

1 Tuesday, 13 September 2011

2 (9.30 am)

3 DR ROBERT PERRY (continued)

4 Questions by MS DUNLOP (continued)

5 THE CHAIRMAN: Yes, Ms Dunlop.

6 MS DUNLOP: Thank you.

7 Hello, Dr Perry, returning to give further evidence.

8 A. Good morning.

9 Q. Good morning.

10 A. Good morning.

11 Q. Dr Perry, you have provided a statement for us on our  
12 topic B3 and that is [\[PEN0121759\]](#). Perhaps we could  
13 have that in front of us.

14 You were sent the same schedule as all our other  
15 Scottish witnesses and like everyone else, you have  
16 answered those questions that you can.

17 A. Yes.

18 Q. You remind us on the first page that, of course, you  
19 didn't arrive in Edinburgh to work for SNBTS until 1981?

20 A. That's correct.

21 Q. So I don't propose really to ask you questions about the  
22 research in the 1970s because, as you point out  
23 yourself, the information you have about that is  
24 second-hand, or possibly even more distant than that?

25 A. Yes.

1 Q. Just looking at the first page, however, you make some  
2 introductory comments and you tell us that  
3 in January 1984 you were appointed acting director of  
4 PFC, following the departure of Mr Watt, that that  
5 appointment was made substantive in 1985 and that you  
6 reported formally to the committee of management of the  
7 Common Services Agency.

8 Dr Perry, I'm trying, if I can, to stay away from  
9 interpersonal questions, which relate to the individual  
10 holders of the particular posts.

11 A. Sure.

12 Q. I just wanted to ask you in more general terms to  
13 describe the relationship between the director of PFC  
14 and the national medical director of SNBTS.

15 A. Okay. Well, I'll do it as best I can. I think, as  
16 other witnesses have indicated and I certainly think it  
17 has been explored within the Inquiry, that the notion of  
18 an individual, a senior manager reporting to a committee  
19 of management -- that's what it said on my job  
20 description but in practice there was very little  
21 reporting went on.

22 I think my job description from memory actually said  
23 that I reported to the committee of management subject  
24 to the responsibilities and duties of the national  
25 medical director.

1           Now, in terms of my relationship with the national  
2           medical director, as far as I was concerned, he was --  
3           I guess in a sense he was the closest I had to an  
4           operational manager. Or certainly I would have adopted  
5           that position because it was completely with the, you  
6           know, wide range of duties and responsibilities. It was  
7           important that you had somebody to defer to, to consult,  
8           to talk with and seek approval for various initiatives  
9           that you might want to take. So in terms of my  
10          relationship, that was very much, as far as I was  
11          concerned, a close colleague, but also, certainly in  
12          terms of medical issues and many scientific issues which  
13          Professor Cash was much more expert than I, there would  
14          have been a very frequent and fairly detailed  
15          relationship on those sort of issues.

16                I'm not sure whether that answers the question but  
17                he was de facto, I guess, my boss, as an operational  
18                manager in a unit of the SNBTS. You know, he was  
19                effectively the lead manager in the organisation and  
20                I was very happy to accept that as the case.

21   THE CHAIRMAN: Dr Perry, could I ask, in those days did you  
22                have annual assessments and so on?

23   A. Good gracious me, no.

24   THE CHAIRMAN: You didn't?

25   A. No.

1 THE CHAIRMAN: So there was no formal relationship of that  
2 kind that would identify him as your line manager?

3 A. No, there were no formal processes of appraisal or  
4 review or -- not on a personal level. Obviously, senior  
5 managers within the SNBTS would write papers on various  
6 topics, strategic issues and so on, but there would be  
7 no formal review process, either between myself and the  
8 committee of management or indeed Professor Cash.

9 MS DUNLOP: Thank you.

10 We did ask you, Dr Perry, in a follow-up letter,  
11 about the committee of management and you have provided  
12 a sheet showing the membership of the committee. It's  
13 useful for us to have a quick look at that. That is  
14 [\[PEN0121586\]](#). We can see that this is a list of the  
15 members of the management committee over the period 1984  
16 to 1985.

17 A. Yes.

18 Q. We have heard of Sir Simpson Stevenson before. We know  
19 that he had a background in Greater Glasgow Health  
20 Board?

21 A. Indeed, yes.

22 Q. In fact, doing some more digging, he is a former provost  
23 of Greenock, I understand. So background in local  
24 authority. I don't know that we would particularly  
25 recognise many of the other names. Professor Cash told

1           us that Mr Wallace was from the north from Inverness or  
2           Invernessshire. Obviously we recognise Dr Scott?

3   A. Yes.

4   Q. But the management committee looks to have been largely  
5           a lay body?

6   A. Yes, I think it was largely a lay body, although  
7           Dr Scott clearly was a senior civil servant, he was the  
8           deputy chief medical officer, and I think Mr Morison, as  
9           I recall, at that time was a senior civil servant within  
10          the Scottish Home and Health Department but don't take  
11          this as absolute fact. That's my recollection. Some of  
12          these individuals also appeared on the Blood Transfusion  
13          Service subcommittee, which was --

14   Q. Which appears -- and we will look at this in due  
15          course -- perhaps to have had a greater medical or  
16          scientific input, in fact, if you look at the expertise  
17          of the people on it?

18   A. Yes, I think that's absolutely right. I think, going  
19          back to my relationship with Professor Cash and the  
20          management committee, in terms of reporting to the  
21          management committee, I think it was primarily set up  
22          that way to establish and define the disciplinary  
23          procedures in the event that -- it was necessary for me  
24          to be called to account as an employee for  
25          a disciplinary process. It really prescribed who you

1           were responsible to, who you would appeal to in the  
2           event of a disciplinary process and so on, but really no  
3           more than that.

4   THE CHAIRMAN: I think I really must follow this because  
5           I have to understand why there appears to have been so  
6           little in the way of formal management structures. Can  
7           I start with asking: did you meet these people as  
8           a committee?

9   A. I met some of them but I can't remember ever having  
10          attended a management committee of the  
11          Common Services Agency. What I did attend as both  
12          acting director and as director of the Protein  
13          Fractionation Centre -- I was one of those that would  
14          have been described as "in attendance", that the Blood  
15          Transfusion Service senior managers, which were  
16          basically the regional directors, Professor Cash and the  
17          director of PFC would have attended the Blood  
18          Transfusion Service subcommittee.

19                So some of these individuals listed here would also  
20          have been members of the Blood Transfusion Service  
21          subcommittee, which was effectively the committee of --  
22          you know, the subcommittee of the management committee,  
23          which dealt specifically with issues of blood  
24          transfusion and that was established, I think,  
25          because -- particularly colleagues in the blood

1 transfusion service -- this pre-dated me -- were very  
2 concerned that the management committee knew very little  
3 or had very little understanding about the complexities  
4 and the specific issues that faced an operational  
5 service like blood transfusion, and so there was an  
6 agreement that a blood transfusion service subcommittee  
7 would be established. So I met some of these  
8 individuals in their roles as members of the  
9 subcommittee periodically.

10 THE CHAIRMAN: Did this body ever transmit any instructions,  
11 any policy guidance or anything of that kind to your  
12 directly or through the subcommittee?

13 A. I'm hesitating so that I can give you an accurate answer  
14 but my best recollection is no, they did not. They  
15 would tend -- both the management -- and I'm not quite  
16 sure of how the management committee and the Blood  
17 Transfusion Service subcommittee related, but they would  
18 certainly have had a role in approving bids for funding  
19 for instance. They would have had a role in any  
20 disciplinary processes that did actually occur within  
21 the Blood Transfusion Service. But in terms of giving  
22 any direction to a strategy for producing products which  
23 were free from infection, for instance, they had no role  
24 in that at all and had very little knowledge -- I think  
25 they almost totally deferred to SNBTS managers and also

1 the Scottish Home and Health Department, where they did  
2 have medics and scientists that really understood to an  
3 extent what we were doing.

4 THE CHAIRMAN: Was there any other conduit by which the CSA  
5 could have passed down policy guidelines, instructions  
6 or any other form of information to you?

7 A. The area where we were most active -- but then this is  
8 my perspective and it's slightly biased perhaps, but it  
9 always used to feel like to me that the CSA always had  
10 an active role in, for instance, recruitment of staff.  
11 So they would have a very powerful interest in ensuring  
12 that the SNBTS and the units within the SNBTS were  
13 compliant with the terms of the Whitley Council, for  
14 instance, making sure that we employed people on the  
15 right basis, using the right criteria in the right  
16 grades.

17 So they had a direct role and they also had a role  
18 in terms of approving funding. But I think my  
19 experience and my recollection was that that was very  
20 indirect because the money really came from the Scottish  
21 Home and Health Department. So it always appeared to  
22 us, as managers within the SNBTS, that the CSA was just  
23 a post box.

24 So I think the simple answer to your question is  
25 that, as far as the CSA is concerned, I had no



1           experience of -- either personally or as group -- of the  
2           CSA being closely involved in any of the complex  
3           decision-making that accompanied the operational  
4           management of a blood transfusion service.

5   THE CHAIRMAN:   What about the SHHD itself?  Did it have  
6           direct or other contacts that in some way bypassed the  
7           CSA and the management committee to your knowledge?

8   A.   I think there was quite a regular dialogue between  
9           particularly the national medical director but also to  
10          an extent regional directors as well if there was  
11          a specific topic.  There would have been a direct  
12          discussion between managers in the SNBTS and officials  
13          from the Scottish Home and Health Department,  
14          particularly if there was a major area of funding that  
15          was required or a building development or a major new  
16          development, such as heat treatment of Factor VIII that  
17          required significant funding.  Then the Scottish Home  
18          and Health Department will have discussed that directly  
19          with experts within the Scottish Blood Transfusion  
20          Service.  And those discussions would not necessarily  
21          have included managers or officials from the  
22          Common Services Agency.  My impression at the time was  
23          that the Common Services Agency, if there had been an  
24          agreement reached between the Scottish Home and Health  
25          Department and the SNBTS on a particular issue, then the

1           CSA would not have interfered or intervened in that  
2           because they did not have the expertise or knowledge.

3   THE CHAIRMAN:   Yes.

4           Yes, Ms Dunlop?

5   MS DUNLOP:   Thank you.

6           Dr Perry, can we turn back to the statement, please?  
7           As I said, I don't think we really want to detain you by  
8           asking you about the research in the 1970s and that is  
9           really what is dealt with on the second page.  If we  
10          look at the third page, which is 1761, you are  
11          discussing here the information that Professor Cash  
12          brought from Bonn about the work of Behring.

13   A.   Hm-mm.

14   Q.   At this point you are a quality control inspector.  Is  
15          that correct?

16   A.   That's correct, yes.

17   Q.   Yes.  And I think you tell us in your CV and in previous  
18          evidence that yours was a new post and that you were  
19          mainly concerned with developing good manufacturing  
20          practice?

21   A.   Yes, and implementing quality systems really following  
22          the first substantive medicines inspectors' visit to the  
23          PFC in 1979 and 1980.

24   Q.   Right.  Against that background, I did want to ask you  
25          how much awareness of the heat treatment research you

1 had around the time of your arrival, so 1981/1982. How  
2 much did you know about what was going on?

3 A. I think it's difficult to recall with any accuracy but  
4 I think it was a fairly small organisation, the PFC.  
5 I had a very good productive working relationship with  
6 people like Pete Foster and indeed my then boss,  
7 Mr Watt. And I certainly think, as part of the local  
8 management team, there would have been quite extensive  
9 discussion perhaps informally about significant  
10 international -- this was a learning process for me.

11 So Peter in a sense was my mentor in the early days  
12 of joining the PFC. So I think I became aware of the  
13 Behring process, this notion that you could heat  
14 delicate proteins in a manner which protected their  
15 activity, and I think I would have become aware of that  
16 primarily through Dr Foster at a fairly early stage,  
17 perhaps not as early as Dr Foster and Professor Cash but  
18 I would have been aware -- I certainly have a vivid  
19 recollection of this being discussed and talked about  
20 informally but almost being -- both with a sense of  
21 incredulity that it could actually take place, but  
22 also -- and I clearly remember that either Dr Foster or  
23 it's published data -- that the yield of the process was  
24 8 per cent.

25 So almost a demonstration in principle that it could

1 be done but it had no practical applicability to the  
2 SNBTS because it simply wasn't the basis for creating  
3 a safe and sufficient and affordable supply of product  
4 for the population of Scotland. It just wouldn't have  
5 met the requirement.

6 So I think there was a recognition that it existed  
7 and that it could be done and I think, as others have  
8 said, Behring was a very respectable, competent  
9 organisation and I don't think we were necessarily  
10 challenging that. But it was the first point, as  
11 I think others have pointed out in this process, where  
12 there was a reasonable demonstration that, contrary to  
13 previous expectations it was possible to subject these  
14 delicate proteins to heat treatment and retain some of  
15 their biological activity.

16 Q. Yes. You go on to talk about the method not being  
17 routinely adopted at scale by Behring until 1985?

18 A. Hm-mm.

19 Q. I have drawn attention already to a statement in an  
20 article. We perhaps don't need to go to it,  
21 [\[LIT0010643\]](#); which refers to a Behring pasteurised  
22 product having been available commercially since 1980,  
23 which is slightly surprising but possibly not widely  
24 available?

25 A. Well, I think what I'm pointing out there was that

1 I think it was available fairly soon after it had been  
2 developed by Behring but in very small quantities. And  
3 when I say "widely available", I'm not aware of the  
4 Behring product, for instance, being available on any  
5 significant scale from Behring for treatment of patients  
6 outside Germany for instance.

7 So I think there were early versions of the product  
8 that were used in Germany to do studies and so on but,  
9 as far as I'm aware, it wasn't routinely available --  
10 the UK couldn't have gone to Behring and bought the  
11 product. It wasn't licensed in the UK for instance.

12 Q. In your answer on paragraph 5 you had the same  
13 impression, I think, as a number of witnesses that we  
14 were trying to suggest, as you put it, that there was  
15 widespread activity throughout Europe on this topic and  
16 I should clarify that that wasn't really the intention  
17 behind the question. It was just to try to find a form  
18 of words to replace the initial draft, which said "on  
19 the continent". So a suggestion of developments in the  
20 rest of Europe really did just mean Behring. So I think  
21 we are at one on that. I don't think anyone is  
22 suggesting that there were interesting developments at  
23 the time, other than those intimated by Behring.

24 Can we move to the next page, please? Paragraph 6  
25 deals with research into viral inactivation from 1982

1 and the question of relative priorities. Can we have  
2 a look then, please, at the minutes of the meeting of  
3 the Factor VIII study group on 28 January 1982? That is  
4 [\[SNF0013813\]](#). Perhaps the first thing to notice about  
5 this is to notice that you were there, fortunately.

6 A. Yes, indeed.

7 Q. But I also noticed that it wasn't a PFC group, it was  
8 a much more general Blood Transfusion Service group  
9 because we see representation from the Edinburgh centre,  
10 from the Glasgow centre, from the headquarters  
11 laboratory and from PFC.

12 It looks as though the main input from PFC was  
13 Dr Foster's talk. Would that be right?

14 A. Yes, I think so, yes, that's probably correct.

15 Q. If we just scroll slowly through it, we can see that  
16 first of all Dr Prowse spoke about work at the Edinburgh  
17 centre. Interestingly, he is the only person who seems  
18 to have spoken at this meeting about pasteurisation.

19 A. Yes.

20 Q. Do you have any memory of that?

21 A. I don't actually. I know Dr Prowse very well and  
22 I think at the time -- and I think this is part of the  
23 reason for Professor Cash putting this group together --  
24 was that there were a number of groups engaged in  
25 research into coagulation factors and other aspects of

1 transfusion medicine, and Professor Cash, or Dr Cash at  
2 the time, was of the view that all of these resources  
3 needed to be pulled together into a much more coherent  
4 group.

5 Now, Dr Prowse, who worked at the Southeast Scotland  
6 Blood Transfusion Service at the time, was quite a, even  
7 then, fairly recognised international expert on this  
8 subject. So I think what he was doing was basically  
9 giving an overview of international activity --

10 Q. Right.

11 A. -- in these various areas. To the best of my knowledge,  
12 there was no work going on in the Southeast Scotland  
13 Blood Transfusion Service on the pasteurisation or any  
14 other inactivation of coagulation factors.

