormous follow-up of patients  
15          through a series of hospitals, through various operation  
16          schedules and so on, which we know is notoriously  
17          difficult to get information from case sheets, from  
18          clinicians, who after all -- you know, way back in 1964  
19          there was a Scottish Office memorandum to medical  
20          officers asking them to report any defect associated  
21          with blood or blood transfusion. So clearly, everybody  
22          knew that it was important to report these things. But  
23          whether they were reporting them or not is really not  
24          for me to say. All I can say is that the number of  
25          reports that we were receiving were pretty small,

1 I think as we know from other evidence.

2 So the first part of the study, I think, was doable.  
3 That was within blood transfusion confines it would be  
4 relatively straightforward to do a study of our donors  
5 because we knew who they were, we knew where they were,  
6 we knew all their history, where they had been and so on  
7 and so on. So we were able to without much  
8 difficulty -- I know the technical difficulties were  
9 there -- to do -- on the materials available we were  
10 able to certainly do that.

11 But the follow-up of patients was an entirely much  
12 more difficult multi-centre thing. And you must  
13 remember that I was handling 30 hospitals and to ask  
14 individual hospitals to trace information where  
15 samples -- and information was not kept, where records  
16 were badly kept, where often blood transfusion numbers  
17 were changed to other numbers, which bore no  
18 relationship to our numbers, and to try and trace all  
19 that through the system, it's mind boggling to think  
20 about it.

21 So the Americans were -- I don't know whether they  
22 were fortunate or not but clearly they had a much bigger  
23 problem than the UK and, therefore, they had people  
24 breathing down their necks about doing something about  
25 this. So they were able to do a kind of multi-centre

1 study involving a number of fairly major hospitals.  
2 But, again, people in the hospitals, supplying blood to  
3 that hospital, therefore follow-up was prospective --  
4 perhaps not so difficult, but I think in our context and  
5 even perhaps in the UK very, very difficult test to  
6 do --

7 Q. Yes.

8 A. -- to do the prospective test.

9 Q. I can quite understand what you say, doctor. So at the  
10 time, did you support Dr McClelland's proposal for  
11 a prospective study, including the follow-up of  
12 recipients or was that something you were neutral on or  
13 were against or what?

14 A. I would be concerned about the follow-up. As I say, the  
15 first part was doable, given the resources and the staff  
16 and the techniques and so on, which were not well-known.  
17 I mean, we all know that ALT testing is fraught with  
18 difficulties, fraught with technical difficulties,  
19 different manufacturers, different kits, different  
20 cut-off values. We know all about that.

21 So it's the old story of saying: well, does A equal  
22 B? And the problem really is that when I was taught in  
23 science, as I did my science degree, it was important to  
24 set up what was called a "null hypothesis", not  
25 a fallacious argument but an argument which said: is A

1 equal to B? And your experiments are set up in such  
2 a way to try and show that A does not equal B. If, by  
3 all means that you have available, you cannot  
4 demonstrate that A does not equal B, then there is an  
5 assumption that A equals B. But it's not necessarily  
6 other than a fallacious argument.

7 Q. Thank you.

8 A. I think that comes out in some of the American studies  
9 later.

10 Q. Yes.

11 THE CHAIRMAN: Dr Mitchell, can I ask you this? I think  
12 I can see the difficulties for someone like yourself  
13 with 30 hospitals. Do you think the same difficulties  
14 would have afflicted Dr McClelland, who was working in  
15 a single unit more or less at that stage or would it  
16 have been feasible here in the east?

17 A. I think that part might have been feasible to  
18 Dr McClelland. I think he would have difficulty getting  
19 sufficient numbers to make it statistically valid.  
20 I think you are not talking in terms of two or three  
21 weeks or three or four months; you are talking in terms  
22 of a number of years.

23 And we know from other studies that tragically many  
24 people who get transfused don't survive. So how do you  
25 follow up someone for ten years who is dead? This is

1 a dilemma that people have.

2 So inevitably the look-back -- that kind of study --  
3 what I call looking forward, that kind of study can be  
4 very, very difficult because you have got a selected  
5 group of people who were the survivors. You don't know  
6 why the other ones didn't.

7 So, I'm sorry, that maybe doesn't answer your  
8 question but it does demonstrate a difficulty in a place  
9 where there are many hospitals being supplied. In  
10 a hospital the size of the Royal Infirmary in Edinburgh,  
11 okay, but it would have taken a long, long time with  
12 these caveats that I have explained.

13 THE CHAIRMAN: I have an impression the answer you have just  
14 given, the extended answer, perhaps attacks more  
15 fundamentally the whole notion of a study of this kind  
16 than the initial suggestion that, because of the  
17 multiplicity of hospitals, it would become difficult.  
18 Perhaps we should just leave that for the time being and  
19 see what comes up.

20 A. I think, sir, that there was a difficulty even in Europe  
21 of people being desperate to try and find an answer to  
22 this problem. And I think if you know from the  
23 literature that you have read, Germany introduced it  
24 because they'd had catastrophic problem with gamma  
25 globulin. Ireland introduced it because they'd had



1 a catastrophic problem with anti-D immunoglobulin.  
2 Germany had a problem with manufacturers who were making  
3 blood products and so on, and so on, and other places  
4 were the same.

5 There is Italy, had a enormous problem. Because we  
6 know that Italy and the south part of Europe was quite  
7 different from the north part of Europe in terms of  
8 prevalence of even the ALT testing. And we knew that  
9 they were using different methods. We knew if you even  
10 go further afield into the Far East or the Middle East,  
11 you find even worse problems. As you probable know,  
12 I worked in Africa for two years. So I'm pretty well  
13 aware of the problems running a blood bank under these  
14 kind of conditions.

15 THE CHAIRMAN: I think we also know that chronology is quite  
16 important here. The Germans were doing ALT testing from  
17 the 1960s because of their background. It wasn't  
18 related to developing knowledge of NANBH.

19 A. No, they had a problem too with the question of the  
20 requirement because the Americans were doing products  
21 which had been tested. And I think Europe was saying:  
22 well, we have to do the same.

23 And Paris did the same because they had  
24 a catastrophic problem with the Jean-Pierre Allain case,  
25 where there was a massive problem with haemophiliacs in

1 Paris. I'm sorry, it doesn't answer your question.

2 THE CHAIRMAN: I'm just wondering whether it's worth, you  
3 know, pursuing aspects of this.

4 I think much more of this will come out, I'm sure,  
5 Dr Mitchell, but I think we should just proceed.

6 MR MACKENZIE: Thank you. Dr Mitchell, I would like now to  
7 look at another meeting of the working party in 1983,  
8 please. I think this was a last meeting of the working  
9 party before it fell into abeyance for a couple of  
10 years.

11 I would like, firstly, to look at the agenda,  
12 please, to see if this can jog your memory. It's  
13 [\[SNB0143029\]](#).

14 We can see from the top, doctor, this is the agenda  
15 of the fourth meeting of the working party on  
16 27 September 1983, and it's items 4 and 5 on the agenda  
17 that I think are of interest. We can see item 4 is  
18 AIDS, which has now become a priority item, even though  
19 this is a working party on hepatitis.

20 We see AIDS as item 4 on the agenda. Can you see  
21 that?

22 A. Yes.

23 Q. Underneath that, item 5 "Transfusion-associated  
24 hepatitis", including at 5.3 "Prospective TAH studies  
25 (Dr McClelland and Dr Barbara)."

1           Then if we go to the minutes, please, of the  
2           meeting, [\[SNB0143030\]](#), what I think is of interest to  
3           us, doctor, is that if one reads through the minutes,  
4           there is much discussion on AIDS, some discussion on  
5           immunoglobulins but no reference at all in the minutes  
6           to hepatitis, transfusion-associated hepatitis.

7           Do you have any recollection of that meeting,  
8           doctor?

9           A. Yes.

10          Q. Are you able to tell us why hepatitis doesn't appear  
11          from the face of the minutes to have been discussed?

12          A. Well, I think minutes quite clearly were very much  
13          preoccupied with the AIDS problem, and I think if you  
14          went back to the previous agenda, it says, I think, that  
15          Dr McClelland was to prepare a document. I'm not sure  
16          if that document was ever proposed or ever seen.

17          Q. We have seen it, doctor --

18          A. Later it was seen, yes.

19          Q. I think it's dated January 1983. I think it might even  
20          have been available for the meeting we have looked at  
21          previously on 18 January 1983. So I think it had been  
22          prepared and was distributed, and in fact Dr --

23          A. That was the one that was jointly, I think, with North  
24          London, Edgware, with John Barbara, was it?

25          Q. The initial proposal may have been Edinburgh and

1 Manchester.

2 A. Manchester.

3 Q. And then I think at one meeting, possibly a later  
4 meeting, in 1986, it was suggested that Edinburgh would  
5 have too low a prevalence, therefore Edgware should be  
6 included as well.

7 A. I don't remember the document that anyone agreed to  
8 actually let the study go ahead.

9 Q. No.

10 A. I think it was a preoccupation with another, much more  
11 lethal problem that we had.

12 Q. Yes. So that perhaps is the explanation why hepatitis  
13 doesn't appear in these minutes?

14 A. It was not pursued in these minutes, yes.

15 Q. Thank you. Again, sticking at 1983, doctor, the next  
16 publication, I'm sure you remember, is the publication  
17 on Vox Sanguinis, if we can go to that, please. It's  
18 [\[LIT0011837\]](#). I take you remember this, doctor?

19 A. Yes.

20 Q. Can we go, please, to page 57, which is 1846? We can  
21 see in the right-hand column your views on the question  
22 of:  
23 "Should surrogate testing be introduced at that  
24 time."  
25 In the first paragraph you explain the work that was

1           undertaken in Glasgow by Drs Dow and Follett searching  
2           for a serological marker for non-A non-B Hepatitis.

3           The next paragraph you refer to the USA studies, and  
4           then I'll pick up the last paragraph on the right-hand  
5           column, you say:

6           "As SGPT-ALT testing has obviously high false  
7           positive and also high false negative rates, we have no  
8           intention of suspending 3 per cent of our volunteer  
9           blood donors on the basis of an SGPT-ALT test when they  
10          may have only transient elevations. Furthermore, such  
11          a policy would discourage donor recruitment among the  
12          few willing to donate for the good of the community and  
13          would cause some anxiety in donors and their families,  
14          when we cannot offer anything more than the argument  
15          that non-A non-B Hepatitis may exist. We have been most  
16          disturbed by the treatment or lack of treatment for  
17          unrelated diseases ... and fear that donors with  
18          elevated SGPT/ALT levels may suffer the same problems.

19          "We await the development of a specific serological  
20          test for non-A non-B Hepatitis. The use of non-specific  
21          tests such as SGPT-ALT can have deep sociological and  
22          psychological effects on established blood donors and  
23          would necessitate the recruitment of voluntary  
24          non-remunerated replacements."

25          Would it be fair, doctor, to say that the main

1 concerns expressed there relate to the lack of  
2 specificity of surrogate testing and concerns about the  
3 effect on donors and the blood supply?

4 A. Yes.

5 Q. Just out of interest, doctor, if we can go to the  
6 previous page again, please, page 57.

7 If we could have a look at Dr McClelland's response  
8 in the left-hand column, please, you will see that  
9 Dr McClelland stated:

10 "The only action I would recommend at that time was  
11 a thorough prospective study to determine the frequency  
12 with which post-transfusion hepatitis occurs ..."

13 The next paragraph and then possibly recommending  
14 a further study into the effectivenesses of surrogate  
15 markers in reducing PTH.

16 Then he says:

17 "I consider that without undertaking thorough  
18 studies along these lines, the potential and actual  
19 scale of the 'benefit' side of the cost benefit  
20 calculation is unknown and therefore no rational  
21 decisions can be taken."

22 Now, doctor, there is no reference in your response  
23 to the need to carry out prospective studies. Can you  
24 remember why that was?

25 A. I think I have explained in the response that I gave to

1           that particular question exactly what my problem was or  
2           what other people's problem was. I have already said to  
3           you that I think doing prospective would be very  
4           difficult.

5           The first part, we had done something about it. As  
6           I said to you, the first part is doable. We did the  
7           first part, not all of it, but we did some of it.  
8           Having done that, we were obviously faced with the  
9           problem of we knew that the level was transient. We  
10          knew it varies from day to day. We knew we could have  
11          a donor today who was okay and in a week's time his ALT  
12          was abnormal.

13          We knew that some parts of Glasgow on a Monday  
14          morning, the ALT levels are much higher than they would  
15          be on a Sunday afternoon, and so we knew there was this  
16          huge variation within populations, which had nothing  
17          whatever to do with hepatitis. It was to do with  
18          transaminitis, which is a different condition  
19          altogether, of which there are many, many causes.

20          At the same time, you know, one is reminded of, you  
21          would say to a donor. We don't know what this is but we  
22          know you have got it. That doesn't ring very true, does  
23          it, to any specific donor, who then goes out to tell his  
24          friends? And you can see the effect that has on donor  
25          recruitment, the poor chap is wandering about wondering,

1 "Have I got something lethal? Can I talk to my  
2 children? Can I talk to my wife? Can I do all the  
3 other things that normal people can do? And all I get  
4 from that was because I volunteered."

5 Q. Doctor, I can quite understand your focus on the donor  
6 and on the lack of specificity of the test. I simply  
7 wonder whether at this time your view on prospective  
8 studies was that, perhaps a nice idea in theory but  
9 perhaps too many practical problems in following up  
10 recipients to really be a runner? Is that a reasonable  
11 way to put your views --

12 A. Yes, I think that's fair.

13 Q. Yes, thank you.

14 Now, the next document, please, doctor. Moving on  
15 in time, we know that in 1986 blood banks in the US  
16 introduced surrogate testing and there was discussion in  
17 the UK of that.

18 I would like then, please, to go to a meeting of  
19 SNBTS directors on 3 March 1987, and it's [\[SGH0016653\]](#).  
20 The reason I have gone to this minute, doctor, is that  
21 if we can, please, go to page 5, which is 6657, under  
22 item (f), at the bottom of the page, we see "Surrogate  
23 testing for NANB", and we see:

24 "The UK Working Party on Transfusion-Associated  
25 Hepatitis had been reconvened to pursue the issue of



1 implementing surrogate testing for NANB."

2 And a proposed multi-centre study restricted to  
3 following up donors, not recipients. You'll remember  
4 that, doctor, no doubt.

5 Over the page in the minutes, please, at the top of  
6 the page we see:

7 "It was noted that some commercial plasma collectors  
8 and non-profit blood collectors in the US had begun  
9 surrogate testing in 1987 and that in Britain the  
10 Haemophilia Society may adopt a position which put  
11 pressure on BPL to ensure surrogate testing was  
12 introduced.

13 "The directors discussed the options open to  
14 Scotland and agreed the following:

15 "To recommend to the SHHD that surrogate testing for  
16 NANB should be implemented with effect from 1 April 1988  
17 as a national development requiring strictly new  
18 funding."

19 To pause there, doctor, do you remember this  
20 meeting?

21 A. Yes.

22 Q. What was the nature of the discussion? Were there  
23 different views or what?

24 A. I think the real difficulty was two things. The  
25 American was -- recommended for blood banks to do it.

1           It was not mandatory. The FDA had not said, "You will  
2           do this". Nevertheless, commercial people in America  
3           were doing it.

4           That may have been done as what I would call  
5           gesture, to show that something was being done. It  
6           didn't actually add anything particularly to the value  
7           of the product.

8           At the same time, Dr Lane in the Blood Products  
9           Laboratory in London and, of course, Dr Perry and  
10          John Watt in Edinburgh, were of a similar view. Well,  
11          if we are going to come to self-sufficiency, if we are  
12          going to have a product which is equal, if not better  
13          than commercial products, then it would be wrong if  
14          suddenly your package insert said "Our material has not  
15          been tested for ALT". I think that's really the gist of  
16          it.

17          So one would say, well, if the UK were to follow the  
18          line of the commercial people and follow the line of the  
19          American blood banks, for whatever reason they were  
20          doing it, then Scotland and England and -- might well be  
21          forced to do the same thing. So it was a question of:  
22          let's get geared up, let's get geared up. If this is  
23          going to be mandatory, if we are required to do it, then  
24          fine, it has got to be done. But we weren't saying to  
25          people, "Well, you know, we can do it at no cost".

1           Clearly there is a big decision to be made somewhere.

2   Q.   What was your personal view, doctor, at the meeting?

3           Were you in favour of the introduction of surrogate

4           testing?

5   A.   Of surrogate testing for donors?

6   Q.   Yes.

7   A.   I think any test in a donor which would be valuable

8           would be okay, provided it met the purpose for which it

9           was intended.  So this is a question: could we do any

10          test?  Was any test better than none?  That's really

11          what you are asking me.  And if you want to put that

12          another way: would you say that cancer of the lung was

13          due to the purchase of washing machines?  Because the

14          two events run parallel.

15  Q.   We are not going to go into that?

16  A.   No, I know you probably don't want to go into that but

17          that's a bit of a dilemma.  Again, if other people are

18          doing it, there is a reason to think: well, maybe they

19          know something that we don't know.  Maybe we had better

20          look at this as a problem.

21  Q.   Put it this way, doctor, in 1983 we saw your view was

22          that you were not in favour of introducing surrogate

23          testing.  I simply wonder whether, come this meeting in

24          March 1987, your view had changed so that you were now

25          in favour of introducing surrogate testing?

1 A. I was in favour of doing donor testing, donor testing,  
2 looking at donors for a marker for something which might  
3 be useful in producing a good result. I was in favour  
4 of thinking about: if the commercial people are doing  
5 this and our fractionators are telling us that this is  
6 important to them, then it's something we should be  
7 thinking about. We must accede to their problem.

8 At the same time, we knew perfectly well that there  
9 might not be any particular advantage in doing it, in  
10 screening donors out of the system because again -- no  
11 doubt it will come out later -- if you take a pool of  
12 20,000 donors and one of them is positive for any  
13 marker, it is diluted 1 in 20,000. So the chances of  
14 detecting it are pretty slim. As I say, if you are  
15 looking for a needle in the haystack, you do not burn  
16 the haystack down.

17 Q. I'm going to break this down a little perhaps, doctor.  
18 If in 1987 the SHHD had said to the SNBTS, "You are the  
19 experts, if you think surrogate screening of donors,  
20 using ALT and anti-HBc tests, should be introduced with  
21 a view to trying to reduce the incidence of  
22 post-transfusion hepatitis, we will supply the money,"  
23 if that had been said, would you have supported the  
24 introduction of such surrogate screening testing?

25 A. Yes, I would have supported it, yes.

1 Q. Why?

2 A. Well, in order to try and answer the question, was it  
3 relevant or not, was it going to show that A equals B.

4 Q. Yes, and when I say introducing surrogate testing,  
5 doctor, I don't mean as a study, a research study,  
6 I mean introducing screening of donors using surrogate  
7 testing and not using blood with elevated ALT levels or  
8 positive for anti-HBc. That's what I mean by surrogate  
9 screening of donors.

10 A. I would have been in favour of doing it on the basis of  
11 big competition from the commercial companies. That's  
12 what I'm in favour of.

13 Q. I understand. So you would have been in favour of such  
14 screening because of -- the commercial competitors were  
15 doing it, rather than perhaps because you thought it  
16 offered -- well, let me ask you: did you think surrogate  
17 testing at that time offered benefits in increased  
18 patient safety?

19 A. No, not very much. No.

20 Q. I can certainly understand that for the pooled plasma  
21 products but how about for the blood components? Even  
22 for the components, were you of the view that surrogate  
23 testing wouldn't materially increase patient safety?

24 A. I'm very doubtful about its ability to do that.

25 Q. Why?

1 A. I think because I know that there are many, many other  
2 causes. I know that many people die of a whole variety  
3 of things. There is a thing called multiple pathology  
4 problem. There are multiple difficulties and I don't  
5 think that taking one particular one would have made  
6 much difference, especially since we knew from the  
7 studies that the ALT levels are much, much higher in  
8 other groups of the population which don't give blood,  
9 seldom give blood.

10 So we already had a idea of the likely numbers that  
11 might be involved in our donors' population. But  
12 screening them all to find one or two extra ones, fine,  
13 but I don't know what we would do with the results. We  
14 would have said: okay, those that are above 150 IU we  
15 will haul those out, we will not take these. Fine.

16 I think looking back now, that's probably true but  
17 we weren't looking at that, we were looking at figures  
18 of, you know, 2.5 times the norm. And it has been said,  
19 if you went to any ALT level, any ALT level at all, any  
20 elevation, you would probably take out a third of the  
21 donors.

22 Q. Yes. Am I right in thinking, doctor, from your answer  
23 that, in answer to my question why were you of the view  
24 that surrogate testing would not materially increase  
25 patient safety, one aspect was your view as to a low

1 prevalence of post-transfusion hepatitis, at least in  
2 the West of Scotland -- that's one aspect -- but mainly  
3 perhaps, secondly, simply the non-specificity, in  
4 particular of ALT testing -- both tests?

5 A. Yes, I think that's important. We also had some  
6 evidence from -- I think you probably know that the West  
7 of Scotland made all the dried plasma for Scotland, and  
8 every dried plasma bottle had an enormous label on the  
9 outside.

10 I'm sorry I haven't got one but I have got one of  
11 the last examples, stuck on the front "Hepatitis", it  
12 said, and a great cautionary label, "If you have any  
13 information about this, please let us know". The simple  
14 answer is no, there were no reports.

15 Okay, it might well have been that physicians and  
16 surgeons and so on would say, "Och, it's okay, don't  
17 worry, everybody gets a bit jaundiced". That's fine,  
18 but they weren't telling us. So I had no handle on the  
19 number of patients that were likely to get better or get  
20 worse. No idea. All I knew from my own studies that  
21 there were very few.

22 Q. I think it was known against that, doctor, in the 1980s,  
23 that, as regards non-A non-B Hepatitis, the majority of  
24 patients were not jaundiced, would therefore be -- one  
25 would have to be cautious with relying on the number of

1 reported cases as giving a true incidence of the  
2 problem. Is that correct?

3 A. Yes, that's right.

4 Q. Yes. Thank you, doctor.

5 Moving on a little but sticking in 1987, could  
6 I then, please, take you to a letter to The Lancet of  
7 13 June 1987. It's [\[LIT0010346\]](#).

8 It's a letter in the left-hand column headed "Non-A  
9 non-B Hepatitis surrogate testing of blood donations".  
10 We see the authors are Drs Dow, yourself and Dr Follett.

11 I'm not going to go through the detail of the  
12 letter, other than the final paragraph, if I may, which  
13 states:

14 "It would be prudent to do a UK study to assess the  
15 real incidence of acute post-transfusion NANB hepatitis  
16 and to assess the proportion of those chronically  
17 affected, before considering following the American  
18 surrogate testing policy."

19 There you seem to be suggesting some form of  
20 prospective study of recipients of transfusion?

21 A. Hm-mm. That's right, yes. I don't demur from that,  
22 yes. If it could be organised.

23 Q. Yes. So again a nice idea in theory --

24 A. A very good idea in theory but not practical -- very  
25 difficult to do practically.



1 Q. Although it does seem a little odd, I suppose, doctor,  
2 in that if your position in the 80s was that it's a nice  
3 idea in theory but not really practical, it seems a  
4 little odd that in this letter you are suggesting it  
5 would be prudent to do such a study?

6 A. I'm sorry, what did you say?

7 Q. Yes.

8 A. It would be ...?

9 Q. The final paragraph of this letter you say:  
10 "It would be prudent to do a UK study to assess the  
11 real incidence of acute post-transfusion hepatitis and  
12 to assess the proportion of those chronically affected."  
13 If by that you mean a study such as the American  
14 multi-centre study, it does perhaps seem a little odd  
15 that you would be suggesting such a study in 1987 if  
16 your view was that it was a nice idea in theory but not  
17 really practical.

18 A. I think what we are saying there is, if you look at the  
19 earlier part of that letter, there is a -- the problem  
20 is not as big as you think but if you want to do it,  
21 fine, it might well silence the people who were saying,  
22 "Oh, yes, yes, this is an extremely prevalent  
23 condition".

24 Q. Yes.

25 A. Because clearly, if you look at the information before,

1           it doesn't show that, that it's prevalent. It shows  
2           that in actual fact there are not very much cases in the  
3           United Kingdom compared to America.

4   Q.   Based on reported cases?

5   A.   Based on reported cases and based on information that  
6           was being examined by the people who were actually doing  
7           some testing at that time.

8   Q.   Yes.

9   A.   I mean, Follett and Dow are doing some of these tests.  
10          So, I mean, they are being done.

11   Q.   Is perhaps, doctor, another way to look at the final  
12          paragraph of this letter -- I think Dr McClelland's  
13          position when he gave evidence was that, I think, with  
14          the benefit of hindsight, he started to see some of the  
15          practical problems, which there would have been, in  
16          seeking to undertake a large multi-centre study  
17          involving follow-up of recipients. But I think his  
18          ultimate position was it probably could have been done  
19          if there was sufficient will at the very highest level,  
20          ie government, and money to do it -- I suppose it may  
21          be, is it possible there is an element of that in your  
22          final paragraph, that it would be prudent to do a UK  
23          study if somebody has sufficient will and money to do  
24          it?

25   A.   I think that's right. I think that the more you look at

1 this, the more you see that it didn't have an awful lot  
2 of support throughout the transfusion departments, both  
3 in the UK and in -- perhaps in Scotland, Ireland and in  
4 England.

5 I think often, when you look at blood transfusion,  
6 you have got to understand that there are doers and  
7 there are followers in terms of their ability within the  
8 regional blood transfusion centre. There would always  
9 be some transfusion directors who really didn't feel  
10 able or willing to organise such an event for the  
11 reasons that I have already said. Yet there were  
12 others, very academic people, who were saying, "Oh, yes,  
13 this would be worth doing".

14 Equally, there are other eminent people of an  
15 academic nature who were saying, "No, this isn't worth  
16 doing". And you have got this dilemma. You say, "Well,  
17 it might be prudent to do it, but I couldn't really say  
18 what the result might be".

