1	Friday, 18th March 2022
2	(10.00 am)
3	Presentation to the Inquiry about the work and evidence of
4	Dr James Smith (responsible for product development at the
5	Plasma Fractionation Laboratory 1975-1992 and Blood
6	Products Laboratory 1979-1982 and formerly of the Protein
7	Fractionation Centre, Edinburgh) by MS RICHARDS
8	(continued)
9	SIR BRIAN LANGSTAFF: Yes.
10	MS RICHARDS: Sir, when we left off yesterday afternoon
11	we'd looked at some passages in Dr Smith's various
12	statements relating to knowledge and understanding of
13	hepatitis, both in terms of his own his
14	understanding of the perception of fractionators, and
15	then his understanding of the perception of clinicians
16	and more generally.
17	There were then just a handful of
18	contemporaneous documents I wanted to look at. They
19	derive from 1981, and in relation to the first two
20	documents they were described by Dr Smith in his
21	statement as some "first outline proposals to tackle
22	virus transmission". Generated in 1981.
23	Paul, could we have CBLA0001291.
24	This is 27 February 1981, and is, as
25	I understand the statements of Dr Smith, a document
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1	of hepatitis risk cannot be ignored, and it is
2	essential that BPL/PFL be well placed to take
3	advantage of such developments. Since this particular
4	development work involves the handling of large
5	quantities of plasma known to be infective, the choice
6	of a location for the work is important. Clearly the
7	work would have to be sited outside the regular
8	production area."
9	So that's what Dr Smith described as first
10	outline raising of this matter.
11	Then a second document referenced in, I think,
12	the statement from the HIV Litigation is at
13	BPLL0011141.
14	This a little later in 1981, 27 July 1981,
15	a memo from Dr Smith to Dr Lane, "Reduction of HBV
16	infectivity of therapeutic concentrates", and Dr Smith
17	says this:
18	"For historical reasons over and above the line
19	of duty I am very interested in this topic but have
20	not had facilities to pursue it since coming to
21	England. Now that we know a lot more and
22	Brian Combridge has relatively safe preoperative
23	facilities, a bit of cross-fertilisation would seem to
24	be in order. I summarise some pursuits which would
25	involve spiking products with infective virus,
	3

Blood In	quiry 18 March 2022
1	authored by him, although it doesn't bear any
2	particular name. But it says: "Proposal for support
3	of research project". "Project title: The
4	development of methods for the production of
5	coagulation factor concentrates with reduced risk of
6	hepatitis transmission".
7	The first paragraph starts by talking about
8	improvements in methods for the detection of
9	hepatitis B surface antigen and says that's
10	drastically reduced the incidence of hepatitis B in
11	patients receiving Factor VIII and Factor IX
12	concentrates and then adds this:
13	"This change has also highlighted the importance
14	of non-A, non-B hepatitis as an undesirable side
15	effect of transfusion of blood and blood products.
16	Although there is some evidence that the risk of
17	transmitting non-A, non-B hepatitis is greater for
18	imported blood products [then again a reference to
19	Dr Craske's 1980 paper], the incidence of non-A, non-B
20	hepatitis following infusion of NHS concentrates is
21	still a cause for concern."
22	Then there's a reference to two further papers
23	in the next paragraph. Then the third paragraph picks
24	it up by saying:
25	"The significance of a product demonstrably free
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1	inactivation or removal of virus by simple
2 3	manipulations, and testing for possible infectivity by
3 4	controlled tests in chimpanzees possibly the only evidence currently deserving credibility."
4 5	Now this is, as we see from the heading,
6	concerned with the reduction of hepatitis B
7	infectivity, but I draw attention to it not least
8	because of what is said in paragraph 1, and I think
9	Mr Hill may have referred to this in the course of the
10	week, but there is a reference to the work being
11	undertaken by Behringwerke in relation to heating and
12	the claim of producing a non-effective Factor VIII
13	concentrate. Dr Smith says there's no reputable
14	evidence for the claim:
15	"I would have a few ideas on how to start, but
16	this might probably be an R&D project."
17	Then he goes on in the following paragraphs to
18	talk about Factor IX and suggests a discussion that
19	might take place with Mr Watt at PFC in that regard,
20	and then discusses if we go just further down the
21	page, please, Paul ideas in relation to other
22	products, and then says at the very end:
23	"I am out of date on the virology side and would
24	welcome further discussions with you and Brian."
25	So those are two documents from 1981 raising
	4 (1) Pages 1 - 4

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18 March 2022

claims may lack scientific integrity but the ethical

clearly established. It is known that certain

area using a purist argument that the term

pressure brought on clinicians to use such products is

companies are actively seeking product licences on the

UK market. BPL therefore cannot rest its case in this

'essentially free of hepatitis risk' is meaningless or

because precise definition of complete exclusion of

hepatitis viruses falls outside our existing methods

a range of approaches for reducing hepatitis antigen.

I'm not proposing to go through them all; the second

Some of these alternative potential ways of

"The advantages and/or disadvantages of each of

There's some general conclusions there set out.

If we go over the page, we see then "Submissions

reducing hepatitis transmission are discussed in more

these systems was briefly considered with respect both

to factor VIII and to factors II, VII, IX and X."

6

it is very much only a summary so we don't have any

more detail, but what this document, which we can see

"The review covered the consequences of

multi-transfused haemophiliacs and the special problem

transmitting both B and non-A, non-B hepatitis

of infrequently transfused patients who had no

immunological defence. The risk of transmitting

hepatitis might be diminished by more specific and

sensitive screening of blood donations intended for

antibody; vaccination of recipients; selective removal

of viruses during fractionation, eg by precipitation

B-propiolactone or by heating in the presence of

plasma proteins. A policy was suggested for the

being given, in particular by Dr Smith, to possible

methods of reducing or addressing the risks of

We can see there in the course of 1981 thought

fractionation; limiting the size of plasma pools for

recovery of certain products; neutralisation or

adsorption of virus with an excess of hepatitis

with PEG; and by inactivation of virus eg with

reagents preserving the biological activities of

selective application of these approaches to

individual coagulation factor concentrates."

viruses, the incidence of infection among

is heat inactivation but there's a number of others

there set out. (9) is "general forms of chemical

detail in Dr Smith's 1990 statement.

The note continues:

was authored by Dr Smith, says is:

virus inactivation".

Then there's, it would appear, a discussion of

of detection excepting transmission in primates."

1	thoughts about work that might be undertaken but not
2	really going any further than that.
3	There's then, if we go to CBLA0001446, as we see
4	here a meeting in September 1981, 14 September 1981,
5	between Dr Lane, Dr Harvey and Dr Smith. This is in
6	fact Dr Lane's note of the meeting. His name and the
7	date of 21 September appears on page 2.
8	We can see the subject:
9	"1. Hepatitis antigens in plasma and final
10	products.
11	"2. Submissions for research and development
12	products.
13	"The object of the meeting was to set out
14	important areas of research and development"
15	Then if we look at the first paragraph, headed
16	"Hepatitis antigens in plasma and final products", we
17	see and again, Mr Hill made reference to this issue
18	earlier in the week we see there attention being
19	drawn to what was going on commercially, in terms of
20	commercial products:
21	"The point was made that various commercial
22	manufacturers have now produced both factor VIII and
23	factor IX products claiming that in-process
24	modifications have now substantially reduced the risk
25	of transmission of hepatitis. The basis for these
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1	for research and development projects", reference to
2	for research and development projects", reference to a meeting of the Scientific and Technical Committee.
2 3	for research and development projects", reference to a meeting of the Scientific and Technical Committee. I think, again, Mr Hill made reference to that.
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1	transmission of hepatitis. But at this point in time,
2	it's still very much a subject for discussion with
3	a range of different options or potential options
4	being identified.
5	If we then just turn to Dr Smith's 1990 draft
6	proof of evidence.
7	CBLA0000016_034, please, Paul. And we go to
8	page 34.
9	If we look at the opening words of paragraph 87,
10	bottom half of the page, this is in a section of
11	Dr Smith's statement which deals with restricted pool
12	trials, which I'll come on to, but we can just see
13	from the first sentence what may be a shift in
14	position as between 1981 and 1983. What Dr Smith
15	there says in:
16	"In 1983, BPL was very concerned about the
17	incidence of NANBH after first use of Factor VIII and
18	Factor IX concentrates in previously untreated
19	patients, even though the source plasma was from
20	unpaid UK donors."
21	He goes on then to talk about AIDS, which I'll
22	come on to in a moment, but explains a few lines down:
23	"We were interested in NANBH, first and
24	foremost."
25	So the work that was being undertaken by 1983
	9
1	Then he adds he didn't think that affected the
2	urgency felt by the Scottish National Blood
3	Transfusion Service.
4	Then if we go to the top of the next page, he
5	then says, in relation to the position of
6	fractionators:
7	"I bolieve that most fractionators thought it

1	Then he adds he didn't think that affected the
2	urgency felt by the Scottish National Blood
3	Transfusion Service.
4	Then if we go to the top of the next page, he
5	then says, in relation to the position of
6	fractionators:
7	"I believe that most fractionators thought it
8	likely that AIDS was caused by a blood-borne virus
9	even before the seminal publication by Montagnier's
10	group."
11	Then he refers to his recollection of both when
12	it was published, but it was taken by transfusionists
13	as strong support for a working hypothesis. That was
14	his evidence to the Penrose Inquiry in writing.
15	If we then go to Dr Smith's statement to this
16	Inquiry, WITN3433001, and go first of all to page 14,
17	please. If I pick it up bottom of page 13, Paul.
18	You'll see the very bottom of the page reference
19	was made to what he'd said in his Penrose statement,
20	and he was asked essentially to expand upon that. If
21	we go over the page I won't read all of it, but he
22	says in paragraph 42:
23	"In 1982, AIDS seemed to be confined to
24	homosexuals, Haitians and haemophiliacs it was
25	hard for many to accept that transmission by body
	11