15 Q. Quite. You see the point of asking about it?

16 A. Yes, indeed.

17 Q. What was Dr Prowse's particular background?

18 A. He was a biochemist, graduate of Oxford University,  
19 very, very competent biochemist, and I think for the  
20 large part of his working life he worked in the  
21 transfusion service. So he was a PhD graduate  
22 biochemist with a particular interest in plasma  
23 proteins.

24 Q. Thank you.

25 If we move on through this document, we have already

1 looked at Dr Foster's presentation, which we can see  
2 beginning at the bottom of the third page, PFC. We can  
3 see that Dr Foster gave a talk and had some slides?

4 A. Yes.

5 Q. Can we move on then, through the document, please, and  
6 obviously quite a lengthy or detailed presentation?

7 A. Hm-mm.

8 Q. If we move on to page 6, we can see the establishment of  
9 the four smaller groups and actually you weren't on any  
10 of the smaller groups?

11 A. No, I wasn't, no.

12 Q. Right.

13 A. No, although I would have been involved in some of them  
14 in a more informal sense. I think the purpose of -- it  
15 was my then boss Mr Watt who thought, quite correctly at  
16 the time, that the reason for having a quality manager  
17 in this group wasn't to contribute to the science and  
18 development but to make sure that there was a -- the  
19 cliché in the pharmaceutical industry is "building  
20 quality into the product". So even in the design of  
21 processes, the design and the strategic approach to  
22 producing a new pharmaceutical, you build quality into  
23 it by addressing issues of quality and good  
24 manufacturing practice right at the start of the  
25 process. So I was there to exercise that influence on



1 the activities.

2 Q. So your presence at the meetings and your involvement in  
3 the group was a kind of prompt to people to remember  
4 that aspect?

5 A. Yes, I think so but for instance, I did not have any  
6 expertise. I wasn't a biochemist, for instance. You  
7 know, these were relatively new fields of scientific  
8 endeavour as far as I was concerned and my role was --  
9 my primary role was to develop quality systems and try  
10 and raise the standards, initially in the PFC but also  
11 fairly soon on, to actually start rolling out concepts  
12 of good manufacturing practice and quality systems and  
13 quality assurance to the regional centres as well.

14 Q. Right. Can we just look at the last page as well,  
15 please, to see the other two groups. We have assays,  
16 quantity of plasma, product development, coordinated by  
17 Dr Foster, and then safety, coordinated by Dr Pepper.

18 A. Yes.

19 Q. Right. Can we go back, please, to Dr Perry's statement?  
20 You do make a point in your answer, Dr Perry, with which  
21 we are now familiar, which is in relation to the  
22 difficulty of, if I can put it crudely, squaring the  
23 circle.

24 A. Yes.

25 Q. That there is a fixed supply from the indigenous

1 population, that demand from patients is increasing and  
2 that also these new techniques of viral inactivation,  
3 may have a cost in terms of yield, which is certainly  
4 something you do not want.

5 A. Yes.

6 Q. Where you are already facing the strain of trying to  
7 supply a need which you can barely meet.

8 A. Yes.

9 Q. You describe this in your answer and I think we  
10 understand that really, consistently with all of that,  
11 it was necessary to improve yield so that any yield loss  
12 as a result of introduction of viral inactivation  
13 procedures could be balanced out?

14 A. Yes, it was -- underpinning the activities of this group  
15 or the subgroups was almost an unwritten assumption that  
16 any proposition or strategy that led to a failure of our  
17 ability as an organisation to meet what was then  
18 recognised as an escalating need for product for all  
19 patients in Scotland wasn't really viable. So, yes,  
20 improving yield was really a prerequisite to everything  
21 that followed and that was an important group. And  
22 that's, you know, stating the obvious, why this group  
23 included people from regional transfusion centres who  
24 had an impact on yield, for instance, on how they  
25 processed the plasma, how they stored it and so on. So

1           it was fundamental to the endeavour of developing  
2           a better and safer product and more of them.

3    Q.   Yes.  Then you deal briefly with investigation of the  
4           Behring pasteurisation method, which I think we know  
5           enough about for the moment?

6    A.   Yes.

7    Q.   Paragraph 9 on the following page, please.  You talk  
8           about the selection of heat treatment, which in practice  
9           at that time meant pasteurisation as a preferred option.

10   A.   Yes.

11   Q.   We understand that it's a gross oversimplification to  
12           assume that one could in some way just take the albumin  
13           process and apply it to Factor VIII.  I think we do  
14           understand that.  The only point that occurred to me in  
15           the preparation was that there must have been some  
16           experience that was available to be drawn on from the  
17           pasteurisation of albumin, not least the very protocol,  
18           the 60 degrees at ten hours?

19   A.   Yes, it was a well established protocol for  
20           pasteurisation of albumin and indeed, pasteurisation was  
21           an established technology at that time in the food  
22           industry as well, for instance.

23   Q.   Yes.

24   A.   So pasteurisation wasn't a new idea; it was borrowed  
25           from other aspects of food technology and pharmaceutical

1 processing.

2 Q. You make a point, Dr Perry, which I think is important  
3 in understanding the two different processes, wet heat  
4 and dry heat. If we look at the final paragraph on this  
5 page, please, you say:

6 "Importantly, these stabilisers do not require to be  
7 removed following pasteurisation of the product in its  
8 final container."

9 This is a comment applicable to the pasteurisation  
10 of albumin?

11 A. Indeed.

12 Q. We learned a little bit about that a long time ago -- it  
13 feels like a long time ago -- in March. So with  
14 coagulation factor concentrates, the pasteurisation  
15 step, unlike albumin, was not the final step of the  
16 process. There was quite a bit to be done after that,  
17 is that right?

18 A. No. It was very much -- it was in the heart of the  
19 process, in the middle, and subsequent to pasteurisation  
20 of coagulation factors there was a very substantial  
21 process that would have to be developed, engineered and  
22 implemented, whereas for albumin, I think the  
23 observation that you could simply add something like  
24 caprylic acid to a formulated bottle of albumin and  
25 pasteurise it and then not have to remove that made it

1 a much more simple process.

2 Q. I wanted to ask you a question which I should really  
3 have put to Dr Foster but I forgot and I have checked  
4 with you and you told me you can deal with it.

5 A. We will see.

6 Q. Can we look at Dr Foster's manufacturing process  
7 statement, which is [\[PEN0121852\]](#). And go particularly,  
8 please, to 1985 and these are three columns showing, as  
9 we see from the heading, "Outline processes for the  
10 preparation of Factor VIII concentrate of PFC between  
11 1980 and 1991."

12 A. Yes.

13 Q. The references we see at the bottom reflect what  
14 actually happened, which is the use of dry heat  
15 treatment.

16 A. Yes.

17 Q. But I asked you to indicate where in the column we  
18 should understand pasteurisation as occurring, if,  
19 instead of dry heat treatment, this had been pasteurised  
20 product. So can you answer that for us, please?

21 A. The pasteurisation part of the process would have been  
22 a very substantial detour from any one of these  
23 flowcharts, as it were, and I think the closest we have  
24 to a process where the pasteurisation could have been  
25 included was in the third column. That's the Z8

1 process. And it would have been around about C11 or C12  
2 there would have been a process of -- you have the  
3 supernatant, which is a Factor VIII-containing solution,  
4 following the original processing. It would have then  
5 been necessary to formulate that with fairly large  
6 quantities of sugar and perhaps amino acids. I'm not  
7 sure whether we used glycine at that stage but certainly  
8 very large quantities of sugar.

9 That material then, as I understand it, or recall,  
10 was dispensed into bottles or -- the fully engineered  
11 process would have been much more sophisticated than  
12 that but we never got to that stage. That would have  
13 then been pasteurised in a fairly simple,  
14 straightforward pasteurisation process at 60 degrees for  
15 ten hours but it would then be the subsequent  
16 reclamation of the Factor VIII from what is basically  
17 a very sugary solution, which is completely unacceptable  
18 for clinical use. You can't inject those sort of  
19 solutions. So the challenge after the pasteurisation,  
20 for any pasteurisation process, is how you remove the  
21 additives.

22 Q. Yes.

23 A. And you can either remove those additives by some form  
24 of ultra-filtration process or a precipitation process  
25 but again, with every process step that's included in

1 a Factor VIII purification protocol, you lose yield.  
2 Every time you process a solution of Factor VIII,  
3 whether it's by centrifugation, whether it's by  
4 ultra-filtration or by precipitation, you lose another  
5 10 per cent, maybe 20 per cent of the overall yield. So  
6 the secret is to get a process which is as simple as  
7 possible.

8 Q. Yes, actually when we come to look at your costing,  
9 which we will look at later today, there is a useful  
10 diagram at the back of that.

11 Dr Perry, we probably think we know but it's good to  
12 ask: what does a chemist actually mean by the word  
13 "formulate"?

14 A. Formulation can either be how you prepare the active --  
15 well, in the pharmaceutical industry, they would call it  
16 the "drug substance", the active drug substance, and how  
17 you mix it with other additives to make it both stable  
18 in a way that you present it, in a form that is suitable  
19 for patient administration, so in tablets, for instance.  
20 The active substance is obviously included with other --  
21 they are called "excipients", to make it acceptable, to  
22 give to a particular volume so that it can be made into  
23 a tablet. So that could be formulation.

24 Formulation could also be the addition of various  
25 substances, chemicals, solutions, as part of an in

1 process. As part of the processing of the material. So  
2 formulation of Factor VIII to make it amenable to  
3 pasteurisation would have really meant adding sugars,  
4 adding stabilisers and additives and so on.

5 Q. Right, according, presumably, to a pretty closely  
6 defined recipe?

7 A. Yes, absolutely.

8 Q. And aiming to achieve a product that has a particular  
9 specification, if you like?

10 A. Absolutely, yes. So formulation could be a process that  
11 you go through to facilitate the processing or  
12 formulation could actually mean the formulation of the  
13 finished product.

14 Q. Yes, and here it's the former sense, is it?

15 A. Here it's the former sense. So you are formulating the  
16 in-process material to make it capable of being  
17 pasteurised at 60 degrees.

18 Q. Thank you. Can we go back then, please, to Dr Perry's  
19 statement to the point we were at, which is 1764?

20 Moving on to paragraph 10, we see that you tell us  
21 that you weren't directly involved in discussions  
22 between PFC and BPL at this time but you remember  
23 regular and frequent exchanges of information.  
24 Primarily between Drs Foster and Smith?

25 A. Yes.



1 Q. So I take it that it was well known in PFC. You have  
2 said it was a relatively small organisation. It was  
3 well known that there were these connections between  
4 Dr Smith and Dr Foster?

5 A. Absolutely. And Dr Foster would have regularly updated  
6 me as a colleague on any important news or information  
7 that he had gathered from those conversations.

8 So, yes, it was widely known, and as you know,  
9 Dr Smith actually was a previous employee of PFC. So  
10 there were a number of people that knew him and  
11 certainly when he was in town, for instance, there would  
12 be quite a friendly collaborative discussion on all  
13 sorts of topics.

14 Q. Yes, the timeline actually does include in it that  
15 Dr Smith visited PFC. So we can ask him about that. He  
16 was obviously popping in quite a lot?

17 A. "Popping in" is probably a little too frequent but he  
18 was certainly -- he certainly visited fairly frequently.

19 Q. So you will have met Dr Smith quite quickly after your  
20 arrival?

21 A. Yes, indeed.

22 Q. Then 11. I don't need to ask you about freeze-drying.  
23 12 is the correspondence that we have looked at in  
24 relation to a meeting at BPL in December 1982. You have  
25 obviously read the letters, Dr Perry, and no doubt given

1           it a bit of thought. It does look as though there were  
2           two different conflicts, if you like. There was, on the  
3           one hand, the argument between having random  
4           named-patient usage of the new heat-treated products or  
5           properly formulated clinical trials?

6   A. Yes.

7   Q. Then the second argument, which is really not consistent  
8           with the first, is between clinical trials or no  
9           clinical trials because clinical trials might smooth the  
10          path of the commercial companies to obtaining a licence  
11          for their heat-treated product. Is that a reasonable  
12          summary of the dilemmas that were around?

13   A. Yes, I think it is. Yes. Also a prevailing view that  
14          there was, I think, a perception that some of the  
15          commercial organisations were claiming things about  
16          their products which perhaps weren't based too strongly  
17          on a body of evidence.

18                 So I think the professional view was that we perhaps  
19          needed more data on this before one could start talking  
20          about a hepatitis-reduced product and so on; and that  
21          certainly didn't exist at that time, to the best of my  
22          knowledge.

23   Q. Can we look on to the next page then, please? We remind  
24          ourselves that the question relates to a particular  
25          letter from Dr Cash?

1 A. Yes.

2 Q. Perhaps we note without comment that you say Dr Cash  
3 typically expressed this view using arguably provocative  
4 language to emphasise his point. I did just want,  
5 however, to cover what you say at the bottom of this  
6 page about the point that's being made in a particular  
7 paragraph in the letter. Can we have a look at the  
8 letter, please? [\[SNB0043163\]](#). We know that this is  
9 Dr Cash's letter back to Dr Lane after the meeting,  
10 17 December 1982.

11 A. Yes.

12 Q. It's pretty obvious that when we first read the letter  
13 we didn't really understand the point because we thought  
14 maybe there was a "not" missing in the last paragraph  
15 that we can see. So it would have read:

16 "I would therefore conclude that at the present time  
17 it is not in our British transfusion service's best  
18 interests to permit the commercial people all the  
19 freedom they desire."

20 But you think that would be wrong?

21 A. Yes, I do.

22 Q. I think we now have Professor Cash very confused about  
23 what it was he thought.

24 A. I must apologise for getting involved in this because it  
25 wasn't my letter. My comment is really an

1 interpretation on the basis of my understanding of the  
2 point that Professor Cash is making here, both in this  
3 letter and in response to the previous discussions, and  
4 I thought it was fairly clear that he was making the  
5 point that, despite what had been said before, he now  
6 takes the view that we should give the commercial people  
7 lots of freedom because if we don't do that, they will  
8 consume all the patients that will be necessary for us  
9 to do our own clinical trials.

10 So my interpretation -- but this isn't a matter of  
11 fact, this is a matter of interpretation -- is that the  
12 letter is correct as written.

13 Q. Right. Of course, it's very characteristic of lawyers  
14 to pick over the wording of a document, no doubt  
15 excessively. So I think perhaps we can just let the  
16 matter rest with the kind of encapsulation of the  
17 different dilemmas.

18 A. Yes.

19 Q. And move away from it.

20 A. Yes.

21 Q. Understanding, I hope, what those dilemmas were.

22 Can we go back to the statement, please? 1767,  
23 please. You have a paragraph, paragraph 14, headed,  
24 "Dominant themes in early 1983". You say that:

25 "It is important to recognise that the pursuit and

1 maintenance of self-sufficiency and product yield was  
2 a high priority for SNBTS, particularly in light of the  
3 knowledge that the eventual introduction of NHS  
4 heat-treated products would, as a result of yield  
5 penalties, potentially reduce the overall amount of  
6 Factor VIII available to patients."

7 A. Yes.

8 Q. I just wanted to ask you whether there was a jealousy  
9 about releasing too much plasma for research. If there  
10 is always a pressure to meet Scotland's aim of being  
11 self-sufficient, then presumably any amount of plasma  
12 that was taken out of the system to be used purely for  
13 research must have been perhaps grudgingly given?

14 A. I don't think grudgingly given but certainly when  
15 I became director, it was an important issue for me that  
16 consumption of large quantities of freely-donated plasma  
17 from -- this was almost a sort of moral and ethical  
18 position that this plasma was given to treat patients.  
19 And although there was a wide recognition that you can't  
20 make advances without doing research and research  
21 requires raw material, we had to be as careful as we  
22 could and as economical as we could taking material out  
23 of the -- what I would describe as the regular supply  
24 chain to use for research purposes.

25 I think as a way of trying to manage this, I think

1 we tried to establish a level of something like  
2 10 per cent of the plasma collected could be made  
3 available for research purposes. You simply can't  
4 develop a new or a modified pharmaceutical without doing  
5 laboratory studies, pilot studies, validation batches  
6 and so on. So it absolutely, inescapably requires you  
7 to consume certain amounts of material that you have for  
8 those purposes.

9 If the research goes well, that's absolutely fine.  
10 If the research stumbles or you come across problems,  
11 then if you are not too careful or even if you are  
12 careful, you can end up consuming quite large quantities  
13 of raw material which otherwise would be used for making  
14 products to meet patient needs.

15 Q. Right. But you don't remember it ever actually being an  
16 issue in the sense of people disagreeing about releasing  
17 an amount for research or anything like that?