19 Q. When you say -- or said in the letter it might be  
20 prudent to do it, you don't say anything in the letter  
21 about whether that would be an easy task or a hard task;  
22 you simply say it might be prudent to do it or would be  
23 prudent to do it. You are not giving any views in the  
24 letter about how easy such a study would be.

25 A. No, I couldn't say that. All I knew, from my

1           experience, was that blood transfusion is run by doers  
2           and followers.

3           Why Glasgow was chosen to do these kind of things?  
4           We could have sat back and done nothing but we didn't.  
5           We said, "No, we have got a group of people who are  
6           interested in all of these problems and it makes life  
7           interesting for them to be contributing". There are  
8           other people who are content to follow.

9   Q.   Yes.

10   PROFESSOR JAMES:   Could I ask you, Dr Mitchell, there seems  
11           to be a certain difficulty in your letter because in the  
12           first two paragraphs you and your colleagues report the  
13           results of essentially Brian Dow's survey over many  
14           years of the raised transaminases.

15   A.   Yes.

16   PROFESSOR JAMES:   And you came to the conclusion really that  
17           post-transfusion hepatitis was extremely rare in the  
18           West of Scotland on the basis of the number of  
19           individuals with really significantly raised  
20           transaminases. However, in this letter you state in the  
21           middle of the penultimate paragraph:

22           "Thus, when ALT follow-up studies are not done in  
23           transfusion recipients, only 1 per cent of hepatitis  
24           cases are reported. Conversely, 99 per cent of  
25           hepatitis cases are never brought to the attention of

1 transfusion centres ..."

2 So as a matter of fact, what was and is your view?  
3 Do you actually think that in retrospect very easy to be  
4 wise that your view, led by your colleagues' excellent  
5 research, that post-transfusion hepatitis was extremely  
6 rare in the West of Scotland was actually incorrect  
7 because the kind of studies that you referred to there,  
8 the careful follow-up studies, where 99 per cent of  
9 cases might then be turned up, had not been done?

10 A. I think that's one way of interpreting it. It's not one  
11 that I agree with particularly but I can see where you  
12 are coming from.

13 I think if you look -- I think around that time, if  
14 you remember, Alter in Holland and people like that in  
15 the States actually went to the trouble of saying that  
16 in retrospect, comparing three years of testing against  
17 two years of not testing, made no difference whatsoever.  
18 In a place where there was a high prevalence, very high  
19 prevalence, they were talking 10 per cent, was it,  
20 something of that order, maybe even higher in other  
21 places.

22 So I mean, when you were saying, well, maybe  
23 Scotland had a figure like that, we had nothing like  
24 that. We could only go on what was being told to us by  
25 clinicians. And we presumed that they were wise.

1 PROFESSOR JAMES: What I'm suggesting, though, is that we  
2 now know and actually you say in this letter that what  
3 you are told by clinicians is a gross underestimate, and  
4 I should say that I did a study myself in 1983 among  
5 cardiac surgery patients in whom I made the same -- in  
6 retrospect, what I now consider to be mistake in  
7 discarding a number of people with a very low elevation  
8 of transaminase but we now know that the natural history  
9 of Hepatitis C, non-A non-B Hepatitis, actually is that  
10 these elevations of transaminase are not necessarily  
11 very high and they are intermittent.

12 A. That's right.

13 PROFESSOR JAMES: So I'm just putting to you that actually  
14 Brian Dow's study, which was a very estimable study in  
15 the early 1980s, for reasons that we all subscribed to  
16 at the time, nonetheless produced an answer which turned  
17 out to be wrong, precisely for the reasons that you and  
18 he then enunciated in this letter. Do you think that's  
19 fair or not?

20 A. I think that's fair, based on the information that we  
21 had, yes. Based on what information we had.

22 PROFESSOR JAMES: Thank you.

23 MR MACKENZIE: Thank you. Doctor, the next document I would  
24 like to look at, please in this chain, moving on to  
25 16 June 1987, is [\[SNB0040672\]](#).

1           You will see, doctor, that is an extra meeting of  
2           the coordinating group of the SNBTS. If we can go,  
3           please, to page 3, under item 5 "Testing blood donors  
4           for non-A non-B Hepatitis", do you see reference to  
5           Dr McClelland:

6           "... tabled a draft letter to The Lancet in  
7           expansion of the SNBTS view of the need to commence  
8           surrogate marker screening ... in the context of product  
9           liability and of competition from commercial producers  
10          who would be introducing it. Certain SNBTS staff had  
11          already written to The Lancet that surrogate testing was  
12          not justified on scientific grounds and the directors  
13          acknowledged this."

14          So is that essentially consistent with what you have  
15          told us, doctor, that you weren't perhaps convinced on  
16          the need for surrogate testing on scientific grounds but  
17          you could certainly see the issue of competition from  
18          commercial producers? How about product liability? Was  
19          that an issue which featured in your consideration?

20        A. Yes. I think just looking back a bit on the criticisms  
21          from other places, one centre that also did a good  
22          study, I think, was Dr Contreras in the south, with  
23          John Barbara. They were actually sitting on the  
24          doorstep of a major hospital, so they were able to do  
25          the kind of prospective follow-up thing that perhaps we

1           couldn't do in our centre at Law Hospital. So having  
2           said that, they clearly were again of the view, well,  
3           this is something which is scientifically desirable but  
4           is not providing very much in the way of information.

5           On the question of product liability, product  
6           liability was something which clearly the Americans were  
7           particularly concerned about. That's one of the reasons  
8           they introduced ALT testing, as a gesture, "Let's do  
9           something".

10          At the same time, Britain, as I understand it, had  
11          a thing called Crown immunity at that time. And,  
12          therefore, what we knew as directors was that European  
13          legislation was coming along on product liability for  
14          all kind of medicines, including blood. People tried to  
15          arrange [sic] that blood wasn't really a drug, you know,  
16          it wasn't a proper drug, so it wouldn't come under the  
17          legislation. However, those that were wiser than us  
18          said, "No, sorry, you can't do that, it will be  
19          considered". So therefore, we were saying, well,  
20          product liability may force us into this situation of  
21          doing something in order to be just similar to the FDA,  
22          which was -- it would carry a bit of weight in this  
23          country.

24          At the same time the English -- when that letter was  
25          published, there was an immediate outcry from the



1 English directors. They were deeply disappointed that  
2 Scotland should attempt to go it alone or even suggest  
3 that such a thing should be done.

4 Q. Yes.

5 A. So they were perhaps less favourable than we were on the  
6 question of product liability.

7 Q. Yes. And we see that --

8 A. We could see it coming.

9 Q. We can see the final entry in the minute is that:

10 "After a few editing points were made, each director  
11 signed an amended copy of the letter which  
12 Professor Cash would submit for publication."

13 I take it, doctor, you were quite happy to sign the  
14 letter at that stage?

15 A. Yes.

16 Q. Could we then, please, go to the letter for  
17 completeness? It's [\[LIT0010328\]](#).

18 We can see, sir, a letter published in The Lancet on  
19 4 July 1987 under the heading "Testing of blood donors  
20 for non-A non-B Hepatitis: irrational, perhaps, but  
21 inescapable."

22 Could you just read, please, doctor, the first  
23 paragraph to yourself? (Pause).

24 Do you see the part:

25 "No large study to answer this critical question has

1 yet been presented and we agree that the size of the  
2 benefit to be gained from surrogate testing cannot be  
3 accurately established without such a study. However,  
4 the time for this study has already passed. Starting  
5 now will give us an answer in 3-4 years -- and that is  
6 probably 3 to 4 years too late. The introduction of  
7 surrogate marker testing for NANB is now virtually  
8 inescapable ..."

9 So is your position in this letter, doctor, you  
10 agree with the proposition that it's too late to seek to  
11 undertake a large multi-centre prospective study,  
12 instead surrogate testing should simply be introduced?

13 A. Yes, I think that's right. I think we were forced into  
14 that decision on the basis of -- on scientific  
15 information, but this question of: is it better to do  
16 something than nothing?

17 And, of course, we also knew at that time -- I think  
18 that's about -- what is it? -- 1987 or 1988 -- I think  
19 it was quite clear -- I think in my first statement  
20 about non-A non-B you will see that I say despite all  
21 this controversy that was going on about levels of ALT,  
22 did they have it or did they not, all that stuff,  
23 eventually what I said in my witness statement was,  
24 I think it was something like -- the word I wanted to  
25 use was "ultimately it was decided that something would

1           come along". In actual fact when I first wrote it, what  
2           I said was:

3                   "Mercifully something had come along."

4           We knew that something was coming along nicely.  
5           Chiron were introducing a test based on a virus that  
6           nobody had ever seen --

7   Q. Yes.

8   A. -- which nobody had ever shown to obey the normal  
9       postulates of Koch and other people, who knew about  
10      transmission of infection.

11           So I think again you are right, there was an  
12           inevitability of doing something.

13   Q. Thank you. The last document I would like to take you  
14      to, please, doctor, before coming to your statements,  
15      [\[SNB0113846\]](#).

16           If we go over the page, please, we will see it's  
17           a letter from Professor Cash. If we go back to the  
18           first page, please, it's a letter to Dr Fraser, the  
19           director in Bristol, 8 July 1987.

20           It perhaps provides some further context for the  
21           letter we have just looked at in The Lancet:

22                   "1. The SNBTS directors do not wish and currently  
23           have no intention, of introducing NANB surrogate testing  
24           unilaterally."

25           Would that have been your position at the time as

1 well?

2 A. Yes, I think that's obviously a winner, yes.

3 Q. Why was that?

4 A. Well, we were quite well respected among our English  
5 colleagues, and they were among us. There was no reason  
6 to think that the population of Scotland and England  
7 were anything different and, therefore, there was  
8 a feeling that if we don't hang together, we will surely  
9 hang separately.

10 I think Professor Cash makes it clear there that  
11 this -- again this idea of introducing, "Let's clear the  
12 decks, let's get started in case there is an argument  
13 somewhere upstairs that says, 'Yes, you have got to do  
14 it because product liability we can't assume that we  
15 will be excused. We are committed to using, wherever  
16 possible, British products, we are not prepared to  
17 continue buying products from abroad, which we know  
18 carry a tremendous risk. Therefore, please carry on,  
19 get something up and running.'".

20 And, therefore, the public expenditure survey, as he  
21 rightly said, was over a period of years, not months.  
22 So that's right, we were in that position.

23 And as I said, the English directors were very, very  
24 worried about that because they had no central funding.  
25 Remember, they actually were funded from regional health

1 authorities, and they had to persuade their local  
2 treasurer that it was worthwhile doing or not. So there  
3 you had 15 individual directors going round 15  
4 individual finance directors asking for something to be  
5 done, the money.

6 At least in Scotland we had one place that we went  
7 to for money. Some people took the view, rightly,  
8 I think, and quite true, that a service like the Blood  
9 Transfusion Service had no right to be doing research of  
10 any kind. If you want to do research, go and get  
11 a research grant. Don't ask the health service to  
12 support you.

13 Now, some of us didn't agree with that but there was  
14 an element of a feeling among some people that blood  
15 transfusion was a service and just you deliver  
16 a service, don't get involved in the politics and the  
17 science of the subject. I am afraid if that did happen,  
18 we would be nowhere today.

19 Q. Let me ask you this, doctor, what would have had to have  
20 been in place for surrogate testing to have been  
21 introduced in Scotland at this time. I assume funding  
22 would obviously have had to have been in place. Is that  
23 right? Secondly, the agreement of the English  
24 transfusion directors. Was that correct?

25 A. Hm-mm.

1 Q. How about the approval of the SHHD and perhaps DHSS?  
2 Were they elements as well?

3 A. Oh, yes, they were the money lenders. Clearly you don't  
4 go ahead with these things without finance, regardless.  
5 I mean, there were all sorts of problem with that. Not  
6 just doing the test but all the things that follow on  
7 from the test. What are you going to do with all these  
8 donors that have nothing wrong with them?

9 Q. What I wonder, doctor, looking at Professor Cash's  
10 letter, on the face of the letter, when one looks at  
11 paragraphs 2, 3 and 4, just to take a second to read  
12 them. (Pause).

13 Reading those paragraphs 1, 2, 3 and 4 by  
14 themselves, it may give an inference -- well, they may  
15 beg the question: how serious were the Scottish  
16 directors in seeking to introduce surrogate testing?  
17 I wonder whether the answer is -- and tell me if I'm  
18 wrong -- is that if these other elements were in place,  
19 funding, agreement of English directors, approval of  
20 SHHD and perhaps DHSS, then the Scottish directors were  
21 serious about recommending introduction of surrogate  
22 screening for the reasons you have discussed? Is that  
23 fair?

24 A. Yes, I think that's fair. If there had been nothing  
25 else on the horizon. I think they would have been

1           forced into doing this, much against their better  
2           judgment, much against my better judgment.

3           Again, I just keep coming back to the idea that, you  
4           know, it's reckoned there are 50,000 people in  
5           Britain -- in Scotland who carry Hepatitis C, 50,000.  
6           There is 179,000 in the world who are carrying  
7           Hepatitis C. Now, you are not going to tell me they are  
8           all blood donors.

9   Q.   I'm not sure the figures are right, doctor.

10  A.   That's the figures, they have been published.

11  Q.   50,000 Hepatitis C --

12  A.   50,000 in Scotland.

13  Q.   And how many in the world?

14  A.   179,000 I think it is.

15  Q.   That would suggest --

16  A.   This was published by David Goldberg, and it was also  
17       published in the Viral Hepatitis Journal from one of the  
18       speakers in a symposium in Edinburgh, one of the  
19       Professors of Medicine in Edinburgh.

20  Q.   We may have to check --

21  A.   When the -- it's not at that time but subsequently  
22       that's the kind of figures that are being bandied about.

23  Q.   We may have to check them but you suggested --

24  A.   I have got the paper with me, if you want to see it.

25  Q.   Is it perhaps 180 million in the world?

1 A. I beg your pardon, yes.

2 Q. That would make more sense.

3 A. Sorry, that's right. Yes, I beg your pardon, I'm  
4 forgetting the world is a big place. I'm talking really  
5 about the Scottish figures. I have got the paper with  
6 me, if you would like to have a look at it.

7 Q. Scotland can claim many things but I don't think we can  
8 claim to have about a third of the world's population of  
9 Hep C carriers.

10 A. In some parts of Africa, you would be surprised.

11 Q. I have no more documents to take you to but you have  
12 provided two statements I would like to take you to for  
13 completeness, please. The first one is [\[WIT0030116\]](#).

14 By way of explanation, we asked a number of standard  
15 questions to all of our witnesses, and you have provided  
16 the following responses. We don't have the questions in  
17 your statement but I will give an indication of the  
18 questions.

19 Questions 1 and 2 related to the consideration given  
20 by the SNBTS in the 1980s to surrogate testing and also  
21 the research into surrogate testing undertaken by SNBTS.  
22 I think what we might simply do is take all of your  
23 answers as read, but I will ask you some questions about  
24 them.

25 So the answer to paragraphs 1 and 2, you explain



1           that:

2           "Consideration was given by the SNBTS to introduce  
3           surrogate tests ..."

4           You refer to the work being undertaken by Dr Follett  
5           and Dr Dow to identify a serological marker for the  
6           disease, and the problems with specificity and the  
7           disease remaining a diagnosis of exclusion. We can read  
8           the rest of that answer for ourselves.

9           Then at paragraph 3 we asked why the multi-centre  
10          study into surrogate testing for NANBH did not include  
11          a Scottish transfusion centre, and you say you have no  
12          knowledge of that.

13          We can see what else you say there.

14          In paragraph 4 --

15   A. I'm not sure just what is the purpose of the question.

16          I don't know whether they were doing ALT as the basis of  
17          that study that you describe or whether it was the  
18          introduction of Chiron test. It's certainly true that  
19          England did some studies of Chiron in the early 1989s  
20          and Glasgow did them as well --

21   Q. Yes --

22   A. -- but with different kits from the same manufacturer.

23   Q. Yes, I appreciate the question of surrogate testing and  
24          the Chiron testing. They do merge at one point. There  
25          is clearly an overlap, but I will seek to keep the

1 overlap to a minimum because obviously you are coming  
2 back next week to tell us about Chiron and Hepatitis C  
3 screening.

4 A. It's just that when I saw the test kits from  
5 manufacturers were obtained, that's because we were  
6 obtaining sample test kits from Organon and Abbott and  
7 Ortho.

8 Q. We should understand the reference to test kits from  
9 manufacturers --

10 A. I think that's --

11 Q. -- as relating to the anti-Hepatitis C test kits.

12 A. We certainly don't know of any test in England which was  
13 doing ALT testing as, you know, introducing surrogate  
14 testing. I don't know of anyone who was doing that.

15 Q. No, the question was:

16 "Why the multi-centre study into surrogate testing  
17 for NANBH conducted at Edgware, Manchester and Bristol  
18 did not include a Scottish blood transfusion centre."

19 And I think you will remember at the transfusion  
20 services Working Party on Transfusion-Associated  
21 Hepatitis, it was agreed that a multi-centre study into  
22 surrogate testing of donors would be undertaken, not  
23 recipients, but donors, and I think that study duly took  
24 place and Dr Gunson produced a paper.

25 So that's the reference to the multi-centre study.

1 It wasn't, at least at that stage, to do with the Chiron  
2 Hepatitis C test. But it may be that in your answer --  
3 it may be the reference to "test kits from  
4 manufacturers", you perhaps are referring to the  
5 Hepatitis C test.

6 A. Hm-mm.

7 Q. I understand, thank you. Paragraph 4 we asked:

8 "Why it took until October 1988 before the  
9 multi-centre study into surrogate testing commenced."

10 It was just a puzzle on our part. I think we have  
11 since -- there is further documentation which perhaps  
12 will help us solve that puzzle.

13 But in terms of your answer, I think certainly the  
14 second part of the answer on that page, the second half  
15 of it, I think, again deals with Hepatitis C Chiron-type  
16 testing. So I won't go into that today.

17 Over the page, please, I think again the paragraph  
18 at the top of the page, again I think --

19 A. I think I can say that the reason there was a delay was  
20 because there is a delay in manufacturers supplying the  
21 material.

22 Q. Hang on, doctor, you mean there you are talking about  
23 the Chiron Hepatitis C test?

24 A. Yes.

25 Q. Put that to one side today, please.

1 A. Okay.

2 Q. We are trying to stick to the surrogate testing, the ALT  
3 and anti-HBc. I appreciate there is an overlap and  
4 I can appreciate why the Hepatitis C tests are included  
5 in your statement.

6 Then paragraph 45, the question was:

7 "When the SNBTS sought funding from SHHD to  
8 introduce surrogate testing, including when it was  
9 proposed to introduce such testing ..."

10 Your answer in paragraph 5, I think, again relates  
11 to Hepatitis C testing. So, again, I'm not going to  
12 take you to that.

13 In paragraph 6 we asked:

14 "Why the SNBTS first sought funding from the SHHD in  
15 1986, the introduction of surrogate testing in 1987."

16 Your answer 6, doctor, is that again to do with the  
17 Hepatitis C Chiron test, rather than the ALT and  
18 anti-HBc tests?

19 A. I think it's a bit of both actually. Because clearly  
20 there was a succession of requests to the SHHD, as you  
21 probably know, over a number of years of the PES  
22 document. But I think sort of in the middle of that, in  
23 came Chiron. So it knocked the whole idea of rapid,  
24 massive introduction of ALT to one side.

25 Q. Yes. Thank you.

1 A. Although ALT was still done on HCV-positive individuals,  
2 quite clearly. In a way you were looking back at the --  
3 getting an answer to the first question by doing the  
4 second.

5 Q. Yes, thank you. And then question 7, I think we have  
6 covered, in that we asked the question why the directors  
7 agreed at their meeting on 3 March 1987 that surrogate  
8 testing should be introduced. So I won't go back over  
9 your answer, other than to say I think in the second  
10 last line you refer to your "retrial".

11 A. That's --

12 Q. I think that's your retiral, I think?

13 A. Yes, I did say to Susan Murray that statements like that  
14 had a propensity to become realistic. I did seek to  
15 have it changed but unfortunately it hasn't come.

16 Q. We will change it now. We take out "retrial" an we'll  
17 insert "retiral" --

18 A. I did notice it when I -- write about it actually.

19 PROFESSOR JAMES: Were you convicted, Dr Mitchell?

20 A. I stood on the shoulders of giants.

21 MR MACKENZIE: The next two questions, 8 and 9, asked about  
22 the steps taken by the SNBTS and when to prepare for the  
23 introduction of surrogate testing. And 9 was estimates  
24 at the time of the likely costs of introducing surrogate  
25 testing. Again, I think we can explore these matters,

1 certainly the question of funding and costing, with  
2 Professor Cash in more detail when he comes.

3 Paragraph 10, we asked:

4 "Why surrogate testing was not introduced in  
5 Scotland."

6 You say it was not:

7 "... introduced in Scotland and elsewhere but was  
8 never abandoned as a desirable procedure. It was  
9 necessary to proceed with caution and accuracy for the  
10 benefit of patients and donors."

11 Reference to Chiron, we can see. Paragraph 11 over  
12 the page, please.

13 A. If can I just say about paragraph 10, I think it's  
14 important to say that if there was a good test, we would  
15 all have been doing it. I think that's important to  
16 realise that. It's not a question of hanging back.

17 We were cautious; that's right. I mean, when I left  
18 the transfusion centre, they used to say that Mitchell  
19 was the negative control in much of the discussion  
20 because I was always cautious about things and realised  
21 that, well, there is money at stake. And I just want to  
22 make that point, that if there was a good test, we would  
23 all have been doing it.

24 Q. And that's perhaps illustrated by the Chiron Hepatitis C  
25 test?

1 A. That's where the change came.

2 Q. There came a point when everybody was doing that test?

3 A. That was it. That was the Holy Grail. That was what we  
4 were looking for.

5 Q. Thank you.

6 Then question 11 we asked:

7 "If surrogate testing had been introduced in  
8 Scotland, the extent to which the incidence of  
9 post-transfusion NANBH or Hepatitis C is likely to have  
10 been reduced."

11 And you replied:

12 "Introduction of suitable surrogate tests ... would  
13 in my view reduce the possibility of non-A non-B  
14 Hepatitis but by how much I cannot calculate because the  
15 early tests were unreliable ..."

16 Then a reference to a Journal of Hepatitis article  
17 I won't go to, but the reference is [\[PEN0171891\]](#).

18 Question 12 we asked:

19 "If surrogate testing had been introduced, the  
20 percentage of donations that are likely to have been  
21 rejected and whether that may have caused a problem in  
22 maintaining a sufficient blood supply."

23 And we can see your answer in paragraph 12.

24 How about the question, doctor, if 4 or 5 per cent  
25 of blood donors had been lost in the West of Scotland,

1 would that have created a problem for the blood supply?

2 A. Yes.

3 Q. Would that be an insurmountable problem?

4 A. With sufficient drive perhaps it could have been  
5 overcome, and I think there was a change of policy,  
6 remember, in -- well, statements about stop doing single  
7 pint transfusions, single unit transfusions. Take those  
8 out of the equation. So most people getting blood after  
9 that were multiple transfusions, they were being given  
10 more than one unit at a time, perhaps many units.

11 And so the answer to that is, yes, we could probably  
12 have overcome the problem. It would have taken a lot of  
13 additional advertising, and it's difficult to see how  
14 you would recruit donors faced with the knowledge that  
15 you were imparting through their colleagues at the  
16 workplace, who were not infected, but had a marker which  
17 was putting them off-service. They would be saying to  
18 themselves "Well, I'm not going. If you are not going  
19 to go, I'm not going because I might be turned down the  
20 same as you". And once you are turned down, then you  
21 have a problem. I have said to you many, many times,  
22 a donor becomes a patient for whatever reason.

23 Q. And we should perhaps be cautious in thinking the figure  
24 may just have been 4 or 5 per cent. If one donor says  
25 to another "I had a bad experience, and they said this



1 to me", and it put off others too?

2 A. I think you are reading some of the literature that  
3 I read recently on this particular inquiry. I think  
4 many donors are now turned down for a variety of  
5 reasons, and I just do not know how they can manage with  
6 some of the questions which are asked -- are quite  
7 difficult for donors to answer.

8 We tried, remember, to do a bit of advertising with  
9 massive television coverage. What happens with that is  
10 it goes up for a week or two and then falls back again.  
11 The natural donor volunteer rate is around 5 per cent of  
12 the population. It goes up and down a little bit. If  
13 you get the Gulf War coming along, everything goes, no  
14 problem, let's give -- big, big problem there. But at  
15 the same time if you don't keep up the pressure on the  
16 donor population, they don't come. Many of them don't  
17 come back a second time.

18 Q. Yes.

19 A. For various reasons.

20 Q. There is then a continuing effect, if one donor would  
21 otherwise have come back again and again and again and  
22 again, that donor doesn't come back ever again --

23 A. That's right.

24 Q. -- then perhaps some sort of accumulating effect, a sort  
25 of an ongoing effect certainly.

1 A. Yes, it's cumulative.

2 Q. Yes, thank you. Then question 13 we asked about the two  
3 letters in The Lancet of June and July 1987, but I have  
4 asked you about that in your oral evidence. So we can  
5 move over to question 14.

6 This was a quite a narrow question that:

7 "The minutes of the first meeting of the UK Blood  
8 Transfusion Services Advisory Committee on  
9 Transfusion-Transmitted Diseases on 24 February 1989."

10 It's mentioned in the preliminary report in  
11 paragraph 9.109, you refer to:

12 "A Glasgow study of 5,000 donations on which ALT was  
13 tested and a separate study of 2,000 donations in which  
14 anti-HBc was tested."