1	had been triggered, as we see from the 1981 documents,
2	by concerns about hepatitis transmission, albeit, as
3	Dr Smith's evidence as a whole makes clear, it was
4	then the advent of AIDS that really galvanised and
5	introduced a sense of greater urgency and indeed which
6	led, in due course, to the focus upon heat treatment.
7	And I won't go to it, but it's paragraph 103 of
8	Dr Smith's statement to this Inquiry in which again he
9	says in terms: AIDS bought about a greater degree of
10	urgency to the work.
11	So if I turn then just to a handful of
12	references in Dr Smith's evidence about the developing
13	awareness of AIDS. If we go to his first Penrose
14	statement which is PRSE0004045, and if we turn to
15	page 8, what we'll see in a moment is a couple of
16	passages in Dr Smith's evidence which again draws
17	a degree of distinction between what he says
18	fractionators thought about AIDS and the possible
19	connection with blood and what his perception was of
20	the position of clinicians on that same issue. So if
21	we pick it up towards the bottom of that page, the
22	penultimate paragraph in bold italics, he says this:
23	"There was some resistance among haemophilia
24	clinicians to the idea that AIDS was caused by
25	a blood-borne virus."

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fluids could be a common factor. As more and more 'categories' and individuals acquired symptoms of AIDS and the subversion of the immune system began to dominate many investigations, it became easier to see that as the key". Then he refers to a counter-hypothesis. Paragraph 43, he provides some further observations about what was essentially the counter-view, the counter-hypothesis. So we see, for example, he talks in the fourth line about some US companies encouraging the belief that "junk protein" was causing immunological damage and describes resistance to a viral cause alone, continuing after the Montagnier publication. If we pick it up in paragraph 44, he says this: "I imagine that by 1983 most blood transfusion professionals had concluded that the patterns of AIDS transmission strongly suggested involvement of a blood-borne virus." And then he refers to the Barré-Sinoussi

1	sorry. If we just look at the bold question
2	beforehand, Paul. There's a reference again there to
3	Dr Smith's Penrose statement, reference to the
4	Groningen Conference in November 1984, and he says
5	there he's referring to fractionators:
6	" not to those clinicians whose long
7	resistance to the viral hypothesis was well
8	established."
9	So, again, there appears to be a distinction
10	being drawn in Dr Smith's mind between the approach of
11	fractionators and the approach of clinicians.
12	And then, finally, in terms of references to
13	understanding of AIDS, if we go to PRSE0006059. This
14	is just a short reference in Dr Smith's oral testimony
15	to the Penrose Inquiry. If we go to page 71, we can
16	see from line 6, we've got there the publication date
17	for the article that Dr Smith had been referring to,
18	20 May 1983. And then lines 12 to 14, Dr Smith was
19	asked about when he first heard about AIDS:
20	"When you first heard about AIDS and more
21	particularly heard about people with haemophilia
22	having AIDS, can you remember what your reaction was?"
23	And his response was:
24	"I first heard about it from my American
25	colleague who brought back a cutting from the Boston

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If we start with PRSE0006059. I think it's the 1 2 document we just had up. Yes, if we go to page 42, we 3 can see there that Dr Smith was asked in the course of 4 his testimony to the Penrose Inquiry about the Lister 5 Institute and the facilities he described there; the 6 site moving to Elstree. 7 Then if we go to the next page, we pick it up at 8 line 9. He says, "It", and he's talking there about 9 BPL: 10 "It had its share of tin huts, but the fractionation was slightly more salubrious than that. 11 12 At the time I went to Oxford [that was 1975 when he 13 joined Oxford], research had been confined to the tin huts, and we were operating in reasonable 14 circumstances, although all was tightly circumscribed 15 16 by the breadth of our ambitions and the space we had 17 to work in." 18 Then the Chair posed the observation: 19 "And the narrowness of your pockets." 20 Answer: "Indeed." 21 Then Dr Smith continued: 22 "I should perhaps say that blood transfusion in 23 Oxford at that time was operating in twin Nissen huts 24 on precisely the same site, and there was an infamous 25 Oxford triangle [so that picks up on the virtuous 15

1 Globe. I did not hear about AIDS through the 2 scientific literature first." 3 He was asked if he could remember when that was 4 roughly, and answered: 5 "Perhaps even 1982." 6 And then if we just go over the page, he goes 7 back at lines 10 to 14, or he is asked again about the 8 publication in May 1983. He says -- he's asked: 9 "You recollect ... the publication ... was taken 10 by transfusionists as strong support for a working 11 hypothesis, that is a working hypothesis for a 12 blood-borne virus being involved?" 13 His answer is: 14 "Exactly." 15 So that's a flavour of what Dr Smith had to say 16 in his various statements and oral testimonies about 17 his understanding in relation to AIDS. What was done 18 in response to that in terms of the viral inactivation 19 programme, I'll come on to shortly. 20 The third theme I want to explore through 21 Dr Smith's evidence is the question of the facilities 22 and resources available at PFL and BPL. We'll no 23 doubt be able to hear more evidence about that from 24 Dr Snape in due course, but we can get some of what 25 Dr Smith had to say from various sources. 14 1 triangle which we looked at yesterday in his witness 2 statement to this Inquiry] which served later for 3 self-sufficiency in England." 4 If we just carry on, he talks about the plasma 5 being: 6 "... collected in great amounts by the very 7 willing and helpful Transfusion Service. It was 8 fractionated in the fractionation lab 50 yards away in 9 a brick building and infused into patients 20 yards 10 away. It was a lovely model of what can be done if 11 everyone gets behind it." 12 That may cast some further light upon what we 13 were discussing yesterday, sir. Then if we go towards the bottom of this page, 14 15 he was asked again some questions about facilities at 16 Elstree building works being undertaken, and at 17 line 17 said this: 18 "I'll try and be brief and non-committal about 19 this, but in 1978 or early 1979 for the first time the 20 medicines inspectors were allowed into BPL which had 21 hitherto, under the previous director operated --22 insisted on operating under Crown immunity. It was 23 plain to progressive people that this was not going to 24 last forever. Crown immunity was going to be removed 25 from little pharmacies and equally from fractionation 16

4	lakaastariaa ayaatu dhu. Dahyataathu tha madisiyaa
1	laboratories eventually. Reluctantly, the medicines
2	inspectors were allowed in, did not like what they
3	saw, perhaps especially in the coagulation factor
4	side. The Medicines Inspectorate were very helpful in
5	explaining to us what was required in 1979."
6	Then he goes on to talk about the need,
7	essentially, for further work to be undertaken, and
8	a reference to "Mark 1" programme.
9	And then if we just go a little further down the
10	page, please, Paul. Perhaps I can pick it up at
11	yes, if we pick it up at line 13, and he refers to
12	the what he described as the:
13	" crash programme of renovating, improving
14	the existing premises"
15	Then he refers to being seconded from Oxford to
16	start both these exercises as they concern insofar
17	as they concerned coagulation factors:
18	"We had at the same time as continuing to reduce
19	Factor VIII and Factor IX [I think that should be
20	'produce' rather than 'reduce'] in less than perfect
21	circumstances to rebuild step by step or at least
22	improve the facilities in each area in turn. This was
23	a very difficult programme."
24	Then he explains that:
25	" the old building had to continue to process
	17
	17

1	sense of the fairly limited numbers of staff involved.
2	Picking it up fourth line down fifth line down
3	"The only full-time member of staff in R&D at
4	the beginning of 1983 was Mrs Lowell Winkelman who had
5	considerable experience as an R&D scientist, though
6	possibly not initially employed under that title. She
7	had to work on both Factor VIII and Factor IX until in
8	early 1983 we had permission to recruit Dr Peter
9	Feldman both scientists quickly absorbed our
10	policy of seeing a candidate product from the lab
11	bench through to large-scale production at BPL by way
12	of PFL's pilot-scale production. PFL followed
13	a principle of using industrial equipment which could
14	be easily scaled up at BPL. This integrated approach
15	was reinforced by constant interaction between R&D,
16	pilot plant and the QC analytical lab on site one
17	of the few benefits of having limited staff and
18	space and was happily assisted by the generous
19	personalities of the main players."
20	Then the next paragraph explains that there was
21	an absence of permanent technical staff, so he says:
22	"Another unusual feature of PFL in that period
23	was that the R&D scientists had no permanent technical
24	staff. Instead, the production staff, many of whom
25	were of an enquiring mind, were given a chance to
	19