18 A. No, there were never any major stand-offs. No,  
19 absolutely not. Having said that, I personally  
20 experienced difficulties during my time as director,  
21 when one saw new developments moving along. And if the  
22 development stumbled or it required additional research  
23 work or additional batches to be made to validate  
24 a particular process, I was in a state of constant  
25 anxiety that these problems should be solved as quickly

1 as possible because it was impossible to go back to the  
2 regional transfusion centres and say, "Can we have  
3 another 20 per cent more plasma?" It just didn't work  
4 like that. So our plasma collection programmes were  
5 established prospectively and an unexpected increased  
6 consumption of raw material to meet a research programme  
7 would have caused problems. It was anxiety. I can't  
8 remember an occasion where we slowed down or abandoned  
9 a line of research because we thought we were consuming  
10 too much material for research. I can't think of that  
11 happening.

12 Q. Thank you.

13 THE CHAIRMAN: Dr Perry, you clearly lived at this stage  
14 with a well established policy that favoured the pursuit  
15 and maintenance of self-sufficiency.

16 A. Absolutely, yes.

17 THE CHAIRMAN: What did you understand the origin of that  
18 policy to have been?

19 A. The policy of self-sufficiency? For me, when I joined  
20 the SNBTS in 1981, it was one of the first things that  
21 I picked up from --

22 THE CHAIRMAN: Almost a mantra?

23 A. Almost a mantra. It was a given that the Scottish  
24 service had agreed and there were discussions with the  
25 Scottish Home and Health Department, and

1 self-sufficiency was our target. I think I have  
2 mentioned before -- and this is very much summarising  
3 it, but as far as I was concerned from 1981 onwards, it  
4 was absolutely clear that self-sufficiency was the only  
5 game in town, as far as we were concerned. And that  
6 culture and that ethos really pervaded everything we  
7 did. And for very good reason. It was clearly  
8 understood why we had that particular position.

9 And I think I have said this before, that every  
10 bottle of product or every vial of product, every dose  
11 of product that we could make from Scottish donors  
12 avoided the need to import material from what we  
13 perceived and believed were less safe parts of the  
14 world, and particularly the American commercial  
15 material. So it wasn't just a sort of random process of  
16 pride or national pride that we would be  
17 self-sufficient, there was a very good reason underlying  
18 it. And certainly I internalised that at a very early  
19 stage. Every morning I woke up, basically the reason  
20 for going to work was to make sure that we could avoid  
21 having to import product from areas that were believed  
22 to be less safe than Scottish donors.

23 So where it actually came from, I think certainly  
24 pre-dated me. I think certainly Professor Cash -- and  
25 this is from me reading the sort of historical archives.



1           There were discussions when he took over as national  
2           medical director that, I think, one of the clear  
3           discussions he had before taking up the post was, you  
4           know: is part of the job here to establish  
5           self-sufficiency? And I think the answer to that was  
6           yes. I know there is a discussion about what we mean by  
7           "self-sufficiency" but perhaps we don't want to go into  
8           that now.

9           But leading from that process were discussions  
10          between Professor Cash and George MacDonald in the West  
11          of Scotland and various other haematologists and  
12          haemophilia directors, where they sought to establish  
13          what that meant, and the figure that I always had in  
14          mind was 2.75. That was the magic figure.

15        THE CHAIRMAN: It's repeated frequently. It's fascinating  
16          to try to work out how a senior employee coming into an  
17          organisation picks up the ethos of the organisation. In  
18          some cases it would be, no doubt, by being handed a bit  
19          of paper that set out the policies, policy statements,  
20          policy documents and whatever, but that didn't exist  
21          here?

22        A. No.

23        THE CHAIRMAN: It must have been personal communication from  
24          a very early stage.

25        A. It was certainly communication and -- but also, in

1 a sense, leadership. It was in the fabric of the  
2 building, it was in the fabric of everything that was  
3 discussed, that, you know, the PFC was established at  
4 great expense to the taxpayer and its job was to meet  
5 the needs for Scottish patients.

6 So, you know, I guess I'm just a single point in  
7 this process, but for me it became very clear very early  
8 on what we were there for and that included -- and in  
9 a sense, failing to supply was -- it sounds a bit  
10 romantic but failure to supply was not an option.

11 THE CHAIRMAN: Almost a cardinal sin.

12 A. Not quite a sin but I think it would have been seen as  
13 an admission of failure of delivery against our mission  
14 and purpose. Certainly that's how I perceived it  
15 anyway.

16 THE CHAIRMAN: Professor James has suggested a question. Do  
17 you think the management committee knew this?

18 A. I don't think they lived and breathed self-sufficiency  
19 to the extent that SNBTS did. I think they were aware  
20 of self-sufficiency and they knew it was an important  
21 topic, and I think in a sense they wouldn't have got in  
22 the way of certain initiatives to establish that. But  
23 then, it wasn't necessary for the management committee  
24 to make difficult financial judgments. I think the  
25 funding of self-sufficiency was primarily a process

1           between the SNBTS and the Scottish Home and Health  
2           Department. So again, I think they were largely a well  
3           informed post box in this process.

4 MS DUNLOP: In paragraph 15 we asked about reciprocal  
5           reporting between England and Scotland and your sense of  
6           this issue was that there was established cooperation,  
7           particularly between senior operational managers at PFC  
8           and the counterparts at BPL.

9 A. Yes.

10 Q. And I think we suggested to you, just to be strictly  
11          accurate, you would reverse the orders of Smith and  
12          Snape, if you wanted to keep the counterparts the same.  
13          So your counterpart will have been Dr Snape and  
14          Dr Foster's counterpart Dr Smith?

15 A. Yes.

16 Q. Can you just tell us a little bit about Dr Snape?

17 A. Dr Snape at that time -- I believe it's correct.  
18          I think he was the quality assurance manager at BPL. So  
19          I think he was my counterpart. Also at some stage he  
20          was technical director but that encompassed quality  
21          assurance, but in terms of my relationship with him,  
22          I think it was primarily on matters of quality  
23          assurance, standard operating procedures and so.

24 Q. Was he a chemist too?

25 A. I think he was, yes.

1 Q. Then we moved on to ask you about a meeting  
2 in March 1983. I don't particularly want to ask about  
3 that. You weren't there.

4 Can we move on to the next page, please?

5 Dr Foster's memorandum to Mr Watt of 3 May 1983 is  
6 a document at which we have looked on a number of  
7 occasions already. I wonder if you remember from the  
8 time any of the discussion around this memorandum?

9 A. I have no vivid recollection of this, although I do have  
10 a memory of the context in which this discussion was  
11 taking place.

12 Q. Let's put it in front of you. It's [\[SNB0073635\]](#). Will  
13 you have been one of those who received it?

14 A. Yes, I would have been a head of department at that  
15 stage, yes.

16 Q. Yes.

17 A. I suspect -- well, it's possible, although I have no  
18 evidence for this -- that Dr Foster would have discussed  
19 it with me before writing the document.

20 Q. Right.

21 A. But I have no recollection of that. But it's quite  
22 possible.

23 Q. Yes.

24 A. Because it does actually -- you know, there are quality  
25 elements in here about, you know, a strategic approach

1 to a safe supply and I think, as others have said, it's  
2 quite an important document in a sense because Dr Foster  
3 is saying -- which I think we probably all understand  
4 already but just to clarify in my own mind, Dr Foster is  
5 actually saying that until this point in time, our  
6 strategy was directed towards hepatitis, which provided  
7 an opportunity for a phased introduction of product  
8 because unfortunately there were already many patients  
9 that were infected with non-A non-B hepatitis and indeed  
10 Hepatitis B, and therefore that provided an option of  
11 introducing a safer product, or a safe product, for  
12 a smaller group of patients who perhaps hadn't been  
13 exposed to infection.

14 And Dr Foster is simply saying, "But we now have  
15 this thing called 'HIV', and it turns out that HIV is  
16 caused by a virus in the blood supply, then all patients  
17 are susceptible to HIV". And what he is suggesting is  
18 we have to move from a strategy of a phased introduction  
19 to almost a total introduction for all patients.

20 Q. Yes. He is actually making a particular point of  
21 distinction from the current strategy, isn't he?

22 A. Yes.

23 Q. If we look at (i), he is saying that at that particular  
24 point in time, the haemophiliacs most at risk were the  
25 severes. So you had a new infection?

1 A. It was the opposite.

2 Q. Yes.

3 A. It was the opposite for HIV to that which had been  
4 established for the hepatitis risk.

5 Q. Yes. And that's because you are starting at some point  
6 in the early 1980s, you assume, with a population which  
7 is not affected at all; therefore the people who are  
8 using the most of the possibly infectious product, are  
9 most at risk?

10 A. Absolutely.

11 Q. Not a difficult point?

12 A. That's absolutely the case, yes.

13 Q. We have looked in some detail at this memorandum.  
14 I don't think I need to take up a lot of your time with  
15 it, Dr Perry, but Dr Foster goes on to argue a bit about  
16 a policy case. This is at the bottom of the page.  
17 There may be a long incubation period and people may  
18 also start wanting to go back to cryoprecipitate?

19 A. Yes.

20 Q. In which case your raw material at PFC would disappear  
21 very quickly.

22 A. Yes.

23 Q. He has actually already commented higher up that there  
24 is already evidence of a panic recourse to cryo. So he  
25 then, if we turn on to the next page, please, sets out

1 a worked example of what might be possible?

2 A. Yes.

3 Q. We understand that this would be, I gather, a process  
4 that you could start twice each week. So you could  
5 start with your 1,000 kilogramme pool, which we  
6 understand to be equivalent to the 4,000 donations with  
7 which PFC were making a batch at that point?

8 A. Yes.

9 Q. And that that could have been done twice a week. He  
10 says at the bottom that what would be required would be  
11 the purchase of ultra-filtration equipment, some other  
12 minor items, for example a stirrer, and perhaps some  
13 extra staffing. And obviously in vivo recovery in  
14 Factor VIII yield would have to be adequate. So some  
15 further work is going to be required?

16 A. Yes.

17 Q. We have tried to work out what happened after this memo  
18 and I think we are clear that this wasn't put into  
19 effect, the process wasn't all implemented?

20 A. That's correct.

21 Q. If we look at Dr Cash's letter, of 1 June 1983,  
22 [\[SNB0073708\]](#), we can get some information. I apologise  
23 in advance for going back to the question of funding  
24 around about this time. It's quite challenging to work  
25 out exactly what was going on on the financial front.

1 A. Hm-mm.

2 Q. The easy part really is to note that Dr Cash has already  
3 made contacts with a view to clinical trials, but the  
4 harder part is working out exactly what was intended by  
5 way of funding and what was then current, and one of the  
6 things to note here is the summary of the figures at the  
7 bottom.

8 A. Yes.

9 Q. So Dr Cash is saying there are two inextricably linked  
10 items. The first is that there are going to be optimal  
11 additive blood bags, which are going to cost £75,000 as  
12 recurring expenditure. So every year there is going to  
13 be a need to spend £75,000 on optimal additive blood  
14 bags.

15 A. The reason there is a linkage there I think is because  
16 that was a development which increased our ability to  
17 collect more plasma. So that's a plasma supply cost.

18 Q. Right. Then something described as "the pilot stage of  
19 heat treatment of Factor VIII", which is to cost 74,000  
20 non-recurring and 13,000 recurring. So can we look on  
21 to the next page, please?

22 A. Yes.

23 Q. Dr Cash is suggesting perhaps a slight redraft -- sorry,  
24 can we just go back to the page before?

25 In the third paragraph he says he is particularly



1           pleased that you and your colleagues are currently  
2           engaged in a costing exercise designed to expedite the  
3           heat treatment programme. The figures that are going  
4           forward to the Blood Transfusion Service subcommittee of  
5           the Common Services Agency are figures that have been  
6           prepared earlier, as it were?

7   A. Yes.

8   Q. It is not any figures that someone has worked up in  
9           response to Dr Foster's memo?

10   A. No, I think -- it is not a recollection, it's an  
11           interpretation. I think these are figures because they  
12           are really quite modest, the £74,000 non-recurring, for  
13           instance, is from various pieces of equipment that were  
14           necessary, perhaps ultra-filtration equipment. The  
15           £13,000 would have been the cost of the pharmaceutical  
16           grade sugar that was necessary for the process that  
17           would have been formulated. So this was very much the  
18           cost of a pilot scale approach.

19   Q. Yes. One of the things that threw me initially,  
20           Dr Perry, was it did look like quite significant  
21           expenditure for a pilot stage but you think this  
22           genuinely could have been expenditure related purely to  
23           a pilot stage?

24   A. Yes, I think so. I can't give you a breakdown of what  
25           the £74,000 would have included but --

1 Q. I have looked for that. Believe me, I have looked for  
2 that.

3 A. Perhaps Dr Foster can provide more information and  
4 I can't quite remember what the processing option was  
5 that was preferred at that time. But if, for instance,  
6 it was an ultra-filtration process, which was basically  
7 passing the liquid, that is full of sugar at this stage,  
8 to remove the sugar so that the product is formulated in  
9 the right excipients, then that's very expensive  
10 equipment. All pharmaceutical equipment is expensive.

11 Q. Right.

12 A. So that doesn't seem to me to be an unreasonable figure.

13 Q. Sorry, Dr Perry, I'm just going to ask you to repeat  
14 that last word. You said the product is formulated in  
15 the right excipients?

16 A. Yes.

17 Q. Is that just the right specification?

18 A. That's right. It's to turn the in-process material --  
19 this is the material that is full of sugar and other  
20 additives -- and remove that to the extent that the  
21 final Factor VIII product is basically formulated with  
22 the right concentration of sugar, salts and other  
23 additives.

24 Q. Right?

25 A. Which we call "excipients".

1 THE CHAIRMAN: Could we get a spelling.

2 A. It's E-X-C-I-P-I-E-N-T-S.

3 MS DUNLOP: "Excipient", not "excipience"?

4 PROFESSOR JAMES: An "s", a plural, so not a "ce".

5 MS DUNLOP: I'm not going to suggest to you that we start

6 rummaging around even more and find out if it's the

7 funding for a pilot stage because it says it's the

8 funding for a pilot stage. So I think we can be

9 reasonably sure that these figures are already in the

10 pipeline for the meeting on 25 May.

11 A. Yes.

12 Q. And a parallel exercise seems to be going on as

13 a consequence of Dr Foster's memorandum, where someone

14 is working out the cost of what he is suggesting.

15 A. Yes. I think what Dr Foster is doing, which he always

16 did extremely well, was to look forward, beyond the

17 simple process design stage of the development, and say,

18 "What will this look like in production?" It was his

19 nature as a chemical engineer, or a biochemical

20 engineer, to look at the implications of scale-up and

21 how a laboratory activity will be translated. So he is

22 simply flagging. He is looking forward and saying, if

23 the process development is successful, this is his basic

24 outline structure of what it would look like in routine

25 manufacture, and this is what it might cost. But

1 I would be fairly confident, although I can never be  
2 100 per cent after 30 years, that these figures would  
3 have referred to the pilot scale, the ultra-filtration  
4 equipment and so on.

5 Q. Right. Perhaps I can reassure you that I'm going to  
6 look at funding today as a three-part exercise. This is  
7 only part 1. But it's not very long.

8 We know that there was a pot -- we have been calling  
9 it -- a pot of up to £650,000 which had been designated  
10 by SHHD as available to meet works necessary in  
11 consequence of the report of the medicines inspectors.  
12 So we have seen that already. If I can find all my  
13 finance papers, we will see it again in a minute.

14 Can we look at [\[SGH0019769\]](#), please? We can see  
15 this is the Blood Transfusion Service subcommittee  
16 meeting on 25 May.

17 A. Yes.

18 Q. Before we move any further through it, let's look at the  
19 membership. Both Dr Bell and Dr Scott there.

20 A. Yes.

21 Q. We know that Vaughan Ruckley was a vascular surgeon.

22 Sir Simpson Stevenson we have covered already.

23 Mr Duncan, Professor Cash has told us, was a trade union  
24 official?

25 A. He was indeed, yes.

1 Q. Professor Cash couldn't remember who Dr Kirk was?

2 A. I can remember his face but not what his day job was.

3 Q. Was he a medic?

4 A. I don't think he was but I can't be sure.

5 Q. We have Mr Wallace --

6 A. He may have been a haematologist but I can't be sure.

7 Q. Right. I'm not sure that we know who Dr Horn was?

8 A. No.

9 Q. And Mr Walker. Anyway --

10 A. I think Mr Walker was from the Scottish Home and Health  
11 Department.

12 Q. All right. So a number of those with relevant  
13 qualifications, certainly, a number of members with  
14 relevant qualifications to sit on the Blood Transfusion  
15 Service subcommittee. Is that fair?