15 I don't think we have to go into the details of  
16 that.

17 A. No, just the statement co-infection can occur --

18 Q. I see.

19 A. -- and that's quite obvious with virus diseases. It's  
20 often -- you know, the type of person who gets  
21 Hepatitis B or HAV or other viruses, these are often  
22 what people would call a culture plate waiting to be  
23 colonised. So there is a lot of cross-fertility in  
24 that particular regard. Co-infection is quite  
25 important.

1 Q. Thank you. Doctor, I think we have covered really, all  
2 of the main matters I wish to put to you, but again  
3 simply for completeness, we did ask some supplementary  
4 questions and you kindly provided a statement. It's  
5 [\[PEN0171897\]](#).

6 Can I just ask, doctor: how was this statement  
7 produced? Did you type up the answers or what?

8 A. No, that would be done in Susan's office.  
9 Susan Murray's office --

10 Q. So did you dictate them or write them down?

11 A. She would have one of the typists type it for me.  
12 Jennifer would type that for me.

13 Q. From your handwritten notes?

14 A. Often by my dictated note. But sometimes I would send  
15 a handwritten one with it, if there was a difficulty  
16 about understanding a word or whatever.

17 Q. Okay.

18 A. But it worked quite well.

19 Q. The first question we asked was:

20 "Should a large-scale prospective study have been  
21 carried out in the UK in the early 80s".

22 I think we have gone over that today, this morning,  
23 doctor, so I think we will just take your written answer  
24 as read, please.

25 Then in question 2 we asked:

1            "If such a study had been carried out, to what  
2 extent it's likely to have met its objectives."

3            You say:

4            "Such a study would not have provided useful  
5 pointers to the cause or causes of non-A non-B  
6 Hepatitis."

7            We can quite understand that.

8            Paragraph 3 we asked about the work of Drs Dow and  
9 Follett. In your response, doctor, you say:

10           "The findings of Dow and Follett were carried out  
11 using a wide range of serum samples from a variety of  
12 individuals and their findings could not have detected  
13 subclinical infection, since there were many possible  
14 causes. The SHHD figures were partly based on  
15 observation in a low level of clinical notification."

16           SHHD figures? What's that a reference to, do you  
17 remember?

18 A. I'm not sure which figures you're referring -- did the  
19 question not ask what the figures were? I'm sorry,  
20 I don't have the question 3 that you asked. What did  
21 you ask?

22 Q. It's on the previous page. I'm sorry, no, it's on that  
23 page. It's question 3.

24 A. "Did the inclusions ..."

25           Yes.

1 Q. It may be that there has been some sort of typographical  
2 error, I don't know.

3 A. I'm sorry, it's the question of SHHD figures. That's  
4 Scottish figures. That's the figures which we had  
5 obtained, which were the only figures available at that  
6 time.

7           There were some other samples -- you see, that was  
8 done on the basis of Dr Cash asked the West to do  
9 a study taking account of samples from Aberdeen,  
10 Edinburgh, Dundee, and so on, and they all piled in with  
11 whatever they could supply. Some of them put in  
12 haemophiliacs, some put in chronic dialysis patients,  
13 some put in people who had immuno-suppression for other  
14 reasons, and so on. So there was a variety of patients  
15 put in and donors.

16 Q. Are we talking now about the Chiron hepatitis?

17 A. No, we are talking about this particular group of tests,  
18 this particular group. Now that was -- yes, it was  
19 Chiron, yes. It was Chiron. But as I said to you,  
20 a lot of Chiron was also done with ALT testing.

21           Some of the ALT tests were already known from the  
22 person who gave us the sample. It would be known  
23 whether they were positive or not from Aberdeen or  
24 wherever.

25 Q. I don't want to go into Chiron today. We will come back

1 to that next week.

2 A. I'm saying the figures were probably based on that low  
3 level of notification that we had. But the study was  
4 done on samples provided by the other Scottish centres.

5 Q. Thank you.

6 A. As well as our own.

7 Q. Question 4 we won't go into, that's the question of SHHD  
8 medical officers, and you haven't provided a written  
9 answer. We can explore that with the officers  
10 themselves.

11 Question 5, going over the page, I'm sorry --  
12 question (a) we can see what that says.

13 Question (b), the blood supply, we have looked at  
14 already.

15 Question 5(c), we asked:  
16 "To what extent ... if surrogate testing had been  
17 introduced, cases of post-transfusion Hepatitis C are  
18 likely to have been prevented."

19 And you said, doctor:  
20 "The 0.088 per cent HCV positives confirmed by  
21 specific and sensitive second generation tests and  
22 beyond, is low."

23 Do you mean by that there was a low prevalence of  
24 Hepatitis C in Scottish blood donors?

25 A. Yes.

1 Q. You then go on to say:  
2 "5 per cent of these HCV-positive samples showing --  
3 A. I'm sorry, that's 59.  
4 Q. I'm sorry, I understand:  
5 "... 59 per cent of these HCV-positive samples  
6 showing elevation of ALT above three times normal would  
7 mean that 50 per cent of 0.088 per cent, which is  
8 arithmetically very low, compared with ALT elevations  
9 reported for other reasons."  
10 I see.  
11 A. That's right.  
12 MR MACKENZIE: Thank you, doctor.  
13 Sir, I have no further questions for Dr Mitchell.  
14 A. I think the important thing is we had come from  
15 3 per cent hit rate down to 0.6 per cent hit rate, down  
16 to 0.63 per cent hit rate, down to 0.088 hit rate, over  
17 the period of time that the studies were done. So that  
18 was a sort of benefit by doing the second and even third  
19 generation tests. It had put the marker on -- a real  
20 marker on Hepatitis C virus. We could confidently say  
21 to someone at that time, "You have got it. We know you  
22 have got it. We have the evidence you have got it". We  
23 couldn't say that to the chap who was tested three years  
24 previously. Sorry.  
25 THE CHAIRMAN: We will have a break at that stage, I think.

1 (11.00 am)

2 (Short break)

3 (11.18 am)

4 THE CHAIRMAN: Mr Di Rollo?

5 MR DI ROLLO: Sir, Mr Dawson is going to question the  
6 witness.

7 THE CHAIRMAN: Mr Dawson?

8 Questions by MR DAWSON

9 MR DAWSON: Thank you, sir.

10 Good morning, Dr Mitchell. I just have a few  
11 questions for you.

12 Could I have up to the screen, please, document  
13 [\[SGH0016653\]](#) and in particular page 6?

14 Dr Mitchell, you will remember this document to  
15 which you referred earlier. It's the minutes of the  
16 SNBTS directors meeting from 3 March 1987, and in  
17 particular here we have the passage relating to the  
18 directors having discussed the options relating to  
19 surrogate testing and the recommendation that was made.

20 Do you remember that passage?

21 A. Yes.

22 Q. In your earlier evidence, would I be correct in saying  
23 that the reason why you voted for this recommendation at  
24 that time was as a gesture to appease the fractionators?

25 A. Yes, that was one of the reasons, yes.



1 Q. Was that one of the reasons or was that the reason?

2 A. I think that was the main reason.

3 Q. The main reason, as far as you were concerned?

4 A. Yes.

5 Q. Could I just ask you, at this stage -- this

6 is March 1987 -- the background, as far as fractionation

7 processes are concerned, is that we are on the verge of

8 having a heat-treated concentrate --

9 A. Yes.

10 Q. -- which I think came in in the next month. Is that

11 right?

12 A. That's right.

13 Q. And obviously one is dealing with a product which is

14 made from very large pools. That's correct, as well,

15 isn't it?

16 A. Yes.

17 Q. What safety value did you think surrogate testing would

18 have, as far as the fractionated products were

19 concerned?

20 A. Not a lot. For the reasons I have already said about

21 the question of dilution. So when some people said,

22 "Oh, you must test the serum, not the plasma going in",

23 fine.

24 But, again, in the background of that, when they

25 were making that sort of request from the fractionators,

1 Bob Perry was sitting on -- I think the figure he has  
2 given in one of the papers, 50 tonnes of what you would  
3 call untested plasma.

4 Dr Richard Lane was sitting on a very large amount  
5 of material, which was either in process or had been  
6 processed, and was not up to that standard being  
7 required by the commercial people.

8 So at the advisory committee meeting, of which I was  
9 a member, with the methods(?) committee, at that time  
10 there was discussion, "What are we going to do with this  
11 plasma, all these materials?" It was led that if the  
12 test -- if no test was available and they were happy  
13 about the heat treatment, there was an option of: would  
14 we destroy the plasma or would we dispose of it?

15 And the question was: well, perhaps we could get --  
16 dispose of it. One of the options. I said, "No".  
17 I think you will see in the minute, Dr Mitchell said it  
18 was an option, there were other options available. One  
19 was obviously we could -- there was a question of  
20 whether we should export it. We could have exported it  
21 and who would have benefited from that product which had  
22 not been tested.

23 The Third World is desperate for that kind of  
24 material. As I say, where I have worked in the past, to  
25 be seen by the doctor is a privilege, to be given

1 a blood transfusion or to be offered something like that  
2 is something really quite spectacular. You must have  
3 seen in recent conflict, not wishing to go into it too  
4 much, but in recent conflict the problems that they have  
5 of resuscitation of patients is unbelievable because  
6 they don't have access to this kind of material.

7 So there was a lot of forces in the background  
8 suggesting that, "Listen, we need to get this done, if  
9 we are to salvage and save the fractionators and what  
10 they have available".

11 Q. But as far as the actual safety value of surrogate  
12 testing for the fractionator product --

13 A. I doubt very much if it would have made any difference.

14 Q. If could we focus -- I think you have already covered  
15 this area as well, but I just want to be clear as to  
16 your position. As far as the blood that was being taken  
17 and was destined for patients for transfusion was  
18 concerned, I think your position in your earlier  
19 evidence was that it was doubtful as to whether there  
20 would be any safety value associated with surrogate  
21 testing for those patients as well. Is that right?

22 A. I think that's right. Again, I'm only basing that on  
23 Dr Dow's work.

24 Q. Yes but, that was --

25 A. That was my opinion --

1 Q. -- position at the time.

2 A. -- based on what other centres had sent to us and what  
3 we had discovered in our own archives within the  
4 regional centre in Glasgow with patients that were  
5 referred to as allegedly post-transfusion hepatitis.  
6 Looking at them, we thought: well, it's pretty low level  
7 problem. You know, when I last -- when I finished the  
8 evidence, just before tea, you were asking me what did  
9 it mean by 0.088. Well, Professor Goldberg has written  
10 that the chances of getting a blood transfusion causing  
11 PTH today is one in 2 million.

12 Q. Just to look at the minute, which we have up on the  
13 screen there, after the recommendation that's set out in  
14 the first sentence -- this is the bold passage -- we see  
15 there where it says:

16 "Each director should let Dr Cash know what funds  
17 would be required."

18 So obviously the idea was that the recommendation  
19 had been made and you would be committed to spending  
20 a certain amount of money, I think as you have said, and  
21 you would be sent away to work out precisely what that  
22 amount would be. Is that right?

23 A. That was right. That was done I think basically by  
24 John Francis the finance chap in the headquarters.

25 I think they all were pretty well aware of how much

1 the tests cost, how many people you needed to do it,  
2 that kind of thing, how long did a test take. That was  
3 already known.

4 Q. Okay.

5 A. So it wouldn't be too difficult to work out the actual  
6 cost.

7 Q. I just want to get your reaction to this proposition,  
8 Dr Mitchell, that as someone responsible for the safety  
9 of blood in Scotland, as you were at that time, your  
10 position was that you at this meeting voted for  
11 a recommendation to introduce a safety measure which you  
12 thought would have little or no value, as far as safety  
13 was concerned?

14 A. So far as patients were concerned, I don't think it  
15 would have made an awful lot of difference.

16 Q. Despite that you voted for it?

17 A. I voted for it on the reasons I have just been saying  
18 that you have a problem with the fractionators and the  
19 presence of -- it's okay saying, yes, they were about to  
20 introduce heat treatment, but we don't know. I mean,  
21 PFC, Edinburgh, were still doing evaluations of the heat  
22 treatment systems. I can't speak for them but I don't  
23 know when they would be able to say hand on heart, "Yes,  
24 it's okay, we have managed to salvage all this  
25 material".

1 Q. Would it be correct to say that at about this time  
2 within the SNBTS directors group it was  
3 Dr Brian McClelland that was taking the lead on this  
4 issue?

5 A. Yes.

6 Q. Yes. I think yesterday Professor Cash referred to the  
7 leadership of Brian McClelland in connection with this  
8 issue, but that was your recollection as well?

9 A. Yes.

10 Q. Did you discuss with Brian McClelland what his reasoning  
11 was for voting for the recommendation at this stage?

12 A. Brian had put up his reasoning on at least three  
13 occasions. The protocol of his work and so on had been  
14 well discussed in very many places. So he was well  
15 aware of his reasoning, yes.

16 Q. To be fair, Dr Mitchell, I may have not asked that quite  
17 clearly enough because the protocol you are talking  
18 about, this is the protocol that he had put up on  
19 a number of occasions looking to institute a large-scale  
20 study, but by this stage it appears that the  
21 recommendation is not to have a study but instead to go  
22 straight to testing. So his position appears to have  
23 evolved, if not changed.

24 So what I'm asking you is whether you had discussed  
25 at this point in time, that's March 1987, with

1 Dr McClelland, what his reasoning was for voting for  
2 this recommendation?

3 A. I think his reasoning would be the same as mine, which  
4 we were, as I said, faced with the problems of the  
5 fractionators and product liability.

6 Q. In his evidence Dr McClelland was asked what part  
7 patient safety played in this decision being taken at  
8 this time. And he said:

9 "It was the factor ..."

10 In his consideration as to whether this  
11 recommendation should be made. That doesn't seem to  
12 accord with your evidence as to what your reasoning was.

13 Is that correct?

14 A. Yes, I can only go on what we knew.

15 Q. Yes.

16 A. But the only people that had actually done a study in  
17 Scotland at that time of that amount of depth -- we  
18 could only go by what we knew, and what we knew, and as  
19 Brian Dow I think said in his thesis, it was a small  
20 problem, it was a low problem, low priority, nothing  
21 like AIDS or any of the other things. And you asked  
22 earlier about was that the basis of the SHHD figures.  
23 The answer is yes. I think the SHHD had a copy of  
24 Brian's thesis, from which the figures were quoted,  
25 I think. Having seen that from Dr Forrester.

1 Q. There is just one other area I wanted to explore with  
2 you, because I think it's something that you have  
3 mentioned in your evidence before and I think you  
4 recognise that. It's the concept of a donor becoming  
5 a patient as a concept. I think a phrase that you have  
6 used a couple of times.

7 I just want to explore with you the fact that surely  
8 in some cases it's a good thing that donor becomes  
9 a patient because in testing that donor, you found out  
10 that the donor has some medical problem and that donor  
11 can thereby receive medical assistance. Is that right?

12 A. Yes, absolutely.

13 Q. So the idea of a donor becoming a patient isn't per se  
14 a reason not to do testing?

15 A. No, provided the basis on which you make him a patient  
16 is justifiable. The fact that he has got, you know,  
17 a marker, doesn't mean to say he is going to die  
18 tomorrow. It doesn't mean to say he is going to die in  
19 20 years' time. As we now know that people who have  
20 received various products and so on have had the fortune  
21 of living a much longer time than they would have done.

22 And it was a question really of saying to yourself,  
23 isn't it fortunate that heat treatment and so on came  
24 along, that people who previously had a very low  
25 expectation, had a very considerable increased lifespan



1 with all that goes with it, whereas a donor who was  
2 found positive for whatever reason was turned down?  
3 What do you say, "Go and see your GP"? The GP  
4 immediately phones us and says, "What does this mean?"  
5 "I don't know what it means, but I know what you are  
6 getting at". But he says to me, "But this chap is  
7 sitting in front of me and he is dead scared, he's  
8 worried, 'What's going on happen to me?' I can't tell  
9 him anything". I say, "Neither can I".

10 MR DAWSON: Thank you very much, Dr Mitchell. Thank you,  
11 sir.

12 MR ANDERSON: I have no questions. Thank you, sir.

13 THE CHAIRMAN: Mr Johnston?

14 MR JOHNSTON: I have no questions either, sir.

15 THE CHAIRMAN: Thank you, Dr Mitchell. Thank you very much.

16 A. Thank you.

17 MR MACKENZIE: Sir, the next witness is Dr Gillon.

18 DR JACK GILLON (continued)

19 Questions by MR MACKENZIE

20 MR MACKENZIE: Good morning, Dr Gillon.

21 A. Good morning.

22 Q. We are looking today at C2, the question of surrogate  
23 testing for non-A non-B Hepatitis in the 1980s. And we  
24 have looked at your CV before, doctor, so we won't go  
25 back to that.

1           But in short, I think, you joined the SNBTS at the  
2           end of 1984. I think from April 1985 to date you are  
3           a Consultant Physician with the Edinburgh and Southeast  
4           Scotland Blood Transfusion Service and a Consultant at  
5           the Department of Transfusion Medicine at the ERI.

6   A. That's correct, yes.

7   Q. Before I take you to your statement, doctor, I would  
8           like to take you to one or two documents first and ask  
9           you some questions. The first one very briefly is  
10          [\[SGH0016653\]](#).

11           We will see this is the minute of a meeting of the  
12          SNBTS directors on 3 March 1987, and if we go, please,  
13          to page 6, we can see in bold text a paragraph:

14            "To recommend to the SHHD that surrogate testing for  
15          NANB should be implemented with effect from  
16          1 April 1988..."

17            Et cetera.

18           Now, we know, doctor, that you had been working on  
19          the question of surrogate markers for non-A non-B,  
20          I think towards the end of 1986. Is that correct --  
21          1987, was it?

22   A. Yes, yes, 1986 and 1987 was when we were looking at  
23          donors, yes.

24   Q. Were you told of this recommendation by the directors  
25          about this time or ...?

1 A. I became aware of it at some time during that period.

2 I can't remember if it was immediately after this

3 meeting or when but, yes, it became known that that was

4 the recommendation.

5 Q. We will come back to look at what happened after that,

6 but I think it might be helpful just to look at the work

7 you were doing in relation to surrogate markers and

8 probably the best account, I think, is perhaps the 1988

9 Vox Sanguinis report. Could we have that up, please

10 1234, it's [\[SNB0083536\]](#).

11 We can see from the abstract, it starts with

12 a reference to events in America, and it picks up:

13 "As part of an assessment of the medical and

14 economic implications of such a screening programme, we

15 have screened 1,742 regular blood donors for ALT and

16 2,086 (including the same 1,742) for anti-HBc. 42

17 (2.4 per cent) of the 1,742 donors had ALT levels above

18 45 units. Clinical assessment of 33 of these revealed

19 that 26 exceeded their ideal body weight for more than

20 10 per cent and 15 by more than 20 per cent. 11

21 admitted to an alcohol intake of over 40g daily. In all

22 82 per cent of donors with raised ALT had a non-viral

23 clinical explanation for this abnormality. Anti-HBc was

24 detected in 42 (2.0 per cent) of the 2,086 donors

25 screened. 27 (64 per cent) also had anti-HBs and 11

1 (26 per cent) had anti-HBc. There was no overlap  
2 between donors with raised ALT and those with anti-HBc.  
3 Combined screening would lead to a loss of at least  
4 4.4 per cent of donations in the population studied. In  
5 view of the medical and economic implications of the  
6 introduction of these screening tests and the poverty of  
7 data on the clinical significance of post-transfusion  
8 non-A non-B Hepatitis, we conclude that such a screening  
9 programme cannot be justified at present. Further  
10 studies are required, including a prospective controlled  
11 trial of the effects of screening."

12 We can see some further discussion.

13 I think if we go over the page, please, to page 149  
14 under "Methods" we can see:

15 "Between April and November 1986 ALT levels were  
16 measured ..."

17 That's when the study is being carried out.

18 If we go over the page again, please, page 150,  
19 under "Discussion" we see:

20 "In our regular donors a raised ALT as defined by  
21 the American studies occurs in 2.4 per cent. The chosen  
22 cut-off value of 45 units corresponds closely to two  
23 standard deviations above the mean, the usual laboratory  
24 definition for the upper limit of normal. The number of  
25 donors identified by this cut-off level as having

1 a raised ALT would therefore be similar in Edinburgh to  
2 that in the American studies."

3 Then:

4 "We have found a strong association between a raised  
5 ALT and both obesity and alcohol ingestion. This  
6 confirms the findings of Alter's study of American  
7 donors."

8 A few lines down:

9 "In the present series using a definition of obesity  
10 of 10 per cent above ideal weight for height and of  
11 alcohol excess as the ingestion of more than 40g daily a  
12 simple explanation for a raised ALT was found in  
13 82 per cent of donors, though in the absence of  
14 a control group, it is impossible to be certain about  
15 the relationship between weight and the frequency of  
16 raised ALT."

17 I think another interesting observation over the  
18 page, please, at page 151, in the top of the left-hand  
19 column, about six lines down we see the sentence:

20 "It is important for those who advocate ALT testing  
21 to recognise that this tendency to fluctuation in ALT  
22 levels would produce a cumulative loss of donors far in  
23 excess of that suggested by studies already published  
24 and that most of these donors would not be NANB  
25 hepatitis carriers."

1           Again the right-hand column, please, the paragraph  
2           comments:

3           "In addition to this raw cost of screening all  
4           donations, account must be taken of the clinical  
5           consequences of identifying up to 5 per cent of the  
6           donor population as being potential carriers. The  
7           assessment of each of these donors, with further  
8           laboratory testing will generate substantial costs. If  
9           the BTS were to take the same responsible attitude to  
10          the medical assessment and counselling of these donors,  
11          as it has to HIV antibody-positive donors, staff and  
12          resources would be required to deal with 4-6 donors  
13          daily in a medium-sized centre."

14          What's the reference to a "medium-sized centre"  
15          there? Can you give us an example?

16   A. I guess that what I would have had in mind was  
17          Edinburgh, because Glasgow and the West of Scotland had  
18          roughly twice the size of donor potential as we did.  
19          Whereas Dundee and Aberdeen had approximately half. So  
20          for approximately 100,000 attendances a year, that would  
21          be what you would expect to see.

22   Q. Then:

23          "At least as important as the financial consequences  
24          of combined testing is the potential morbidity generated  
25          in these donors as a result of informing them of these

1 abnormalities. Our experience in this study has  
2 convinced us that such donors suffer significant  
3 anxiety, though it could be argued that the  
4 identification of obesity, alcohol abuse and perhaps  
5 significant liver disease could be of potential  
6 benefit."

7 I think again an interesting observation over the  
8 page, please, at page 152, in the left-hand column,  
9 please, towards the bottom, the sentence commencing:

10 "Four small prospective studies have been carried  
11 out, two using ALT screening and two using anti-HBc.  
12 Three of these studies, including Alter's study of ALT  
13 testing at NIH, failed to demonstrate any reduction in  
14 post-transfusion NANB hepatitis as a result of donor  
15 screening. In the most recently reported study, using  
16 methods similar to the TTV and NIH studies, an apparent  
17 association between anti-HBc in donor units and  
18 recipient hepatitis is reported."

19 Then, finally, the right-hand column, the final  
20 paragraph:

21 "We conclude that the introduction of these  
22 screening tests cannot at present be justified. Further  
23 studies of recipient NANB hepatitis and the natural  
24 history of the disease are necessary, and a properly  
25 conducted prospective trial of screening for surrogate

1 markers is essential. More extensive studies of the  
2 donor population would be valuable, with a particular  
3 need for elucidation of the apparent relationship  
4 between body weight and ALT level. Such studies would  
5 prove useful in the management of donors, should the  
6 case for screening ever be well-enough established for  
7 the introduction to be considered necessary."

8 Now, doctor, these are your views, obviously, as set  
9 out perhaps towards the end of 1987, when the paper was  
10 drafted, or at some point in 1988, I'm not sure. Can  
11 you remember approximately when the paper was drafted?

12 A. No, but it would have been during 1987, yes.

13 Q. I think, as we will come to see, the essential view set  
14 out in this report on the question of surrogate testing  
15 presumably you had formed these views some time after  
16 the end of your study?

17 A. Yes. I mean, I think in common with most people at the  
18 time, my views were in evolution and probably swung  
19 backwards and forwards because it was a very difficult  
20 issue.

21 Q. Yes. Could I then, please, look at one or two documents  
22 from the time. The first one is [\[SNB0113548\]](#).

23 This, doctor, is a letter from Professor Cash to  
24 yourself of 30 March 1987. He writes:

25 "Many thanks for letting me have a look at your



1 manuscript on ALT/anti-HBc testing of donations."

2 I'm not sure, doctor, is that a reference to the  
3 draft paper we have just looked at? Because we also  
4 know that you wrote a letter to The Lancet in June 1987.  
5 But given the number of pages, 11, 13 and 15, I wonder  
6 if perhaps it is the lengthier paper we have just looked  
7 at, rather than the one page, if that, letter to The  
8 Lancet in June 1987?

9 A. I think it's almost certainly the paper we have just  
10 seen, yes.

11 Q. Thank you. Paragraph 4, Professor Cash says:

12 "I have one major worry -- the final conclusion. My  
13 problem is that it runs quite contrary to the decision  
14 made by the SNBTS directors (to seek funds to establish  
15 routine testing in mid 1988). The proposal, to which  
16 the directors agreed, was made by one of the co-authors  
17 of your paper, Dr McClelland."

18 Do you remember there being any discussion between  
19 perhaps yourself, Professor Cash and Dr McClelland about  
20 your paper and the question of surrogate testing?

21 A. I don't remember the three of us sitting down to discuss  
22 this at the time. I know that there were reverberations  
23 obviously and, as I recall, Dr McClelland's name wasn't  
24 on the final paper.

25 Q. Indeed. Perhaps the next item to look at, please, is

1 the letter to The Lancet from yourself and your fellow  
2 authors, and that is [\[LIT0010346\]](#).

3 We can see the date is 13 June 1986. We can see the  
4 subject matter. It also appears alongside a letter from  
5 Drs Dow, Mitchell and Follett, who essentially agree  
6 with yourself and your fellow authors that surrogate  
7 testing should not be introduced without further study.