1	plasma much later than hoped because the building
2	programme for the new BPL took rather longer than
3	planned."
4	So those were some observations in the oral
5	evidence to the Penrose Inquiry.
6	If we then turn to back to Dr Smith's
7	statement to this Inquiry, WITN3433001 and we go to
8	page 28, please. There are then some further
9	observations that Dr Smith made in response to
10	a question about the resources available for research
11	and development at BPL and PFL. And he said this,
12	paragraph 83:
13	"When I came to PFL in 1975, there was no
14	recognisable R&D department at BPL. Any coagulation
15	factor development being done was in the margins of
16	production. Dr MJ Harvey was appointed head of R&D at
17	BPL around 1980 and set up labs and staff for this
18	purpose."
19	Skipping over a sentence:
20	"Effectively, however, all work on coagulation
20	factors was delegated to PFL."
22	And then if we look at the bottom of the page,
23	he talks about taking de facto charge of R&D resources
24	at PFL when Dr Bidwell retired.
25	If we go over the page, we then get a further
20	
	18
4	
1	collaborate on lab-scale work with the scientists,
2	being released for about a day a week as production
3	schedules permitted and as an R&D project matured. I
4	would estimate today that on average the scientists
5 6	had technical assistance one or two days a week."
0 7	He then in the next paragraph sets out the
	advantage of having close interaction with the Oxford
8	Haemophilia Centre.
9	If we then go over the page, there's
10	a description in paragraph 87 I'm not going to read
11	it, but I draw attention to it of the
12	infrastructure at PFL.
13	At paragraph 88, explains there were no:
14 45	" facilities or staff for virus work at PFL,
15	and none at BPL capable of handling highly pathogenic
16	viruses until completion of the new R&D department in
17	the late 1980s."
18	There's then a description of the QC lab under
19	Dr Snape, but I'll leave that because we're going to
20	be hearing directly from Dr Snape.
21	Then if we go to the next page, paragraph 90, he
22	talks here about facilities at BPL. Picking it up in
23	the third line:
24	"The citation from my evidence to the Oral
25	Hearings in Penrose emphasises the defining limitation
	20 (5) Pages 17 - 20

			· ·
1	on our pasteurising work we knew that it could not	1	new BPL."
2	be exploited at BPL until the new plant had been	2	So there was some of the physical constraints.
3	completed and qualified."	3	However it is only fair to point out that
4	Then he explains why pasteurisation required	4	Dr Smith then continued:
5	facilities that BPL did not have.	5	"I believe I kept abreast of the
6	If we skip down a few lines he explains it was	6	virus-inactivation field throughout and would like to
7	impossible to install such a facility in the existing	7	think that, if there had appeared any chink of light
8	buildings at BPL, and then goes on to explain, by	8	about how we might tackle NANBH, I would have noticed
9	contrast with pasteurisation, in relation to the dry	9	it and acted accordingly. In the very early 80s, more
10	heating what was required was the large scale ovens in	10	time would not necessarily have meant more
11	order to scale up the work on 8Y and 9A.	11	inspiration. I would like to have had the kind of
12	If we then go to page 33, paragraph 93, I'm not	12	physical facilities necessary to exploit
13	going to read this out but just to note there is	13	pasteurisation, and it is conceivable that had PFL
14	Dr Smith's observations comparing the facilities at	14	been able to combine efforts with PFC we might both
15	PFL and BPL with the facilities at PFC, where he said	15	have arrived at a common goal sooner, but even in
16	space had been allowed for R&D and private operations.	16	retrospect that seems unlikely. As it happened, it
10	Then if we go to page 34, paragraph 95, he says	10	was fortunate that we pursued complementary
18	this:	18	approaches."
19	"Obviously, if the new BPL had already been	19	And then finally in this document, page 36. He
20	built by, say, 1980, people like me would have had	20	was asked the question of whether there'd been more
21	a more orderly life and might have been able to create	21	resources available to those working on heat treatment
22	more options for virus reduction. As it was, we spent	22	and would effective heat-treated products have been
23	a lot of time working around builders renovating the	23	produced at an earlier date? To which his answer is
24	old premises and in introducing training in modern	24	essentially he doesn't think so. Obviously, sir,
25	pharmaceutical practices in preparation for the	25	these are all matters for you to assess looking at all
	21		22
1	the available evidence, but this is what Dr Smith had	1	Sir, the next theme arising out of Dr Smith's
1		1	-
2	to say:	2	evidence relates to the relationship between PFL and
3	"A number of things would have been 'nice to	3	BPL on the one hand and the PFC in Edinburgh on the
4	have' and might have made us more confident of	4	other.
5	success, but would not have accelerated the programme	5	You will hear, both when we look at Dr Lane's
6	significantly. More coagulation assays might have	6	evidence later today, and when we look at
7	allowed us to optimise parts of the process more	7	self-sufficiency and domestic production in Scotland
8	thoroughly, but with 8Y our path to successful	8	and Northern Ireland next week, some evidence of
9	purification and formulation, which usually call for	9	a degree of tensions between PFC and BPL, at least in
10	much laborious trial and error, was remarkably smooth.	10	relation to the relationship between Dr Lane and
11	The hitches which always appeared during scale-up were	11	Mr Watt. It's right, however, to note that Dr Smith's
12	few and relatively easily solved. Having our own	12	evidence, both to the Penrose Inquiry and in his
13	facilities on the BPL site for virus spiking, etc,	13	statement to this Inquiry, painted a more harmonious
14	might have allowed us to cover more variables and to	14	picture in terms of his own dealings, in particular
15	measure the additional inactivation achieved at higher	15	with Dr Foster. And of course we'll be hearing from
16	temperatures, but would not have led to earlier	16	Dr Foster next week and we'll be able to see what
17	availability of our severely-heated 8Y and 9A."	17	Dr Foster has to say about that.
18	So there is Dr Smith's response to the question	18	And so if I can just pick up a couple of
19	posed. You'll obviously hear and be able to hear	19	references in Dr Smith's statement to this Inquiry.
20	directly from Dr Snape his own recollection, from	20	So if we can have back WITN3433001, please,
21	a slightly different perspective because obviously his	21	Paul. If we go to the bottom of page 21, please.
22	involvement was essentially in relation to quality	22	What Dr Smith said in paragraph 66 at the bottom
23	control, but he will be able to tell his recollections	23	of the page was this:
24	of the facilities available at both PFL and BPL prior	24	"I was the main PFL/BPL link to our friends in
25	to the redevelopment.	25	PFC and their work, sharing with them anything which
	23		04
			24 (6) Pages 21 - 2

"some of the most important and tangible debts we owed to PFC". Don't need to go through all of those, but I think I'll perhaps just pick up a couple of them so

"- Providing details, as PFC work developed, of

"- Sharing early Reports from some conferences

"- Sharing access to the dog DIC trials which

So those are some practical examples which

That reference will become clearer when we look

promising pasteurisation processes for F.VIII and

which we could not attend, most significantly concerning Behringwerke's progress on pasteurising

F.VIII, and Rubinstein's on dry-heating.

confirmed that 9A was not thrombogenic."

at the heat treatment work in relation to Factor IX. "- Sharing the results of PFC's attempts to explain the resistance of 8Y and other formulations to

Dr Smith listed of information sharing, et cetera, between the scientists at PFL and the scientists at

the relationship between BPL, PFL and PFC: 26

relation to Factor IX and we will see, in the second paragraph under the heading "Factor IX", it says:

inactivation" suggests there was a discussion about what else was going on outside of Edinburgh, outside of Oxford and Elstree, so there's a discussion of what it's thought is being undertaken by the commercial

I just draw attention, I don't think one can necessarily make much of it, but the very last few lines on that page you'll see the reference to Immuno,

"... (unconfirmed speculation from Dr Boulton's notes of Immuno's recent seminar -- is the Chairman,

I don't know whether that's a reference to the January 1983 meeting at London Airport. It may well

Then if we go over the page, under the heading

pharmaceutical companies.

and then it says:

be.

"We agreed to continue sharing information on

And then the heading "Other information on virus

Then if we go to page 35, please, Paul. Paragraph 98, Dr Smith said this in relation to

the third bullet point:

high temperatures."

PFC.

this."

F.IX.

1	I thought might help their endeavours on the	1
2	pasteurisation option. As time went on, our	2
3	respective scientists were encouraged to form their	3
4	own links with each other, but factual communication	4
5	was normally between me and Dr Peter Foster or	5
6	with our blessing. Such exchanges were not scheduled	6
7	on a regular basis, and never sought to change the	7
8	other's policies or strategies. However, we could be	8
9	confident that the lines PFC were following were in	9
10	the most competent hands, so that we did not have to	10
11	duplicate their efforts It always seemed that our	11
12	confidence was reciprocated. Those at BPL and PFC who	12
13	were formally in senior positions to ourselves	13
14	appeared to understand the nature of our	14
15	co-operation."	15
16	As I say, we'll look at what the perception of	16
17	Dr Lane and Mr Watt might have been in relation to	17
18	those issues but Dr Smith paints a picture of there	18
19	being certainly a degree of dialogue and sharing of	19
20	information between him and his scientific colleagues	20
21	with Dr Foster at PFC.	21
22	SIR BRIAN LANGSTAFF: And mutual respect.	22
23	MS RICHARDS: And mutual respect.	23
24	Then if we go to page 32 in the same document,	24
25	we can see that Dr Smith listed what he said were	25
	25	
1	", it should be clear that this relationship	1
2	" it should be clear that this relationship was extremely rewarding, at first in PFL's favour, and	2
2	perhaps more equally when NANBH was eclipsed by AIDS	2
4	and we both had to accelerate exploitation of our	4
5	dry-heating experiences."	4 5
6	A contemporaneous example of discussions between	6
7	Oxford and Scotland appears in a note from Dr Smith at	7
8	CBLA0002481.	8
9	Sir, you'll see if we look at the head of the	9
10	page, this is a memo from Dr Smith, 15 February 1983,	10
11	to Dr Harvey, Dr Lane, Dr Snape and others at BPL,	18
12	headed "Visit to SNBTS Protein Fractionation Centre	12
13	and Headquarters Seminar February, 1983", and he	13
14	says there:	10
15	"The first day was spent with Dr Foster and	15
16	Dr McLeod of R&D Department mainly on heat	16
17	inactivation of hepatitis viruses in coagulation	10
18	factor concentrates, under the protection of glycine	18
19	and sorbitol."	19
20	Then I don't think we need to go through it any	20
21	particular detail, but we can see from the headings	21
22	there was a discussion about the work being undertaken	22
23	in relation to Factor VIII.	23
24	We can see from the next heading there's	24
25	a discussion about the work being undertaken in	25
	27	
	2 1	

paragraph again	this is relevant to	the question of
	28	(7) Page

"Miscellaneous", if we just look at the last

Professor Bloom, reporting to us?)"