16 A. There was certainly a number of members -- those from  
17 the Scottish Home and Health Department would certainly  
18 have an interest in the activities of the Blood  
19 Transfusion Service. I wouldn't wish to judge whether  
20 they were qualified to discuss detailed matters of blood  
21 transfusion but let's assume for the moment that they  
22 were, yes.

23 Q. Right. Well, some comments to different effect, which  
24 I can hear on my right.

25 If we look at the page 2 of this document, please,

1 I think we will see the reference to the pot. It's  
2 about the middle of the page.

3 A. Yes.

4 Q. This is for the financial year 1983 to 1984?

5 A. Yes.

6 Q. That there is additional provision of up to £650,000 in  
7 relation to the Medicines Inspectorate recommendations.  
8 Do you see that?

9 A. Yes.

10 Q. Right. We can see if we go to the bottom of that the  
11 subcommittee is deciding that those items marked with an  
12 asterisk in appendix 1 should be submitted to SHHD as  
13 a bid against that pot. We need to look then at page 7  
14 and we can see that marked with asterisk is pilot stage  
15 of heat treatment of Factor VIII.

16 A. Yes.

17 Q. So at least after that meeting on 25 May there seems to  
18 have been an acceptance that this could go forward as  
19 a bid against the £650,000 and that there was enough of  
20 a connection with the Medicines Inspectorate. But this  
21 wasn't the body that had to be persuaded ultimately.  
22 You referred to them earlier, this committee as a bit of  
23 a "post box"?

24 A. Yes, I think they would have -- so long as they had  
25 knowledge that their colleagues in Scottish Home and

1 Health Department were reasonably comfortable with what  
2 was being proposed here and why it was being proposed,  
3 then they would have accepted that as a justification.  
4 After all, the money came from the Scottish Home and  
5 Health Department fairly directly.

6 Going back to your earlier point as to whether these  
7 individuals were qualified to make the judgment, I think  
8 the lay people wouldn't have understood many of these  
9 issues. Processing of SPPS would have been Greek to  
10 them frankly, and they wouldn't have understood the heat  
11 treatment of Factor VIII and what the implications were.  
12 So I don't think there was a detailed analysis of these.  
13 I think they were basically looking at -- it was  
14 a formal process of looking at the bottom line and  
15 saying, "Is that within the allocation?"

16 Q. Right. There is further correspondence over the summer  
17 and we are not going to look at all of it but can we  
18 just look at one letter we have looked at before, which  
19 is [\[SNB0037641\]](#)? This is the letter from Clive Wooller,  
20 general administrator of the CSA, to Mr Murray at SHHD.

21 A. Yes.

22 Q. He is attaching an annex with some specific costed  
23 proposals. He says:

24 "The specific costed proposals are set out in the  
25 annex to this letter."

1 He says:

2 "The proposals have been approved in principle by  
3 the management committee."

4 He is wanting them put forward. But recognising  
5 that the department will wish to give further  
6 consideration to certain of the proposals including  
7 their eligibility for funding from the source requested.  
8 I don't think we actually looked at the annex last week.  
9 So let's look at it now. It's [\[SNB0037643\]](#). I think it  
10 may be on the last page actually. Can we look at  
11 page 3?

12 A. Okay, yes.

13 Q. "PFC ..."

14 Then third last item:

15 "Heat treatment of Factor VIII. Equipment, 74,000  
16 and revenue implications, 13,400."

17 A. That's correct.

18 Q. So we are following the same figures, although the  
19 reference to its being the pilot stage seems to have  
20 been dropped but that may be something to do with  
21 Mr Wooller's shorthand.

22 THE CHAIRMAN: Ms Dunlop, can you remind me who the general  
23 administrator was. What was his position?

24 MS DUNLOP: He is from the Common Services Agency,  
25 Clive Wooller. The process seems to be that the



1 management committee looks at the proposal and says, "It  
2 looks all right to us but --"  
3 THE CHAIRMAN: Through a glass darkly.  
4 MS DUNLOP: Yes. They are not the ones with the purse  
5 strings. So what they are doing is authorising its  
6 transmission to SHHD, as I understand it. Is that  
7 correct?  
8 A. I think so. I think -- that was my -- although  
9 I perhaps have to say that at this point in time  
10 I wasn't the acting director of PFC but I was aware of  
11 these processes that went on. But I think that's right.  
12 I don't think, as I have said, the management committee  
13 or the subcommittee would have looked in detail at the  
14 pilot scale process and what the strategy was and so on.  
15 It would have been very much looking at the numbers.  
16 Q. Then we have the reply to Mr Wooller, which is  
17 [\[SNB0111251\]](#). This is actually 20 September 1983. We  
18 can see that people are still talking about the  
19 financial year, 1983 to 1984. We can see that from the  
20 heading. And then in the third paragraph, the same  
21 figures. It's the £74,000 for equipment and the £13,400  
22 for recurring revenue implications. But -- and it is  
23 a "but" -- the department is not accepting that this  
24 expenditure does arise from the recommendations of the  
25 Medicines Inspectorate.

1           So the response from SHHD is no, it is not going to  
2           go against the pot of £650,000 but the department is  
3           prepared to consider the matter further.

4   A.   Yes.

5   Q.   So there is to be a resubmission:

6           "You may wish to reconsider the position and  
7           resubmit details of estimated expenditure requirements  
8           in 1983 to 1984 and subsequent years."

9   A.   Yes.

10   Q.   Right. We have seen these before, Dr Perry, but I don't  
11        think you have seen them recently.

12   A.   No, I haven't. I may not have seen them at all but --

13   Q.   Possibly no, although you come into the story after the  
14        turn of the year because it's obviously you taking up  
15        responsibility for advancing the next costing?

16   A.   Absolutely.

17   Q.   Just to set it in context, we are going to look at  
18        [\[SGH0019496\]](#). This is back to the Blood Transfusion  
19        Service subcommittee but in November, 23 November 1983,  
20        and it's the same point, there is a kind of statement of  
21        position about what SHHD are willing to do, that there  
22        is money expressly for the purposes of meeting the cost  
23        of developments arising from the recommendations of the  
24        Medicines Inspectorate. That's in paragraph 1.

25   A.   Yes.

1 Q. Then there is reference to money being made available if  
2 specific and costed proposals are received. Then if we  
3 look at the next page, 9497, we can see that note at the  
4 bottom about heat treatment of Factor VIII?

5 A. Yes.

6 Q. So really the same point being made, that there is to be  
7 a new proposal and details of estimated expenditure  
8 requirements.

9 A. Yes.

10 THE CHAIRMAN: That's quite favourable at that stage. The  
11 650,000 is not to be used for heat treatment, but they  
12 can be the subject of a second application and grant.

13 A. That's my reading of these documents, yes, absolutely.  
14 And as you can see, the subcommittee really seeking  
15 advice from the Scottish Home and Health Department to  
16 provide, you know, basically the informed basis as to  
17 whether the SNBTS proposals are reasonable because they  
18 didn't have the basis to make that evaluative judgment  
19 themselves.

20 MS DUNLOP: Yes. Can we go back to your statement then,  
21 please, Dr Perry. Your statement is [\[PEN0121759\]](#) and we  
22 are now at page 1769.

23 We had asked you, Dr Perry, about the slightly  
24 delphic passage in Dr Cash's letter about what was  
25 actually going on from the point of view of

1 presentation, and I think, with respect, your answer,  
2 having looked at that chain of letters and memoranda, is  
3 slightly off the point.

4 We asked you for your best guess as to what you  
5 thought Dr Cash was saying and I think you are  
6 suggesting that Dr Scott had taken the view that the  
7 development of the heat treatment programme was  
8 a response to views expressed by the medicines  
9 inspectors but in fact, in the light of the  
10 correspondence, it looks as though it was the other way  
11 around. Dr Scott was saying, "No, this is not  
12 a Medicines Inspectorate related piece of funding but  
13 try again, present it in its own right".

14 A. I think perhaps my speculation is wrong on this  
15 occasion.

16 Q. Please, Dr Perry, don't think we are at all critical of  
17 that because we all find it a difficult letter to  
18 understand.

19 A. I think my reason for making this supposition is that  
20 I was aware, although I couldn't place it in time, that  
21 there was a concern, I think, within the Scottish Home  
22 and Health Department, and indeed perhaps in the  
23 wider -- in the CSA as well, that simply because  
24 a medicines inspector visits part of the  
25 Scottish Health Service, as it was then, and makes some

1           recommendations, that is not necessarily the basis for  
2           providing funding. There is a due process to go  
3           through. But I think I may have conflated two positions  
4           and come up with the wrong interpretation of those  
5           letters.

6   Q. In sense I suppose it's a little bit like the BPL  
7           meeting in 1982, that there are possible different  
8           conflicts that, on the one hand you are making the point  
9           that just because it seems to be connected to  
10          a Medicines Inspectorate recommendation doesn't mean it  
11          will be funded.

12   A. That's correct, yes.

13   Q. Another point can be made, though, which is: even if  
14          it's clearly not connected to the  
15          Medicines Inspectorate, that doesn't mean it won't be  
16          funded?

17   A. Absolutely.

18   Q. It's a little bit complicated. You go on to say that  
19          you think Dr Cash was signalling the need for an  
20          alternative strategy, including a presentation or  
21          restructuring, in order to circumvent any CSA/SHHD  
22          constraints and secure the necessary funding.

23   A. Yes.

24   Q. You go on to say:

25                 "Such an approach would not have been

1           unprecedented."

2           And I think we understand from this that, as in most  
3           parts of human experience, it can depend on the way you  
4           present something whether it's going to succeed or not.  
5           Is that really what you are saying?

6   A.   I think that's exactly what I'm saying, yes.  If you can  
7           tell the story in a different way, it might stand  
8           a better chance of meeting the -- or being approved by  
9           the pay master, as it were.

10   Q.   Yes.  You say that:

11           "Notwithstanding the above funding issues, the  
12           development programme continued to progress at pilot  
13           scale within existing resources."

14   A.   Yes, that's my recollection, absolutely.

15   Q.   Because actually we have left a bit of a loose end.  If  
16           there was the requirement for the 74,000 for equipment  
17           and the 13,400, the snapshot we are taking is of a point  
18           where that has not been authorised?

19   A.   Yes, that's right.

20   Q.   But you say you think that that didn't hinder research.  
21           That people carried on with the research within existing  
22           resources.

23   A.   I think the research was still going on.  The process  
24           was still being developed, it was still in the process  
25           of scale-up.  So my recollection is that the

1           availability of specific sums of money actually wasn't  
2           on the critical path at that point in time and Dr Foster  
3           and his colleagues continued with the development  
4           programme.

5   Q.   Right.

6   THE CHAIRMAN:  Dr Perry, it's easy to speculate but all  
7           sorts of different people at different levels of the  
8           organisational structure, if I can misuse that  
9           expression for the moment, would have different motives  
10          at this time.  I suppose the Medicines Inspectorate's  
11          report indicated a failure prior to that date to keep up  
12          with necessary developments in various facets.

13  A.   Yes.

14  THE CHAIRMAN:  There are those who would see that as  
15          a criticism.

16  A.   Yes.

17  THE CHAIRMAN:  Dr Cash may have seen the allocation of money  
18          as an opportunity to capture some of it for a favourite  
19          project that even he might have recognised wasn't  
20          necessarily within the scope, but it was available funds  
21          so he might have wanted it.  Perhaps we just can't ever  
22          extricate the various --

23  A.   You are absolutely right.  It is the nature of human  
24          endeavour that if you passionately believe in  
25          a particular requirement or a development in the

1 service, then you can present this in different ways to  
2 secure funding. I don't take that as a criticism of  
3 myself or anybody else; it's the nature of business and  
4 management, I think.

5 MS DUNLOP: Indeed.

6 THE CHAIRMAN: It just makes it difficult for us in  
7 retrospect to try to work out exactly what was going on.

8 A. I think what Professor Cash's view, and certainly mine  
9 and certainly Mr Watt's, was that we had two major  
10 themes that we were developing, which was the heat  
11 treatment programme, which was very much top of the  
12 agenda but also the response to the medicines  
13 inspectors' criticisms of 1979 and 1980.

14 MS DUNLOP: Sir, that's the end of part 1 of the renewed  
15 examination of the question of funding. So it might be  
16 a good point to break.

17 THE CHAIRMAN: It's perfect.

18 MS DUNLOP: Yes.

19 (11.04 am)

20 (Short break)

21 (11.25 am)

22 THE CHAIRMAN: Yes, Ms Dunlop?

23 MS DUNLOP: Thank you, sir.

24 Dr Perry, can we go back to your statement, please?

25 That's [\[PEN0121759\]](#) at page 1769. Just looking at that



1 paragraph beginning "In any event", you are talking  
2 about the rate determining factor in moving the  
3 programme forward being the organisation and conduct of  
4 suitable initial clinical trials.

5 Dr Foster has explained to us -- and this is moving  
6 into the next question as well -- that he met  
7 Professor Johnson in Stockholm in June 1983 and there  
8 was the enticing prospect of a much better process step,  
9 which Professor Johnson had discovered and was going to  
10 share with PFC.

11 A. That's correct, yes.

12 Q. And if it had worked, it would have reduced greatly the  
13 volume of material to be pasteurised, which would be  
14 a very efficient innovation?

15 A. Yes.

16 Q. You are talking about the rate determining factor being  
17 clinical trials but it seems from Dr Foster's evidence  
18 at least as though something that was also slowing the  
19 project at that point was waiting for information from  
20 Professor Johnson?

21 A. I'm not sure that Professor Johnson's involvement  
22 actually slowed it down. I think by the second half  
23 of -- we already had a process, a draft outline process  
24 which had been established. I think the Johnson  
25 variation on this, if you want to put it that way, held

1 the prospect of further improving the process but  
2 I think already the process had been established to  
3 a certain extent, to the point at which we needed,  
4 before we moved on any further, to do clinical  
5 evaluations in patients. That's why I place clinical  
6 trials as being on the rate-determining step. Not that  
7 we were at the end of the process but we needed to  
8 establish -- this is my best recollections -- the proof  
9 of principle that subjecting the Factor VIII product to  
10 pasteurisation in our stabilisation system didn't lead  
11 to any unforeseen adverse events in patients, and that  
12 experiment needed to be done.

13 Q. Right. Can we look on to the next page, please? We  
14 asked you, both in this question and the following  
15 question, about Mr Watt's resignation.

16 A. Yes.

17 Q. You say:

18 "It is not possible to meaningfully judge the  
19 general impact of his departure."

20 We can't quarrel with that, Dr Perry. I suppose,  
21 though, it must have taken up quite a bit of management  
22 time, certainly Professor Cash's time?

23 A. What, following Mr Watt's resignation in July, I think  
24 it was?

25 Q. Yes.

1 A. I wouldn't be convinced of that, actually. I think  
2 there was a -- I think Mr Watt had perhaps signalled  
3 before that he at some stage was going to move on. He  
4 had other interests outside PFC. He had his own  
5 consultancy and he used to do -- although his main job  
6 was PFC director and that was certainly full-time. He  
7 worked tirelessly. He worked through the night most  
8 nights. Extraordinary man in that respect. But he also  
9 had other interests as well, personal consultancy  
10 projects in different parts of the world. So when he  
11 announced his retirement in July, I wouldn't actually  
12 necessarily as far as -- from my perspective, I didn't  
13 see vast amounts of management time or energy being  
14 consumed on the consequences of Mr Watt's departure.

15 I think he was surrounded by a reasonably competent  
16 team, including Dr Foster, dare I say myself, and others  
17 and I think, you know, business as usual was the way  
18 forward. A process was put in place by the CSA to  
19 actually find a replacement for Mr Watt and life went on  
20 pretty much as usual, I think. That's from my personal  
21 perspective. Others may see it differently.

22 Q. Well, indeed. And Professor Cash certainly described  
23 being extremely surprised but you personally weren't as  
24 surprised, perhaps?

25 A. I was surprised. I had worked with Mr Watt for about

1 two and a half years by that stage and I enjoyed the  
2 relationship with him. He was extremely helpful in  
3 terms of explaining the issues. He was fairly  
4 idiosyncratic. He had a good sense of humour. He was  
5 very inclusive in his approach, certainly with PFC  
6 staff. So I'm not sure I was surprised more than  
7 slightly disappointed actually that early on in my  
8 career in the SNBTS the man that was my boss and whom  
9 I had grown fairly fond of and respectful of was  
10 actually going to leave.