8 I won't go through the details of your letter.  
9 I think that would simply be to repeat the paper but  
10 could we, please, go over the page and simply for  
11 completeness we will see the conclusion. It's the same  
12 as the paper, the top left-hand corner:

13 "We conclude that the introduction of ALT/anti-HBc  
14 screening tests as an indicator of NANB hepatitis  
15 carrier status in blood donors cannot at present be  
16 justified."

17 Then I think the next matter which happened, if we  
18 can look, please, at [\[SNB0040672\]](#). These are the  
19 minutes of an extra meeting of the coordinating group of  
20 the directors of 16 June 1987.

21 If we can go to page 3, please, under item 5,  
22 "Testing blood donors for non-A non-B Hepatitis", we can  
23 see this is the genesis of the letter which will later  
24 appear in the Lancet, by the directors, surrogate  
25 testing, irrational perhaps but inescapable.

1           We can see the views, as noted, of the directors  
2           that:

3           "The need to commence surrogate marker screening of  
4           blood donations for NANB in the context of product  
5           liability and of competition from commercial producers  
6           who would be introducing it. Certain SNBTS staff had  
7           already written to The Lancet that surrogate testing was  
8           not justified on scientific grounds and the directors  
9           acknowledged this."

10          So it may be, doctor, that the differences between  
11          yourself and your Edinburgh colleagues and perhaps  
12          Dr Dow and Dr Follett from Glasgow and the SNBTS  
13          directors may not actually have been as great as they  
14          may on face value appear, in that it seems to be here  
15          that, if the minute is correct, the directors are  
16          acknowledging that surrogate testing was not justified  
17          on scientific grounds but there were other reasons, we  
18          have product liability, competition from commercial  
19          producers, which did justify such testing.

20          Do you have any comment on that suggestion?

21        A. I think that's exactly right, and my take on this was  
22          that what had been decided was essentially a political  
23          decision, and I was at pains to point out the impact of  
24          this on the donor population because, I suppose, to  
25          a large extent I saw myself as an advocate for the

1 donors, and not only that but just looking at the whole  
2 implication in terms of resources, as well as the  
3 medical implications for the donors was very important  
4 to get that into the frame.

5 Q. So if one were to ask the question at that time, should  
6 surrogate testing be introduced, it may depend who you  
7 asked as to the answer you received?

8 A. I'm sure it would, yes, certainly. I mean, I think  
9 nobody would have denied that introducing surrogate  
10 testing would have identified some donors who were  
11 carriers of non-A non-B Hepatitis. We knew that. We  
12 just didn't know how many. We didn't know enough about  
13 whether this test would perform as it was being  
14 predicted in the American literature.

15 Q. We know, doctor, that your view at the time was that  
16 surrogate testing should not be introduced. Sitting  
17 today, knowing all we now know about Hepatitis C and the  
18 prevalence, as found with the introduction of  
19 Hepatitis C screening, do you still think that it was  
20 correct not to introduce surrogate testing in 1987?

21 A. I have asked myself that question a lot, not just since  
22 this Inquiry but since that time, and I don't know the  
23 answer to that. All of the things that were in the  
24 equation then are still in the equation now. How would  
25 we have managed that? How would it have performed in

1 practice?

2 I certainly take the view that the predictions of  
3 efficacy, of 30 per cent/40 per cent ALT, would almost  
4 certainly have been too high, and there are various  
5 reasons for that. It was a predictive efficacy, for  
6 instance and didn't -- just to throw one thing into the  
7 mix, didn't take into account the fact that if you  
8 reject 5 per cent of blood donors, you have to recruit  
9 a similar number of new blood donors to take their  
10 place.

11 If you look at the prevalence we found in new donors  
12 in 1991 when we started screening, compared to regular  
13 donors, I think it's something like five times as high  
14 in the new donors. So if you then recruit, whatever it  
15 would be, 4,000 or 5,000 new donors a year in Scotland,  
16 to make up the shortfall, and most of them -- the ones  
17 who had Hepatitis C would not be identifiable by ALT  
18 screening, you could conceivably have increased the  
19 risk, and this is something that wasn't discussed  
20 adequately at the time. I know Harvey Alter talked  
21 about a corrected efficacy to try to accommodate that,  
22 and that dropped his predicted efficacy from 40 per cent  
23 to 20 per cent by trying to make a calculated  
24 correction, but it was totally speculative.

25 Q. Just sticking with the question of efficacy --

1 I apologise for jumping back in time. Going back to  
2 1987, what was your view at that time as to whether  
3 surrogate testing was likely to result in any benefit to  
4 patient safety?

5 A. Yes, I think I would have accepted that it would have  
6 undoubtedly have prevented the transfusion of some  
7 infectious units. We had no idea how many infectious  
8 units, because we didn't know what the prevalence was in  
9 the donor population and, as I have said, we would have  
10 had to recruit new donors to fill the gap. But you  
11 would have prevented the transfusion of some units that  
12 were infectious. But you could have done that by  
13 rejecting any cohort of donors you chose to reject.

14 Q. So would it be fair to say your view was that at that  
15 time surrogate testing was likely to have some benefit  
16 to patient safety but the benefit was unquantifiable?

17 A. Yes.

18 Q. I would like now to turn, before I go to your statement,  
19 to one final document we haven't looked at yet, please.  
20 It's [\[PEN0170302\]](#).

21 This is the judgment of Mr Justice Burton produced  
22 on 26 March 2001 following the Hepatitis C litigation in  
23 England. I'm not going on take you to any of the  
24 details, doctor, apart from there is a helpful table at  
25 page 0369, which sets out the countries which did

1 introduce surrogate testing.

2 I don't think we have looked at that yet on this  
3 topic. At page 0369, please. It's paragraph 108(v), I  
4 think, of the judgment. Yes. We can see it's headed:

5 "Not many countries apart from the United States  
6 (both tests) and Germany (ALT only) introduced surrogate  
7 tests. The full picture is as follows."

8 I think we can see Germany, 1965 (ALT); Italy, 1970  
9 (ALT); USA, September 1986 onwards (both); Luxembourg,  
10 1 October 1986, (ALT), mid 87 (for new donors)  
11 (anti-HBc); France 15 April 1988 (for ALT),  
12 3 October 1988 (for anti-HBc); Switzerland, 1 June 1988  
13 (ALT); and Malta, early 1989 (ALT).

14 And the judge then went on to say:

15 "There was some partial routine ALT testing in  
16 certain centres in Austria, Belgium and Spain from about  
17 1987 and Queensland (alone of the Australian states)  
18 introduced compulsory ALT testing in about April 1989."

19 Also a reference to Sweden:

20 "No other country, so far as is known, ever  
21 introduced either test."

22 It is perhaps a bit unfair to put this to you,  
23 doctor, have you ever done any work on which other  
24 countries introduced surrogate testing or do we simply  
25 have to take that table really for what it says?

1 A. I think we probably have to take that at face value. The  
2 only comments I would make were that I know that the  
3 transfusion systems in Germany and Italy were very  
4 diverse and remained so for a long time thereafter.

5 And in the USA, in fact they didn't introduce  
6 anti-core testing in 1986 as planned because core  
7 testing was technically difficult and they were having  
8 problems with reproducibility. I'm not sure it was ever  
9 universally introduced but if it was, it was certainly  
10 not before the middle of 1987. But that's kind of  
11 neither here nor there.

12 Q. So for Germany and Italy, it's perhaps an  
13 oversimplification to assume that ALT testing was used  
14 throughout each country. You have stated one may in  
15 fact have to look at regional differences.

16 A. Yes, and different systems within the country. It was  
17 very diverse, as it was in the United States.

18 Q. And also this table tells us nothing about the ALT level  
19 used as a cut-off for rejecting a donor.

20 A. Yes.

21 Q. Thank you. With all of that preamble, doctor, I would  
22 like now, please, to look at your statement. It is  
23 [\[PEN0171931\]](#).

24 We asked you two preliminary questions before coming  
25 to our standard supplementary questions. Could we



1 firstly, please, go to the Crawford paper from 1994.

2 It's [\[PEN0020582\]](#).

3 We have looked at this many times. I would like to  
4 go straight over the page, please, page 122 of the  
5 article -- well, page 2 of the article, page 122 of the  
6 journal, to be precise.

7 On the right-hand column, about half way down, we  
8 see -- I should perhaps start in the left-hand column,  
9 I'm sorry, under "Results", second paragraph:

10 "159 donors were found to be infected with HCV. 151  
11 (95 per cent) of these donors responded to the  
12 invitation to attend for further counselling and  
13 follow-up."

14 In the right-hand column about half way down:

15 "Of the 151 donors, 89 (59 per cent) had ALT levels  
16 above the upper limit of normal."

17 We simply wondered what this meant "above the upper  
18 limit of normal".

19 Could we then put that paper to one side, please,  
20 and go back to your statement? I'm not going to read  
21 out verbatim your answer, doctor, but in short you  
22 explain that ALT testing of the Hepatitis C-positive  
23 donors was carried out by the respective Departments of  
24 Clinical Chemistry in five SNBTS regions.

25 And then in the second paragraph, half way down, we

1 see:

2 "Different laboratories used different test methods,  
3 and had different upper limits of normal. The standard  
4 method for determining normal levels is to test  
5 a sufficiently large population of 'normal subjects' to  
6 allow valid statistical calculations to be made. The  
7 upper limit of normal is then taken as two standard  
8 deviations above the logarithmic mean of all results.  
9 This then defines the upper 2.5 per cent of that  
10 population. Individual laboratories define their own  
11 levels of normality using a local population sample, for  
12 ALT as for other tests."

13 Et cetera.

14 You say you have no record of the levels that were  
15 used in the regional laboratories at that time:

16 "But because of the variations in test methodology  
17 and local demographics, they are likely to have been  
18 different from one another but not markedly so."

19 I can quite understand all of that, doctor, but is  
20 it likely that the upper limit of normal was about 45  
21 international units per millilitre?

22 A. Probably less, in fact. In Edinburgh it was 40 units  
23 per litre at the time, and I would guess the others were  
24 of that sort of order.

25 Q. Thank you. It's just to give us some feel for the

1 figure. Thank you.

2 The second preliminary question was again to do with  
3 the '94 paper and, this was really more in hope than  
4 expectation, we wondered whether there was any  
5 information available as to how many anti-HCV negative  
6 blood donors had ALT levels above the upper limit of  
7 normal, really just to try and let us -- a control group  
8 or a comparator group to let us try and compare that  
9 group with the positive donors.

10 You say:

11 "To the best of my knowledge, no representative  
12 sample of known HCV negative Scottish blood donors has  
13 ever been screened for ALT levels."

14 One can understand why that would be the case:

15 "However, two cohorts of Edinburgh donors were  
16 screened in the period prior to screening tests for HCV  
17 becoming available, with the aim of ascertaining the  
18 potential impact of ALT testing, should it be introduced  
19 in Scotland."

20 We have looked already at your 1988 Vox Sanguinis  
21 paper. The result of this was that 2.4 per cent of  
22 donors were found to have raised ALT using that  
23 definition.

24 You also reported in the same paper:

25 "A survey of the records of 708 plasmapheresis

1 donors ... and 3.7 per cent of these highly selected  
2 'pedigree" donors had raised ALT in the first sample,  
3 and 6 per cent of those with initially normal levels had  
4 an elevated level at some point thereafter."

5 You then say that:

6 "... led us to study plasma donors in more detail,  
7 as reported in the Prowse and others paper in 1993."

8 The reference is [\[PEN0172043\]](#). I'm not going to go  
9 to it because at the next page in your statement I think  
10 you set out the main findings.

11 If we can go on to page 3 in your statement, you  
12 say:

13 "We showed that by measuring ALT levels at every  
14 attendance of 431 donors (plasma donors typically donate  
15 monthly) over a period of 18 months, 23 per cent had  
16 a elevated ALT at some point and 11.1 per cent of  
17 donations exhibited ALT level greater than 40 IU, the  
18 upper limit of normal for the laboratory at that time.  
19 Analysing the data by sex showed that 14.8 per cent of  
20 donations by men and 3.6 per cent of donations by women  
21 had levels greater than 40 IU. 58 per cent of men had  
22 at least one ALT over 40 IU at some time, compared with  
23 22 per cent of women. This confirmed previous reports  
24 of a difference in ALT level in men and women."

25 This is a completely to one side question, doctor,

1 but very generally, of the total donor population in  
2 Scotland, what percentage are men, what percentage are  
3 women, very generally?

4 A. It's roughly 50/50 with a slight preponderance of men.

5 Q. Thank you. That was really the two preliminary  
6 questions we asked you about the 1994 paper.

7 We then went on to ask you the same questions we  
8 have asked other witnesses. We asked, firstly, whether:

9 "Should a large-scale prospective study ... along  
10 the lines of the US ... studies ... have been carried  
11 out in the UK ..."

12 With various aims.

13 You say you:

14 "... make a few general comments in respect of this  
15 query and will give a more detailed response to the  
16 question of the effectiveness and potential outcomes of  
17 surrogate testing ..."

18 And your response to query 5 below.

19 The top of page 4 of your statement, please you say:

20 "With hindsight, it is easy to say that such a study  
21 would have been desirable, though it would have been  
22 incredibly prescient in 1981 ..."

23 To pause there, do you know now that Dr McClelland  
24 was proposing such studies in the early 1980s, in fact  
25 1980, 81, 83?

1 A. Yes, I think he was being very prescient actually.

2 Q. You go on to say:

3 "The significance of NANBH was only then becoming  
4 apparent and indeed there was at the time and for many  
5 years thereafter a body of opinion which disputed the  
6 seriousness of chronic NANBH. A programme of research  
7 into transfusion-transmitted hepatitis had been  
8 established in the West for many years ..."

9 Is that the Dow/Follett work?

10 A. Yes.

11 Q. "... and in SEBTS basic research to try to detect  
12 markers of putative infectious agents ..."

13 Et cetera.

14 Is that the Hopkins fieldwork?

15 A. Yes.

16 Q. Thank you. You go on to say:

17 "Information on the prevalence of the disease and  
18 outcome for patients would have been highly desirable  
19 ... but also the difficulties involved in carrying out  
20 a prospective study should not ... be underestimated."

21 Doctor, when you in 1987/1988 were recommending that  
22 surrogate testing shouldn't be introduced without  
23 prospective studies having been carried out, did you  
24 apply your mind at that time to how realistic  
25 a proposition it was to carry out a prospective study

1 with extensive follow-up of recipients?

2 A. I think it was constantly in our minds at that time.  
3 Although we did know that it was a massive undertaking  
4 to do that, and particularly difficult in the presumed  
5 low prevalence area that we thought Britain was. That  
6 wasn't based on very much, as I'm sure you have heard  
7 from others, but turned out to be correct in fact. It  
8 would have been a huge study. It would have had to have  
9 been a multi-centre study with very substantial funding  
10 and resource implications and impact on other  
11 departments, such as, not least, the hepatology  
12 departments.

13 So I don't know that we ever lost sight of that but  
14 by -- the other thing that was becoming -- well, it  
15 wasn't becoming evident but the other thing I had in my  
16 mind was that there was the likelihood that there would  
17 be a scientific resolution to this problem, we would  
18 hope within a very short time. I remember when, before  
19 I was appointed, I was sent off to America to learn  
20 about blood transfusion because I came from  
21 a gastroenterology background, and one of the things  
22 I did was a grand tour, which took in a visit to  
23 Harvey Alter in NIH, where obviously what we talked  
24 about was NANBH and Hepatitis B, and also to the CDC in  
25 Atlanta where I met Dan Bradley, and that was very

1 interesting indeed because he described what turned out  
2 to be the basic research underlying the eventual  
3 discovery of HCV. Now, that was in April 1985,  
4 I guess, March 1985, and I was in correspondence with  
5 Dr Bradley in the year or so following that about  
6 potential lines of research where we might collaborate.  
7 And he was also receiving interesting work from Japan  
8 that was published about the same time using monoclonal  
9 antibodies. There were serious developments going on  
10 and, of course, about that time it was when he started  
11 to collaborate with Chiron and communication went dead  
12 from my end because, of course, he got involved with the  
13 commercial exploitation of that.

14 But to say that ALT was the only show in town was  
15 perhaps true, but it's not that we didn't have other  
16 avenues that were opening up in a much more rigorously  
17 scientific way of dealing with this problem. So, yes,  
18 by all means, if there was a way of doing a multi-centre  
19 double -- well, it couldn't be double-blind but  
20 a controlled trial, which was randomised and properly  
21 carried out with big enough numbers, we would have been  
22 all for it, but nobody was driving that at the time.

23 Q. Yes, thank you. To pick up your statement you say  
24 further down:

25 "In the context of a disease about which very little



1 was known and for which no specific diagnostic test was  
2 available, I think it is unsurprising that such a study  
3 was not pursued in 1981 or shortly thereafter,  
4 particularly once it was acknowledged that a definitive  
5 answer to the question of the efficacy of surrogate  
6 testing could not be obtained by such studies, but only  
7 by a prospective randomised trial in which sufficient  
8 numbers of patients were randomised to receive either  
9 ALT screened or unscreened blood. No such trial was  
10 ever carried out on a scale big enough to provide  
11 definitive answers."

12 The second question we asked was:

13 "If such a study had been carried out, to what  
14 extent is it likely to have met the objectives we set  
15 out in ..."

16 Our preceding question.

17 Over the page, please, at page 5 of your statement,  
18 you explain:

19 "The success of such a study would have depended  
20 critically on a variety of factors but it is likely that  
21 an evaluation of the prevalence of PTNANBH in the UK  
22 could have been obtained (with the important caveat that  
23 diagnosis in the absence of a specific test would be  
24 likely to be very imprecise), and would have been useful  
25 in deciding whether or not to introduce surrogate

1 testing.

2 "Investigating the natural history of the disease,  
3 however, would not have been within the remit or  
4 capabilities of the transfusion services."

5 Can you explain just briefly why?

6 A. That would have required extended follow-up of patients,  
7 which would naturally have been the remit of the  
8 aforementioned hepatologists, who had no inkling of  
9 this, I'm sure, at the time. Perhaps Professor James  
10 could confirm that. It would have been a massive  
11 undertaking.

12 Q. How long would such a study have had to have gone on for  
13 to provide meaningful results?

14 A. Well, the first seriously meaningful results -- I can't  
15 remember exactly when it was published, it was the  
16 follow-up of the patients originally identified in the  
17 TTV study, which was published in the late 1980s,  
18 I think. I think Aach was the main author. That  
19 provided nearly 20 years' worth of follow-up. And that  
20 was the first time that we had seen big numbers  
21 indicating that, yes, there was a significant risk,  
22 something like, you know, up to 50 per cent of patients  
23 would have evidence of chronic persistent hepatitis and  
24 maybe up to -- I think in that initial paper it was  
25 something like 15 to 20 per cent would have evidence of

1 cirrhosis after 20 years. So by then, with that  
2 extended follow-up of a big number, there was hard  
3 evidence of significant chronic liver disease in that  
4 group of patients.

5 It did not translate into an increased mortality at  
6 20 years and that is something that has been found in  
7 subsequent studies, including our own in the UK of  
8 patients identified through the look-back process. But  
9 there is no doubt about the significance of the liver  
10 disease in a subset of those patients.

11 Q. Returning to your statement you say:

12 "In order to be of value, a bank of sera for future  
13 use would need to have been substantial in the numbers  
14 of affected patients, controls, and the respective  
15 donors, as would have been necessary to establish an  
16 accurate estimate of prevalence. In a putatively low  
17 prevalence population such as was thought to be the case  
18 in the UK, an enormous number of patients would have had  
19 to be followed up."

20 We saw looking at one of the earlier TTVS papers  
21 that the creation of a library or bank of sera of  
22 "known" infected patients was one of the purposes of the  
23 study, partly to be there to evaluate putative specific  
24 tests for NANBH, were it to come along. It also occurs  
25 to me, as I understand it, at least in the West, when

1 post-transfusion hepatitis cases were reported, I think  
2 samples may have been kept from these reported cases,  
3 which presumably could have been and perhaps were used  
4 to then test, for example, the Chiron test when that  
5 came along. Was that a standard practice, for example,  
6 in Edinburgh and the east as well, of keeping samples  
7 from reported cases of post-transfusion hepatitis?

8 A. Not that I can recall. I don't remember any systematic  
9 attempt to do that. But reported cases of hepatitis  
10 were few and far between.

11 Q. I see. Thank you.

12 Then returning to your statement, you have no  
13 comment to make on the conclusions drawn by Drs Dow and  
14 Follett.

15 Question 4 was a reference to the views of SHHD  
16 medical officers and, again, you have no comment to make  
17 on that issue.

18 In 5 we asked:

19 "If surrogate testing of blood donors, (ie testing  
20 for elevated ALT and/or anti-HBc) had been introduced in  
21 Scotland (a) what percentage of donors are likely to  
22 have been deferred."

23 Then I think again you refer to your study we have  
24 looked at, the 1988 Vox Sanguinis study, the results of  
25 which were:

1           "2.4 per cent of donors had ALT greater than 45  
2           units and 2.0 per cent were positive or anti-HBc, with  
3           no overlap between the two groups. This suggests  
4           a minimum donor loss of 4.4 per cent if both tests were  
5           implemented."

6           We can see what else you say there:

7           "But the question of the finding of an association  
8           between anti-HBc in donors and recipient NANBH was  
9           a surprise outcome of the TTV study and the more  
10          surprising aspect was a lack of overlap between donors  
11          with raised ALT and those with anti-HBc. This led the  
12          authors of the NIH study to speculate as follows ..."

13          On to page 6, this is Alter and Holland in 1984  
14          saying:

15          "This dichotomy is disturbing suggesting either that  
16          the tests are not really detecting carriers of non-A  
17          non-B Hepatitis and that their apparent association with  
18          non-A non-B Hepatitis is a statistical artefact, or that  
19          they are detecting two different carrier populations,  
20          perhaps harbouring different agents for non-A non-B  
21          Hepatitis."

22          Can you tell us a little then in the next paragraph  
23          about the difficulty with the surrogate screening test,  
24          the technical limitation of the tests then available?  
25          Can you tell us a little bit about that? I don't think

1 we have heard much about that.

2 A. I'm not sure I'm the right person to ask, but it was  
3 well-known, as I have alluded to already, the Americans  
4 had trouble when they tried to introduce anti-core  
5 testing with inconsistencies within laboratories and  
6 I think comparing laboratories. The tests did give  
7 a lot of false positive reactions and it was difficult  
8 to tell -- the way the test was configured -- what would  
9 be a correct cut-off level for positivity. I think  
10 probably Brian Dow could give you better chapter and  
11 verse on that than I could, but it was not  
12 a straightforward test to use.

13 Q. You then say --

14 THE CHAIRMAN: Before you leave it, Dr Gillon, I find this  
15 dichotomy, the lack of overlap really quite perplexing,  
16 but I can't see why a positive test for ALT should  
17 exclude a positive test for Hep B. Is there some  
18 explanation?

19 A. I share your perplexity, sir, because this has always  
20 been a huge puzzle to me and it's one of the things that  
21 instinctively did not make sense about this whole  
22 business. There should be a very considerable overlap,  
23 and there just isn't. And I think reading from  
24 Harvey Alter said then is what I felt. And I do  
25 remember at the time sitting down -- and I have actually

1 still got a bit of paper that I was working on when  
2 I was writing the paper that we have looked at today,  
3 where I tried to stratify theoretical hundreds of donors  
4 into categories who got 1 unit of blood, 2 units, 10  
5 units, 20 units and worked on different prevalences of  
6 the putative infection, the ALT, the anti-core and  
7 stratified them. And I became convinced that a lot of  
8 the association was coincidental, that it was  
9 entirely -- well, not entirely but at least  
10 substantially a function of having a large volume of  
11 transfusion, so that where you had patients who got,  
12 say, 15/20 units of blood at given prevalences were much  
13 more likely to get one thing and the other thing, more  
14 or less by coincidence, compared with people who only  
15 got one unit of blood, when it was much more unlikely  
16 that there would be a coincidence.

17 Statistically that was very difficult to tease out  
18 and the statistician in the paper we looked at, which  
19 was published in *Vox Sanguinis*, was puzzled by this too.  
20 I sat him down and said, "Look at this bit of paper.  
21 Can you see what's wrong with this? Where -- am  
22 I barking up the wrong tree?" And he looked at it and  
23 said, "It looks right, but I've never seen anything  
24 written about that in statistical publications". And  
25 I can't give a name to it, but he was happy to put his

1 name on the paper, with me making reference to that.

2 So I still don't have a satisfactory explanation for  
3 that, but it was part of the instinctive feeling that  
4 there was something going on here which was not just  
5 about you use a test and you identify somebody who might  
6 transmit non-A non-B Hepatitis. So it was not as simple  
7 as that. And I remain convinced there was a statistical  
8 artefact. That doesn't mean that identifying people  
9 with high ALT wouldn't have prevented Hepatitis C but it  
10 does call into question the exact relationship between  
11 the two and the exact outcome if you did it  
12 prospectively.

13 THE CHAIRMAN: It makes it quite difficult to take the two  
14 different tests and apply them additively to find  
15 a value.

16 A. Yes. And that's why I thought the only way to do this  
17 was a prospective trial. There was no other way of  
18 getting the information that I could see.

19 THE CHAIRMAN: Thank you.

20 MR MACKENZIE: Thank you.

21 Could I pick up one point in your statement, please,  
22 doctor. You say:

23 "The American experience when surrogate testing was  
24 implemented in 1987 was that anti-HBc was indeed  
25 problematic and for these reasons it has never been



1 implemented in the UK in spite of the apparent logic  
2 behind it."

3 What do you mean by the apparent logic behind  
4 anti-HBc testing?

5 A. Well, you can see on first principles, if you identify  
6 people who have what looks to be a marker for previous  
7 exposure to Hepatitis B, it might also be a marker for  
8 potential exposure to whatever the agent of non-A non-B  
9 Hepatitis was. Assuming that it was a parenterally  
10 transmitted virus, as we thought we knew.