SIR BRIAN LANGSTAFF: It sounds like it. MS RICHARDS: It does sound like it.

(7) Pages 25 - 28

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'furtive'."

that he, Dr Smith:

I think, rather than terms which the Penrose Inquiry

had used. So the first is "The Huff". I'm not going

referenced here, but we can, I think, get a sense of

what Dr Smith was referring to. He refers to a note

a history of cross-border negativity. The same Note

also unwittingly reveals prejudices of the kind which

may explain why some Scottish 'bridges' might end in

mid-air, having neglected or hindered the construction

of a pier on the opposite bank. One might speculate that 'senior levels' may felt able to maintain

they would not be identified with interrupting

scientific and technical progress."

PFC and BPL.

uncompromising positions, secure in the knowledge that

Then he refers to an apparent impasse between

So without wanting to anticipate evidence that

What Dr Smith then goes on to say in this note

we may hear in due course, there is a sense of some

it didn't translate into any impediment to the working 30

Jim Smith and Peter Foster, however good they may be,

as a sound basis upon which the NHS fractionators can

"I continued to be puzzled by Dr Cash's term

Then he refers to the establishment of a group

of which Dr Foster was an active member, and he says

"... was in touch with other members of the Group throughout the period of interest, and that was

And it's right to note that Dr Lane also said there was nothing furtive. We knew that Dr Smith and

Then if we go over the page, if we just pick up

"PRF [Dr Foster] is offering encouraging results

the second box, this refers to a letter from Dr Foster

to Dr Smith. We don't need to look at the underlying

letter but the general observation that Dr Smith made,

very freely, and it would seem that I was responding

and this is the third line of the italicised section:

in kind, since he raises topics obviously of

continuing interest to both of us. The final

degree of difficulty, some degree of hostility in

relationships between PFC and BPL or PFL.

is that certainly didn't translate -- if it existed,

Dr Smith's observation is this:

combat the commercial people."

never characterised as furtive."

Dr Foster were in contact.

"Dr Cash puts at least the Scottish case for

to go through the various documents which are

from Dr Cash and says:

1	sharing of information between the different
2	organisations Dr Smith says:
3	"I was given a copy of PFC's 1982 R&D reports
4	without strings. I propose to acknowledge receipt
5	formally, keep custody of the collection, but
6	obviously interested parties will wish to consult
7	them. I will circulate copies of contents."
8	So, again, we can no doubt explore that further
9	with Dr Foster next week, but that was Dr Smith's
10	recollection of that particular visit.
11	Then, finally, Dr Smith's evidence to the
12	Penrose Inquiry looked at the question of the
13	relationship between England and Scotland in this
14	regard. It was obviously a matter of greater concern
15	to the Penrose Inquiry, so there were a number of
16	questions that Dr Smith was asked about the extent to
17	which there was any degree of working together between
18	the different fractionation centres. And you'll
19	recall that Dr Smith produced a supplemental note
20	which addressed this issue specifically.
21	So if we go to that, please. It's PRSE0004368.
22	Page 8. So this was Dr Smith's supplemental
23	note 6 on "Collaboration between PFC and PFL/BPL in
24	the period 1981-87".
25	You'll see the headings in Dr Smith's terms,
	29
1	relationship and sharing of information between him
2	and his colleagues and Dr Foster and his colleagues.
3	And I'm not going to go through the note in any
4	detail. It would take too long to read out. But we
5	can see, for example, if we just go to the bottom
6	paragraph on this page, he refers to Dr Foster
7	generally keeping information on pasteurisation
8	flowing, he talks about PFC keeping him informed of
9	various approaches that they were undertaking, and so
10	on.
11	Then, finally on this topic, again as part of
12	the Penrose evidence, if we go to PRSE0002057.
13	These are, as we saw yesterday, Dr Smith's
14	comments on a chronology put together by the Penrose
15	Inquiry.
16	We just go to page 3. If we look towards the
17	bottom of the page, you will see there a reference,
18	and I'll pick it up, I hope, when we get to the
19	statement of Dr Lane, but there was a reference to
20	there being "furtive arrangements" between Dr Smith
21	and Dr Foster, and you can see, this is from Dr Cash,
22	just above the italicised passage, it says:
23	"It is my intention to see what I can do to
24	build these bridges. I do not regard the existing
25	furtive arrangements, as regards factor VIII between
	31

(8) Pages 29 - 32

1	and we knew there would sometimes be limitations on	1	topic.
2	sharing."	2	We can pick it up in his statement to this
3	And then yes, sorry, if we just go towards	3	Inquiry at WITN3433001, page 41.
4	the bottom of the page, it's the third box from the	4	You'll see he identifies three different kinds
5	bottom. There's reference to another letter from	5	of starting pool: normal pools, that's paragraph 114;
6	Dr Foster to Dr Smith, this is in May of 1983, and	6	small pools, 115; and then, if we just briefly go to
7	Dr Smith's italicised comment is:	7	page 43, at paragraph 120, limited-donor pools.
8	"Illustrates continuing expectations of shared	8	So those are three types of pools which Dr Smith
9	interests and free contact at a scientific level	9	then described further in his statement.
10	with BPL as well as with JKS [Dr Smith] at PFL."	10	If we go back to page 41, I'm going to start by
11	That's Dr Smith's account or a potted summary of	11	looking at what he said about normal pools. So he
12	Dr Smith's account of the relationship from his	12	said this in paragraph 114:
13	perspective, at least with his scientific colleagues	13	"Unless noted below, the default pool size was
14	in Edinburgh.	14	200 L (containing about 800 single donation) at PFL,
15	Sir, the next topic to touch on relates to some	15	and up to 1500 L (about 6,000 donations) at BPL."
16	observations Dr Smith made in his statement to this	16	So that was the normal size: 800 at PFL and
17	Inquiry about pool sizes and some of the specific work	17	6,000 at BPL. It does change from time to time but
18	that was then undertaken at PFL in relation to what	18	I'm not going to try to pick up that level of detail
19	was described as "limited-donor" or "restricted-donor	19	today.
20	pools".	20	The standard product produced at PFL and at BPL
21	There will be a broader look in the course of	21	was made from these normal pools. So HL was produced
22	one of next week's presentations for widely at pool	22	by BPL from these normal pools, 8CRV was produced at
23	sizes, so I'm not going to seek to anticipate that,	23	PFL from these normal pools.
24	but I am just going to draw your attention to what it	24	Then if we go to page 44, we can see I don't
25	is Dr Smith said in his witness statement on the	25	need to read it, but at paragraph 121 Dr Smith set out
20	33	20	34
			01
1	the products that were made from the normal pools, the	1	So if we start with CBLA0001342_001.
2	standard vial of intermediate purity concentrate.	2	No? Ah. Do you have BPLL0007526, Paul?
3	And then if we go to I'm sorry, I've missed	3	Before we look at the document that we do have,
4	the reference. I can give you the reference in the	4	I'll just tell you what the other document is and if
5	presentation in any event.	5	necessary we can produce it for display after the
6	Although the PFL pools were smaller than the	6	break.
7	BPL pools, Dr Smith said they were never less than	7	The first document I referred to, and the
8	300 donations, and at no time fitted within	8	reference for the transcript is CBLA0001342_001, is
9	a definition of what would be described as a small	9	a document authored by Dr Smith, 27 April 1981. And
10	pool.	10	it's called "A comparison of freeze-dried concentrate
10	So that's the position in relation to the bulk	10	and intermediate purity concentrates as major products
12	of the factor concentrates produced by PFL and BPL.	12	for national self-sufficiency in Factor VIII".
13	If we then look at Dr Smith's observations about	13	I think I can probably just tell you what's in
10	small pools.	14	it without the need to show it to you. It contains
15	If we have the statement back onscreen, Paul,	15	a discussion by Dr Smith of frozen cryoprecipitate.
16	and go to page 41.	16	It then sets out his knowledge of production of small
10	So there's a description in paragraph 115 and	10	pool freeze-dried cryoprecipitate in other countries;
18	over the page about small pools. I don't propose to	18	in particular Netherlands, Finland and Switzerland are
10	look at that in any detail this morning because what	10	referenced.
20	Dr Smith there sets out, as his statement makes clear,	20	
20	was not actually something that was in use at either	20	He then talks about some use of large pool freeze-dried cryoprecipitate and different approaches
21	PFL or BPL.	21	being taken in Belgium and in France, and then talks
22		22	about intermediate purity concentrate made from larger
23 24	There are two contemporaneous documents which contain some discussion about issues relating to pool	23 24	pools, which obviously was the product that was the
24	contain some discussion about issues relating to poor	24	pools, which obviously was the product that was the
25	sizes, however.	25	product being produced at PFC and BPL.