11 Q. You describe him working through the night?

12 A. Yes, yes, yes. I don't want to sort of turn him into  
13 some sort of cult figure but he certainly did. He used  
14 to go home in the evening and he would sit and draft  
15 vast quantities of letters to all sorts of people and  
16 then he would arrive back in the morning with a big  
17 sheaf of letters that were to be typed up and so on.  
18 I think, like us all, he might have exaggerated his  
19 nocturnal activities to an extent but he was certainly  
20 very energetic.

21 Q. In terms of the impact his departure had on PFC, do you  
22 remember that eventually there were a couple of staff  
23 who left and went to work with Mr Watt?

24 A. Yes, there were. I can remember two, yes.

25 Q. How would you describe the impact of those individuals

1 leaving?

2 A. One of them was quite an important individual, a middle  
3 manager who had extensive experience, and we were quite  
4 disappointed and we had to work round that, which was my  
5 task to do this because this individual left subsequent  
6 to Mr Watt's departure. So this is when I was in charge  
7 but I don't think there were any, what you might  
8 describe as absolutely key individuals, that left taking  
9 with them intellectual capability or intellectual  
10 property. I think the programme that had been  
11 established prior to Mr Watt's departure carried on,  
12 ably led by Dr Foster.

13 Q. Then you give us a little more detail under that  
14 heading. Paragraph 22. I don't want to ask you  
15 questions about the interpersonal relationship but  
16 Professor Cash did mention to us some information about  
17 the process of recruiting a successor to Mr Watt?

18 A. Yes.

19 Q. To some extent you have dealt with this already,  
20 Dr Perry, but we know from contemporaneous  
21 correspondence that Professor Cash was trying to  
22 establish a formal reporting relationship between  
23 whoever succeeded Mr Watt and himself. So he would  
24 clearly be, I suppose, the line manager from Mr Watt's  
25 successor. That didn't happen because formally the

1 reporting structure continued to be that you reported to  
2 the committee of management of the CSA.

3 A. That's correct.

4 Q. But you have explained to us that de facto, perhaps the  
5 relationship between yourself and Dr Cash was slightly  
6 different and I think earlier you used the word "defer",  
7 so there were issues on which you would defer to him?

8 A. Absolutely, yes.

9 Q. Yes. One point that Professor Cash made was that,  
10 I think it was SHHD had taken the view that if a formal  
11 reporting structure had been introduced so that the  
12 successor reported to Dr Cash, that would have, in  
13 essence, downgraded the position of director of PFC. Do  
14 you see that line of thought?

15 A. Yes, I read that and I was quite -- I have to say it  
16 was -- I think it's the first I have heard of that. Not  
17 that that's particularly materially relevant, but  
18 I certainly was aware, after my appointment, that  
19 Professor Cash had expressed the view to either the CSA  
20 and/or Scottish Home and Health Department that he would  
21 have liked the PFC director to report directly to him,  
22 but I wasn't aware of that at the time, during the  
23 recruitment process.

24 Q. Right. You took a bit of persuasion to apply for the  
25 job, did you?

1 A. That's not my recollection.

2 Q. Oh, right.

3 A. I think I was aware like everybody else, that Mr Watt  
4 had resigned in July. I had been in post for about two  
5 and a half years, thoroughly enjoyed it. Found it an  
6 extraordinarily exciting, varied, intellectually  
7 stimulating environment, but I was by no standards an  
8 expert in fractionation. So I expressed some  
9 reservations about applying for the job but a number of  
10 people kindly suggested that I might have some of the  
11 qualities necessary for being the PFC director and they  
12 encouraged me to apply, which I then did.

13 I remember having one conversation with  
14 Professor Cash saying, "I have no formal qualifications  
15 or knowledge of complex biochemistry and that might be  
16 a disadvantage for somebody that's basically running  
17 a biochemistry-based pharmaceutical plant", but he was  
18 quite clear that that was not an essential requirement  
19 and I moved forward my application.

20 Q. Were the two of you having lunch at the time?

21 A. Probably, not in Corstorphine.

22 Q. No. I was going to ask that.

23 A. I subsequently, and the record shows, applied for the  
24 job. Mr Watt retired. His resignation was brought  
25 forward or he left fairly precipitously at the end

1 of December. The plan was -- I think it was March  
2 or April. And they were left with a hole and they asked  
3 me to act up as director, and having already applied for  
4 the job, it would have been a little illogical or  
5 inconsistent to say, "No, I will not act up". So that's  
6 how I came to be the acting director.

7 Q. I see, so you had applied --

8 A. I had applied for the job, absolutely.

9 Q. I think we know, Dr Perry, that Mr Watt was asked to go  
10 at the end of 1983. That's our understanding.

11 A. Yes.

12 Q. So you are not in a position to contradict that. Is  
13 that right?

14 A. Absolutely not, no.

15 Q. Right.

16 THE CHAIRMAN: Dr Perry, who asked you to become acting  
17 director?

18 A. I think my recollection is that John Cash asked me  
19 informally, and then I was subsequently written to by  
20 Mr Mutch, the secretary of the Agency, to act up and  
21 I gladly accepted the opportunity, I think. There was  
22 certainly no equivocation. As I say, I had already  
23 applied for the job. I was interested. By that stage  
24 I had become quite passionate about getting the job. It  
25 wasn't a trivial application, it was a real --



1 THE CHAIRMAN: So that was consistent with what you told us  
2 earlier, that the CSA took an active interest in  
3 appointment and promotion --

4 A. That was a pure piece of administration and there was  
5 a due process that they went through and they would do  
6 that stuff --

7 THE CHAIRMAN: You see, as a lawyer, I would rather have  
8 thought that the ability to appoint carried certain  
9 implications as to authority more widely, but you think  
10 it's just a little bit of administration?

11 A. Yes, I had no relationship with Mr Mutch. I knew him, he  
12 was a perfectly pleasant man but in terms of him being  
13 the head of the CSA and actually on the committee of  
14 management, he certainly wasn't somebody that you would  
15 go to for advice or guidance on any issue, frankly.

16 THE CHAIRMAN: Just as Simpson Stevenson, you wouldn't  
17 expect to get much from him?

18 A. No, one always got the impression that the occasions on  
19 which you would interface with the  
20 Common Services Agency would be on areas of staff  
21 recruitment because we were constrained in our ability  
22 to -- this was a major issue for me at the PFC in terms  
23 of the relationship with the CSA, that they often  
24 appeared as a slightly interventionist bureaucracy when  
25 you least needed them to be but when you really needed

1           some support and guidance, they had neither the  
2           competence nor the experience to provide that.

3           So if, for instance, we were looking to recruit  
4           a member of staff with a particular set of skills, if  
5           those skills didn't match the job specification for  
6           a particular grade in the health service, then we were  
7           unable to appoint them. Because they didn't meet the  
8           entry qualifications. So there was a great deal of time  
9           and conflict with the CSA in resolving these recruitment  
10          issues. But I digress. I apologise.

11 MS DUNLOP: That's quite all right.

12           But the CSA, as one might deduce from its name, was  
13          responsible for the provision of a number of different  
14          services to the NHS.

15 A. Absolutely.

16 Q. For example, the Central Legal Office?

17 A. Yes.

18 Q. So it had quite a big basket of different  
19          responsibilities?

20 A. Very divergent responsibilities, yes.

21 Q. Yes, and no doubt those who sat on the management  
22          committee wouldn't have claimed to be knowledgeable  
23          about the particular subject matter of some of those  
24          services?

25 A. Absolutely not.

1 Q. Yes. It took until 1985 before your appointment was  
2 confirmed. Did it feel like a long time?

3 A. Yes, it did actually. It was about a year, I think,  
4 after I acted up. I think there was one interview --  
5 and I can't remember the exact time line for this --  
6 where they deferred a decision and I continued to act up  
7 and then there was a subsequent interview where I was  
8 the successful candidate. So it was about a year.  
9 I think it was in April -- at the beginning of 1986 that  
10 my appointment was confirmed.

11 PROFESSOR JAMES: 1985.

12 A. No, 1985 -- I acted up from January 1985 for a year and  
13 I think it was around about the turn of the year or  
14 early in 1986, or maybe late 1985, that I was  
15 substantively appointed.

16 MS DUNLOP: January 1984 you began to act up.

17 A. Yes.

18 Q. And you acted up for about a year, I think?

19 PROFESSOR JAMES: So it would be 1985.

20 MS DUNLOP: It would be 1985.

21 A. Yes, I'm sorry. Yes, you are absolutely right, sorry.

22 Q. Right. Let's move on.

23 We asked you about events at the end of 1983 and the  
24 beginning of 1984, particularly disclosure of  
25 information from Dr Smith about dry heat experiments,

1           and we have learned also that at the end of 1983, PFC  
2           did some dry heat experiments?

3   A.   Yes.

4   Q.   But I'm planning to ask Dr Cuthbertson about those and  
5           I take it that's appropriate, is it, rather than you?

6   A.   Oh, yes.  And he is looking forward to it.

7   Q.   Well, that's good.

8           You did suggest something at the end of your answer  
9           on paragraph 25, which is interesting, Dr Perry.  Can we  
10          look at page 1771, please?  Maybe I have inferred from  
11          this more than you intended, Dr Perry, but that sentence  
12          at the end, where you say:

13          "In the event that the PFC process was unsuccessful,  
14          it could revert to the BPL dry heat method and vice  
15          versa."

16  A.   Yes.

17  Q.   We understood from Dr Foster that there was a kind of  
18          informal cooperation about conferences?

19  A.   Yes.

20  Q.   One of them was at a conference and the other one  
21          couldn't be there, there was reporting.

22  A.   That's correct.

23  Q.   And that, no doubt, was a very efficient use of time and  
24          expense.

25  A.   Yes.

1 Q. What seemed to me to be hinted at here was almost the  
2 same sort of thing but with the science: that it was no  
3 bad thing that BPL were working on dry heat treatment  
4 and PFC were working on pasteurisation, because there  
5 would be a sharing of knowledge?

6 A. Yes.

7 Q. Is that what you were meaning?

8 A. I think that is what I was meaning. I don't want to  
9 overemphasise the point and I don't think it was  
10 designed to be like that. So it might be a little bit  
11 of a post hoc rationale in a sense but it did provide,  
12 I think -- genuinely at the time we felt there was some  
13 merit in pursuing basically the two options that  
14 existed, either pasteurisation or dry heat, and we would  
15 have the benefit of being able to back the one that  
16 seemed most promising.

17 But, as I say, that wasn't specifically and  
18 proactively designed into the collaboration. I think it  
19 just emerged like that. But having established it,  
20 I think -- I certainly genuinely felt it was quite  
21 useful and important because we were dealing with quite  
22 complex issues associated with the pasteurisation  
23 process; it wasn't straightforward. There was never  
24 a guaranteed outcome from that, particularly after  
25 clinical studies.

1           So the idea that there was somebody else  
2           independently pursuing an alternative option just seemed  
3           to me to be a good idea. This was after I had taken  
4           over as director.

5   Q. Yes. Of course. It would work best if each side told  
6           the other what it was doing and what its results had  
7           been.

8   A. Yes, which is pretty much what happened, I think. That  
9           was certainly my recollection, although, as has been  
10          amply established, there was no formal process for doing  
11          this but the Foster/Smith collaboration was highly  
12          productive. There were, you know, absolutely no  
13          personality issues. They were both dedicated, very able  
14          expert scientists in the field and I guess we were  
15          blessed in the fact that they actually also functioned  
16          very efficiently and effectively as a pair of  
17          scientists, albeit with different masters.

18 THE CHAIRMAN: Dr Perry, I would like to follow it just  
19          a little.

20                I think I can understand that, at a practical level,  
21                as among scientists, particularly scientists who were  
22                getting on fairly well in exchanging information  
23                informally, it would be recognised that there was the  
24                prospect of an advantageous outcome if you have two  
25                contemporaneous but different lines of research going

1 on. However, the ability of one to exploit the results  
2 of the other might be a different matter. And, for  
3 example, if one were to assert intellectual property  
4 rights against the other, that could frustrate the whole  
5 arrangement.

6 A. Absolutely.

7 THE CHAIRMAN: In the first place was there any arrangement  
8 that you knew of as between the English and the Scottish  
9 scientist that would have given either of them a right  
10 of access to the results of the other's research?

11 A. I'm certainly aware that, certainly from the perspective  
12 of the PFC -- and this was the policy of my predecessor  
13 as well -- any development, any invention, any patent or  
14 any intellectual property that we established would be  
15 made freely available to the rest of the service.

16 I think to an extent, although I can't judge to what  
17 extent that took place at BPL, my understanding was that  
18 was a fairly reciprocal arrangement. I think that was  
19 also underpinned -- and I remember discussions, although  
20 I can't place this in time -- that legally the whole  
21 position of one part of the Crown preventing access by  
22 another part of the Crown to intellectual property  
23 through patent was just simply a non-starter. So one  
24 part of the health service could not -- this is my  
25 understanding. I'm not actually suggesting this is an

1 absolute fact. Therefore, I guess to an extent we  
2 assumed that any intellectual property development that  
3 one part of the National Health Service in the UK  
4 developed would be freely available to the other.

5 That was certainly our intention, and from a PFC  
6 perspective that's how we did it. On the other hand if  
7 one part of the Health Service, ie BPL, licensed in  
8 a process from a commercial organisation, which BPL  
9 certainly did, that was clearly not available to us.

10 THE CHAIRMAN: Yes. Perhaps some time we will extricate the  
11 various legal complexities around this, perhaps not.

12 MS DUNLOP: We have seen, Dr Perry, as an example of  
13 a situation in which there couldn't be full and free  
14 disclosure, collaboration with Professor Johnson --

15 A. Yes.

16 Q. -- over the period summer 1983 to summer 1984?

17 A. Yes.

18 Q. When Professor Johnson was working on a process which he  
19 was hoping to patent, and obviously there had to be  
20 a degree of confidentiality about that?

21 A. That's absolutely right, yes.

22 Q. That's, I think, consistent with the explanation you  
23 have just given?

24 A. I think so, yes, although, I would just add a footnote  
25 to that, that we would have done everything we could to



1 have made sure that BPL was included in -- was able to  
2 access any technology that came out of it. That may or  
3 may not have been successful but it would have certainly  
4 been part of our starting point, to try and negotiate,  
5 in any formal contract that we had with New York  
6 University and Professor Johnson, to make sure that  
7 other parts of the NHS were able to benefit from any  
8 outcomes and that, I think, to an extent, probably  
9 caused a problem for NYU to some extent because making  
10 something freely available for a small country like  
11 Scotland is one thing but making it available freely to  
12 a much bigger population of the UK was a significantly  
13 greater commercial issue for them.

14 Q. Right. We are at paragraph 26 and I don't think I need  
15 to ask you anything specific about this. You made the  
16 point and I think we have covered this already with  
17 other witnesses, but after the meeting, the November  
18 meeting, at which Dr Ludlam gave a verbal description of  
19 the reactions his patients had experienced, he did  
20 administer unheated material, as you say, as a placebo  
21 control to confirm that the adverse reaction that the  
22 patient had had was, I suppose, a physiological  
23 reaction, rather than being in some sense psychological  
24 or explained in another way?

25 A. Yes, that's what he was trying to demonstrate, yes.

1 Q. Yes. Then you go on to point out -- and others have  
2 made this point too -- that just because something can  
3 be described as a "minor reaction" doesn't make it  
4 acceptable?

5 A. Yes, I had at that time, and certainly today, absolutely  
6 no problem with the notion of a reaction being described  
7 as "minor" at one stage in its evaluation and then  
8 becoming more significant. I think there was a --  
9 I think frankly Dr Ludlam's report on our pilot batch of  
10 product, that had been infused in this patient, he was  
11 simply signalling that there is something unusual  
12 happening in response to this particular product, and as  
13 a manufacturer that was very, very important  
14 information. So even a minor reaction, if it was  
15 reproducible, once you have got to the process of  
16 introducing the product into routine use, that would  
17 have been unacceptable.

18 Q. Yes. Paragraph 27, we had asked about whether there was  
19 any possibility of changing tack. That is moving from  
20 pasteurisation to dry heat treatment around the start of  
21 1984, and you answered that and I think in your letter  
22 we also confirmed with you that that reference to 1986  
23 should be 1984?