11 Q. I see. You go on to say:

12 "The case of ALT is entirely different in that this  
13 enzyme is a normal constituent of blood and is therefore  
14 present universally. The blood level varies with body  
15 weight, increasing with increasing weight, and levels  
16 above the standard upper limit of normal of 2SD above  
17 the log mean are associated with obesity. Though this  
18 association was recognised in the 1980s, it was poorly  
19 understood and hepatologists were at that time puzzled  
20 by the increasing numbers of patients they were seeing  
21 with abnormal liver function tests discovered  
22 coincidentally. Later research revealed that the  
23 abnormalities of liver function were due to fatty  
24 infiltration of the liver. Association was not only  
25 with obesity but also with insulin resistance and type 2

1 diabetes and this constellation was named 'the metabolic  
2 syndrome' with the liver component designated  
3 non-alcoholic/steatohepatitis (NASH)'."

4 We have looked already at the differences of ALT  
5 levels in men and women, "it is thought that is largely  
6 due to differences in body weight." Higher levels --  
7 sorry, "The segment of the population with the highest  
8 mean levels is in males aged 30 to 40. Higher levels  
9 are also found in association with excessive alcohol  
10 consumption, and are associated with muscle damage, eg  
11 myocardial infarction but more commonly after hard  
12 exercise.

13 "In most studies of HCV-positive blood donors, there  
14 is found to be a preponderance of males, typically in  
15 the age range 30-40. There is therefore a coincidental  
16 association between higher ALT levels and the donors  
17 most likely to have been exposed to HCV. It is  
18 therefore likely that ALT is to some extent an  
19 epiphenomenon in statistical or epidemiological terms as  
20 Alter and Holland suggested. This may well have been an  
21 example of the 'fallacy of the transposed conditional',  
22 first proposed by Falk in 1986."

23 I don't think we need a detailed explanation of  
24 that, doctor.

25 THE CHAIRMAN: I don't know.

1 PROFESSOR JAMES: Is might turn into Koch's postulates all  
2 over again.

3 MR MACKENZIE: I think you go on to summarise it, is that  
4 correct, at the end of this paragraph?

5 You say:

6 "In essence this can be rendered as follows. If  
7 a patient develops PTNANBH there is a strong possibility  
8 of having received blood with a high ALT because of the  
9 coincidental segregation of the carriage of NANBH and  
10 raised ALT, whereas a raised ALT in a donor says little  
11 about the risk of NANBH in the recipient."

12 Sir, I was going to leave the fallacy of the  
13 transposed conditional there, but I'm not sure if it's  
14 a matter you wish to explore further.

15 THE CHAIRMAN: It's just a bit of terminology that seems to  
16 be saying very much the same as the fallacy of the  
17 undistributed middle that I knew in my youth but clearly  
18 has become rather more sophisticated by 1986, which is  
19 well after my youth.

20 A. I think it's very interesting because I had no idea it  
21 had a name. As I've suggested, Robin Prescott, the  
22 statistician, had no name for it at the time. And  
23 I think actually probably it was described before Falk.  
24 I have been trying to find out the history of this, but  
25 certainly it only became recognised about that time.

1           And I discovered the name, the fallacy, in a letter  
2           to The Times in 2009, which Professor James will know  
3           the background to this, which was that the then chief --  
4           no, it wasn't, it was the president of the  
5           Royal College of Physicians in England, instructed  
6           middle England to stop having a couple of glasses a wine  
7           at night because everybody was ending up in the liver  
8           wards. And the president of the Royal Society of  
9           Statisticians wrote to The Times saying this was an  
10          example of the fallacy of the transposed conditional,  
11          which is the first time I had heard the name.

12           I thought this applies to what we are looking at  
13          here.

14   THE CHAIRMAN: I'll try and remember to look it up tonight  
15          in a couple of books on elementary statistics and see if  
16          I can -- but I suspect they may be too far back as well.

17   A. I found it on Google.

18   MR MACKENZIE: Thank you. Returning to your statement,  
19          doctor:

20           "There is also, of course, a more specific sense in  
21          which ALT can be regarded as a surrogate for HCV, as  
22          opposed to being a merely statistical artefact, in as  
23          much as it is often raised in the presence of liver  
24          damage, though again this is not specific to any  
25          particular cause of liver damage. There is therefore

1 a prima facie reason to think that ALT testing might  
2 prevent some PTNANBH."

3 You go on to say that:

4 "Even when a raised ALT is found in the presence of  
5 HCV ... the levels are known to fluctuate ... the same  
6 is true of 'normal' donors ... thus repeated testing of  
7 the same population of donors would give a much higher  
8 'hit rate' for raised levels than a one-off snapshot  
9 with obvious implications for the potential impact on  
10 the blood supply.

11 "The crucial issue here is the choice of cut-off  
12 level and this is indeed the crux of the problem posed  
13 by ALT testing. There is in fact no true upper limit of  
14 normal that accurately differentiates between those with  
15 disease and those without ..."

16 You go on:

17 "The higher the cut-off, the fewer true positives  
18 will be detected resulting from a loss of sensitivity  
19 ... but a smaller proportion of those identified by the  
20 test will be false positives, indicating greater  
21 specificity."

22 Is it the case, doctor, that a donor with HCV -- let  
23 me put it this way: is there a correlation between the  
24 level of ALT in a donor and the likelihood of Hep C  
25 infection?

1 A. I don't know that it has been studied rigorously enough  
2 to put a figure on it, but, yes, I think the impression  
3 is that the higher the ALT the more likely it is that  
4 that will be a true positive.

5 Q. I see. You go on to say --

6 THE CHAIRMAN: Why? Is it just because Hep C, where it  
7 exists, generate relatively high levels of ALT or what?

8 A. I think it's because by the time you have had  
9 Hepatitis C for a time or indeed any chronic liver  
10 disease, you are likely to have quite a substantially  
11 raised ALT. Whereas if you've, say, got a raised ALT  
12 just because of obesity or metabolic syndrome, it is not  
13 likely to go that high. So there is a middle ground  
14 where it is difficult to sort out, but the higher you  
15 go, the more likely it is you are going to find very  
16 significant liver disease.

17 THE CHAIRMAN: But we are back to the same problem that  
18 unless one can say that a given level is specific to  
19 Hepatitis C, the other causes of elevation can't be  
20 excluded.

21 A. It can never be specific to Hepatitis C and indeed the  
22 highest level we found in our study was a young woman  
23 who turned out to have very significant chronic active  
24 hepatitis of the autoimmune type.

25 MR MACKENZIE: Thank you.

1           You go on, doctor, saying:

2           "The choice of cut-off level is thus entirely  
3           arbitrary and in the present context boils down to  
4           striking a balance between the need to identify as many  
5           of the HCV infected donors as possible and the desire to  
6           minimise the impact on non-infected donors and on the  
7           blood supply.

8           "It is thus impossible to state what percentage of  
9           donors would have been deferred."

10          We can see:

11          "A compromise position was adopted ..."

12          In the UK:

13          "... whereby donors with modestly elevated levels  
14          were not informed but the donation discarded while those  
15          with higher levels and those with repeated modest  
16          elevations were informed and deferred."

17   A.    I think you said in the UK, it was in the USA.

18   Q.    I'm sorry, thank you for that. Then the next question  
19          we asked:

20          "Could a sufficient blood supply have been  
21          maintained if surrogate testing had been introduced?"

22          Again you explain:

23          "That is hypothetical and impossible to answer with  
24          any degree of certainty."

25          You say:

1           "There was difficulty in maintaining donor  
2 attendances in the second half of the 1980s for reasons  
3 that were not fully understood."

4           I will come back to look at that with Professor Cash  
5 when he comes back:

6           "The situation became serious to the extent that  
7 a substantial injection of resources was necessary  
8 around 1990, with most of the money and effort going  
9 into a television advertising campaign which reversed  
10 the decline in donor numbers. Whether it would have  
11 been possible to weather a loss of donations of the  
12 order of at least 4-5 per cent and so maintain  
13 self-sufficiency with or without such funding is  
14 doubtful but this is speculative in the extreme."

15           Now, I think we are particularly interested, doctor,  
16 in the next question, (c):

17           "To what extent are cases of post-transfusion  
18 Hepatitis C likely to have been prevented if surrogate  
19 testing had been introduced?"

20           On page 9 you give your answer. This is the last  
21 page of your statement. You say:

22           "Estimates of the number of cases of PTHCV occurring  
23 annually in Scotland during the period prior to the  
24 introduction of a test for anti-HCV will be presented to  
25 the Inquiry by Professor David Goldberg. The starting



1 point for these estimates was the prevalence found ...  
2 between 1 September and 31 December 1991, ie  
3 0.09 per cent in donors... the assumption being that  
4 very few donors would have been able to donate more than  
5 once during that period ... backwards chronological  
6 extrapolation incorporating a number of assumptions  
7 including the change in prevalence in the population  
8 with time will permit the most accurate estimates to  
9 date of the number of patients exposed to potentially  
10 infectious donations."

11 I think that may be a work in progress just now.

12 But:

13 "It is impossible to state with certainty what  
14 proportion of these potential (and actual) transmissions  
15 might have been prevented by ALT testing. Though the  
16 percentage of donors in the HCV-positive cohort with  
17 raised ALT is impressive (59 per cent), it cannot be  
18 assumed that a similar proportion of PTHCV would have  
19 been prevented by ALT screening. Much would have  
20 depended on the choice of cut-off, but it should be  
21 borne in mind that in a low prevalence population like  
22 that in Scottish blood donors, the ratio of false to  
23 true positives would be very high, at all but a very  
24 high cut-off value."

25 Just to pause there, doctor, the question of the

1           59 per cent figure at first blush a face value seeming  
2           impressive. On a balance of probabilities and without  
3           being particularly scientific about it, can you give us  
4           any indication at all, at least based on that figure,  
5           what would have been the likely percentage of positive  
6           donors who would have been screened out by surrogate  
7           testing?

8    A. I take that absolutely at face value. It looks like  
9           60 per cent. Whether that would have translated into  
10          reality, I have no way of knowing. And, of course, we  
11          have this issue of having to replace them with a new  
12          cohort of previously untested donors.

13   Q. Yes. Does that 59 per cent figure at least suggest that  
14          it is likely that there would have been a material  
15          screening out of HCV-positive donors, using surrogate  
16          tests, and by material I really just mean something more  
17          than de minimis, something more than 1 per cent,  
18          something more than that at least?

19   A. Yes, but you can set the cut-off level anywhere you  
20          like. And the only way to make sure there is no  
21          Hepatitis C in your recipient population is to have no  
22          blood donors.

23                 You can set your level at any point above that, and  
24                 the higher you go, the more likely it is that you will  
25                 be excluding donors with Hepatitis C. But the vast

1 majority of the carriers of Hepatitis C were at levels  
2 below the cut-offs that were proposed. And looking at  
3 this 59 per cent figure, that was based on a relatively  
4 low cut-off of -- well, in Edinburgh it was 40 units per  
5 litre. It was probably the same elsewhere, which is not  
6 what we would have used in practice.

7 It's a matter of regret that I don't have the  
8 original data that went into this paper, because it  
9 would be very interesting to see how those ALT levels  
10 stratified, and I can't remember why we didn't do that  
11 at the time. The preparation of the paper was, of  
12 course, complicated by the sudden death of Dr Crawford,  
13 and I simply don't know whether I had the original data  
14 or it went back to Glasgow or whatever, but it's a shame  
15 we don't have that.

16 Q. In the final paragraph of your statement you say:

17 "In concluding, I would wish to emphasise that  
18 neither ALT nor anti-HBc testing has ever been shown, in  
19 a randomised trial of sufficient power, to prevent  
20 PTHCV. Alter and colleagues, based on their experience  
21 in an environment where PTNANBH rates were around  
22 10 per cent, estimated that ALT testing might prevent  
23 around 30 per cent of transmissions, yet in their  
24 prospective study after initiating routine ALT testing  
25 in 1981 (without a control group; that not being

1 a controlled trial) found no reduction in NANBH  
2 incidence in transfused patients."

3 The reference there is [\[LIT0012221\]](#). We don't have  
4 to go to it:

5 "In a low prevalence population such as Scottish  
6 blood donors, ALT testing would be unlikely to exceed  
7 the efficacy found in the USA, and so to suggest that  
8 a more advantageous outcome might have been obtained on  
9 this side of the Atlantic would be pure speculation."

10 Now, doctor, we can put your statement to one side,  
11 please, there are two final papers I would like to take  
12 you to before finishing with one final question.

13 The two final papers. Firstly, [\[LIT0010851\]](#). We  
14 can see this is a 1991 publication by Aach and others,  
15 I think those involved with the TTVS study, but I think  
16 using the samples from the TTVS study to test the ortho  
17 HCV test then available.

18 If we look at the abstract under "Methods" we see:

19 "We used two first generation enzyme linked  
20 immuno-assays and one second generation immuno-assay to  
21 test for anti-HCV antibodies in serum samples collected  
22 between 1976 and 1979 in the transfusion-transmitted  
23 viruses study (from 1,247 patients who underwent  
24 transfusion and 1,235 matched control subjects who did  
25 not receive transfusions)."

1 Under results we see:

2 "Of the 115 patients in whom post-transfusion non-A  
3 non-B Hepatitis developed, the initial serum samples of  
4 111 were anti-HCV negative, but after hepatitis  
5 developed in these 111 patients, the first generation  
6 EIAs detected anti-HCV in 51 (46 per cent) and the  
7 second generation assay detected anti-HCV in an  
8 additional 16 (14 per cent), for a total of 60 per cent.  
9 Of 40 controls, 37 were anti-HCV negative initially, and  
10 none zero converted after hepatitis developed."

11 Then this is the main conclusion from this study,  
12 the main point of this study:

13 "Nearly all cases of non-A non-B post-transfusion  
14 hepatitis are caused by HCV."

15 The authors do go on to look at the question of  
16 surrogate testing as well.

17 Could we go over the page, please? Page 1326 of the  
18 original journal. In the right-hand column, please,  
19 towards the top, about six lines down, we see:

20 "The present study is thus based on the 111 patients  
21 with non-A non-B Hepatitis among 1,232 recipients of  
22 blood transfusions and 37 persons with non-A non-B  
23 Hepatitis among 1,230 controls. Specimens from every  
24 donor were available for 99 of the 111 transfusion  
25 recipients with non-A non-B Hepatitis."

1           So that's where the 99 figure comes from.

2           If we go on to the next page, please, page 1327, in  
3 the right-hand column at the top, please, the authors  
4 state:

5           "Table 4 analyses the relation between anti-HCV  
6 seroconversion in the 199 transfusion recipients with  
7 non-A non-B Hepatitis and the presence of anti-HCV or  
8 surrogate markers in the blood they were given. A total  
9 of 55 patients received one or more units of blood that  
10 was positive for surrogate markers. Of these, 45  
11 (82 per cent) received blood that was also  
12 anti-HCV-positive in the same unit. Among those who  
13 received units that contained anti-HCV, the  
14 seroconversion rate was not influenced by the presence  
15 (91 per cent) or absence (93 per cent) of surrogate  
16 markers in the same unit. None of the eight patients  
17 who had post-transfusion hepatitis after receiving blood  
18 positive only for surrogate markers had seroconversion  
19 to able to HCV. Surrogate markers were absent from the  
20 units given to the four patients who seroconverted after  
21 the transfusion of anti-HCV negative blood."

22           I should say, doctor, I don't find all of this easy  
23 to follow but we shall then go over the page and look at  
24 table 4, which was referred to at page 1328.

25           We can see at the bottom, table 4. Again, I'm sure

1 the ignorance is all mine but I don't find again this  
2 table entirely easy to follow.

3 I'm not going to ask you about the detailed  
4 results -- to look at those detailed results, it's  
5 really the foundation for the authors' conclusion, and  
6 in the right-hand column, opposite table 4, we see:

7 "Testing the donors of the blood received by those  
8 with post-transfusion hepatitis allowed us to assess the  
9 effectiveness of surrogate markers and first generation  
10 anti-HCV assays in donor screening. Among the cases of  
11 HCV identified in this study, 73 per cent (43 of 59)  
12 were associated with the presence of surrogate markers  
13 in the donors, a rate similar to that predicted before  
14 HCV was identified. The use of surrogate markers in the  
15 United States since 1986 therefore appears to be well  
16 justified."

17 That's the last item from the paper I wish to go to.

18 Does this paper, looking at things broadly, provide  
19 in retrospect support for the use of surrogate testing?

20 A. Up to a point, yes, but I don't know up to which point,  
21 for the same reasons we have been through earlier. What  
22 it shows -- and there were other similar papers,  
23 Harvey Alter, obviously, a paper along similar lines,  
24 which showed that when they looked retrospectively at  
25 cohorts they had identified in these studies that they

1 had been following up, that, yes, most of the  
2 significant non-A non-B Hepatitis was Hepatitis C,  
3 almost all of it, and that became evident from many  
4 studies and not least by the introduction of testing for  
5 anti-HCV, which meant that the problem disappeared. So  
6 there was adequate proof that what we had been looking  
7 at all along was Hepatitis C. That's beyond dispute.

8 The -- there are one or two other interesting  
9 aspects of this. First of all, out of their -- the  
10 cohort of patients with what they called non-A non-B  
11 Hepatitis, based on the criteria they applied, this 111  
12 were those -- I can't remember exactly where you will  
13 find this, but there was a cohort of people that had  
14 apparent non-A non-B Hepatitis, which turned out to be  
15 something entirely different and they found even in the  
16 autologous blood recipients, something like 6 per cent  
17 or so got something that could be defined as non-A non-B  
18 Hepatitis. That's people who only got their own blood  
19 back. So there were other things happening. Quite what  
20 they meant I don't know.

21 If you look at all of these studies from that time,  
22 the criteria for defining non-A non-B Hepatitis, based  
23 on sequential ALT levels was never the same from one  
24 group to the other. They used very different criteria.  
25 But that's not to deny that the real problem, the



1 central problem, was Hepatitis C.

2 As far as the relationship to ALT retrospectively is  
3 concerned -- this goes back to the TTV study -- I remain  
4 convinced that a substantial amount of this is due to an  
5 association between ALT and Hepatitis C, which is not  
6 necessarily causative. Some of it certainly is  
7 causative; in other words, there were people with  
8 Hepatitis C who therefore had a high ALT, but not all of  
9 it probably.

10 Q. Thank you. And the final paper I wish to put to you,  
11 doctor, is one Dr McClelland drew our attention to.  
12 It's the Canadian paper, [\[LIT0013223\]](#), the 1995  
13 publication by Blajchman and others.

14 If we look at the summary, in the left-hand, about  
15 half way down we see:

16 "Withholding of blood containing NANB surrogate  
17 positive units reduced the overall post-transfusion  
18 hepatitis rate by 40 per cent and the Hepatitis C rate  
19 by 70 per cent. Most of the benefit of NANB surrogate  
20 testing was due to reduced frequency of Hepatitis C  
21 virus after transfusion before all donor blood was  
22 screened for anti-HCV."

23 The bottom of the column the authors state:

24 "Our study indicates that screening of blood donors  
25 with the NANB surrogate markers was of value in reducing

1 HCV infection before HCV screening began."

2 It is not an entirely easy paper, I think, to follow  
3 but a helpful starting point maybe to then go, please,  
4 to the next page, 3224, using our reference.

5 The right-hand column underneath the various table  
6 of figures we see the subheading "Classification of  
7 post-transfusion hepatitis events."

8 We can see how a post-transfusion hepatitis event  
9 was classified, and the final post-transfusion hepatitis  
10 diagnosis to be made by an events committee.

11 Over the page, please. Over the page again, please.  
12 At page 3226, if we look at the subheading "Impact of  
13 anti-HCV screening on the benefit of NANB surrogate  
14 markers":

15 "We also analysed our data according to whether HCV  
16 screening was in place (table 3). Before HCV screening,  
17 the overall post-transfusion hepatitis rate per 1000  
18 subjects was 20.2 in the no withhold group compared with  
19 5.0 in the withhold group ..."

20 I think that's a reference to whether recipients  
21 were given blood which had been screened for surrogate  
22 markers or not, and they say:

23 "Estimated benefit of NANB surrogate testing was  
24 75 per cent before HCV testing ..."

25 I think these figures -- if one goes back a page,

1 please, to table 3, 3225, and if one looks at table 3 at  
2 the top of the page, looking firstly at the different  
3 headings, "Number of recipients" I think is clear  
4 enough.

5 "Number of events", I think that's a reference to  
6 number of post-transfusion hepatitis events. We saw how  
7 these were diagnosed.

8 The next heading "Overall post-transfusion  
9 hepatitis", I think that means overall post-transfusion  
10 hepatitis rate per 1,000 subjects.

11 And we can see the other headings for ourselves.  
12 And then looking one down, left-hand column, "Pre-HCV  
13 screening" no withhold 397 recipients. Number of PTH  
14 events, 8. Overall post-transfusion hepatitis rate per  
15 1,000 subjects, 20.2. And hepatitis HCVPTH, 12.6. So  
16 I think these are the recipients who received blood  
17 which had not been surrogate tested.

18 And then the next line down, I think "withhold"  
19 means those recipients who were given blood which was  
20 negative for surrogate testing. Number of recipients,  
21 402. Number of post-transfusion events 2. Overall  
22 post-transfusion hepatitis rate per 1,000 subjects, 5.  
23 Then HCVPTH, 0. I think these are the results, I think,  
24 which lead the authors to conclude that surrogate  
25 testing was of benefit, at least some benefit -- do you

1 have any comments on this paper, doctor?

2 A. Like you, I find this very difficult to interpret.

3 I think the face value figure of a reduction by  
4 withholding those that were found to have a surrogate  
5 marker from essentially 2 per cent, 0.5 per cent, which  
6 they say is statistically significant, that looks fine,  
7 it looks good, but it looks as if they then went on to  
8 continue doing surrogate testing after they introduced  
9 HCV screening, which I think was the first generation  
10 test.

11 And they seem to have puzzlingly high rates of  
12 hepatitis, post-transfusion hepatitis of something like  
13 0.8 per cent. I just don't understand that. Which is  
14 higher than the -- even in the withheld group, it's  
15 higher than it was before the introduction of HCV  
16 screening. I don't know what that means.

17 Q. I should perhaps for completeness continue the  
18 discussion part of the paper to see what is said there.  
19 3226, please.

20 Under "Discussion" the second paragraph, the authors  
21 state:

22 "During our study, withholding of NANB surrogate  
23 marker positive units reduced the overall  
24 post-transfusion hepatitis rate by 40 per cent."

25 The second line from the bottom:

1           "Nonetheless our data suggests that NANB surrogate  
2           testing in Canada before May 1990 would have reduced the  
3           frequency of NANB hepatitis, especially that caused by  
4           HCV."

5           I think the important following paragraph:

6           "The drop in the HCV hepatitis rate from 31.3 per  
7           1,000 to 12.6 per 1,000 between 1984-85 ..."

8           That was the first study carried out in Canada:

9           "... and 1988-90 ..."

10          That being the present study reported on:

11          "... appears to have been associated with improved  
12          methods for the screening of blood donors, since the  
13          drop occurred without NANB surrogate markers. In the  
14          USA a similar reduction in HCV hepatitis was reported  
15          over the same period in association with the  
16          introduction of NANB surrogate marker testing."

17          Do you have any comments, doctor, on that final  
18          paragraph I read out?

19    A. I think it's very interesting that -- and it's well  
20          established that in the period prior to the introduction  
21          of HCV testing, the overall post-transfusion hepatitis  
22          rate had been coming down, initially in leaps and bounds  
23          during the 1970s, and Harvey Alter, in many papers, has  
24          produced a graph, which he shows in all his lectures,  
25          which shows that round about the late 1960s, there was

1 a prevalence of post-transfusion hepatitis in the States  
2 of about 30 per cent, and they were using a lot of paid  
3 donors. And then he shows that when you eliminated  
4 almost all of the paid donor, it comes down to about  
5 10 per cent, and you then introduce Hepatitis B testing  
6 and it comes down to -- by the early 80s I think at NIH  
7 it was down to something like 2 or 3 per cent. And then  
8 following the introduction of the donor selection  
9 methods that were stimulated by awareness of HIV, it  
10 comes down again.

11 One of the interesting things in this graph is that  
12 around, I think it is 1981, there is an arrow showing  
13 the introduction of ALT testing, and the graph goes  
14 along for two or three years after that before -- with  
15 increased donor selection in 1985-1985, and so on,  
16 dropping off again a little bit.

17 So what they are describing here was, I think, quite  
18 well established and has been retrospectively that the  
19 increased donor selection methods were hugely important,  
20 not only in keeping the numbers of post-transfusion HIV  
21 down but also as a nice by-product, if you like, in  
22 reducing the amount of Hepatitis C in the recipient  
23 population as well.

24 Q. Thank you. Doctor, one final question. I'm going to  
25 call it the McClelland question, because it is

1 Dr McClelland who thought of it, and it's this: in 1987,  
2 if you or a family member required a blood transfusion  
3 and you had the choice between blood which was screened  
4 for these surrogate markers and was negative and blood  
5 which was either unscreened or had screened positive,  
6 which blood would you have chosen?

7 A. It's a no brainer, you'd have chosen the screened blood.  
8 You wouldn't have known how much benefit you were  
9 getting but you would have chosen the screened blood.  
10 But if you had the ultimate choice, you would have  
11 chosen autologous blood, which is why Brian McClelland I  
12 introduced the first autologous transfusion service in  
13 the UK in 1987.

14 Q. I see. Doctor, it's a follow-up question. We know you  
15 were a consultant physician at the ERI and you mentioned  
16 back then being responsible for donors. Did you also  
17 advise patients as well at that time?

18 A. Yes, indeed.

19 Q. Yes.

20 A. And those were both patients who were being treated by  
21 us in specialised ways by therapeutic plasmapheresis,  
22 for instance, but I also still had a clinical commitment  
23 in the gastroenterology service.