(9) Pages 33 - 36

		4
1 2	He undertakes a comparison of the relative	1 2
2 3	Factor VIII yields of the two different types of product, the freeze-dried cryo on the one hand and the	3
4	intermediate purity concentrate on the other and then	4
5	I'll just read his conclusion, which is short, before	5
6	we then look at the document on screen. He said:	6
7	"Small pool frozen or freeze-dried	7
8	cryoprecipitate has unique advantages for patients	8
9	needing only infrequent treatment. The best means of	9
10	meeting these requirements will receive more detailed	10
11	consideration so that the conflicting aims of	11
12	Factor VIII yield pool size, manufacturing, hygiene	12
13	and quality control can be reconciled. However,	13
14	a close examination of yields taken with a consensus	14
15	of opinion on the relative safety and convenience of	15
16	the two kinds of product supports the conclusion that	16
17	the major component in our national strategy for	17
18	Factor VIII production should be intermediate purity	18
19	concentrate."	19
20	So I draw attention to that because it's a 1981	20
21	comparison by Dr Smith of concentrate versus small	21
22 23	pool cryoprecipitate, with a knowledge of what was being undertaken in some other European nations. But	22 23
23 24	with Dr Smith suggesting that the major component of	23
24 25	the strategy for England and Wales should be the	24
20	37	20
	57	
1	Then if we go over the page, there's	1
2	a discussion under the heading "Plasma sources" about	2
3	plasmapheresis as a major source of plasma for Factor	3
4	VIII. He refers to a practice in Belgium of a small	4
5	panel bled at 10 litres per annum, and then sets out	5
6	a number of other considerations in that regard.	6
7	Then we have the heading "Fractionation	7
8	technology", and there's a discussion of small-volume	8
9	pools, eg 2kg or ten donations.	9
10	Then if we go to the next page, a discussion of	10
11	larger pools. And then he says:	11
12	"This approach is dependent on the kind of	12
13 14	intensive plasmapheresis programme operated in	13 14
14	Belgium, and some dilution of the current concept of	14
16	'accredited' pools, but would approximate more closely to a defensible process for central fractionation."	15
17	So it was a discussion document looking at the	18
18	possibility, as I read it, of the use of substantially	18
19	smaller pools. Dr Smith's statements, however,	19
20	explained that this was not something that was ever	20
21	put into operation at PFL or BPL.	21
22	I think I don't have the reference or maybe	22
23	I do. Sorry. If we go back to his witness statement	23
24	to this Inquiry yes, perhaps I can just pick it up	24
25	at page 43, paragraph 119.	25

product	tion of Factor VIII concentrates.
	And I should say that document was a draft
	ed for a working party on plasma supply.
	We can then, if we look at the document
onscree	en, see a further memorandum from Dr Smith to
Dr Lane	e dated 29 April 1981 on essentially the same
topic:	
	"Small-pool freeze-dried cryoprecipitate and
other si	mall-pool products."
	You'll see he refers in the first paragraph to
a meeti	ing that took place on 23 April 1981, with
•	entatives of the National Blood Transfusion
	and the DHSS. Reference to Haemophilia Centre
Directo	r representatives stating their preference for
	diate purity concentrate as the major component
in the n	ational supply of Factor VIII. But there's
then a o	discussion about the availability of a degree
of cryo	precipitate.
	And so there's then a discussion under the
	g "Product specification":
	"How should we 'design' this product in response
	tated needs?"
	There's a number of references there set out.
	ee the reference to pool size, and a reference
there a	gain to the pools in France and Belgium.
	38
	He described this, in paragraph 119, as:
	" one aspect of [his] contingency thinking in
the very	y early 1980s, unable to see on the horizon
a quick	solution through validated screening of
donatio	ns or some yet-unspecified means of
inactiva	ating NANBH, which at that time posed the most
immedi	ate threat."
	So this was a thought process consideration, but
not acti	ually put into practice, even as a contingency
measur	e.
	What was done on a limited basis at PFC is what
Dr Smit	th described as the use of limited-donor pools.
	So Paul, if we have the witness statement back
on page	e thank you.
	,
	So paragraph 120 refers to the limited-donor
pools.	
•	
paragra	So paragraph 120 refers to the limited-donor And if we go over the page, we can see at aph 123 he says in contrast to the small
paragra	So paragraph 120 refers to the limited-donor And if we go over the page, we can see at
paragra pools a develor	So paragraph 120 refers to the limited-donor And if we go over the page, we can see at aph 123 he says in contrast to the small t paragraph 122, where he says that was never bed, at paragraph 123 he describes how a small
paragra pools a develor	So paragraph 120 refers to the limited-donor And if we go over the page, we can see at aph 123 he says in contrast to the small t paragraph 122, where he says that was never
paragra pools a develop numbei	So paragraph 120 refers to the limited-donor And if we go over the page, we can see at aph 123 he says in contrast to the small t paragraph 122, where he says that was never bed, at paragraph 123 he describes how a small

plasma". What this was, was an arrangement for the collection of plasma organised through Dr Angela

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1	Robinson, whereby, at her Transfusion Centre, in
2	Leeds, plasma was collected by plasmapheresis from
3	experienced blood donors whose last four blood
4	donations had elicited no case of symptomatic
5	hepatitis in their recipients. And they were dubbed
6	"Green 4 donors". The donations would be quarantined
7	for a period of six months in case there was the
8	intrusion of a late infection of hepatitis.
9	So it's somewhere referred elsewhere referred
10	to as "restricted-donor" or "restricted-panel", so
11	there isn't an entirely consistent use of terminology,
12	but the terminology adopted in Dr Smith's statement to
13	this Inquiry is to refer to them as limited-donor
14	pools. Only the Leeds Regional Transfusion Centre was
15	involved in collecting the Green 4 plasmapheresis
16	donations.
17	Dr Smith's recollection in his statement was
18	that the plan was for these products to be used by
19	Dr Rizza in the Oxford Haemophilia Centre, mainly to
20	provide an insight into whether that method of
21	recruiting or obtaining plasma from repeat donors who
22	were thought to have a reduced risk of hepatitis might
23	make a difference to non-A, non-B infection rates for
24	at least the most susceptible patients.
25	Dr Smith's recollection was that Dr Rizza
	41
1	been the recruitment and training of the teams of
2	appropriate staff.
3	And then paragraph 156, he confirms the proposal
4	or the consideration of the project overtaken by the
5	virus inactivation measures, by which he is referring
6	to heat treatment.
7	That then leads neatly to the question of heat
8	treatment, in which Dr Smith was very closely involved
9	in terms of the work undertaken at PFL.
10	As you will have heard from Mr Hill in the
11	course of this week, there were essentially three
12	different ways in which heat-treated product was made
13	available through PFL or BPL. There was a very
14 15	limited trial of heating 8CRV, and I'll pick up upon
15 16	a number of references in late 1983, which led to that
16 17	product being given heated to three patients but only
18	three patients in March of 1984. So that was the
10	first time heated BPL, or PFC products I should say sorry, PFL products were used in patients.
20	
20	There was then, in the later part of 1984 into 1985, as Mr Hill explained, the products of 8CRV and
21	HL that were held in stock, or were in the pipeline,
23	were heated as an interim measure whilst the
23	production of 8Y was being scaled up. And then,
25	finally, there was the production of 8Y rolled out in
20	43

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1	reported verbally to him some apparent transmissions
2	from this product which would be consisted with one or
3	two of even these highly selected donors being
4	infective. What Dr Smith then said in his statement
5	was that this project, this Green 4 restricted pool
6	project, then essentially became caught up in the
7	demand for heated products and essentially was
8	overtaken by heat treatment.
9	If we then, just on the question of whether this
10	is a trial that could have been scaled up to a larger
11	scale in the 1980s, Dr Smith said this I'll just
12	find the reference. Page 54. He suggested in
13	paragraphs 154 and 155 of his statement that it
14	wouldn't have been feasible to produce Green 4
15	products on a larger scale. He said in paragraph 154:
16	"It would have taken almost as much equipment
17	and trained staff to process each of the [smaller]
18	pools as to process a single [larger] pool. The QC
19	burden rises"
20 21	So he says it wouldn't have been feasible at
21	BPL's scale. At paragraph 155: "BPL could not have accommodated the staff and
22	equipment to run multiple 100-litre pools of
24	accredited plasma."
25	And he suggests another major issue would have
20	42
1	the course of 1985.
2	I'm going to ask you to look now at Dr Smith's
3	1990 draft proof of evidence at CBLA0000016_034. This
4	contains, of all his various statements and oral
5	testimonies, the most detailed account of the work
6 7	undertaken in relation to heat treatment. We pick it up at page 12. He explained in
7 8	
0 9	paragraph 30 and, again, one must obviously understand this was a draft statement never finalised.
9 10	and so on, but Dr Smith said no reason to think it was
10	inaccurate. He said in paragraph 30:
12	"My involvement with the idea of heat treatment
13	can be traced back to 1981, during the course of which
14	I reviewed potential research and development work."
15	And he refers to, in the documentation at the
16	time, passing reference to heat treatment. That may
17	be a reference to the documents that both Mr Hill and
18	l have shown you from 1981.
19	He then said in paragraph 30:
20	" it was not until November/December 1982
21	that heat treatment began to emerge as a topic for
22	further study. At about the same time, we thought of
23	the possibility of using small pools of donations from
24	donors with a long history of trouble-free donations
25	to provide plasma."
	4.4