24 A. Yes.

25 Q. So if we can just note that in passing.

1 A. Yes.

2 Q. It's time to go back to finance. Paragraph 28 on the  
3 next page. You are dealing with costings and timescales  
4 for SNBTS introduction of heat-treated Factor VIII. You  
5 say that when you became acting director  
6 in January 1984, you were responsible for taking the  
7 matter forward?

8 A. Yes.

9 Q. That is obtaining funding for the heat treatment  
10 programme.

11 A. Yes.

12 Q. And we know that you prepared proposals and cost  
13 estimates. Can we look first, please at [\[SNB0074276\]](#)?

14 So we can see that by 9 February you have prepared  
15 a paper giving costings for the heat treatment  
16 programme. Is that right?

17 A. Yes.

18 Q. Yes. And you are saying that the estimated capital cost  
19 is slightly higher than that originally proposed,  
20 £75,000. Do you think your reference to "slightly  
21 higher" is a reference back to the £74,000 for the pilot  
22 stage?

23 A. Yes, it is.

24 Q. Right.

25 A. Yes.

1 Q. Then you say:

2 "The revenue costs are associated mainly with

3 substantial quantities of pharmaceutical grade

4 sorbitol."

5 A. Yes.

6 Q. The costing that goes with this is [\[SGH0020068\]](#). That's

7 the front sheet. If we look at page 2, we can see you

8 have given a bit of explanation.

9 A. Yes.

10 Q. The state of play is that two small lots of heat-treated

11 Factor VIII were issued for clinical evaluation during

12 1983, and there is going to be more material available

13 for clinical trials. You then set out a timetable.

14 A. Yes.

15 Q. According to this timetable, by April 1985 or

16 in April 1985 all Factor VIII produced by the new method

17 will be available for clinical use.

18 A. Hm-mm.

19 Q. But you have built in, as you say, an assumption that

20 the clinical evaluation is satisfactory.

21 A. Yes, yes.

22 Q. And also that certain building modifications can take

23 place.

24 A. Yes.

25 Q. Then there is a description for the readers of process

1 methods. Did you write this or did Dr Foster write bits  
2 of it?

3 A. No, I think I wrote it.

4 Q. Right. Who are you writing it for? Are you writing it  
5 for lay people or are you writing it for medics or  
6 chemists or ...?

7 A. I'm writing it as a substantive proposal to the CSA for  
8 funding, in the knowledge that it will be passed from  
9 the CSA to people that would probably understand its  
10 content in Scottish Home and Health Department.

11 Q. And --

12 A. But also perhaps for colleagues within the SNBTS as  
13 well, because there was an SNBTS process for looking at  
14 bids for funding and so on. So there would be a peer  
15 review-type process within SNBTS. So it would have been  
16 written for a fairly broad audience.

17 Q. Right. Can we look at the next page, please?  
18 "Prevention of recontamination". I think that links  
19 back to the point you made earlier about pasteurisation  
20 being more implicated because unlike albumin, you can't  
21 pasteurise in the final container?

22 A. That's correct, absolutely.

23 Q. Yes. Then you say:  
24 "A particularly difficult feature is the need to  
25 recover Factor VIII which has been diluted in large

1 volumes of concentrated sugar."

2 A. Yes.

3 Q. So you have this very sugary solution and the sugar  
4 serves its purpose but then it has to come back out  
5 again.

6 A. Then you have to get it out and you have to remove it in  
7 such a way that doesn't damage the Factor VIII molecule.

8 Q. Yes. Can we just scroll down through that then, please?  
9 Then we come to the figures. Can we go on to the,  
10 following page, please? This is not, as I understand  
11 it, the pilot stage. This is the full thing?

12 A. Yes, that's my understanding, yes, absolutely.

13 Q. Yes.

14 A. Yes, certainly. If we are describing building  
15 modifications and air handling systems and so on, that  
16 would certainly be -- one wouldn't introduce those  
17 before you had a definitive, finalised process.

18 Q. Yes. Certainly we can see that the annual cost, the  
19 revenue costs, at 27,000, are significantly more than  
20 the 13,400 that we saw earlier, in the reference to the  
21 pilot --

22 A. Yes, but this would have been at full-scale, this would  
23 have been for all plasma, whereas the pilot scale, only  
24 a proportion of the Factor VIII would have gone through  
25 this process.

1 Q. After this there is a bit of correspondence in which  
2 that figure is itself tweaked a bit because there is an  
3 additional amount coming in.

4 A. I was just going to make the point that in terms of  
5 pharmaceutical development, the timescales for these  
6 things were very, very short. And getting accurate  
7 estimates for a process which hadn't been worked up, it  
8 was necessary to make often estimates of what the costs  
9 would be, knowing that the process for obtaining funding  
10 through the NHS processes and procedures was always  
11 about 18 months ahead. So it was necessary, often, to  
12 make judgments and estimates and sometimes guesstimates  
13 of some of these costs, so that when you were ready, in  
14 a fast moving environment, which it was in the mid-1980s  
15 in terms of these types of processes, one had to be  
16 slightly ahead of the game in terms of bidding for  
17 money. And often that meant making bids for finance  
18 which hadn't properly been worked up and evaluated  
19 because you simply didn't know what the final process  
20 looked like.

21 Q. Yes. I think we don't find it difficult to imagine,  
22 Dr Perry, that it was certainly not a case of saying,  
23 "Good, we have fine-tuned our process, now, let's apply  
24 for some money". It couldn't have been like that?

25 A. No, it couldn't have been.

1 Q. No?

2 A. No.

3 Q. Can we look on to the next page, please? That's the  
4 diagram I mentioned earlier.

5 A. Yes.

6 Q. Would that have been prepared by Dr Foster?

7 A. It certainly wouldn't have been prepared by me. So  
8 I think it would have been -- either Dr Foster or there  
9 were other people in PFC that might have -- one person  
10 who sadly died, a guy called Sam Keddie may have done  
11 that but it would have been done in close consultation  
12 with Dr Foster.

13 Q. Yes. When we looked at the columns earlier, from the  
14 flowchart, and we spoke about the deviation or the  
15 digression from the vertical flow, this is what it would  
16 have consisted of?

17 A. Absolutely, yes, this is the excursion that the product  
18 goes on for the pasteurisation process. So you start  
19 with the Factor VIII solution and then you have to go  
20 through a pasteurisation system. It has to be diluted  
21 and so on. You can see all the various steps where it  
22 is capable of losing Factor VIII yield. So yes, I'm  
23 stating the obvious, but pasteurisation actually is  
24 a summary of a fairly complex process.

25 Q. Yes. In fact, Dr Foster told us that the key feature of



1 any pasteurisation process is heating in solution?

2 A. Yes.

3 Q. Yes. So in fact you can call this the "pasteurisation  
4 process" but it looks as though the heating part is on  
5 the top left and much of the rest is concerned with --

6 A. Recovering the product after the process, yes.

7 Q. Yes.

8 A. I think the reason both Dr Foster and myself would want  
9 to emphasise this point is just to give those that  
10 aren't familiar with working in these environments  
11 that -- to an uninformed audience, you know, you can ask  
12 the question: why didn't we pasteurise sooner? It was  
13 a simple enough process and I guess the act of  
14 pasteurisation, ie heating a solution at 60 degrees for  
15 ten hours, isn't that technically demanding. But the  
16 chemistry involved in preparing the material so that  
17 it's stable under those conditions and removing these  
18 additives afterwards is where the complexity exists.

19 Q. Yes. Right.

20 Can we go back then, please, to Dr Perry's  
21 statement, [\[PEN0121759\]](#) and we are now on 1773.

22 So we know that you have prepared this cost  
23 estimate, complete with diagram, and you submitted it to  
24 the CSA and we can just look briefly at the minutes of  
25 the meeting on 22 February 1984. That's [\[SGH0019972\]](#).

1           We recognise these names now, Dr Perry?

2    A.   Yes.

3    Q.   So if we just move to page 3, and again we have seen

4           this before but what seems to be numbered

5           paragraph 2001, we see the approval of your cost

6           estimates?

7    A.   Yes, that's correct.

8    Q.   Although by this point it's going forward in

9           Professor Cash's name?

10   A.   Yes.

11   Q.   Yes. Right. Can we go back to the statement, please,

12           and on to 1774? I think you have made this point

13           already, Dr Perry, that the timescale was actually quite

14           ambitious?

15   A.   Yes, I think it was.

16   Q.   There wasn't much slack in it. There wasn't any slack

17           in it perhaps?

18   A.   No. Some of my colleagues would probably nowadays

19           describe it as "ridiculously ambitious" but we lived in

20           a world where we were fairly confident, we had an

21           optimism that these problems could be solved. But

22           I think it was clearly overly ambitious, although

23           possible.

24   Q.   Yes. With a following wind?

25   A.   With a following wind.

1 Q. And you say by today's standards it's difficult to  
2 envisage how the proposed timescale could have been  
3 shortened. Do you think that a project like this today  
4 would take a lot longer?

5 A. Yes, it would take significantly longer. The  
6 requirements for validating the process, for doing proof  
7 of principle experiments, for clinical studies, for  
8 instance, would have been vastly longer than we would  
9 have had today. And also it would have been done within  
10 the context of a very rigid and very sophisticated  
11 regulatory process.

12 So the development from scratch, basically, of a new  
13 complex Factor VIII product, which involved heat  
14 treatment, which itself was recognised as being a very  
15 high risk type of process because of neoantigen  
16 formation, certainly to do that sort of process today  
17 would be four or five years.

18 Q. Right. I don't think we should really ask you to give  
19 your views about the extent to which all of these  
20 additional processes add value but we can certainly see  
21 that they add complexity and time.

22 A. They certainly add complexity and time and I think --  
23 I'm a great advocate of the regulatory process, although  
24 sometimes the value for money that you get out of new  
25 regulatory processes and procedures can be debated, but

1 inevitably and inexorably it extends the time period,  
2 and certainly it was a feature throughout this period  
3 for us. I guess in some sense it was one of the upsides  
4 of operating under Crown immunity, that we had much more  
5 freedom to act and we didn't have to go through any  
6 formal regulatory processes to get our new methods  
7 approved by the licensing authority and so on. I'm not  
8 advocating that but at the time it did mean that we  
9 could shorten timescales for certain aspects.

10 Q. Yes. No doubt it's impossible to generalise anyway  
11 about whether the developments are helpful or unhelpful?

12 A. Yes.

13 Q. I suppose it all depends --

14 A. Yes, absolutely.

15 Q. And I don't need to ask you anything further about  
16 paragraph 29. You have given us your answer about how  
17 Dr Craske obtained his information. Issues of funding.  
18 This is just to look very quickly at funding for the  
19 last time, since it's part 3 of a three-part  
20 examination. We know that there is an exchange of  
21 letters in the summer of 1984 and because you feature in  
22 them we will just look at them briefly. [\[SNB0074523\]](#).  
23 It's a gentle reminder letter, I think, perhaps.

24 A. That's exactly what it is, yes.

25 Q. A gentle but persistent reminder letter to Mr Wooller

1           because you need to know about the money?

2   A.   We needed some of the money but we were also signalling  
3       we weren't going to be spending it during that financial  
4       year.  So we were requesting carryover into future  
5       years.  That's my reading of it.

6   Q.   And that's 13 August 1984.  If we look at the response,  
7       which is [\[SNB0074527\]](#), that's 17 August 1984.  So a very  
8       prompt response.

9   A.   Yes, absolutely.

10  Q.   From Clive Wooller?

11  A.   Yes.

12  Q.   No problem with carrying over the expenditure and he is  
13       confirming that there will be formal authorisation --

14  A.   Yes, that's correct.

15  Q.   -- of the £90,000?

16  A.   Yes.

17  Q.   Yes.  Right.  Can we go back to the statement then,  
18       please?  Dr Perry, just to ask you some questions about  
19       the end of 1984, which you describe as "a critical  
20       period in our understanding of AIDS".

21  A.   Yes.

22  Q.   You give a little summary of the main developments at  
23       that time?

24  A.   Yes.

25  Q.   Information from Dr Ludlam, information from Groningen

1           and then information from Cardiff --

2    A.   Yes.

3    Q.   -- as well.  Can we turn over, please?  Dr Perry,

4           I don't want to go over this period in great detail

5           again, not least because that was done when you were

6           here in June, but there is a particular aspect of the

7           information transfer during that period that I do need

8           to ask you about.

9    A.   Okay.

10   Q.   The first question is in relation to the question of

11          infection of patients at Edinburgh Royal Infirmary with

12          PFC product.  I'm actually not very clear about when and

13          how you personally first learned the information.  Do

14          you have any recollection of that?

15   A.   Erm --

16   Q.   Before you answer, Dr Perry -- I'm sorry, I'm

17          interrupting you.  We are trying, if we can, to tell

18          this story accurately, plainly?

19   A.   Yes.

20   Q.   So it's useful to look at the contemporaneous

21          documentation, certainly, because that has a reliability

22          that people's recollections in 2011 probably don't have.

23   A.   Yes.

24   Q.   But I am interested in getting your answer, in you

25          giving us your recollection as best you can, rather than

1           trying to fit your recollection to what you know other  
2           people have said.

3    A.   Yes.

4    Q.   So can I ask you perhaps to banish that for the time  
5           being?

6    A.   Yes, okay.

7    Q.   I know that's difficult but going back then to the  
8           question: do you have an image of yourself standing or  
9           sitting somewhere and hearing the news for the first  
10          time?

11   A.   The first -- taking your specification on board.

12   Q.   My instructions.

13   A.   My instructions on how I should place myself for this  
14          question, the first unprovoked memory I have of this is  
15          when I returned from Groningen and I had a conversation  
16          with Dr Cuthbertson, because he appeared at my office  
17          first thing in the morning to inform me that recall had  
18          actually taken place of the implicated batch because  
19          subsequent information from Dr Ludlam and so on had  
20          confirmed his understanding and concern that the product  
21          had transmitted HTLV-III. That's my first actual  
22          memory. Having said that, I remember hearing that in  
23          the context of having previously known that there was an  
24          issue associated with this batch before I went to  
25          Groningen.

1 Q. Right.

2 A. I don't know whether that answers your question.

3 I can't remember where I was, what I was doing or what

4 my reaction was when I heard for the first time that

5 a batch of product -- now, that might be just the way

6 my -- you would think I would remember the actual event

7 where I was told that there was a batch of product --

8 but that's not -- within your instructions, my first

9 actual memory is on return from Groningen, hearing that

10 the recall, which we thought was a possibility before

11 I went to Groningen, had actually taken place as

12 a result of discussion between Dr Cuthbertson and,

13 I think, Dr Boulton and Dr McClelland in my absence.

14 Q. Right. I think we have actually got there quite

15 quickly, thank you, Dr Perry, because what I was trying

16 to establish, so that we can prepare as clear

17 a narrative as we can of that little period, is whether

18 you went to Groningen knowing that there was a problem.

19 A. Yes. I went to Groningen knowing that there was

20 a potential problem. I went to Groningen knowing that

21 there was a potential problem, that it was very

22 preliminary data, it was fairly confidential because

23 clearly we didn't want to set a hare running on the

24 basis of evidence which turned out to be false. So,

25 yes, I was certainly aware of the potential problem when



1 I went to Groningen.

2 Q. Yes. I expect you have looked at the transcript of  
3 Dr Foster's evidence, have you?

4 A. Yes, I have.

5 Q. So you know that he has given evidence about initiating  
6 experiments on the Friday?

7 A. Yes.

8 Q. That's 26 October.

9 A. Yes.

10 Q. And in fact, as I understand it, there are two different  
11 sets of experiments. There are experiments which he  
12 asks Dr MacLeod to carry out, which are heat-treating  
13 samples to which various additives have been added?

14 A. Yes.

15 Q. That's the MacLeod experiments, if you like.

16 A. That's right.

17 Q. And then there are the McQuillan experiments and  
18 Mr McQuillan is working with the simple, unadulterated  
19 product and heating it. Is that right?

20 A. Yes, that's absolutely right.

21 Q. And of course, a difficulty at this point is that PFC is  
22 not manufacturing product at the end of October 1984  
23 because there is a plant shutdown?

24 A. Yes, that's correct.

25 Q. So these experiments are dependent on being able to find

1 material with which to work from somewhere?