24 Q. So presumably, again hypothetically speaking, if  
25 a patient at that time in 1987 had the choice between

1 screened negative blood or unscreened or screened  
2 positive blood, presumably again your advice to the  
3 patient would have been to choose, if they had the  
4 choice, the screened negative blood?

5 A. Or indeed autologous blood, if that was an option, yes.  
6 But I would have been very aware of what that cost the  
7 service, the donors, the country, to provide that. And  
8 I think that is the important other side of the equation  
9 that we mustn't lose sight of. And given that we  
10 couldn't measure the potential benefit of all these  
11 interventions, we couldn't make a proper cost  
12 effectiveness analysis. And like it or not, you have to  
13 do that in healthcare.

14 MR MACKENZIE: Thank you, doctor. I have no further  
15 questions, sir.

16 PROFESSOR JAMES: Could I just ask, have you any idea if  
17 screening for ALT had been introduced in Scotland, what  
18 the level might have been because obviously, the level,  
19 as you very well said, would alter the productivity, if  
20 you like, of the result?

21 A. We never discussed that, to my knowledge. I was  
22 certainly never asked to give any advice on that topic,  
23 nor indeed on how we might manage the donors and so on.  
24 We simply never reached that point.

25 PROFESSOR JAMES: Thank you.



1 THE CHAIRMAN: Mr Dawson?

2 MR DAWSON: Sir, I do have couple of hopefully quite quick  
3 questions for Dr Gillon.

4 Questions by MR DAWSON

5 MR DAWSON: There are really two areas I want to explore  
6 with you, Dr Gillon. In his evidence yesterday,  
7 Professor Cash gave the image of yourself arriving at  
8 a donor's door to inform him of the fact that he had had  
9 a positive test. Do I assume correctly from that that  
10 you would have had some involvement or responsibility  
11 for donor counselling, had surrogate testing come in?

12 A. I would have done all of it. Well, I did all of it that  
13 was to be done for HIV, Hepatitis B and so on.

14 I couldn't have done all of it for Hepatitis C, because  
15 we had been talking about having a clinic for a half day  
16 every day of the week to see all of these donors. But,  
17 yes, we took responsibility for giving that information  
18 in person.

19 Q. Why would it be necessary to offer counselling to  
20 a donor who had tested positive for one of the two  
21 surrogate tests that we have been talking about?

22 A. To answer that, probably it would be best to backtrack  
23 a little. Much of my experience was formed by dealing  
24 with the plasmapheresis donors. This was a new area for  
25 me, coming into plasmapheresis, and what I inherited was

1 the system where all plasmapheresis donors, to be  
2 accepted from the general donor panel, had a full  
3 medical examination, all sorts of blood tests, including  
4 liver blood -- liver function tests, and then these  
5 tests were repeated at six-monthly intervals. And  
6 that's the basis for the information of our first paper.  
7 It was retrospective, looking at what was in the donor's  
8 records.

9 And the reason for that is that plasmapheresis grew  
10 out of -- I think the main driver was the need to  
11 provide rhesus D immunoglobulin, and for that to be  
12 produced, you either had to find a woman who had natural  
13 anti-D as a result of having a pregnancy, and there were  
14 some of them, but that couldn't meet the whole demand,  
15 so you had to immunise rhesus negative male donors with  
16 rhesus positive blood from other blood donors,  
17 obviously. And we were well aware of the possibility of  
18 transmitting hepatitis viruses from one set of donors to  
19 the other. So you had to have a system of pedigreeing  
20 the donors of the rhesus positive blood and then  
21 following up the recipients who were then immunised and  
22 producing anti-D, which we would then harvest and make  
23 sure they didn't get hepatitis.

24 So we had a lot of experience of examining these  
25 blood donors, talking to them, making absolutely sure

1           they had no risk factors and then following them up  
2           thereafter.

3           That became extended to all of the plasma donors.  
4           So when I took over, we were doing a full medical when  
5           we took on a plasma donor. We were doing a medical  
6           every year. We were doing all of these blood samples  
7           every six months. And as you've seen from these papers,  
8           we were throwing up all these ALT levels, which were  
9           unexpectedly high and fluctuating all over the place.  
10          And whenever there was a donor who was showing two or  
11          three raised ALTs in succession, the junior doctors  
12          looking after the department would come to me and say,  
13          "What will we do about this?" And what I would do is  
14          get them in and do a full medical history, and then  
15          refer them to Dr Neil Finlayson, who was one of the  
16          hepatologists in the Royal Infirmary, later the  
17          president of the Royal College of Physicians, a very  
18          distinguished hepatologist. He would see them and do  
19          the same again.

20          I remember bumping into him once in the big corridor  
21          at the Royal Infirmary, and he said, "Jack, what are we  
22          going to do with all these people? I don't know what to  
23          do with them. I don't know whether to biopsy them or  
24          not". A liver biopsy had a finite mortality rate of one  
25          in a 1,000, a very painful, potentially dangerous

1 procedure.

2 So that is the question that arises. As soon as you  
3 see somebody, sit them down and say, "There may be  
4 something wrong with your liver, you may be carrying  
5 some nasty virus that may or may not cause chronic liver  
6 disease. We may have to send you to a specialist. They  
7 may stick a needle in your liver". It was not trivial.  
8 It is absolutely not trivial.

9 Q. There are references in a number of places to the fact  
10 that one of the reasons why one might not have been keen  
11 on surrogate testing was the possibility that anxiety  
12 would be caused if you were to tell a patient, for  
13 example, as you say, that they had a raised ALT level.  
14 What I'm interested in exploring is the extent to which,  
15 if you were to tell someone they had a raised ALT level  
16 because of the fact that that's a non-specific marker  
17 for non-A non-B Hepatitis, the extent to which that news  
18 would really cause them anxiety?

19 A. It would depend what you told them. If you told them,  
20 "Go away and don't worry about it", then it probably  
21 wouldn't. But in all conscience you couldn't do that.

22 And in the big part of our study, where we screened  
23 the 1,742, I think it was, regular blood donors, when we  
24 recalled all of those donors with high ALTs, I saw them  
25 personally, and as well as grilling them about potential

1 exposure to Hepatitis C, "Are you sure you never used  
2 drugs at any time, even once?" and so on, I was able to  
3 do a full medical examination, I was able to establish  
4 whether or not I thought there was significant evidence  
5 of disease but also to assess the impact of that whole  
6 process on them. And they were quite anxious, they were  
7 very keen to know the next set of results, and they were  
8 really quite concerned about this.

9 Q. As far as the other test is concerned, the anti-HBc  
10 test, am I right in thinking that patients who had  
11 tested positive for that would also have been tested for  
12 Hepatitis B surface antigen?

13 A. Yes.

14 Q. So in effect would I be right in saying that you would  
15 be telling those patients, "You don't have Hepatitis B  
16 but you've probably been exposed to it in the past"?

17 A. That's correct. But in fact in that study we did not  
18 feedback that information to those donors.

19 Q. Okay. There is just one other area I wanted to explore  
20 with you very briefly. You have given some evidence in  
21 your statement in some detail into the fact that one of  
22 the other reasons why someone might not be keen on  
23 surrogate testing is the fact that it's a non-specific  
24 test, meaning that if, for example, one has a raised ALT  
25 level that would be caused by something else other than

1 non-A non-B Hepatitis, and you give a list there of the  
2 kinds of factors that could cause a raised ALT level.

3 One of the arguments that we have seen is that that  
4 may result in there being a loss to the system of what  
5 one might call good blood, otherwise good blood. But  
6 would I be right in saying it is not quite as simple as  
7 saying that blood is either good or bad but it's a sort  
8 of spectrum between the obviously very bad and the  
9 obviously very good, based on a risk assessment of the  
10 donor?

11 A. Yes, that's correct. And the risk assessment takes into  
12 account all sorts of factors, behavioural factors, for  
13 instance, travel, that might take into account malaria  
14 and so on.

15 Q. What I'm interested specifically in exploring is the  
16 extent to which the things that might cause a raised ALT  
17 level other than non-A non-B Hepatitis would in  
18 themselves be contraindicators to that donor being  
19 a good donor?

20 A. We would certainly not accept anyone as a donor who had  
21 significant liver disease, which would be the obvious  
22 conclusion of an ALT that was sustained at a high level.  
23 We do not accept people who show evidence of inebriation  
24 or give a history of alcoholism, for instance, simply  
25 because we would regard that as an unreliable donor.

1           And one of the mainstays of donor safety, and we see  
2           this from the last paragraph of that paper, where the  
3           incidence of post-transfusion hepatitis has fallen with  
4           increasingly rigorous donor selection is just that, is  
5           donor selection.

6   THE CHAIRMAN:   Mr Dawson.

7   MR DAWSON:   That was my last question.   Thank you very much.

8   THE CHAIRMAN:   Mr Anderson?

9   MR ANDERSON:   I have only one question I wanted to ask and  
10           that concerned the autologous transfusion.

11   THE CHAIRMAN:   Is that going to get us into some time?

12   MR ANDERSON:   The question won't, but the answer might.

13   THE CHAIRMAN:   I think we better rise at that and start at  
14           quarter to.

15   (1.07 pm)

16   (The short adjournment)

17   (2.00 pm)

18   THE CHAIRMAN:   Yes, Mr Anderson?

19   Questions by MR ANDERSON

20   MR ANDERSON:   Dr Gillon, good afternoon.   You remember  
21           towards the end of his questioning, Mr Mackenzie put to  
22           you what he termed the McClelland question?

23   A.   Yes.

24   Q.   You said that if it were possible, the best option would  
25           be to opt for an autologous transfusion.   Do you

1 remember that?

2 A. Yes.

3 Q. I don't think the transcript quite shows this, but I had  
4 thought that I heard you say in answer to that that you  
5 and Dr McClelland had instigated such a service in 1987.  
6 Is that correct?

7 A. We did, yes.

8 Q. I don't think we have heard about this previously.  
9 Could you perhaps tell us about that? That is to say,  
10 its genesis, the reasons for it, how it came about and  
11 the results.

12 A. The genesis really, as in so much of what the Inquiry  
13 has heard, came from the United States, and really was  
14 part of the response in the States to HIV in  
15 transfusion. And very rapidly what was known as  
16 pre-deposit autologous transfusion became very popular,  
17 which is the process of a patient scheduled for an  
18 elective operation donating blood, which was then stored  
19 and given to them, if they needed it, post operatively.

20 By the late 80s, that was accounting for something  
21 like 5 to 10 per cent of the blood supply in the  
22 United States. So it had a very considerable impact.  
23 But it was restricted to that situation of elective  
24 surgery really.

25 It is very hard to remember exactly how it came



1 about, but I think we were having some questions from  
2 patients about the possibility of doing this. It had  
3 obviously appeared in the press, and most of them had  
4 tended to come through the gynaecologists. So it was  
5 young women who were alarmed at this prospect really of  
6 potentially having a blood transfusion after surgery.

7 So we discussed it with one of the gynaecologists,  
8 who was sympathetic to his patients asking about this,  
9 and set up a service. I think it was May 1987 we  
10 started with the gynaecology patients. And once we had  
11 the systems we thought refined as safely and as well as  
12 possible, we looked at what was potentially the most  
13 interesting group, which was orthopaedic operations,  
14 where you could fairly certainly predict the amount of  
15 blood use, and that would be something like hip  
16 replacements or spinal surgery, and took it to the  
17 orthopaedic surgeons. We got a mixed response from  
18 them, I must say, but a couple of the surgeons and their  
19 anaesthetists were quite enthusiastic. And we then  
20 opened it up as a service to any of the surgical  
21 departments that thought it might be appropriate, and  
22 circulated them with what was required.

23 So by 1988, I would say, we had a fairly full  
24 service available to the surgical departments in  
25 Edinburgh, but the take-up from the various specialities

1           was very low, apart from these one or two enthusiastic  
2           orthopaedic surgeons.

3    Q.   Again, it doesn't seem to be quite clear from the  
4           transcript, but I think you said you started in May 1987  
5           and by 1988 you had a fairly full service available.  
6           Was this commonplace in Great Britain?

7    A.   Not at all.  There was a service set up in Sunderland  
8           late in 1987 by Dr Lesley Kay, and we and she started  
9           presenting our data to the British Blood Transfusion  
10          Society annual meetings and so on, and set up a special  
11          interest group.  And one or two others came on board,  
12          but really there wasn't much enthusiasm for it  
13          elsewhere, apart from these two centres, and uptake was  
14          very slow in Britain.

15                 It's perhaps also worth saying that we went on to  
16                 establish something that we called intraoperative blood  
17                 salvage, using the kind of equipment -- a bit like the  
18                 equipment we used for plasmapheresis, where we were  
19                 retrieving the bloods spilt in the operative field, and  
20                 you wash it in a centrifuge, resuspend the cells and  
21                 then give it back to the patient, rather than give donor  
22                 blood.  And, again, we were one of the first to do this  
23                 in this country.

24                 That procedure goes to this day and is very valuable  
25                 in certain situations with heavy blood loss.  Whereas

1 the pre-deposit autologous transfusion fairly rapidly  
2 became obsolete for the simple reason that what became  
3 obvious was that the main benefit of the pre-deposit  
4 schemes was to illustrate that blood wasn't always  
5 necessary in some of these operations and that it was  
6 being used in a slightly, shall we say, cavalier  
7 fashion. So it put some rigour into the people  
8 prescribing the transfusions to look at whether the  
9 patients really needed all the blood that they were  
10 giving them. And that came out of the fact that about  
11 50 per cent of the autologous blood remained  
12 untransfused. It came out of the American studies  
13 actually.

14 So it was very valuable, in the sense that it helped  
15 to transform transfusion practice and make people much  
16 more critical about the need for blood. For instance,  
17 the initial cohort of gynaecology patients we started  
18 with were being routinely cross-matched for two units of  
19 blood for an elective hysterectomy, and in fact none of  
20 them got blood, and this was a huge waste of time and  
21 resource in the blood bank and tied up a lot of blood  
22 that was never going to be used. So we were able to  
23 demonstrate that, and the gynaecologists said, "Well,  
24 that's fine, we won't use autologous transfusion and we  
25 won't crossmatch those patients, as long as you promise

1           that you will get blood to us quickly if we need it",  
2           which we did. So it was very beneficial but it was  
3           a low volume operation in this country.

4   Q. I suppose the original reason for autologous transfusion  
5           largely flew off once effective testing had come in in  
6           relation to hepatitis?

7   A. Well, no, because you can never say that there isn't  
8           something else lurking in the wings and, for instance,  
9           new variant CJD was round the corner, and we knew about  
10          that in the late 1980s.

11   MR ANDERSON: Thank you very much.

12   THE CHAIRMAN: Mr Johnston?

13   MR JOHNSTON: I have no questions, thank you, sir.

14   THE CHAIRMAN: Are you tempted by autologous transfusion?

15   MR MACKENZIE: Sorry, sir.

16   THE CHAIRMAN: You are not tempted by autologous  
17          transfusion?

18   MR MACKENZIE: No, sir.

19   THE CHAIRMAN: Thank you very much.

20   MR MACKENZIE: The next witness, sir, is Mr Duncan Macniven.

21                           MR DUNCAN MACNIVEN (continued)

22                           Questions by MR MACKENZIE

23   MR MACKENZIE: Good appear, Mr Macniven.

24   A. Good afternoon.

25   Q. Welcome back, I think it was perhaps two weeks ago

1 roughly you were here last?

2 A. That's right.

3 Q. Today we have moved on to a different topic, our topic  
4 C2, the question of surrogate testing for non-A non-B  
5 Hepatitis. We've looked at your biographical details  
6 before. I think in short, between May 1986  
7 and July 1989 you were an Assistant Secretary in SHHD  
8 with responsibility for blood matters.

9 A. Among other things, that's correct, yes.

10 Q. I would like to start by looking at a document we now  
11 have, setting out the SHHD structure in the 80s. It's  
12 [\[PEN0172506\]](#).

13 I won't go over this document in detail but just so  
14 we have an idea of the hierarchy, perhaps. We can see  
15 at the top, the Secretary of State for Scotland.  
16 I think there would also have been a Minister in the  
17 Lords responsible for Scottish health matters. They  
18 would then have the junior Scottish minister with  
19 responsibilities for health, and then the Permanent  
20 Secretary of the Scottish Office, and then one down, the  
21 Secretary of the SHHD, also known as a Deputy Secretary?

22 A. Correct.

23 Q. And one down, various Undersecretaries. We can see  
24 that:

25 "The SHHD like other Scottish Office departments was

1 subdivided into a number of groups, each headed by an  
2 Under Secretary (or group head). Health was the  
3 responsibility of two groups of which the relevant one  
4 was group 4 ..."

5 We can see that while you were there, Mr Macniven,  
6 Mr Hugh Morison would have been the Under Secretary  
7 while you were there.

8 A. He was succeeded while I was still there by  
9 Hamish Hamill.

10 Q. I see. Yes, that would be correct.

11 Over the page, please, the next level on the  
12 hierarchy we see Assistant Secretary or Senior Principal  
13 and we can see:

14 "Each group was divided into a number of divisions  
15 ... each division was headed by an Assistant Secretary  
16 or, in some cases a Senior Principal. The relevant  
17 division was IVD ..."

18 That's signifying group 4, division D, presumably?

19 A. Correct.

20 Q. We can see that you were the Assistant Secretary  
21 between May 1986 and July 1989.

22 Then beneath you in the hierarchy, you would have  
23 a principal, a senior executive officer. We can see  
24 that each division was subdivided into branches, and the  
25 branch with responsibility for SNBTS-related matters was

1 headed by -- I think there were three individuals during  
2 your tenure, Mr Sandy Murray between 83 and 87,  
3 Mr Tom MacDonald, 87 to 88, and Mr Rab Panton between  
4 1988 onwards.

5 A. That's correct.

6 Q. Over the page in the document -- I won't take you  
7 through this, Mr Macniven, but we can see there is  
8 a hierarchy set out for medical officers in the SHHD.  
9 I might perhaps take one of the medical officer  
10 witnesses next week through that. Thank you. We can  
11 put that to one side, please.

12 I would like, please, to go to your statement you  
13 provided for us. It's [\[PEN0172053\]](#). Paragraph 1 we  
14 know.

15 Question 1, we asked four questions. The first one  
16 was this:

17 "What generally were the respective roles and views  
18 of the SHHD medical and administrative officials in  
19 respect of surrogate testing for NANBH ... during your  
20 tenure?"

21 And you answer:

22 "Medical and administrative officials worked  
23 together extremely closely. The respective roles were  
24 not so far as I can recall codified in writing but there  
25 was a clear mutual understanding of what they were.

1 Administrative officials like myself were responsible  
2 for advising ministers on the policy in Scotland  
3 regarding blood transfusion and allied matters, and for  
4 implementing that policy including ensuring that finance  
5 was in place. Medical officials provided us, and  
6 through us ministers, with advice on medical, scientific  
7 and technical matters. There was no difference of views  
8 between us so far as I can recall, and none is evident  
9 from the papers."

10 When you say "there was no difference of views  
11 between us," is that in respect of the question of  
12 surrogate testing?

13 A. Yes, it was also generally true, but I was answering  
14 the -- this is a paper specifically about surrogate  
15 testing.

16 Q. Thank you. The second question we asked. What were:

17 "Mr Macniven's personal involvement with and views  
18 on the issue of surrogate testing, including funding  
19 requests for such testing ..."

20 During your tenure.

21 You explain:

22 "I only dimly recall such involvement 25 years ago."

23 I understand you have been given access to certain  
24 papers in preparing your statement. Yes.

25 The paper suggests that:



1            "... Sandy Murray and Tom MacDonald spearheaded  
2            SHHD's work but the papers also show that I was involved  
3            in the appraisal of the merits of introducing testing."

4            You refer to certain minutes.

5            What I propose doing, Mr Macniven, is completing  
6            your statement and then later on going to certain  
7            individual documents one after the other.

8            Over the page, please, you say:

9            "I would certainly have been involved also in  
10            considering the financial aspect of the proposal to  
11            introduce testing because of its magnitude. I have no  
12            doubt that I agreed with the advice of my medical  
13            colleagues; that there were powerful reasons, largely  
14            non-financial, against introducing surrogate testing  
15            during the period of my involvement with the subject ...  
16            these are summarised ..."

17            In certain notes and minutes:

18            "My minute of 2 October 1987 shows that I was aware  
19            of the great importance of finding the money to allow  
20            surrogate testing to start quickly, had evidence showed  
21            that it was desirable."

22            To what extent, Mr Macniven, did you defer to the  
23            views of your medical colleagues on the pros and cons of  
24            surrogate testing?

25            A. I don't think it was quite -- I don't think "defer" is

1 quite the right term. I heard, considered and agreed  
2 with their views.

3 Q. Speaking more generally, on medical and scientific  
4 matters, did you have any qualifications in those areas?

5 A. No, I don't. I was in much the same position as you  
6 would have been when you started the Inquiry, as having  
7 a general knowledge of the subject of blood transfusion,  
8 in my case as a donor, but no expert scientific or  
9 medical knowledge.

10 Q. So again, speaking as a generality, during your tenure,  
11 when medical officers gave you medical or scientific  
12 advice, were you really in any position to refute that  
13 advice?

14 A. Not refute but challenge, question, ask for explanation.  
15 My role was to appraise that advice critically, really  
16 in the interest of ministers.

17 Q. But if medical officers said that as a matter of  
18 medicine or science the position is X, were you really  
19 in a position to disagree?

20 A. Only if, for example, I felt that they had addressed the  
21 wrong question, but essentially I agree with what you  
22 are saying, that if somebody like John Forrester or  
23 Archie McIntyre had addressed the right question and  
24 provided a logical and supported piece of advice, then,  
25 yes, it would have been almost impertinent of me to have

1 overturned it. There was no way that I could overturn  
2 it.

3 Q. Thank you. Then the third question we asked was what  
4 were:

5 "... the views and involvement, if any, of any  
6 Scottish minister with responsibility for health ...  
7 The ... secretary of the SHHD and the undersecretary of  
8 the SHHD, on the question of surrogate testing ..."

9 During your tenure.

10 You replied:

11 "I do not recall ministers being involved and none  
12 of the papers to which I have been given access suggests  
13 that they were. It is however clear from the papers  
14 that the matter was considered by senior officials. For  
15 example, on 6 April 1987 Dr Archibald McIntyre, the  
16 relevant principal medical officer, wrote a detailed  
17 minute to Hugh Morison, the relevant undersecretary, and  
18 others -- to which Dr Graham Scott, the deputy chief  
19 medical officer, and I replied on 7 and 9 April  
20 respectively, in my case responding on Mr Morison's  
21 behalf as well as my own."

22 We will come to some of these documents in due  
23 course, Mr Macniven.

24 Let me ask you this, though: is it correct that the  
25 introduction of a new screening test such as surrogate

1 testing would have been considered a matter of such  
2 importance at the time that it would require ministerial  
3 approval?

4 A. The introduction would certainly have done so.

5 Q. Is the converse also true that a decision not to  
6 introduce a new screening test, in particular one that  
7 was recommended by the SNBTS directors, ought equally to  
8 have been a matter of such importance that ministerial  
9 approval ought to have been sought?

10 A. Not necessarily. Obviously, although the Secretary of  
11 State has statutory responsibility or had at that time  
12 statutory responsibility for the health service in  
13 Scotland, and a great many other things beside, it would  
14 have been impracticable for the Secretary of State  
15 personally or indeed a junior minister personally to  
16 take a decision on every question that the  
17 Scottish Office, as it was then called, was considering.  
18 It's a matter of judgment when a topic should be put to  
19 ministers, and it looks as if our judgment at the time,  
20 certainly the documentary evidence suggests that our  
21 judgment at the time was that that did not need to be  
22 put to ministers.

23 Q. We know that in, I think, March 1987 the SNBTS directors  
24 agreed to recommend that surrogate testing should be  
25 introduced. Do you not think the minister would have

1           been interested in that recommendation coming as it did  
2           from the whole collective body of SNBTS directors?

3    A.   I cannot have done so at the time, and I deduce that  
4           that's because there were a great many finger posts  
5           pointing in a different direction, including people  
6           within the SNBTS.

7    Q.   So would it be right to put matters this way, that  
8           I don't think a decision was taken by anybody, whether  
9           in the SHHD or a minister, not to introduce surrogate  
10          testing; rather, SHHD officials took the view that there  
11          wasn't sufficient evidence to recommend to ministers  
12          that such testing be introduced?

13   A.   That is correct, or at least that's my understanding  
14          from the papers.

15   Q.   Yes.   So the recommendation from SNBTS directors that  
16          surrogate testing should be introduced really went as  
17          far as the SHHD officials but no further?

18   A.   That's what the papers demonstrate.

19   Q.   And you have no recollection differently?

20   A.   I have no recollection otherwise, no.

21   THE CHAIRMAN:  I wonder if I could tease it out just  
22          a little.  Mr Mackenzie has, for obvious reasons,  
23          focused on the advice of the transfusion directors --

24   A.   Yes.

25   THE CHAIRMAN:  -- within the SNBTS network.  By what

1 mechanism would the views of a body like that reach you?  
2 What would be the intermediate stages?

3 A. The meetings, the regular meetings of the SNBTS  
4 directors were attended by the responsible senior  
5 medical officer within the department. In the case of  
6 that meeting, John Forrester, who would have reported  
7 very quickly indeed on what the meeting had concluded.  
8 And I remember from reading the file, his note doing so,  
9 for this particular reason, that he was very surprised  
10 that they came to that conclusion.

11 THE CHAIRMAN: I think we have seen that note, but would  
12 I understand from what you have just said that that  
13 would be a report direct from him to you or to one of  
14 your subordinates or what?

15 A. I can't remember. It would certainly have reached me if  
16 there was a matter of any importance in it. Whether it  
17 reached me directly because John had written it to me,  
18 or copied it to me, or whether the addressees of his  
19 note thought it important to involve me.