(11) Pages 41 - 44

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1	And that's the reference to the Green 4 plasma
2	that I spoke about a few minutes ago.
3	He then in paragraph 31 said this:
4	"At the time, we had no research and development
5	virology capability at PFL or BPL. The initial
6	catalyst for starting experimental work on heat
7	treatment was informal contact between the Plasma
8	Fractionation Centre in Scotland and PFL in about
9	November 1982. During the summer of 1982, we'd begun
10	to get word of some success in the field of heat
11	treatment through the usual gossip at scientific
12	meetings, and in November 1982, Dr Peter Foster at PFC
13	telephoned me to discuss some work which they were
14	doing on the heat treatment of Factor IX."
15	Dr Smith then said in paragraph 32:
16	" worth putting the commencement of this
17	activity in the context of some commonly held beliefs
18	in 1982."
19	If we go over the page. I'm not proposing to
20	read these aloud, but it's important to note what he
21	set out in paragraph 33 was a concern or view or
22	attitude at the time that Factor VIII could be
23	modified by processing in a way that could potentially
24	be harmful. So that was one of the underlying
25	concerns.
	45

1	And then if we go to the top of the next page,
2	we can see Dr Smith said in relation to pasteurisation
3	and BPL this. He said:
4	"This [that's a reference to potential problems
5	of re-contamination] was compounded by the fact that,
6	at the time, the BPL production facility had been
7	criticised by the Medicines Inspectorate. The basic
8	problem with pasteurisation, as perceived at the time,
9	was that Factor VIII would not survive the process
10	without the addition of non-physiological
11	concentrations of preservatives which might also have
12	the effect of preserving the very viruses the process
13	was being used to destroy."
14	And he sets out a number of other issues
15	relating to pasteurisation.
16	And then if we go to the next paragraph,
17	Dr Smith introduced the idea of dry heating, which we
18	know obviously was a solution that was ultimately
19	adopted:
20	"It was thought that the low water content of
21	freeze-dried Factor VIII would mean much lower virus
22	inactivation efficiency by dry heating than by
23	pasteurisation in solution."
24	Then if we pick it up a few lines from the
25	bottom of the page:

	1
2	page, raises the question of yield, and if we go over
3	the page, whether heating might result in
4	a significant loss of yield of Factor VIII in the
5	heated product.
6	If we then go to page 15, please, Paul,
7	paragraph 37. We looked at the introduction to this
8	paragraph yesterday when considering hepatitis. And
9	then, as I mentioned yesterday, what Dr Smith set out
10	in his draft proof is a range of different potential
11	options in relation to ameliorating the risk of
12	hepatitis.
13	If we go over the page, we can pick up towards
14	the bottom of the page, "Pasteurisation", and then
15	we'll see shortly "Dry heating" on the next page.
16	So Dr Smith described here pasteurisation:
17	" thought to be highly effective against
18	viruses also familiar and acceptable
19	clinicians through its use in relation to albumin.
20	However, there was still no convincing clinical trial
21	at the time that showed hepatitis inactivation by
22	pasteurisation of Factor VIII."
23	There's reference then to what was understood to
24	be the position in relation to the work undertaken by
25	Behringwerke.

And then paragraph 34, just go further down the

"By the summer of 1982, it had been briefly	
reported by scientists working for Hyland that dry	
heating (rumoured to be 60°C for 72 hours) prevented	
the transmission of hepatitis in Factor VIII	
concentrates when the product was used in	
chimpanzees."	
Then he refers to:	
" unconfirmed abstracts presented by	
Rubinstein at a meeting in Budapest in August of	
1982"	
Dr Smith then sets out a number of other	
possible methods of tackling transmission of viruses.	
I don't propose to go through those, but it's right to	
point out that neither pasteurisation nor dry heating	
were the only options under consideration.	
Then we go to the next page. Indeed, this is	
where Dr Smith made that point:	
"It was therefore against this background in	
1982 that thoughts were moving towards heat	
inactivation, but as will be seen from the description	
above, this was only one of a number of potential	
routes to the goal of virus inactivation. It must be	
remembered that the work was undertaken against the	
background of hepatitis B ceasing to be of much	
practical concern and hepatitis non-A, non-B not yet	
48 (12) Pages 45 - 48	
(12) Pages 43 - 40	

1	being recognised for the serious condition it later
2	5 5
	emerged to be. In the circumstances, viral
3	inactivation, whilst desirable, was not an
4	imperative."
5	So it might be thought a sense there from
6	Dr Smith that whilst these were matters that were
7	being considered, discussed, no the practical work
8	in relation to pasteurisation, and in particular dry
9	heating, was still in the future at this point in
10	time, potentially for the reason he described there,
11	that virus inactivation was seen as a desirable goal,
12	but it was the emergence of AIDS which effectively
13	translated it into an imperative.
14	Now, what we then have in Dr Smith's statement,
15	and I'll just introduce this perhaps before we take
16	the break, is a very detailed account drawn, if we
17	look at the bottom of this page, paragraph 41, from
18	what he talked about loose-leaf books describing the
19	8H and 8Y experiments. 8H was essentially a product
20	that was developed in the course of the experiments
21	but never actually went into production, never
22	actually used. And then he describes those loose-leaf
23	books being based in turn on the primary notebooks
24	used at PFL. And what he describes over the page and
25	in the pages that follow is essentially an almost

1	fibrinogen removal."
2	And then this was Dr Smith's comment:
3	"ie, not with a view to inactivating viruses."
4	So that was as at November '82.
5	Then if we go over the page, and look at the
6	entry, third entry down, 15 December 1982, there's
7	reference to a BPL meeting. And then the observation
8	in italics from Dr Smith, as at December '82 is:
9	"E&W [England and Wales] were still far from
10	starting serious work on virus inactivation."
11	So if we then go back to the 1990 proof of
12	evidence, CBLA0000016_034, and we pick it up at
13	page 20, as I indicated before the break, what we get
14	is a detailed description by Dr Smith of the work that
15	was being undertaken.
16	So we can see it really starting in 1983,
17	paragraph 45 refers to the start of the 8H project
18	work taking the form of a proposal prepared by him in
19	around February of 1983.
20	Sorry, we need the paragraph above that, Paul.
21	That's at paragraph 43.
22	And there, the suggestion was to concentrate on
23	"heating in solution", and he refers to that work
24	being assigned to Mrs Winkelman in June 1983.
25	There's a description in some preliminary work

1	month-by-month account of the work that was undertaken				
2	at PFL.				
3	What I'll do after the break, sir, is I'm not				
4	going to read it all out because that would take				
5	a very considerable period of time, but I'll just				
6	headline the various passages and the various				
7	different stages of the work that Dr Smith then				
8	describes. But perhaps I'll do that, given the time,				
9	after the morning break.				
10	SIR BRIAN LANGSTAFF: Yes. Well, we'll take a break now,				
11	shall we, until 11.45. 11.45.				
12	(11.17 am)				
13	(A short break)				
14	(11.45 am)				
15	MS RICHARDS: Sir, before I go back to Dr Smith's 1990				
16	proof of evidence, just to pick up the picture as at				
17	the end of 1982 from a couple of further comments he				
18	made on the Penrose chronology.				
19	Paul could we go back to PRSE0002057, please.				
20	Page 2, the penultimate row, we can see the				
21	entry there is 3 November '82, and the reference is				
22	a letter from Dr Smith to Dr Foster. The quote from				
23	the letter is:				
24	"We are doing a little on heating Factor VIII,				
25	but only for a moment on the gentle conditions for				
	50				
1	being done up to May 1983 in relation to removal of				
2	fibrinogen and fibronectin.				
3	Paragraph 45 talks about experimentation in June				
4	and July 1983.				
5	Then if we go over the page as I say, I'm				
6	just really going to skate over this so you can see				
7	where it is, it really requires to be read at				
8	leisure Dr Smith then describes between August and				
9	December 1983 the work that was being undertaken in				
10	relation to and this is still pasteurisation which				
11	is being explored here, and we can then see,				
12	paragraph 47, he refers to the period January to				
13	July 1984, focused on the problems presented by				
14	fibrinogen before and after pasteurisation.				
15	If we go over the page, paragraph 49 refers to				
16	the period July to October 1984, making batches of				
17	product on a sub-pilot scale.				
18	And he describes this as and this is the				
19	fifth line of paragraph 49 "the very credible				
20	highest point in PFL's development in heating in				
21	solution". And then he explains in the last part of				
22	that paragraph that:				
23	" yield considerations and the difficulty of				
24	protected in bulky solutions of pasteurised				
25	Factor VIII through several stages of downstream				
	52 (13) Pages 49 53				