2 A. It wasn't too difficult to find. Well, I think to do  
3 small-scale laboratory experiments, which were the  
4 MacLeod experiments, then there would have been raw  
5 material to do that. But I think that getting material  
6 that was directly obtained from process would have been  
7 difficult. So it would have been restricted. But there  
8 may have been ways round that. The McQuillan  
9 experiments, which was simply taking bottles of product  
10 that already existed and subjecting them to different  
11 time and temperature profiles, was very straightforward.

12 Q. Yes. Can we look, please, at a document, [\[PEN0121376\]](#).  
13 This is the letter that you wrote to Dr McClelland on  
14 26 November 1984?

15 A. Yes, that's right.

16 Q. And I think what had been confusing me was it looks as  
17 though what is being said here is that the first  
18 communication of the news to PFC was on 1 November and,  
19 given Dr Foster's description of Dr Cuthbertson  
20 receiving a phone call and Dr Foster being there, that's  
21 very difficult to synchronise, if you bear in mind that  
22 Dr Foster and you are in Groningen. So this is a long  
23 way round but I hope that it appears clearer at the end,  
24 but we now understand that that contact, which you have  
25 numbered 1 in your letter.

1 A. Yes.

2 Q. That's the McClelland/Cuthbertson contact, is not the  
3 first intimation of a potential problem?

4 A. No, I think it's quite likely -- I would find it  
5 difficult to believe myself that I hadn't been  
6 forewarned by either Dr Boulton, Dr McClelland, that  
7 they had had contact with Dr Ludlam concerning  
8 a infective batch of product. So I think I would have  
9 been forewarned but it would have been suggested to me  
10 that this was provisional. Dr Ludlam was quite careful  
11 that he wanted it to be kept confidential at this stage  
12 until he had obtained confirmation that these results  
13 were real. So I think, although I cannot remember the  
14 point at which I got this information, I would have been  
15 forewarned prior to that time. Certainly not on the  
16 26th. But I would have thought on the Monday or Tuesday  
17 of the following week.

18 Q. Yes. You see, it's very difficult --

19 A. I would have had a heads-up from somebody that there was  
20 a potential problem.

21 Q. Yes. It's very difficult, Dr Perry, isn't it, not to  
22 slip back into what you think would have been the  
23 position but we do have your evidence that the contact  
24 in connection with the recall, you thought, was taking  
25 place against a backdrop that this was not the first

1 news you had had?

2 A. That's right.

3 Q. And that is an actual memory, is it?

4 A. Well, to be very rigid with your instruction, my clear  
5 memory is returning from Groningen and having  
6 Dr Cuthbertson inform me that our suspicions -- or the  
7 provisional information that we had received the  
8 previous week had now been confirmed and as  
9 a consequence we had to do a recall.

10 Q. Yes.

11 A. I was -- so it wasn't -- my feeling wasn't one of great  
12 surprise but it was of great concern and disappointment,  
13 that what we had hoped was not a real effect had  
14 actually taken place and there was evidence of HTLV-III  
15 in a number of haemophilia patients in Edinburgh.

16 Q. Yes.

17 A. So I am extrapolating but extrapolating backwards from  
18 my own memory when I returned to work on the Monday, if  
19 you see what I mean.

20 Q. And that's Monday, 5 November?

21 A. That's right, yes.

22 Q. Right. Thank you. Because you were away up to and  
23 including the Friday, the 2nd?

24 A. Yes, that's right.

25 Q. Can we go back to the statement, please, [\[PEN0121759\]](#) at

1 1776? This is not then news to us, Dr Perry, that  
2 paragraph, about the evaluation of heat treatment at  
3 68 degrees?

4 A. Yes.

5 Q. Then you say:

6 "SNBTS is aware of no reports of HTLV-III or HIV  
7 transmission by its Factor VIII products following this  
8 course of action."

9 A. Yes.

10 Q. I just wanted to digress slightly to look at a time when  
11 it was thought that that might not have been so. Can we  
12 look firstly at [\[DHF0018523\]](#)? Can we see the date?

13 It's 28 November 1985. This is somebody in the  
14 Department of Health in London contacting the chief  
15 medical officer. That would be the chief medical  
16 officer for England and Wales, I take it?

17 A. Yes, I think so, yes.

18 Q. Yes. And referring to:

19 "Some hearsay evidence that haemophiliac patients  
20 are seroconverting to become anti-HTLV III positive  
21 despite being given heat-treated Factor VIII."

22 Then you are mentioned -- by "you", I mean PFC --

23 A. Yes.

24 Q. -- in paragraph 2.

25 A. Yes.

1 Q. "In particular the protein fractionation laboratory in  
2 Liberton in Scotland, introduced on a short-term basis,  
3 a very quick method which they thought might inactivate  
4 the virus at the beginning of this year. I believe that  
5 it is this latter which may be implicated in the  
6 information I have received."

7 Then we now have:

8 "The BPL laboratory at Elstree were rather late  
9 starters but are probably now producing the safest  
10 product in the world."

11 Can we then look at a publication, [\[LIT0010664\]](#)? We  
12 can see this is from a magazine, "Vox Sanguinis" is that  
13 the voice of blood?

14 A. Literally, yes.

15 Q. From 1988. The authors are from Edinburgh, not  
16 Dr Brookes, she is from Dundee.

17 A. Yes.

18 Q. But we recognise the names, I think?

19 A. Yes.

20 Q. It's quite a short paper. It refers to batches of  
21 heat-treated Factor VIII concentrate being found to  
22 contain anti-HIV positive plasma donations and these  
23 being batches that:

24 "... have been dry heat-treated at 68 degrees for  
25 two and 24 hours respectively. No HIV seroconversions

1 occurred in 13 susceptible haemophiliacs receiving  
2 a total of 540 bottles of these Factor VIII  
3 preparations."

4 A. That's correct.

5 Q. So this is the result of a bit of detective work that  
6 was done in connection with donations that were later  
7 found to have been positive. Is that right?

8 A. Yes, it's a study that was possible because of  
9 a look-back following the introduction of HIV testing.

10 Q. Yes.

11 A. In October 1985 HIV testing was introduced and it was  
12 possible to -- those donors that presented as positive,  
13 we could look at previous donations and through that  
14 process we identified two or three batches of  
15 Factor VIII that would have had infected -- definitely  
16 would have had infected donations with respect to HIV  
17 included in them, and by following up the patients we  
18 were able to demonstrate that there was no transmission.

19 Q. Yes. I think Dr Foster has actually given us a table in  
20 relation to--

21 A. That's right, indeed, yes.

22 Q. Yes. So we have that information about that piece of  
23 research that was done.

24 Just to give everyone a chance to have a look at it,  
25 can we scroll a little bit down, please? We can see

1           that in relation to the Edinburgh centre it says:  
2            "No new seroconversions have occurred amongst  
3           haemophiliacs treated at this centre since heat  
4           treatment of Factor VIII concentrate was initiated by  
5           SNBTS in December 1984."  
6    A.   That's correct.  
7    Q.   And then it goes on to narrate exactly the circumstances  
8           you have described about the tracing of positive  
9           donations and looking specifically to see if those had  
10          had any effect.  
11   A.   Yes --  
12   Q.   And there was no doubt that both batches were  
13          contaminated before treatment.  
14   A.   I think one of the early indications that we had, which  
15          demonstrated that our actions, taken in December 1984,  
16          were effective.  
17   Q.   Yes.  
18   A.   Ie we knew retrospectively that these batches were  
19          infective, potentially infective, but that the heat  
20          treatment clearly eliminated that infection because none  
21          of the patients seroconverted that received those  
22          batches.  
23   Q.   Can we just look over the page, please? Of course,  
24          there is another piece of documentation about possible  
25          infections and I think we should just look at that too,



1 if we could, please. It's a letter from Dr Forbes,  
2 which I'm sure you have seen before as well.

3 A. Yes.

4 Q. Can we look at [\[SNB0047776\]](#), please? We can see that  
5 this is you writing to Dr Rotblat. Is that right?

6 A. Yes.

7 Q. At DHSS in March 1986?

8 A. Yes.

9 Q. And you are enclosing a copy of a letter from Dr Forbes  
10 detailing seroconversions in Scotland following the use  
11 of heat-treated Factor VIII, but you go on to say:

12 "You will, of course, appreciate that these cases  
13 are equivocal and there is a general consensus that the  
14 seroconversions are related to previous treatment with  
15 untreated material of either commercial or NHS origin."

16 The letter we have looked at before, [\[SNB0047732\]](#).

17 A. Yes.

18 Q. Just looking at the three patients, patient number 1,  
19 a large number of batches, particularly in 1984, we can  
20 see, 1983 and 1984, factor consumption, quite a bit  
21 higher certainly than the previous years, and then  
22 a list of batches used in 1984 to 1985.

23 A. Yes.

24 Q. Although there isn't actually a factor consumption  
25 figure for 1985, but we can see that the test results

1           are given higher up and there is a negative test  
2           in October 1984 and then a positive test  
3           in October 1985?

4    A.   Hm-mm.

5    Q.   But it would be possible for that negative test  
6           in October 1984 to have been in a window period or at  
7           a time when the patient was in the process of  
8           seroconverting, I suppose?

9    A.   Or the infection occurred between -- sadly and  
10           tragically in this case -- October 1984  
11           and December 1984, when we introduced heat treatment.

12   Q.   Yes.

13   A.   The patient was clearly being quite intensively treated  
14           throughout 1984, so he would have received fairly  
15           significant quantities in that two-month period of  
16           Factor VIII, on either a prophylactic or an on-demand  
17           basis.

18   Q.   Then if we look at the second patient. Can we go over  
19           the page, please? The second patient is actually  
20           a Haemophilia B patient.

21   A.   Yes.

22   Q.   We looked at this letter last week and I think it  
23           actually is not difficult for the Inquiry to work out  
24           the likely identity of this individual. That statement  
25           that there had been no treatment in 1985 doesn't appear

1 to be completely accurate?

2 A. Okay.

3 Q. But in any event, if this is Factor IX, then we know  
4 that there wasn't heat-treated Factor IX issued by the  
5 NHS until the autumn of 1985?

6 A. That's right. That's correct.

7 Q. Although I think there is evidence that there was some  
8 purchasing of commercial heat-treated Factor IX at the  
9 Royal Infirmary in Glasgow in the summer of 1985.

10 A. Oh, there would have had to have been because there was  
11 no supply from the -- the SNBTS withdrew completely its  
12 supply of all Factor IX product, pending its safety  
13 studies in dogs to demonstrate -- so it was absolutely  
14 the case that unfortunately haemophilia centres in  
15 Scotland had to make commercial purchases of Factor IX  
16 during that period to cover the needs of their patients.

17 Q. When did you withdraw your Factor IX?

18 A. I think we withdrew -- we quarantined, because I have  
19 been asked a specific question on this. We ceased to  
20 supply unheated Factor IX, I think it was May 1985 but  
21 we didn't formally recall it, we quarantined it because  
22 we weren't confident that commercial supplies were  
23 necessarily reliable or that they may result in  
24 unpredictable clinical reactions.

25 So we maintained stocks of unheated material around

1           Scotland to meet an emergency requirement for a patient  
2           treatment but to the best of my knowledge it wasn't  
3           used. Between May and October 1985, my understanding is  
4           that all patients in Scotland would have been treated  
5           with commercial product. Or certainly that's the system  
6           that we set up.

7    Q. Yes. Can I just ask you, Dr Perry, you have mentioned  
8           quarantining of product. Can we go back to Factor VIII  
9           and December 1984? I think we understand that the first  
10          step that was taken in relation to heat treatment was to  
11          heat-treat a three-month supply?

12   A. Or a one-month supply, yes.

13   Q. I think Professor Ludlam said it was a one-month supply  
14          but there are references to its being a three-month  
15          supply.

16   A. Okay.

17   Q. Anyway. We will no doubt be able to firm that up but  
18          a shorter stock perhaps, or a stock that would last  
19          a limited period of time was initially heat-treated --

20   A. Yes.

21   Q. -- at the end of 1984. And we know that in order to do  
22          that -- or we think that in order to do that, some  
23          product was brought back to PFC from further down the  
24          supply chain. Is that right?

25   A. It could have been brought back from Glasgow, where we

1           knew there were very substantial stocks. I can't,  
2           without going back to the records, really establish  
3           where that material came from but -- I would have  
4           thought -- again, without being prompted by evidence, my  
5           expectations was we would have had enough material in  
6           the PFC to subject it -- although it is equally possible  
7           that I may have taken a view that what we wanted to do  
8           was get, you know -- on the basis of a first in, first  
9           out stock control system, we didn't want to introduce  
10          the newer material into supply in advance of the older  
11          material. So we might have brought material back that  
12          had already been issued to subject it to heat treatment,  
13          but I can't be sure without checking the record.

14        Q. I think, though, we should just clarify something which  
15          has been suggested earlier, that some of what was  
16          heat-treated might have been brought back from patients?

17        A. It was --

18        Q. Did you ask patients, "Bring back your stocks" and then  
19          heat-treat it and reissue it?

20        A. We never did and I don't think ever still do, directly  
21          communicate with patients but once we had established in  
22          principle and in practice that we wanted to introduce  
23          heat-treated Factor VIII for the entire Scottish  
24          population, it was certainly my expectation, and I think  
25          the correspondence certainly backs this up, that it was

1 the intention that all product, right down to the  
2 patient's domestic refrigerator at home, would be  
3 recalled and replaced with heat-treated material.

4 Q. Yes. You see, there are two different points, Dr Perry,  
5 there is the question of recalling unheated product so  
6 that patients wouldn't use it, when they could be using  
7 something safer.

8 A. Yes.

9 Q. And there is a question of recalling product for the  
10 purpose of heat-treating it and reissuing it.

11 A. Yes. We certainly wouldn't have recalled from the  
12 patients to do the initial heat treatment.

13 Q. Right, thank you.

14 A. We certainly wouldn't have done that.

15 Q. Right. Because?

16 A. Well, the patient's stocks would have been necessary to  
17 treat a bleed in the middle of the night or  
18 unexpectedly. The reason we wouldn't have done that was  
19 because there was plenty of material within our own  
20 control or within the SNBTS to enable us to heat-treat  
21 stocks. I think the recall from the patients would have  
22 been right at the end of the process, as we did, what  
23 I described to myself as the exchange transfusion  
24 throughout Scotland of heated material for unheated  
25 material.

1 Q. Yes, I follow. I should have asked Professor Ludlam  
2 about this and I forgot. So we will ask him when he  
3 comes back next month but you are telling us it  
4 certainly wasn't your job to be in direct contact with  
5 patients?

6 A. No, absolutely not, no.

7 Q. So you are passing a message, as it were, down the line?

8 A. Yes.

9 Q. It's up to the haemophilia centres to make the practical  
10 arrangements necessary with their patients to do that  
11 exchange. Is that right?

12 A. That's exactly how it was intended to work. In fact,  
13 I know it sounds cumbersome now but that's how the  
14 communication system operated. We would have certainly  
15 rehearsed it with the haemophilia directors beforehand  
16 but the instruction would have gone from myself to the  
17 regional transfusion centres, who were our regional  
18 representatives, and they would have liaised with the  
19 haemophilia centres and the various other holding points  
20 because they were the distribution points. Every  
21 product that we made was distributed via  
22 a regional transfusion centre. It therefore followed  
23 that recalling them -- and they held the records of  
24 where these products were issued to. Therefore, in  
25 order to effect an effective recall, you had to recall

1           it via the regional transfusion centre. So they would  
2           have issued the instruction to the haemophilia centres  
3           or the haemophilia treatment hospitals, to recall the  
4           product from the haemophilia centres and they in turn  
5           would have recalled it from patients.

6   Q.   But in relation to Factor IX, you didn't then issue an  
7        instruction down the line to recall unheated Factor IX?

8   A.   Not at that point.

9   Q.   No.

10  A.   Because we weren't confident that supplies of the  
11       commercial material (a), were secure and (b), this was  
12       very early on in the introduction of heat treatment of  
13       Factor IX. We couldn't be absolutely sure that the  
14       treatment of patients with a heat treated Factor IX  
15       product commercially may not have led to -- it could  
16       possibly have led to patient reaction, in which case  
17       there would have been a need to revert to the  
18       unheat-treated material, which we knew was at least  
19       efficacious.

20                So it was just a precaution against the heat-treated  
21       material not being either suitable or available.

22  Q.   Right, but once you had your own heat-treated Factor IX  
23        in the autumn of 1985 ...?

24  A.   Then we recalled the unheated material very formally.

25  Q.   And you do exactly the same exchange process as you had



1 done with the Factor VIII?