20 THE CHAIRMAN: What would be the role of the medical  
21 officers in relation to the transmission of information  
22 of that kind be, if any?

23 A. It would be important -- I mean, we worked as a team.  
24 It was important that every member of the team shared  
25 with the rest of the team relevant information.

1 THE CHAIRMAN: Does that mean sending memos or actually  
2 meeting?

3 A. It was a mixture of the two. I mean, only the memos  
4 survive. I can't remember whether we also met. But  
5 meetings were a very frequent occurrence. We were -- we  
6 were located very closely together.

7 THE CHAIRMAN: Now, so far then we have got to the point at  
8 which the senior principal medical officer might have  
9 been involved, you might have been involved. What would  
10 have been the route upwards from either of you or both  
11 of you, or however you worked?

12 A. Almost certainly on a matter of importance -- and this  
13 was clearly a matter of importance -- John Forrester's  
14 note of the meeting of the SNBTS directors would either  
15 have been sent directly to Dr Scott, who was the deputy  
16 chief medical officer at the time, or to Hugh Morison,  
17 who was my boss at the time, or to both. But that is  
18 a matter of fact that can be checked by looking at --

19 THE CHAIRMAN: I have no doubt we will. I'm just trying to  
20 get a feel for the structure. So it's only after one  
21 had penetrated this succession of curtain walls that the  
22 question would arise whether the issue should be  
23 referred upwards to ministers?

24 A. With respect, sir, I don't think that the impression of  
25 curtain walls gave quite the right --

1 THE CHAIRMAN: Nothing as substantial as that?

2 A. The most diaphanous of curtains I might agree with.

3 I would prefer no curtains at all, because we worked  
4 extremely closely together. I would have seen my boss  
5 daily or certainly quite a number of times every week,  
6 not as a regular rule but just in the course of  
7 business. We worked very closely indeed together as  
8 a team.

9 THE CHAIRMAN: Yes. Thank you, I think that's a sufficient  
10 general picture for me.

11 MR MACKENZIE: Thank you, sir. Yes.

12 Over the page, please, in your statement,

13 Mr Macniven, the fourth and last question we asked was:

14 "Whether or not [you] agree was what is set out in  
15 Mr Murray's C2 statement."

16 Which we will come to shortly. You say:

17 "I agree with it, with trivial exceptions ..."

18 Which we will see:

19 "I agree in particular with paragraph 4 of the  
20 statement, which well expresses the importance we  
21 attached to the safety of Scotland's supply of blood and  
22 blood products."

23 I would like to put your statement to one side,  
24 please, and now look at Mr Murray's statement, which  
25 I think helps us with some of the procedures and



1 processes within SHHD, which I think may not otherwise  
2 be obvious to us looking in from the outside.

3 A. Yes.

4 Q. This is [\[PEN0171755\]](#). The first two paragraphs are by  
5 way of introduction.

6 We can go to paragraph 3, please. Mr Murray states:

7 "I was not involved in the formulation of policy in  
8 relation to blood and blood products. My task was to  
9 administer or execute as appropriate detailed  
10 departmental policy."

11 The question that I think arises from the first  
12 sentence, Mr Murray was not involved in the formulation  
13 of policy in relation to blood and blood products. Who  
14 did formulate such policy?

15 A. It was the people that we have just referred to. It was  
16 the -- it was my boss, me Arch -- Dr Archibald McIntyre  
17 and Dr John Forrester, referring to ministers or to more  
18 senior officials as necessary. I should add to that  
19 list that I have just given, Dr Scott, the deputy chief  
20 medical officer, who was closely involved in this kind  
21 of matter.

22 Q. I understand. Picking up Mr Murray's statement. He  
23 goes on:

24 "In relation to medical, scientific and technical  
25 matters relating to SNBTS, I would receive information,

1 guidance and advice from medical colleagues, namely  
2 Drs Bell, Forrester and McIntyre. I was not in a line  
3 management structure with them but in relation to  
4 medical matters officials relied heavily on the  
5 expertise of those professional advisers."

6 Would the same apply to you, Mr Macniven?

7 A. Yes, essentially Sandy Murray is putting in different  
8 words the rather more extended explanation that I gave  
9 to you earlier.

10 Q. I understand. We see Dr Forrester replaced Dr Bell.  
11 All three reported to Dr Scott, who was the deputy chief  
12 medical officer:

13 "They would minute me or ask me to discuss matters  
14 with them. As I did not have medical qualifications of  
15 any kind, I would not question their instructions in  
16 relation to medical matters."

17 To pause there, do I take it, Mr Macniven, that you  
18 may have been a little more willing to question their  
19 instructions in relation to medical matters, certainly  
20 if something seemed inconsistent or illogical, or if you  
21 thought they hadn't addressed the right question  
22 perhaps?

23 A. That's correct.

24 Q. I understand.

25 In paragraph 4 Mr Murray goes on to say:

1            "That said, I was left in no doubt during my period  
2            in branch 3 that we were dealing with matters of the  
3            highest importance to the safety of the blood supply;  
4            literally life and death."

5            We can see what else is set out there.

6            Over the page, please. Paragraph 5 Mr Murray says:

7            "I can't remember when I first became aware of the  
8            issue of possible introduction of surrogate testing."

9            Just to pause and ask you, Mr Macniven, do you have  
10           any recollection of when you first became aware of the  
11           issue?

12          A. Not specifically. I can only be guided by the papers  
13           you have shown me.

14          Q. Yes, thank you.

15           Paragraph 6 and 7 we don't have to go to.

16           Paragraph 8, we get into the question of funding,  
17           which may be helpful to look at. Paragraph 8, Mr Murray  
18           states:

19           "Paragraph 9.36 of the interim report refers to  
20           a bid for SNBTS funding for 1987/88. One of my  
21           responsibilities was to coordinate the SHHD response to  
22           the CSA annual bid for funding."

23           Are you able to explain to us in simple terms and  
24           briefly, Mr Macniven, how an organisation such as the  
25           SNBTS would seek funding for their operations and

1 activities?

2 A. Yes, there was an annual bidding process which covered  
3 at least the next year and I think may have covered the  
4 two following years as well, and that was submitted to  
5 us as part of our Common Services Agency application for  
6 funds, which covered other services like the ambulance  
7 service. We considered that along with, of course, all  
8 the other requests for funding from, particularly, the  
9 health boards, and came to a conclusion about how the  
10 available resources should be spent.

11 That was a question which always was put to  
12 ministers, a vital question on the disposition of  
13 resources, and it's possible, but I have seen no papers  
14 on the subject, that we would have mentioned the SNBTS  
15 bid for resources for surrogate testing as part of an  
16 omnibus note to ministers in the context of the budget  
17 for the following year.

18 Q. We will come on to that question, in particular to  
19 whether the SNBTS bid went as far as that, as far as to  
20 ministers, but I think that's a helpful overview to  
21 start with. Thank you.

22 Mr Murray, going back to his statement, he says --  
23 yes:

24 "The CSA would submit annually a global bid for all  
25 of their divisions for the coming financial years. This

1 was referred to as PES -- the public expenditure survey.  
2 I was responsible for coordinating the assessment of the  
3 PES bid by the SHHD branches responsible for the various  
4 divisions of the CSA."

5 Mr Murray then goes on to talk us through the  
6 various steps.

7 If we can go over the page, please, to paragraph 9,  
8 Mr Murray states:

9 "As I recall, the CSA PES bid was formulated on the  
10 basis of bids made by each of the CSA divisional heads  
11 to the finance division/Treasurer's department of CSA.  
12 The finance division/Treasurer's department then  
13 assembled the internal bids and presented them to the  
14 CSA management committee to consider or revise as  
15 appropriate. The CSA central administration then sent  
16 them to SHHD, at which point I would coordinate within  
17 the department. I would then farm out sections of the  
18 bid to administrative colleagues in the branches dealing  
19 with the particular CSA divisions in order to get  
20 departmental colleagues' comment. I also assessed the  
21 bids for the divisions for which I had responsibility,  
22 including SNBTS and the Scottish Ambulance Service. As  
23 regards PES, I dealt primarily with CSA officials rather  
24 than SNBTS. This reflects the fact that Mr Murray's  
25 concerns were essentially administrative/executive."

1 Paragraph 10. Mr Murray states:

2 "For the parts of the PES bid for which I was  
3 responsible, including SNBTS, I would consider CSA's bid  
4 and would assess it. In doing so, I would have had  
5 regard to advice from SHHD finance division as to the  
6 limitation of what could be bid for. They may, for  
7 example, have put a percentage cap on any increase of  
8 funding, based on the rate of inflation. On receipt of  
9 the PES bid, I would copy the SNBTS bid to my medical  
10 colleagues as on medical matters I was guided by them."

11 To pause there, Mr Macniven, did you have any role  
12 in this process?

13 A. Not in the process as Sandy Murray has described it thus  
14 far, but when the -- when he had accumulated the  
15 necessary advice, the results would be put to me and  
16 then to my boss in that process of aggregation across  
17 the whole health service that I described a moment ago.

18 Q. I understand.

19 THE CHAIRMAN: Could I ask one question? When the units  
20 were putting together the initial bids to come up, did  
21 they have any guidance as to the probable level of  
22 percentage uplift or whether there would be additional  
23 funds available for specified projects or what?

24 A. Yes. I can't remember. That's a factual question that  
25 admits of a factual answer, but I can't remember what

1           our practice then was. I don't think, though, that we  
2           would have clasped to our bosom information like  
3           a percentage uplift that was known to us and might be  
4           helpful to them. But nor would they have -- nor would  
5           we have wanted to constrain them to that percentage  
6           uplift as a limit. Because in certain parts of the  
7           health service, and the Blood Transfusion Service is  
8           a very good example, the needs of the service were such  
9           that it would have received an increasing proportion of  
10          the health service's resources because of the sort of  
11          question that your Inquiry has been looking into.

12        THE CHAIRMAN: The interesting question would be whether  
13          a selection among possible projects had to be made in  
14          making a submission to you, as it were --

15        A. Yes.

16        THE CHAIRMAN: -- or whether it would come open with all  
17          bids included and then be subjected to analysis and  
18          constraints from above?

19        A. Yes, and my recollection on that is a very clear one.  
20          There were parts of the health service which were more  
21          self-denying than the SNBTS. The SNBTS's inclination  
22          was to display to the department all the pressures that  
23          they felt themselves to be subject to, or at least all  
24          the significant pressures that they felt themselves to  
25          be subject to. And I think that may have reflected the

1 previous very close involvement that we spoke of  
2 a fortnight ago of the department in the affairs of the  
3 SNBTS pre-dating the CSA.

4 PROFESSOR JAMES: Could I ask if the bidding was iterative  
5 in any way?

6 A. Yes -- I'm not certain that I heard the question. If it  
7 were --

8 PROFESSOR JAMES: Was the bidding process iterative in any  
9 way?

10 A. Yes, it was. My memory is that the SNBTS submission was  
11 quite brief and was sometimes a little hard to  
12 understand. So we would have certainly gone back -- if  
13 we had been in any doubt what was underlying it, we  
14 would certainly have gone back to the SNBTS and asked  
15 questions. My memory, which may be faulty, is that the  
16 submission was also discussed at the periodic meetings  
17 we had with John Cash.

18 PROFESSOR JAMES: I see, thank you.

19 MR MACKENZIE: Thank you. Returning to Mr Murray's  
20 statement, please, at paragraph 11, he goes on to say  
21 that:

22 "The bids would generally be based on the previous  
23 year's allocation and would request a percentage  
24 increase for growth ... they would often ask in addition  
25 for new money for entirely new projects, not covered by



1 the previous year's allocation. That is what happened  
2 with the bid referred to in paragraph 9.36 ..."

3 Of the principal report. That's the bid for funding  
4 in 1987/88:

5 "This would not have been unusual because there are  
6 always new threats and new developments and therefore  
7 always a need for new money."

8 In paragraph 12 Mr Murray says:

9 "I have had made available to me the document  
10 [\[SNB0112637\]](#), SNBTS public expenditure survey 1986  
11 programme narrative. In that document, the figure of  
12 810,000 is shown as the bid for 1987/88 for NANBH  
13 testing. Paragraph 4(b) of the section entitled 'Future  
14 strategies' appears to be the justification for this  
15 bid."

16 We'll come back to this document later:

17 "I would have copied this documentation and indeed  
18 all other documents, to medical colleagues."

19 Over the page, please.

20 Paragraph 13, Mr Murray states:

21 "I always tried to get as much money as possible for  
22 SNBTS, as one of the CSA divisions for which I was  
23 responsible; colleagues responsible for other CSA  
24 divisions did likewise. When I was in receipt of the  
25 comments from medical colleagues, I would then reframe

1 the bid accordingly and submit to SHHD finance  
2 division."

3 Pausing there, Mr Macniven, were you involved at  
4 this stage?

5 A. Yes.

6 Q. So would Mr Murray put the consolidated and considered  
7 bid to you and that would then be passed?

8 A. I think so. I would certainly have been consulted, even  
9 if the mechanism of passage to the finance division was  
10 through Sandy Murray.

11 Q. And so you would have been aware of Mr Murray's work in  
12 consolidating and assessing the bid before it went to  
13 finance?

14 A. Absolutely, more than aware of. I would have approved.

15 Q. Approved. And how about Mr Morison? Would he have  
16 approved it before it went to finance?

17 A. I can't remember whether he did so at that stage or at  
18 the subsequent stage, when finance division had  
19 aggregated it up to the health service level, as I was  
20 describing a moment ago.

21 Q. Yes. I'm not sure if you can answer this question,  
22 Mr Macniven but we see in paragraph 13 in the second  
23 sentence, Mr Murray says:

24 "When I was in receipt of the comments from medical  
25 committee, I would then reframe the bid accordingly ..."

1           Do you know what he meant by "reframe"?

2   A.   Not really.  I would have used the word -- the  
3       process -- I would have described the process as being  
4       more one of critical appraisal.

5   Q.   But would it have been open to Mr Murray and yourself,  
6       after consultation with medical and any other  
7       colleagues, to drop parts of the bid?

8   A.   Yes.  Whether we did so in the case of surrogate  
9       testing, I can't remember and the documents that I have  
10      seen don't help us.

11   Q.   We may come back to some more shortly in that regard.

12           Sir, we have got to the point of the bid having been  
13      submitted to the SHHD finance division and Mr Murray  
14      goes on:

15           "I am not aware of how they conduct their  
16      consideration but I would imagine they had regard to  
17      guidance they had received from the Treasury.  SHHD  
18      finance division made the final decisions on funding."

19           So by the time the bid goes to the finance division,  
20      is the bid essentially for a certain amount of money,  
21      together with an explanation or justification for that  
22      money?

23   A.   That's correct, yes.

24   Q.   So for those sitting in the finance division, I imagine  
25      money sought for existing operations would have been

1 a fairly straightforward matter in terms of was that  
2 something which should be financed or not. Is that  
3 correct?

4 A. Not necessarily, because we were expected in those days,  
5 as now, to achieve efficiency savings on existing work.  
6 One can always try to get more value out of every public  
7 expenditure pound.

8 So there was a critical appraisal of that kind, but  
9 fundamentally what you are saying is correct, that it  
10 was more straightforward to say we have got to carry on  
11 producing the same amount of blood and range of blood  
12 products as before and it's going to cost a little more  
13 than it has in the past, for instance because of  
14 increases in staff salary. It's easier to do that than  
15 it is to say there is this extra task that needs to be  
16 taken on.

17 Our role in relation to finance division on these  
18 extra tasks would be to construct as good a case as we  
19 possibly could for extra expenditure that we believed to  
20 be justified. The key point about surrogate testing is  
21 that we did not believe that extra expenditure was  
22 justified.

23 Q. I understand. Paragraph 14. Mr Murray goes on:

24 "The reasons why the bid for funding NANBH screening  
25 was not included by me in the overall bids submitted to

1 finance division are set out in paragraph 9.49 of the  
2 preliminary report."

3 We will come back to this:

4 "... I cannot add anything to that list  
5 justifications. None of those justifications fell  
6 within my administrative executive responsibilities.  
7 Medical colleagues would have formed a view and advised  
8 me accordingly."

9 We are told that an unknown author, referred to in  
10 the minute, referred to in paragraph 9.49 of the report,  
11 is Hugh Morison.

12 Paragraph 15. Mr Murray states:

13 "It was technically my call not to include funding  
14 for screening in the overall bid as I was the person  
15 responsible for drafting and submitting the bid to  
16 finance division but I made my call based on advice from  
17 medical colleagues."

18 Is that correct? Was it technically Mr Murray's  
19 call not to include funding for screening in the overall  
20 bid or was that technically your call?

21 A. I think it would have been, yes. I can't imagine that  
22 Sandy Murray solo, even with the very clear and strong  
23 advice from medical colleagues, would have done that  
24 without reference to me. I would have -- if -- I would  
25 have approved -- even if Sandy Murray transmitted to

1 finance division, I would have approved the bid that he  
2 transmitted.

3 Q. I understand. Paragraph 16. We can see what that says.  
4 Again, Mr Murray couldn't see any reference to that  
5 particular proposal ever going to the permanent  
6 secretary or the minister.

7 Paragraph 17:

8 "I am not aware of there having been any opposing  
9 policy views from senior officials."

10 I think is very consistent with what you said, that  
11 the medical and administrative or executive officers  
12 were at one on the question of surrogate testing was not  
13 justified on the information available to you?

14 A. That's correct.

15 Q. We can then I think --

16 A. I think that that was what Hugh Morison's unknown author  
17 note was about --

18 Q. Yes.

19 A. -- showing that he too agreed that it was premature to  
20 introduce surrogate testing without clearer scientific  
21 evidence.

22 Q. We will come back to these documents very shortly but  
23 finally, please, last paragraph, paragraph 19.

24 Mr Murray states:

25 "Aside from discussions in relation to funding I had

1 no substantive involvement in any general discussions as  
2 to the desirability of introducing surrogate testing.  
3 Had any decisions been reached, I would have been  
4 involved in securing funding to allow them to be  
5 implemented."

6 The first sentence, Mr Macniven, did you have any  
7 substantive involvement in general discussions about the  
8 desirability of introducing surrogate testing?

9 A. Yes, I can't remember. I was certainly involved -- the  
10 file shows that I was involved in to-ing and fro-ing on  
11 paper. I would have thought that that would have been  
12 paralleled by oral discussion but I have no evidence of  
13 it one way or the other.

14 Q. Would it have been unusual for you at the time to have  
15 discussed issues with the medical officers?

16 A. No, certainly it would not have been unusual for me to  
17 discuss them. It would have been very normal. In the  
18 way that I have described at the beginning, we operated  
19 as a team.

20 Q. So you would have discussed the merits, the substance,  
21 of issues which were arising?

22 A. I imagine that I would have done. I don't have any  
23 evidence one way or the other.

24 Q. Thank you. I would like now, please, to put that  
25 statement to one side and to finally go through a series

1 of documents with you, please, Mr Macniven, relating to  
2 events at the time, 1986 and 1987, and simply to look at  
3 things in chronological order, and I think the issues we  
4 will see arising under the umbrella of surrogate  
5 testing, we will see issues such as product liability,  
6 questions of funding and some discussion of the merits  
7 of surrogate testing as well.

8 Now, the first document, please, is [\[SGH0016295\]](#).  
9 If we go over the page, please, to see the author, we  
10 will see this is a minute by Dr Forrester of  
11 30 June 1986.

12 Then back to the first page, please. We can see  
13 it's addressed to Dr McIntyre and copied to Dr Scott.  
14 So on the face of it a minute primarily for the benefit  
15 of Dr Forrester's medical colleagues.

16 I think we can see in top of the right-hand corner  
17 the names Mr Murray, Mr Thomson and file. The name  
18 Mr Murray and the tick, does that suggest at least that  
19 a copy of the document was sent to Mr Murray who would  
20 tick it once he had read it?

21 A. Exactly so. In the way that I had described earlier  
22 about the transmission of information among the team.

23 Q. I see. And the fact that, Mr Macniven, your name isn't  
24 on the document, does that suggest that you didn't see  
25 it?



1 A. I would almost certainly have seen it when the file was  
2 subsequently in my hands but I wouldn't have seen it  
3 contemporaneously with its issue.

4 Q. When and why would the file be in your hands?

5 A. One would need to look at the front cover of the file to  
6 show that. That information is recorded on the front  
7 cover of the file.

8 Q. So why would you be looking at a file -- if a minute had  
9 come to you asking you a question, then you may go to  
10 the relevant file to dig it out, is it that scenario?

11 A. That sort of thing.

12 Q. I understand. One matter I wish to take you to is back  
13 to page 2. I will have to put these documents to  
14 Dr Forrester when he is with us, but it's the issue of  
15 product liability under point 6.

16 I know that you did come to have some involvement in  
17 product liability, and Dr Forrester here states:

18 "Dr Cash continues to express grave anxiety on this  
19 score. I protested that his anxiety appears impossible  
20 to justify or comprehend."

21 Et cetera.

22 I think, Mr Macniven, this is a reference to  
23 a Council Directive of 25 July 1985 by which the UK  
24 would require to bring in legislation in respect of  
25 essentially strict liability for defective products?

1 A. For products of all sorts, and blood products were only  
2 one of our -- a complete cross-section of products used  
3 by consumers.

4 Q. You are absolutely right, it's the question of consumer  
5 protection generally and products generally and it's  
6 certainly not a question of just blood products. As you  
7 say, it's products generally.

8 A. Absolutely.

9 Q. We know that the Consumer Protection Act 1987, with  
10 strict liability provisions, came into force in  
11 March 1988. I wonder, Mr Macniven, you joined the SHHD  
12 in May 1986, did there come a time when the issue of  
13 product liability, the Consumer Protection Act and the  
14 question of blood and blood products came to your  
15 attention?

16 A. Yes. The bill that preceded the Act had a number of  
17 implications for the services for which I was  
18 responsible within the department, of which the SNBTS  
19 was one. So I was involved in the preparation of the  
20 legislation, which was being carried out in Whitehall by  
21 the Department of Trade and Industry.

22 We were worried about aspects of the effect on blood  
23 and blood products, and these worries were fuelled by  
24 John Cash's very substantial worries about them. Now,  
25 we didn't entirely share, as John Forrester's note

1 records, John Cash's fears but there were aspects that  
2 we checked up, particularly, I think, to ensure that  
3 blood donors were not in any way caught by the  
4 legislation that in donating blood, you weren't seen as  
5 the producer of the product that the legislation was  
6 concerned with.

7 Q. So you were aware of these issues at the time?

8 A. Oh, yes, very much so.

9 Q. Thank you. Then I think the next document, please -- we  
10 are back to funding -- it's [\[SNB0112637\]](#). It's slightly  
11 unfortunate, Mr Macniven, I had hoped to take  
12 Professor Cash through all of the funding bids before  
13 I asked you about them because some of the matters  
14 I think aren't entirely clear from the face of the  
15 documents, but we haven't had a chance to do that so we  
16 will just have to handle this as best we can?

17 A. That lack of clarity is what I was alluding to earlier,  
18 that it was sometimes necessary to go back to the SNBTS  
19 and elucidate what was in this programme narrative  
20 document.

21 Q. We might see some examples of that but just to  
22 understand what this document is, we can see it's  
23 entitled "SNBTS: public expenditure survey (1986)."

24 I take it this relates to the year 1987/88?

25 A. It will be clear in a page or two.

1 Q. "Programme narrative". The bottom right-hand corner we  
2 see the letters "JDC". I assume this was drafted by  
3 Professor Cash but I will have to put that to him in due  
4 course.

5 Again we see 5/86. It may have been it was drafted  
6 in May or submitted in May 1986 but again I can check  
7 that with Professor Cash.

8 A. But I think that's a likely hypothesis.

9 Q. Thank you. Go on, please, to page 2640. We can see  
10 a table 1, which has various columns, "Item", and then  
11 the years 1986/87, 87/88, 88/89, 89/90.

12 Could I ask, Mr Macniven, are the years 87/88,  
13 a reference to calendar years or financial years?

14 A. These would be references to financial years running  
15 from 1 April to 31 March, and this is an example of what  
16 I was saying earlier, that these bids covered not only  
17 the next year, next financial year, but also, although  
18 inevitably more speculatively, the following two years.  
19 So what you get in that table is four years. The then  
20 current financial year, which was the baseline against  
21 which one could look at the bids in the following years  
22 in the way that you were describing a moment ago, and  
23 then the three future years.

24 Q. Thank you. I think we can see item 5(g) in the  
25 left-hand column:

1 "Non-A non-B Hepatitis testing."

2 A sum of £810,000 sought for 87/88. Then a sum of  
3 836,000 indicated for 88/89.

4 If we can then, please, go on to page 264 --

5 THE CHAIRMAN: Just before you leave, as far as the current  
6 year is concerned, is this simply narrating a vote that  
7 has already gone through, it's not supplementary?

8 A. That's my understanding. Obviously things come up in  
9 the middle of a financial year and there were mechanisms  
10 for dealing with them. I don't think this would have  
11 been the mechanism for doing so. So what you describe  
12 is the normal practice.

13 THE CHAIRMAN: Right.

14 MR MACKENZIE: Thank you. We can see some narrative in  
15 relation to that sum at 2649. We can see under 4 -- 4  
16 is "Additional donation microbial screening" under (b)

17 NANB:

18 "Despite the absence of specific tests to detect  
19 donations which transmit non-A non-B Hepatitis, there is  
20 increasing evidence that both in Europe and  
21 North America formal moves will be made, within the next  
22 12-18 months, to introduce surrogate testing of all  
23 donations (liver function and anti (HBsAg) core tests).  
24 Current studies in the States have costed this exercise  
25 at \$7 per donation. For the SNBTS this would be

1 approximately £1.5 million per annum (using current  
2 exchange rates). There would be additional capital  
3 monies required and the US costings do not include  
4 a significant revenue cost for subsequent counselling of  
5 donors. Provision has been made for this development to  
6 commence in 1987-88 ..."