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1	processing in an elderly facility at BPL told against
2	this approach; no such product ever reached the GMP
3	pilot-scale for chemical trials."
4	Then he explained between May and October 1984
5	the 8Y series of experiments started. Dr Smith put it
6	this way:
7	"They started as a sub-plot in the
8	pasteurisation story focusing on an unpasteurised
9	product which would be an improvement on the
10	intermediate purity concentration at equivalent yield,
11	provide an untreated control for clinical trial and
12	virus transmission by pasteurised concentrates, and
13	offer the basis for alternative virus inactivation
14	strategies to compare with pasteurisation compared
15	with virucidal efficiency, yield, quality and safety
16	
	in clinical use. The basic strategy was confirmed by
17	August 1984. Dry-heating and solvent detergent
18	options for virus inactivation had been subject to
19	cursory examination by October 1984, and the first
20	clean pilot batch was run on 16th October 1984."
21	Then he described in paragraph 51:
22	"The first pilot batch with a defined
23	product in mind was run in PFL's GMP area on the
24	9th November 1984. This batch gave material for
25	standardised freeze-drying and a wide range of
	53
1	the different stages of the work, of how PFL got to,
1 2 3	ultimately, the production of 8Y.
2	ultimately, the production of 8Y. What Dr Smith then turned to in this statement,
2 3 4	ultimately, the production of 8Y. What Dr Smith then turned to in this statement, at paragraph 56, was the dry heating of Factor VIII
2 3 4 5	ultimately, the production of 8Y. What Dr Smith then turned to in this statement, at paragraph 56, was the dry heating of Factor VIII concentrate in its intermediate purity form. We can
2 3 4 5 6	ultimately, the production of 8Y. What Dr Smith then turned to in this statement, at paragraph 56, was the dry heating of Factor VIII concentrate in its intermediate purity form. We can pick that up in paragraph 57. He referred to the
2 3 4 5 6 7	ultimately, the production of 8Y. What Dr Smith then turned to in this statement, at paragraph 56, was the dry heating of Factor VIII concentrate in its intermediate purity form. We can pick that up in paragraph 57. He referred to the Groningen conference, which again we've already heard
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1	dry-heating temperature/time combinations, from which	
2	80°C for 72 hours was chosen as the most severe	
3	combination giving acceptably small losses in yield	
4	and quality. There were still no viruses inactivation	
5	data to support the effectiveness of this dry-heating.	
6	This batch became finished batch 8Y2201, dry-heated at	
7	80°C for 72 hours, and the first batch to be released	
8	for clinical trial in April 1985."	
9	He then, paragraph 53, made this observation:	
10	"It should be borne in mind that a development	
11	programme for a product such as 8Y normally takes	
12	three years, and in the event, because of course HIV	
13	was very firmly on the scene by 1984, the typical	
14	development programme was compressed into a few	
15	months. One consequence was that huge extrapolations	
16	were made about the product on the basis of very	
17	limited virus data. Clinical trials were organised	
18	with some haste but, of course in retrospect, the end	
19	product proved to be everything we hoped for."	
20	Then if we go over the page he notes in	
21	paragraph 55 that "at least 50 independent and	
22	inter-dependent variables were studied during the	
23	overall development of 8Y", but adds "their	
24	significance would need lengthy explanation".	
25	So that's an overview, but giving an account of	
	54	
1	a further description, again by reference either to	
2	months or to individual months or a group of months	
3	of work being undertaken dry heating 8CRV.	
4	So:	
5	"In June-August 1983 it was found that	
6	dry-heating one batch of standard 8CRV at 60°C for	
7	ten hours did not affect either recovery or solubility	
8	of Factor VIII:C, but that noticeable deterioration	
9	started at 80°C for ten hours or 75°C for 24 hours."	
10	Then there's a further description of the	
11	experimental work that was undertaken.	
12	If we go to the bottom of the page, Dr Smith	
13	referred to these experiments being extended to	
14	include the intermediate-purity concentrate from BPL,	
15	so to now include the HL product. That was	
16	October 1983.	
17	Then if we go over the page, having undertaken	
18	those experiments, paragraph 61, Dr Smith said this:	
19	"Dry-heating was then virtually shelved, as	
20	a promising option we could return to, while we went	
21	on with pasteurisation which we thought would	
22	inactivate hepatitis NANB more securely."	
23	And then we pick up I think the picture for	
24	in the accord part of paragraph 62. Dr Smith acid	

(14) Pages 53 - 56

		1
1	We pick up the picture in paragraph 63.	
2	Sir, you will have heard already, both from	
3	Mr Hill and from what I've already said, that there	
4	were three patients who received a heated 8CRV before	
5	the events of late 1984 and then the ultimates	
6	roll-out of 8Y, and we have a description of that here	
7	from Dr Smith in paragraph 63. He says:	
8	" in March 1984, we were asked by	
9	Professor Stewart (based at the Middlesex Hospital),	
10	for a heated concentrate for a patient who was	
11	especially anxious not to get hepatitis. We prepared	
12	three batches for this and two further patients of	
13	Dr Colvin (from the London Hospital) from restricted	
14	plasma pools [presumably that's Green 4 plasma], and	
15	successfully heated the products at 60°C for 72 hours.	
16	These were the conditions judged to be most likely to	
17	do at least some damage to hepatitis NANB in the light	
18	of rumours of competitors methods, whilst doing the	
19	least damage to protein. These three patients	
20	suffered no ill effects, but despite knowledge amongst	
21	some influential clinicians that dry-heated 8CRV could	
22	be provided if requested, there were no further takers	
23	until, on 12th December 1984 [I think that's probably	
24	a reference to the 10 December 1984 meeting at BPL	
25	which Dr Smith attended], the Haemophilia Centre	
	57	
1	that by mid-1984 as I read it, he's saying that the	
2		
2	benefits of heating ought to have been, or might well have been thought to be apparent to clinicians.	
4	It doesn't obviously help in understanding why	
4 5	there was no further take-up of the facility which had	
6	been made available to Professor Stewart for one	
7	patient and to Dr Colvin for two patients.	
8	We'll look this afternoon at what Dr Lane had to	
9	say about that as well.	
10	If we then go back to the 1990 HIV proof	
11	sorry, HIV litigation proof, CBLA0000016_034, and go	
12	to page 27. Paragraph 64 then explains the position	
12	really towards the end of 1984. Dr Smith said:	
13	" BPL was committed to the 8Y product but had	
14	only got as far as two pilot-scale runs at PFL. Time	
16	is needed for BPL to learn the method, tool up for	
10	processing, specify order, build, deliver and	
17	processing, specify order, build, deliver and	

2	possible hypothetical infinutiological consequences.
3	I am almost certain that Dr Rizza, Prof Bloom,
4	Dr Preston and other Reference Centre Directors knew
5	that dry-heated 8CRV was available on request in 1984.
6	Although no one was formally told the product was
7	available I believe this was spread by word of mouth,
8	etc."
9	I'll come back to the rest of the statement in
10	a moment, but if we can just go to the statement to
11	this Inquiry at WITN3433001, and go to page 47.
12	Dr Smith was asked about why he thought there
13	were no further takers of this product until
14	December 1984, and he said:
15	"I would have thought that by mid-1984, with
16	convincing evidence of a viral aetiology for AIDS and
17	its prevention in patients undergoing trial of heated,
18	'hepatitis-safe' commercial concentrates, without any
19	marked incidence in inhibitor formation or other
20	detrimental effects, the benefits of heating must be
20	
	outweighing speculations about inhibitors and the
22	even more speculative issue of neoantigens."
23	And then if we go that is his answer, so it's
24	not necessarily a direct answer to the question, but
25	he does set out his view that he would have thought
	58
1	He said in paragraph 67 that:
2	" the work in this regard began somewhat
3	earlier than the similar work in relation to
4	Factor VIII, [and] the period during which the work
5	took place spans 1982 to 1985."
6	He explained in paragraph 68 that:
7	" dry heating [as with Factor VIII] grew out
8	of work on heating Factor IX in solution."
9	Explained that the:
10	" Factor IX yield of pasteurisation never
10	looked as promising as for Factor VIII."
12	But then set out in paragraph 69 the additional
13	e and the stimulation is an lation to the star IV such the
14	complicating factor in relation to Factor IX, which
	was the issue of potentially causing thrombosis.
15	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it,
16	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in
	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it,
16	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in
16 17	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in relation to Factor IX, again, Dr Smith set out by
16 17 18	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in relation to Factor IX, again, Dr Smith set out by reference to particular periods of time from 1983
16 17 18 19	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in relation to Factor IX, again, Dr Smith set out by reference to particular periods of time from 1983 onwards, or indeed I think from November 1982 onwards
16 17 18 19 20	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in relation to Factor IX, again, Dr Smith set out by reference to particular periods of time from 1983 onwards, or indeed I think from November 1982 onwards in relation to Factor IX, the work that was there
16 17 18 19 20 21	was the issue of potentially causing thrombosis. I'm not going to go through the detail of it, but if we go over the page, you will see that in relation to Factor IX, again, Dr Smith set out by reference to particular periods of time from 1983 onwards, or indeed I think from November 1982 onwards in relation to Factor IX, the work that was there being undertaken.

picture up in the second half of 1984, he says:

"Between July and December '84, work on dry

Directors told us that HIV was a greater evil that

possible hypothetical immunological consequences.

the work undertaken in relation to Factor IX.

commission the large heating ovens necessary."

described as method two, HT2.