2 A. Precisely.

3 Q. Good. Just to complete that letter -- we were

4 sidetracked because we were talking about Factor IX?

5 A. Sorry.

6 Q. No, it's my fault. The third patient, we see, during

7 1984 and 1985 he has had FEIBA only. So we may well be

8 talking in relation to patient number 3 about somebody

9 who was infected by commercial product.

10 A. I think that's the most likely explanation, yes.

11 Q. Yes.

12 A. Certainly FEIBA is a commercial pooled product from the

13 US.

14 Q. Just to look over to the conclusion of the letter,

15 please, if we could look at the final page, Dr Forbes

16 has been looking at seroconversion intervals?

17 A. Yes.

18 Q. And doing a bit of detective work also. Right. Can we

19 go back to the statement, please? Can we go to 1777?

20 We did ask you, Dr Perry, about the minutes of the heads

21 of department meeting on 26 October.

22 A. Yes, indeed.

23 Q. And I think this just fits with the discussion we had

24 earlier about there having been some earlier intimation

25 to you of a problem and you are, I think, in the end not

1 very clear what your state of knowledge was on the  
2 morning of 26 October. Is that right?

3 A. Well, I think I am quite clear --

4 Q. Right.

5 A. -- that I had no knowledge whatsoever but that is from  
6 just looking at the -- that is not -- that's not from  
7 a memory. That's from the evidence that I have seen,  
8 I think, unless --

9 Q. That's from Dr McClelland's contemporaneous memo, saying  
10 that he received a phone call from Dr Ludlam on the  
11 evening of 26 October, is it?

12 A. Correct, but also Dr Ludlam's evidence that it was on  
13 26 October that he was telephoned by Dr Tedder.

14 Now, I cannot conceive of an alternative source of  
15 information that would have given me knowledge that  
16 these patients had seroconverted, or potentially  
17 seroconverted, before 26 October. I think it's perhaps  
18 just a coincidence. I think HTLV-III, the development  
19 of heat-treated products was so high on the agenda, it  
20 wouldn't have been unusual for me to have concluded at  
21 that particular point in time that it was useful and  
22 indeed important to record the actions that we were  
23 taking in response to this emerging story of HTLV-III,  
24 and indeed what we were doing to actually respond to  
25 that. So I think -- I agree, it looks as though I knew

1 something because the minute is quite difficult to  
2 understand but I really don't think that's the case.

3 Q. Yes. Actually can we just look quickly at that minute,  
4 so that everyone is aware of the entry that we are  
5 talking about? It's [\[SNB0103479\]](#). It's just the  
6 passage at the very end of the minutes, please, so on  
7 the second last page. It's under "AOB" and it's that  
8 reference there, headed "AIDS".

9 You have used the word "coincidence", Dr Perry. You  
10 think it's a coincidence that on the Friday morning you  
11 are taking this initiative at the meeting?

12 A. Absolutely. I cannot conceive of where or how I could  
13 have obtained information before it was passed from  
14 Dr Tedder to Dr Ludlam. Dr Tedder phoned Dr Ludlam, as  
15 I understand it, immediately the results were available  
16 from the laboratory. Either I'm a clairvoyant or it is  
17 a coincidence. I think with hindsight it would have  
18 been not an untypical thing for me to have done, to have  
19 decided on that particular morning that, just as  
20 a process of good management, we should set about making  
21 sure that we carefully record the actions that we are  
22 taking in response to this unfolding problem of  
23 HTLV-III.

24 For me that is the explanation.

25 Q. Thank you. Bear with me a moment, Dr Perry, sorry.

1 A. Hm-mm. (Pause)

2 Q. Of course, when you write this or when you take this  
3 step at the meeting on the Friday morning, you know that  
4 you are about to go to Groningen?

5 A. Yes, indeed.

6 Q. Yes.

7 A. Yes.

8 Q. So, doing the best you can, what would your state of  
9 mind have been on that Friday morning, knowing that you  
10 are going to Groningen? Are you thinking that you might  
11 learn more interesting information there or something of  
12 the sort?

13 A. The meeting was specifically on fractionation, it was  
14 a fractionation meeting that was established, and at  
15 that time -- well actually, many of the meetings  
16 concerning blood transfusion were about coagulation  
17 factors, HTLV-III. It was what was being widely  
18 discussed, for obvious reasons.

19 So, yes, it's quite likely my expectation was that  
20 there would be some useful information that we could  
21 bring back. Indeed that was part of the reason for me  
22 going, not to specifically to look at or listen to all  
23 the individual presentations, but I knew the meeting  
24 would have several experts, international experts -- it  
25 was a well attended meeting -- that we would have the

1 opportunity to talk with.

2 I'm not sure that that would have influenced my  
3 particular comment then, as I say.

4 Q. It's really impossible to reconstruct, isn't it?

5 A. It's impossible to reconstruct. What I think is most  
6 likely is that I did hear about this early on the  
7 following week. I was probably briefed confidentially  
8 by either Dr McClelland or Dr Boulton, probably  
9 Dr Boulton; I think Dr McClelland says he was sick. But  
10 this is a reconstruction from the evidence of others  
11 that I have read and I, sadly, don't have any vivid  
12 memory of these various transactions, although as an  
13 event covering a period of ten days, I remember the --  
14 I remember it quite clearly as a key event in my  
15 lifetime, as it were.

16 Q. Do you remember the mood?

17 A. Absolutely. But drilling down into the detail of  
18 exactly what happened and what conversation took place  
19 when, I haven't retained that, I am afraid, other than  
20 through the documents that we have seen.

21 Q. How would you describe the mood at PFC?

22 A. I guess, because Dr Ludlam was quite clear that he  
23 wanted this information to be kept confidential -- and  
24 we would have respected that for obvious reasons -- my  
25 personal response to it was one of, I think, grave

1           disappointment. As I say, the PFC existed basically to  
2           protect patients from the risks of infectious disease  
3           by -- and I think also the general view, although there  
4           was no evidence for this, that HIV -- I think there was  
5           a belief that HIV had not entered the UK blood supply.

6           I think the general view was that we had more time.  
7           This was clearly an issue that was developing in the US  
8           but there was no evidence to suggest that there had been  
9           a major transfer of HIV across the Atlantic, as it were.

10          So it was surprise, disappointment and real concern  
11          and I think it's difficult to underestimate [sic -  
12          overestimate] the impact of this, plus the Groningen  
13          meeting, in terms of framing the action that we then  
14          took. This was a strategy-changing moment. For the  
15          first time we had evidence from the Groningen meeting  
16          that the product that we were making could be  
17          inactivated fairly simply but also, and importantly,  
18          there was HIV in the UK, and certainly the Scottish,  
19          blood supply.

20        Q. So one shouldn't underestimate the importance of all of  
21          these developments?

22        A. Absolutely not. This ten-day period brought together,  
23          almost coincidentally, the report to Dr Ludlam and the  
24          information that we got for the first time from the  
25          Groningen meeting, from the CDC and the Cutter people,

1 who demonstrated for the first time that HIV is fairly  
2 heat-sensitive and, as I think as I have said in another  
3 statement somewhere, the risk/benefit balance changed  
4 overnight. It was dramatic and it was quite clear,  
5 moving from a position where everyone was very nervous  
6 about introducing heat treatment to a position where the  
7 advantages clearly outweighed any of the risks.

8 Q. Yes. Excuse me a moment. (Pause).

9 THE CHAIRMAN: Dr Perry, I think that I understand the  
10 change in the risk/benefit analysis. One thing that has  
11 caused me concern from time to time is the basis of what  
12 appears to be the confidence that HIV had not arrived in  
13 Scotland.

14 A. Yes.

15 THE CHAIRMAN: The literature suggests three major sources  
16 of infection: intravenous drug abuse, which we know  
17 happened in Edinburgh, the transfusion itself, and male  
18 homosexual practices.

19 A. That's right.

20 THE CHAIRMAN: It may well be that there was confidence that  
21 the most dangerous, if I can put it that way, of the  
22 male homosexual practices had their origin in the west  
23 coast of America and New York and some other places.  
24 What was the basis for confidence that that had not led  
25 to infected persons in Scotland?

1 A. I wouldn't actually describe it as there was  
2 a confidence that it hadn't transmitted but there was  
3 perhaps closer to a hope or a belief that it hadn't yet  
4 travelled across, and we must remember that although HIV  
5 is a well-known entity for everybody in this room now,  
6 at that time it was a new disease, it wasn't understood,  
7 there were still alternative ways to describe the AIDS  
8 condition and its causation and so on, and little, if  
9 anything, was known about the epidemiology and the  
10 extent to which it was travelling around the world and  
11 whether there were any regional differences and so on.

12 But I take your point. With hindsight, it could  
13 have been clearly proposed or suggested that HIV could  
14 indeed be in the UK population. We just hadn't seen any  
15 evidence of it.

16 THE CHAIRMAN: My problem is the basic logical one that  
17 there was no basis on which you could exclude the  
18 possibility.

19 A. That's right.

20 THE CHAIRMAN: And yet practically some people at least who  
21 might have been in a position to understand the problem  
22 did seem to proceed on the basis that it was excluded on  
23 a practical level.

24 A. I don't think it was the sole determining factor; it was  
25 one of a number of factors that led to a situation in



1           which it was concluded or it was decided that -- I think  
2           we are talking about heat treatment of coagulation  
3           factors. It was but one factor in determining the  
4           action or the lack of action that should be taken in  
5           respect of heating products.

6           I'm aware that, I think, other witnesses have been  
7           asked that if you went back to the beginning of 1984 and  
8           if the transmission had taken place then, would that  
9           have changed one's position in terms of introducing heat  
10          treatment and I suspected that that might come up today  
11          and I have thought about it a great deal and frankly  
12          I can't sensibly answer the question. My best guess is  
13          that at the beginning of 1984 there would have still  
14          been serious concern over whether heating products,  
15          using processes that we had no experience of, might have  
16          caused a bigger problem.

17          I think at the beginning of 1984, although HIV was  
18          seen as a significant issue, I don't remember the  
19          precise epidemiology but there was also a view that if  
20          you became infected with HTLV-III, it didn't necessarily  
21          mean that you got AIDS and I think some of the  
22          statistics that were around -- and I can't place these  
23          in time. I think it was suggested that at that point in  
24          time, the beginning of 1984, only 1 per cent of people  
25          that got HTLV-III, as it was then, would get AIDS. The

1 epidemiology was brand new. Nobody knew what the  
2 epidemiology would look like as the years rolled by.

3 So my best guess is that even if we had had evidence  
4 of HIV in the donor population, at that point in time  
5 that in itself wouldn't have been sufficient to take  
6 what would have been seen at that time as a very  
7 dramatic step in terms of potential damage to  
8 a Factor VIII product. We might have known that HIV was  
9 in the donor population but we would have had no  
10 knowledge whatsoever of our ability to inactivate it  
11 using heat treatment. But that's a personal view.

12 THE CHAIRMAN: Well, you are the person who was there at the  
13 time, Dr Perry, and I think that it is extremely  
14 difficult to get over to us -- and we can't really  
15 ignore everything we have heard from all sorts of other  
16 sources -- just exactly what the atmosphere was.

17 A. Sure.

18 THE CHAIRMAN: But thank you anyway.

19 MS DUNLOP: Yes. You are right, Dr Perry, that it is  
20 something I was going to come to. What you have just  
21 said is really your question 36 answer. Can we look  
22 back at the statement, [\[PEN0121759\]](#)? We are now at  
23 1788.

24 I'm not going to ask you to supplement any further.  
25 You have given us a fairly full written answer and you

1           have already added some extra comments today. I think  
2           the only thing I should do is that in paragraph 3 you  
3           make a reference to the studies in late 1983. Not least  
4           because Dr Cuthbertson is coming tomorrow, I think there  
5           is a slight error in the protocol that's described  
6           there, that it actually was 70 degrees for 72 hours.

7    A.   Sorry, yes.

8    Q.   But we have got that in a further statement from you  
9           anyway.

10   A.   I apologise for that.

11   Q.   It doesn't matter. Just before we leave your statement,  
12           I also wanted to ask you a little bit about the  
13           licensing of your heat-treated product. Professor Cash  
14           told us that you -- I think it was you personally --  
15           made contact with Dr Duncan Thomas of NIBS and C?

16   A.   Yes, that's right.

17   Q.   Could you just tell us a little bit about that?

18   A.   I think, as Professor Cash has explained, it wasn't  
19           clear, you know, where one could obtain authority for  
20           taking what was a very profound step in terms of the  
21           action that we were proposing, to heat-treat the entire  
22           supply of Factor VIII for patients in Scotland. I think  
23           John Cash, understandably, was looking, as indeed I was,  
24           for some sort of framework in which that decision could  
25           be placed and referenced.

1           We had a good relationship with colleagues in NIBSC.  
2           Dr Duncan Thomas was the head of the haematology area  
3           there and very experienced in coagulation, and I think  
4           it was probably no more than taking Duncan Thomas  
5           through our strategy and our rationale and just  
6           establishing the extent to which he thought that was  
7           a sensible and appropriate thing to do, and the answer  
8           was he did.

9           But it was no more than that. It wasn't any formal  
10          process. He wasn't the licensing authority, he was  
11          a colleague who was part of a national control  
12          laboratory and we valued his opinion and experience. So  
13          it was really just a process of sharing our decision  
14          with other colleagues that we could find and seek their  
15          support.

16          I can't place it in time but I think we did  
17          something similarly with the Medicines Control Agency,  
18          as it was then, to let them know of our actions and so  
19          on, and I think equally this was the point at which the  
20          UK licensing authority -- basically on the basis of  
21          Groningen data and on the basis of the observation that  
22          HIV had entered the donor population, this risk/benefit  
23          balance had dramatically changed. So the view was that  
24          this was a risk worth taking.

25    Q.    Yes. And actually no one said to you that there was

1           some sort of regulatory process that you must go through  
2           before you did your exchange or anything like that, and  
3           if you had, you wouldn't have been able to do the swap  
4           as quickly as you were?

5    A.   No.  I think there has been a great deal spoken about  
6           Crown immunity and what that meant.  I have to say, as  
7           an operational manager in a period of enormous concern  
8           but also a belief that we could do something very  
9           quickly and very effectively, I think, even with  
10          hindsight, the concerns over the regulatory process  
11          weren't at the front of my mind.

12                 I know we operated outside of the formal licensing  
13                 system and my personal energies at that point in time  
14                 were towards making sure that all the patients in  
15                 Scotland got the heat-treated product as quickly as  
16                 possible and as cleanly as possible.  Ie, built into  
17                 this was this very important component of recalling deep  
18                 down into the supply chain the stocks of the unheated  
19                 material.

20    Q.   Yes.  In conclusion, Dr Perry, we should note your  
21           supplementary responses, which are [\[PEN0121582\]](#), just to  
22           confirm that we haven't missed anything.

23                 It was in response to our letter that you provided  
24                 the list of members of the management committee.  That's  
25                 question 1.  Question 2 is that small point about

1 reversing Drs Smith and Snape.

2 Then question 3. I think we have really moved on  
3 from the need to probe the questions of funding that  
4 were puzzling us at that point. I'm hoping that we have  
5 more or less got to the bottom of what was in Dr Cash's  
6 letter.

7 4. You have corrected that reference  
8 to January 1986 and it should be January 1984?

9 A. Hm-mm.

10 Q. We have asked about the initial notification,  
11 paragraph 5.

12 Paragraph 6. We clarified the exact protocol that  
13 Dr Cuthbertson used.

14 A. Yes.

15 Q. And in a trailer for tomorrow, as you have said,  
16 Dr Cuthbertson is going to be able to answer some  
17 questions on it.

18 A. Yes.

19 Q. So that concludes your supplementary responses as well,  
20 Dr Perry. Thank you very much.

21 A. Thank you.

22 THE CHAIRMAN: Do you have --

23 MR DI ROLLO: I don't wish to ask any questions, thank you.

24 MR ANDERSON: I have no questions, thank you, sir.

25 MR JOHNSTON: I have none either, thank you, sir.

1 THE CHAIRMAN: Thank you very much, Dr Perry.  
2 A. Thank you.  
3 MS DUNLOP: Well, I'm sorry, sir, it's going to have to be  
4 a half day.  
5 THE CHAIRMAN: I could repeat my French phrase from last  
6 week.  
7 (1.00 pm)  
8 (The Inquiry adjourned until 9.30 am the following day)

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I N D E X

DR ROBERT PERRY (continued) .....1  
Questions by MS DUNLOP (continued) .....1