7 I think the next document we have -- I should pause  
8 and ask, Mr Macniven, do you recall seeing that  
9 particular bid at the time?

10 A. I will have done. I don't recall that bid. I recall  
11 a number of years' bids, which I have conflated into  
12 one.

13 Q. I understand. The next, I think, relevant document --

14 THE CHAIRMAN: We will take a short break at that stage.

15 MR MACKENZIE: Thank you, sir, yes.

16 (3.02 pm)

17 (Short break)

18 (3.23 pm)

19 THE CHAIRMAN: Yes.

20 MR MACKENZIE: Thank you, sir. Mr Macniven, the next  
21 document, is [\[SGH0028140\]](#). We will see shortly, this is  
22 a minute from Mr Murray, dated 21 October 1986, sent to  
23 Dr Scott and copied to Dr Forrester.

24 And again, Mr Macniven, can we take it, because your  
25 name doesn't appear in this minute, it's unlikely you

1           would have seen the minute at the time, albeit --

2   A.   Correct.

3   Q.   Correct.  It may have been contained in a file you may

4           have looked at later.  We see the writing, top

5           right-hand corner, if we scroll down a little,

6           handwriting, 7, 8, 9.  Does that mean anything?

7   A.   No, what it is, is the document number on the file, and

8           why it has been changed is because earlier documents

9           must have been found, two earlier documents must have

10          been found, which require the later papers to be

11          renumbered because the file -- document 1 on the file is

12          the oldest document.

13   Q.   Thank you.  We can see --

14   A.   In other words, it has very little significance today.

15   Q.   I understand.  We can see the content of the minute.

16                 Mr Murray refers to Dr Scott's minute of 16 October

17                 and states:

18                 "I ... can confirm that the bid we are making to our

19                 finance colleagues for money for the SNBTS in 87/88

20                 makes no provision for NANBH screening."

21                 To pause there, it appears from this memo that,

22                 having undertaken an assessment of that particular bid,

23                 Mr Murray's view was not to pass it on for submission to

24                 finance colleagues.  Is that correct?

25   A.   Absolutely.

1 Q. And then --

2 A. And the reason for that was because we were not  
3 convinced that it was necessary or timely anyway.

4 Q. Yes. At the bottom of the memo it states:

5 "We are making no bid for any new money to provide  
6 for this hepatitis screening."

7 Just to follow this forward a little, Mr Macniven,  
8 if yourself and Mr Murray and colleagues had decided  
9 that such a bid should have been sent on to finance  
10 department, and if one assumes finance department had  
11 approved the bid, remind me what would have happened  
12 next? The finance department would have sent the bid  
13 where?

14 A. It would have put it for ministerial approval and then  
15 it would have been enshrined in the vote, which  
16 Parliament voted for the money -- the resources which  
17 Parliament voted for the subsequent financial year. But  
18 you have asked a hypothetical question.

19 Q. Yes.

20 A. If I could rephrase that question a little, when the  
21 funds were made available for non-A non-B Hepatitis C  
22 screening subsequently, some years later, that would  
23 have been the process that was followed.

24 Q. Yes. And just to stick with that, the Hepatitis C  
25 process, so once essentially Parliament has voted on the



1 budget and the bill becomes law, then presumably it is  
2 a matter of law. Let's say £100,000 had been bid for  
3 and included for Hepatitis C screening and it had been  
4 approved by Parliament, then presumably the SNBTS could  
5 then only have spent that £100,000 on Hepatitis C  
6 screening. They couldn't have chosen to spend the money  
7 on new ambulances, for example?

8 A. They couldn't have spent it on new ambulances because  
9 that's nothing to do with the SNBTS, but the SNBTS would  
10 have been given a sum of money, which was not  
11 hypothecated to particular circumstances. We did  
12 sometimes hypothecate, but I don't think we would have  
13 done so in this kind of case. It was a very unusual  
14 thing to do. So John Cash would have been given a sum  
15 of money which he could manage at his discretion, which  
16 was very important because, of course, during  
17 a financial year things change. The cost of screening  
18 might have been lower, which would have allowed him to  
19 meet other pressures from the money that would otherwise  
20 have been wasted if we had hypothecated it.

21 Q. So to continue to develop that a little, equally, let's  
22 say, if in 1988 the SNBTS had sought funding for  
23 surrogate testing, it hadn't been made available, but it  
24 would have been open to them, if they could manage it,  
25 to take the money from somewhere else in their funding

1 to introduce such -- to fund at least such screening?

2 A. Theoretically what you say is right, but the size -- as  
3 the table that you had up on the screen a moment ago  
4 demonstrates, the size of the expected cost of screening  
5 in relation to the total budget of the SNBTS would have  
6 made that highly unlikely.

7 Q. I see.

8 A. I think that it would have been unreasonable for us to  
9 expect John Cash and his colleagues to have introduced  
10 it free. That wasn't in our minds at all.

11 Q. I understand.

12 THE CHAIRMAN: But the position would be this, that apart  
13 from the exceptional case in which sums had been  
14 hypothecated at the level of Parliament, in the vote  
15 there would be a degree of flexibility in the  
16 application of the departmental vote downstream?

17 A. Hypothecation would not have been done at the level of  
18 Parliament. It wouldn't appear in the vote.

19 THE CHAIRMAN: In any circumstances?

20 A. I wouldn't like to say in any circumstances.

21 THE CHAIRMAN: I would have thought, for example, that an  
22 aircraft carrier would certainly get its own line.

23 A. Yes, but in a way the aircraft carrier is the same as  
24 the SNBTS, it's a big sum of public expenditure, not as  
25 big -- the SNBTS is aircraft carriers these days, but it

1           wouldn't have been Parliament hypothecating it, it would  
2           have been more normal for us to hypothecate it, but  
3           still exceptional, and I can see no reason why we would  
4           have done so here, where the SNBTS needed no convincing  
5           of the merits of introducing the screen.

6   THE CHAIRMAN: I think that's probably enough. I naturally  
7           think of what happens to the poor auditor who comes  
8           along and is trying to ensure that it's authorised  
9           expenditure, but I think the information you have given  
10          is fine --

11   A. Okay, thank you.

12   THE CHAIRMAN: -- that there would be a flexibility, subject  
13          to a few questions.

14   A. A lot of flexibility.

15   PROFESSOR JAMES: Could I just ask: assuming the 100,000, or  
16          whatever it was, for the screening was just included in  
17          a global number without its hypothecation, nonetheless  
18          the quid pro quo of that would have been: but we do  
19          expect you to start the screening, I imagine?

20   A. Oh, yes, yes.

21   PROFESSOR JAMES: Okay.

22   A. But I think that the tenor of that question implies  
23          a degree of suspicion between us and the SNBTS, which  
24          didn't exist in practice.

25   PROFESSOR JAMES: I'll take your word for it.

1 THE CHAIRMAN: For the time being.

2 MR MACKENZIE: Thank you. Mr Macniven, I would like to move  
3 on now back to the question of product liability. The  
4 next document is [\[SGH0050155\]](#).

5 This is a letter from a Peter Lambert in the  
6 Department of Trade and Industry to Mr Graham Calder.  
7 Was he, I think, the chief pharmacist?

8 A. That's right and Graham was in the lead on product  
9 liability matters in the Scottish Health Service because  
10 the main products of the Scottish Health Service were  
11 pharmaceutical products.

12 Q. Thank you. This letter is dated 9 February 1987.  
13 I think in short this arises from Professor Cash,  
14 I think, had asked that blood and blood products be  
15 treated as a service rather than a product and,  
16 therefore, a specific exemption from the new  
17 legislation. And I think in short the answer was no, as  
18 we will come to see in this letter headed "Consumer  
19 Protection bill".

20 A. That's my understanding as well.

21 Q. I'm grateful. I think we won't go into it in detail,  
22 other than that when one reads the letter, one can see  
23 in the first page that the DTI are unpersuaded that  
24 blood and blood products should be removed from the  
25 meaning of "goods and products".

1           Over the page there is mention of a possible  
2           defence:

3           "The case of a product containing a undetectable  
4           defect is covered by clause 4(1)(e) of the Bill, which  
5           provides that it will be a defence for a person to show  
6           that the state of scientific and technical knowledge was  
7           not such that a producer of products of the same  
8           description as the product in question might be expected  
9           to have discovered the defect. The availability of this  
10          defence should, I hope, go some way to removing your  
11          concern about blood products."

12          I'm fast forwarding and summarising very much but  
13          I think, in short, when the matter came before  
14          Mr Justice Burton, I think he took the view that defence  
15          was not available because there was a known risk of  
16          blood and blood products transmitting hepatitis. It was  
17          a known albeit generic risk, it was still a known risk  
18          and, therefore, the defence wasn't available, and the  
19          producer of a product took the risk of continuing to  
20          supply such a product.

21          We might go into that with Professor Cash a little  
22          bit later.

23          Simply for the record, two further internal  
24          documents. We don't have to go to but they continue  
25          that story a little.

1           The first one is [\[SGH0050149\]](#), which is a minute  
2           from Mr Calder of 13 February 1987 to Dr Scott and  
3           others, really passing on what the DTI have said.

4           And that is then passed on in a letter from  
5           Mr Morison to Mr Donald of the common Services Agency on  
6           13 March 1987, which is [\[SGH0050140\]](#). I won't go to  
7           them in the interests of time, and I don't think they  
8           are absolutely necessary to go to.

9           The next document I think we should go to is  
10          [\[SGH0028127\]](#). If we go to page 2, please, we can see  
11          this is a minute from Dr McIntyre of 6 April 1987 and  
12          back to the first page, please, we can see it's  
13          addressed to Dr Scott and others, including yourself,  
14          Mr Macniven, and the heading is "Scottish participation  
15          in UK research project on transfusion-associated non-A  
16          non-B Hepatitis".

17          Back to page 2, please. Second paragraph:

18          "The directors of SNBTS are unanimous and are now  
19          pressing fairly strongly that this screening should be  
20          instituted; although perfectly aware that it would be  
21          costly and could not abolish transmission completely,  
22          they could then claim to have taken all steps open to  
23          them to reduce transmission. Before embarking on such  
24          an expensive programme, it would seem logical to  
25          participate in the proposed research and to delay any

1 further action until the results of this were known.

2 "If recipients of this minute are agreeable that  
3 this is the correct line to adopt, then the Edinburgh  
4 SNBTS will be asked to prepare a detailed proposal along  
5 similar lines to that of their English counterparts."

6 If we go back to the first page, please, I think the  
7 handwriting is that of Mr Morison. Is that correct?

8 A. Yes, it is.

9 Q. And so his handwritten minute or note to you of 6 April  
10 saying:

11 "Mr Macniven, advise, please. My initial reaction  
12 is (a) it would not make sense to screen all blood for  
13 non-A non-B, the benefits appear out of all proportion  
14 to the risks, (b) we should therefore participate in the  
15 research, (c) CSO should be encouraged to fund it."

16 I take it, Mr Macniven, that was also your view and  
17 the view of the medical officers too?

18 A. That's correct, yes.

19 Q. If we look at the next document in that regard, please,  
20 we will see [\[SGH0028126\]](#). It's a memo from Dr Scott to  
21 Dr McIntyre and copies to others, saying:

22 "I agree in principle with the procedure outlined in  
23 your minute of 6 April.

24 "We must do whatever we can to prevent the BTS going  
25 ahead with a full-scale introduction of this testing --

1 or at least trying to blackmail us into the provision of  
2 funds.

3 "The research proposal from Edinburgh will, of  
4 course, have to be subject to the scrutiny of the  
5 appropriate CSO group and the availability of finance.  
6 I would not like to see it fail on the grounds of  
7 finance because the stakes are high."

8 "Blackmail" is a strong word, what did you  
9 understand it to mean in that context?

10 A. I can't remember what I felt at the time. A possible  
11 construction is that Dr Scott was feeling that the SNBTS  
12 was threatening us with serious consequences if we  
13 didn't provide the funding.

14 Q. From a product liability point of view, wasn't  
15 Professor Cash correct?

16 A. That's not what we thought at the time, see the previous  
17 paper that you put up on the screen from Lambert in the  
18 Department of Trade and Industry.

19 Q. Well, I suppose that the Department of Trade and  
20 Industry -- I'm not sure really how much they knew about  
21 the supply of blood and surrogate testing. I suppose  
22 they are looking at things from a particular angle?

23 A. Yes, but they knew a lot about what their legislation  
24 was intended to achieve. It sounds from the remarks you  
25 made when you were showing that document that they were



1 wrong but that was our understanding at the time.

2 Q. I think they said a defence may be available. I'm not  
3 sure they went much further but maybe I should ask you  
4 this, Mr Macniven: do you recall taking advice at the  
5 time on the implications of the Consumer Protection Act  
6 in relation to the supply of blood generally but in  
7 particular the question of surrogate testing?

8 A. I don't recall. It's too detailed a question. The file  
9 will show the answer to that.

10 Q. Okay. Now, the next document, please --

11 A. Sorry to interrupt. We certainly sought legal advice on  
12 aspects of the consumer protection legislation but  
13 whether we sought advice on precisely that angle,  
14 I can't remember.

15 Q. I understand. The next document, please, is  
16 [\[SGH0028125\]](#). This, I think, Mr Macniven, is your  
17 response of 9 April 1987 to Dr McIntyre's minute of  
18 6 April, and you say:

19 "I am replying on my own behalf and that of  
20 Mr Morison ... Mr Morison and I entirely agree with  
21 Dr Scott's comments in his minute of 7 April to you. It  
22 is important that the decision on whether or not to  
23 screen all blood for non-A and non-B Hepatitis, which  
24 will not be cheap and may not be certain should be taken  
25 on the basis of the sort of UK research you suggest."

1           That was obviously your view at the time, no doubt  
2           informed by the views of your medical colleagues?

3   A.   Dr McIntyre in particular, yes.

4   Q.   One difficulty, perhaps, Mr Macniven, is this, that  
5           Dr McClelland has explained to us that the type of study  
6           proposed was only going to look at donors, and if one  
7           really wanted to gain a better understanding of whether  
8           surrogate testing may be effective in reducing  
9           post-transfusion hepatitis, one would have to study  
10          recipients. It seems a fairly obvious and logical  
11          position. Was that point ever pointed out to you by  
12          your medical colleagues at the time?

13   A.   I don't recall that. I recall that the research  
14          proposal was developed in -- by the Blood Transfusion  
15          Service south of the border, and I don't know that  
16          I would, therefore, have -- you know, the question was  
17          did we -- should we participate, rather than is the  
18          research the right way to go about it. I would have  
19          tended to accept the advice of the experts in the Blood  
20          Transfusion Service on that technical question.

21   Q.   Yes. And your position, perhaps, to be fair, may have  
22          been that you were unpersuaded on the evidence put to  
23          you that surrogate testing should be introduced or  
24          funded. So, therefore, some type of further research  
25          was required.

1           Now, it may not have been really a matter for you as  
2           to the technical details of exactly what that further  
3           research should be?

4    A.   I think that's a fair summary of the position that  
5           I adopted at the time, reflected through the papers that  
6           I have seen.

7    Q.   Yes.

8    A.   But I don't recall that level of detail.

9    Q.   Yes.  If we could then, please, go to [\[SGF0012085\]](#), this  
10           is in short, Mr Macniven, a memorandum from Dr McIntyre  
11           to yourself and others, dated 21 July 1987.  Half way  
12           down it refers to a letter in The Lancet of 4 July 1987,  
13           where Professor Cash and his SNBTS directors set out  
14           a case for starting testing.

15           Do you recall seeing that letter at the time or  
16           about that time?

17   A.   I don't recall it because it's so long ago.  I clearly  
18           did see it.

19   Q.   Okay.  A few paragraphs further down the second  
20           paragraph from the bottom:

21           "DHSS have expressed their concern and dismay at the  
22           letter by Professor Cash and colleagues and have  
23           interpreted this as being SHHD policy."

24           I would like to pause, please, and ask you this: to  
25           what extent did SHHD liaise with the DHSS in the

1 question of surrogate testing and, secondly, to what  
2 extent did the DHSS influence the views of the SHHD on  
3 surrogate testing?

4 A. We liaised very closely indeed. There was a formal  
5 committee, the name of which I can't remember, but it  
6 was mentioned in Archie McIntyre's last note that you  
7 put up on the screen, on which SHHD was represented to  
8 look at this at a GB level and, you know, we were  
9 conscious of the fact, as this note brings out,  
10 perhaps -- no, but we were conscious of the fact that  
11 the view of the BTS directors south of the border was  
12 against the introduction of surrogate testing.

13 Q. Thank you. Thank you, Mr Macniven.

14 I'm almost finished. There are one or two  
15 documents. Next, please, is [\[SNB0113743\]](#). We are back  
16 to the question of funding.

17 This is the SNBTS PES 87, possibly drafted by  
18 Professor Cash in June 1987. Again, I'll check that  
19 with him in due course. Can we go, please, to  
20 page 3750?

21 Again, we can see the year 1988 to 1989 under item  
22 5(f):

23 "Non-A non-B Hepatitis testing £300,000."

24 It is perhaps not obvious why it should be down to  
25 300, if it was 810 the year before?

1 A. I think the answer to that is that in the intervening  
2 year the SNBTS had got a much better view of what it  
3 would cost. I think these are far more accurate figures  
4 than the much higher figures that were calculated the  
5 year before, I think by extrapolation from American  
6 practice. It was slightly tenuous.

7 Q. If we look at the next column, 89 to 90, £105,000.  
8 Again, I will have to ask Professor Cash but I suppose  
9 one possible explanation might be higher start-up costs  
10 when one first introduces a test and lower costs in  
11 subsequent years?

12 A. That's my deduction as well.

13 Q. I think it's an important page, 3755 under "NANB  
14 surrogate donation testing":

15 "The SNBTS directors have now decided ..."

16 I think this must be a reference to the meeting of  
17 3 March 1987, when they made this recommendation:

18 "... that in the light of the advent of new product  
19 liability laws in 1988 and an emerging unchecked private  
20 sector blood collection services it would be prudent to  
21 plan to commence this programme in the financial year  
22 1988/89. The costing are estimates only and it is  
23 proposed that we plan to ensure the financial burden  
24 covers two financial years but begin in July 1988 (the  
25 date new product liability legislation will be

1 introduced)."

2 I think there is then a memo in this connection,  
3 Mr Macniven, document [\[SGH0028077\]](#). This is a minute  
4 from -- we don't have to go over the page but it's  
5 Dr Forrester of 1 October 1987 to yourself and medical  
6 colleagues.

7 And the starting is:

8 "As you are aware, the PESC request was lodged for  
9 SNBTS some time ago ..."

10 I think that may be the reference we have just  
11 looked at of PES87 but it may not?

12 A. It could be to the 1986 submission, which was of the  
13 same nature.

14 Q. And the 86 submission, would it still be outstanding as  
15 at 1 October 1987?

16 A. No, but it may be what John has in mind when he says  
17 "some time ago".

18 Q. Okay.

19 A. You see, he may be looking back three months or four  
20 months to the 1987 submission but some time ago creates  
21 a slightly longer timescale, in my mind.

22 Q. Okay. We can see it does say:

23 "As you are aware, the request was lodged some time  
24 ago, seeking funds for this purpose. We DHSS and by and  
25 large the English BTS take the view that the case is

1           inadequate and that instead research is required. SNBTS  
2           have published their view in The Lancet for 4 July."

3           There is then a reference to the Edinburgh  
4           application for funds to take part in the UK  
5           multi-centre study.

6           But over the page, page 2, it's stated:

7           "I would be ready to discuss further, but if there  
8           is no hurry to reach a decision on the SNBTS request for  
9           the money to screen ..."

10          There does seem to be some outstanding request for  
11          money to screen.

12        A. Yes.

13        Q. "... would prefer to do so when the written statement of  
14          reasons for rejection has arrived, and when our CSO and  
15          DHSS have reached a common stance."

16          The final passage here is the next document,  
17          [\[SGH0028076\]](#). This is a minute of 2 October 1987,  
18          Mr Macniven, from you to Dr Forrester and his medical  
19          colleagues.

20          Paragraph 1. You say:

21          "The PES timetable really requires us to reach  
22          a decision very soon on whether to earmark funds for the  
23          SNBTS for this purpose. I have, however, taken steps to  
24          get round this problem, by registering with finance  
25          division that a need for NANB testing may emerge but

1 (and this is the key point) it would be premature to  
2 allocate money to the SNBTS for the purpose at the  
3 moment."

4 Then we can see what's set out in the second and  
5 third paragraphs. You say that you are:

6 "... anxious for our decision ... to be properly  
7 informed by research evidence."

8 But you don't want money tied up unnecessarily.

9 In 3 you really say is it possible to expedite the  
10 feedback to SNBTS, this is the feedback from the  
11 biomedical research committee, and you end by saying:

12 "Substantial patient safety/expenditure issues ...  
13 are at stake."

14 So really I think a desire on your part -- if  
15 research is to be -- a preference for research and  
16 really a desire for it to be undertaken sooner rather  
17 than later and things not to be held up, and also money  
18 not to be set aside unnecessarily for something which  
19 may or may not take place?

20 A. But also the importance of making sure that funding is  
21 available if we had been convinced of the merits of the  
22 proposal.

23 Q. Yes. So is this minute really consistent with you  
24 keeping an open mind? If you are persuaded on the  
25 evidence, then you will seek to ensure funding is



1 available?

2 A. Exactly so, that funding should not be the obstacle.

3 Q. Thank you. Finally, Mr Macniven, the last document

4 I ought to put to you is this: if we can go, please, to

5 document [\[SNB0132880\]](#), you will see this is a letter

6 from Dr MacDonald, the chief medical officer.

7 If we go to the bottom of the page, please,

8 Dr MacDonald to Dr Cash, dated 8 October 1986. The

9 first part of the letter deals with an issue concerning

10 Dr Forrester, which I'm not going to ask you about.

11 It's rather in the last paragraph of the letter.

12 I should pause and ask, have you seen this letter

13 before?

14 A. I don't recall seeing it.

15 Q. Please take a second.

16 A. The sensitivity of it -- because it talks about the

17 performance of a close colleague, suggests --

18 Iain Macdonald wouldn't have copied it to me at the

19 time.

20 Q. Pleases, out of fairness to you, take a second to read

21 it to yourself. (Pause)?

22 A. Yes, okay.

23 Q. Thank you. Now, the final paragraph is the part

24 I wanted to ask you about. Dr MacDonald states:

25 "Unfortunately, because of the highly unfavourable

1 conditions of service in the medical Civil Service we  
2 have lost some very experienced colleagues, including  
3 Dr Bell and at present we are operating four senior  
4 medical officers under strength."

5 Really, the two questions I wish to put to you,  
6 Mr Macniven, are, firstly, whether you were aware during  
7 your tenure of staffing level difficulties among medical  
8 officers? That's the first question.

9 A. I can't remember. Being aware of that. Rather the  
10 reverse. I always found it -- I dealt with a number of  
11 senior medical officers on the different subjects for  
12 which I was responsible and I don't remember any  
13 difficulty in getting medical advice when it was  
14 required and rapidly.

15 Q. You certainly have no recollection during your tenure of  
16 there being staffing difficulties among the medical  
17 officers?

18 A. No, and as I -- my recollection, although it happened  
19 just before I joined, I think, is that Dr Bell was  
20 immediately replaced by Dr Forrester, although, as  
21 Iain Macdonald recognises in this letter,  
22 John Forrester -- we had lost the huge accumulated  
23 experience of Dr Bell.

24 Q. I think he had been there since the 1970s, I think?

25 A. It was given in the sort of family tree paper that you

1           put on the screen at the beginning.

2   MR MACKENZIE:  Yes.  Thank you.  I have no further

3           questions, sir, thank you.

4   THE CHAIRMAN:  Mr Di Rollo?

5   MR DI ROLLO:  Mr Dawson will have some questions.

6   MR DAWSON:  Sir, I do have a number of questions for

7           Mr Macniven.  I'm conscious of the time.  Obviously this

8           week we have been trying to finish promptly out of

9           concern for the stenographer.

10  THE CHAIRMAN:  How long do you think you need?

11  MR DAWSON:  I would have thought half an hour.  What I could

12           say, sir, it might be of assistance, is that it may

13           be -- I know there are another two witnesses coming from

14           SHHD on Monday, and it may be that if I were to put some

15           of the questions which I have for Mr Macniven to them,

16           it may be unnecessary to put them to him at a later

17           stage.  So it might significantly reduce that or perhaps

18           completely remove the requirement.

19  THE CHAIRMAN:  I don't know what we can do to reduce or

20           increase anything.  I really do want to get away on

21           Monday.  I have a commitment in Glasgow.  It sounds as

22           if I may have to abandon it.

23  MR DAWSON:  I was contemplating the possibility of

24           Mr Macniven coming back on another day.  It might not be

25           necessary after Monday.

1 MR MACKENZIE: It may be, sir, that if after the two  
2 witnesses Dr MacDonald and Forrester have given evidence  
3 on Monday, Mr Dawson has any outstanding questions for  
4 Mr Macniven, it may be they can be dealt with in writing  
5 because I think the timetable is getting a little  
6 clogged up.

7 THE CHAIRMAN: It's getting very clogged up but I don't want  
8 to be unfair to Mr Macniven either and having to prepare  
9 written answers to questions is a burden that the  
10 witnesses shouldn't be subjected to unnecessarily.  
11 Anyway, I don't think we can --

12 A. If I could interject, (a) I go on holiday for a week  
13 tomorrow, (b) it is no burden to me or not an  
14 unacceptable burden anyway to act as Mr Mackenzie  
15 suggests.

16 THE CHAIRMAN: Right. What are the prospects of staying on  
17 a little longer tonight?

18 A. No problem at all, from my point of view.

19 THE CHAIRMAN: We have got physical problems with the  
20 stenographer in particular that I have got to be very  
21 conscious of. Very well, we'll rise now.

22 (3.58 pm)

23 (The Inquiry adjourned until 9.30 am on Monday

24 21 November 2011)

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