decided until the launch of 8Y, which was to heat the

see that Dr Smith also set out a detailed narrative of

existing batches of 8CRV and 8L using what Dr Snape

If we then go over the page to page 28, you'll

Then he sets out the position therefore that was

(15) Pages 57 - 60

1	heating was resumed [and] the most severe conditions	1	drawn:
2	giving good Factor IX recovery were fixed at 80°C for	2	" to the attention of the CBLA at their
2	72 hours. The last problem, thrombin generation, was	3	meeting on 23 March problems that are becoming
4	confirmed in further batches in about December 1984."	4	associated with blood transfusion and blood product
5	Then there's further work described in the	5	administration with the increasing incidence of
6	following paragraphs in relation to addressing the	6	reported AIDS cases"
7	difficulty in relation to the presence of thrombin.	7	The second paragraph describes that
8	And that description of the work in relation to	8	Professor Bloom will continue to keep the CBLA
9	Factor IX continues to paragraph 86, page 34 in his	9	informed. Dr Gunson will be attending a Council of
10	statement. I am not going to go through the detail	10	Europe meeting.
10	of it, but it's there.	10	Third paragraph says this:
12	What I want to do next, sir, in relation to heat	12	"Meanwhile, patients potentially at risk in the
13	treating is now look at some of the contemporaneous	12	UK, notably haemophiliacs, are evidently concerned,
14	documents, some of which are referred to in Dr Smith's	10	and resistance against the use of imported American
15	various statements, some of which are referred to in	14	coagulation factor concentrates is becoming apparent.
16	Dr Lane's draft proof of evidence. But it's	15	Equally, there's a likelihood that a return to
10	convenient, I think, to pick them up whilst we're	10	cryoprecipitate is a desirable form of treatment may
18	looking at Dr Smith's evidence.	18	become irresistible whether logical or not.
10	So if we start with CBLA0001691. Some of these	10	"It is necessary for this laboratory to develop
20	documents but not I think most of them but some you	20	a policy which may only be implemented on a short-term
20	will have seen with Mr Hill in the course of the week.	20	basis, which will allow for the presentation of
22	This is a memo from Dr Lane to Mr Mallory, but	21	a large proportion of NHS Factor VIII as
23	it's copied to a number of other recipients, including	22	cryoprecipitate. Staff will be aware that many
24	Dr Smith. It's dated 24 March 1983. You can see it's	20	Regional Transfusion Centres have not made wet
24	headed "AIDS". It refers to Professor Bloom having	24	cryoprecipitate for some time and would now be both
LU	61	20	62
	01		02
1	out of practice and, in some cases, without the	1	presentation of large proportion as cryoprecipitate"
2	facilities to recommence large scale production."	2	was intended to say. And it has occurred to me,
3	Pausing there. That's not particularly	3	actually just recently, that it might mean what I've
4	reflected in the oral evidence that this Inquiry has	4	just suggested to you.
5	heard from a number of Regional Transfusion Directors.	5	MS RICHARDS: It might do. We know, of course, that isn't
6	SIR BRIAN LANGSTAFF: No, it isn't.	6	what happened
7	MS RICHARDS: Then this, and it may be an important	7	SIR BRIAN LANGSTAFF: No.
8	sentence because it may help understand Dr Lane's	8	MS RICHARDS: but it might do.
9	perspective on this. He said this:	9	SIR BRIAN LANGSTAFF: But that would mean that what he is
10	"The implications for BPL source material are	10	really saying is, "We may have to do this, but it's
11	very real."	11	got implications for us."
12	SIR BRIAN LANGSTAFF: Just unpicking that paragraph. Does	12	MS RICHARDS: Yes.
13	he mean, when he speaks about the policy which will	13	And then just to continue with the next
14	allow for the presentation of a large proportion of	14	paragraph, because this is what then leads to
15	NHS Factor VIII as cryoprecipitate, is he really	15	a meeting in which Dr Smith was involved, Dr Lane said
16	saying: we should not ask for as much plasma from the	16	this:
17	regions because they will be expected to use that	17	"A meeting involving those circulated with this
18	plasma themselves hence our policy will allow for	18	memorandum should be set up at the earliest convenient
19	this to make cryo? We, for our part, will go on	19	opportunity to discuss the strategic alternatives at
20	doing what we get, but we must expect less. That may	20	BPL for manufacturing small pool freeze-dried
21	the implications for the source material. That's how	21	cryoprecipitate to offset the requirement for
22	it might fit together.	22	manufacturing at BTS level. Considerable adjustments
23	MS RICHARDS: Yes.	23	to resources should be envisaged and taken account of.
24	SIR BRIAN LANGSTAFF: I wondered earlier what the rather	24	Equally, a (temporary) fractionation programme
25	strange description "which will allow for the	25	commencing with cryoprecipitate supernatant from the
	63		64 (16) Pages 61 - 64

1	BTCs should also be taken into consideration. The
2	implications concerning Factor IX production will need
3	to be examined and the potential benefits of
4	pasteurisation of Factor IX given some priority."
5	And so he then asks for a meeting date to be set
6	up.
7	SIR BRIAN LANGSTAFF: I suppose that fits with the
8	suggestion I've made as to one way at least in which
9	the third paragraph up from the bottom might be
10	interpreted.
11	MS RICHARDS: Yes. And it appears that Dr Lane was
12	throwing out ideas, I suppose. One of which is
13	whether BPL could turn to the manufacture of small
14	pool freeze-dried cryoprecipitate, it would appear.
15	Although, again, we know that didn't happen, but it's
16	an idea that he is there identifying for discussion.
17	The meeting that took place, pursuant to the
18	memo on the 18 April, is at BPLL0008758. We can see
19	that the first item of the meeting is "AIDS", the
20	Chair of the meeting is Dr Lane, and the first
21	paragraph tells us that Dr Lane:
22	" advised the meeting that Professor Bloom
23	had raised the subject of AIDS and at the next
24	CBLA meeting, he [that's Dr Lane] wished to respond to
25	any questions raised on AIDS."
	65

65

1	"Dr Snape stated that the BOB [Bureau of
2	Biologics] reaction was predictable and that an
3	association was now being formed between heat treated
4	concentrates in reducing the risk from AIDS."
5	And obviously Dr Snape can be asked further
6	about that when he gives evidence.
7	But if we go over the page, we then have:
8	"Dr Lane commented on the price increase now
9	being seen for commercial concentrates, and the
10	emphasis on marketing hepatitis-reduced risk
11	material."
12	And then this from Dr Smith:
13	"Dr Smith remarked that at the present time
14	there was little firm knowledge on how effective heat
15	treatment is on non-A/non-B or AIDS, nor what the
16	effect on yields would be."
17	Then various comments recorded:
18	"1) Do the UK haemophiliacs perceive the threat
19	as serious as do the USA?
20	"2) Is large pool material worse than small
21	pool?"
22	The answer that's given, apparently, is there's
23	"very little evidence in this area".
24	"3) What would be the effect if BPL only able
25	to produce one half of the UK requirement of F.VIII,

1	Next paragraph refers to:
2	"Letters on AIDS have been circulated to
3	Haemophilia Directors by the supra-regional directors.
4	BPL has to decide now whether to change course if
5	a move away from concentrates (Factor VIII and Factor
6	IX) is requested."
7	There's then a discussion. Mr Vallet refers to
8	recommendations from the US about donor screening and
9	other matters. You may wish to note the paragraph
10	beginning:
11	"No directive has been issued with regard to
12	Factor VIII Discussions with Dr Aronstam indicated
13	that the relationship of AIDS to haemophiliacs had not
14	been established, nor the extent of the risk."
15	Now, it's not clear from this who had held those
16	discussions, whether it was Dr Lane perhaps most
17	likely Dr Lane or whether it was one of the other
18	attendees, but that is what is being reported back.
19	Reference to the producers of concentrates being
20	concerned. An expectation that there will be
21	a statement. And then
22	SIR BRIAN LANGSTAFF: That's from the Bureau of Biologics?
23	MS RICHARDS: Yes.
24	Then if we look at the last paragraph on that
25	page:
	66
1	if heat treated yields were much lower than those seen
2	currently for normal material.
3	"4) The arguments for non-A/non-B and AIDS were
4	separate and different with respect to risk, eg the
5	risk of non-A/non-B were seen in low and medium users,
6	whereas AIDS would be of greater risk to heavy users.
7	"The Director asked the meeting to consider
8	a situation where AIDS was established in the UK and
9	that some haemophiliacs had evidence on an altered
10	immune state (AIDS related or not) what is the
11	ability of BPL to respond to a request to make small
12	pool material, or that only heat-treated product was
13	required by the Haemophilia Centres?
14	"The general feeling was that a response to
15	these requests would be difficult."
16	There's then a reference to US plasma sources.
17	And then it said:
18	"The UK is different in that only large donor
19	pools are used, ie there is still no major use of
20	small panel plasmapheresis plasma, and that plans are
21	in progress to increase plasma collection primarily by
22	the use of SAG(M) with secondary use of
	plasmapheresis."
23	

68

It's said:

24

question could they ask Dr Robinson for more, and this

Dr Smith is then recorded as suggesting: "... that the meeting differentiate between small pool (ie small volume pools) and small panel (ie large volume pools with few donors) and asked whether BPL should not be making small panel F.VIII and F.IX in addition to the normal concentrate. If the answer was yes, a careful costing exercise would need to be carried out. The general feeling of the meeting was that BPL should go for both small panel

"The overriding concern was that in trying to provide full UK demand with a secure product, BPL may end up not being able to say supply the demand.

"The Director also asked whether the current

"Several views were expressed -- notably the

And then there's a reference to Dr Harvey discussing some findings of Dr Kernoff in relation to

70

Then Dr Smith explained that:

product 8CRV with the following reasons and

of patients over AIDS and the insinuations of

NANBH ... and there is only an unsupported hope that the transmissible agents of AIDS, if any, is heat

"We elected to try dry heating of our existing

And we saw from the narrative account in his 1990 draft proof of evidence the work that was being undertaken at this point in time in relation to

So he explains there a number of reasons and

"1.1. Faced with the understandable anxieties

commercial producers, the Haemophilia Centres feel the need to offer at least some hope that NHS products will carry a reduced risk of transmitting AIDS."

problems posed by AIDS could be used to obtain financial support for more work in this area.

lack of space and staff, and the doubts on which programme of direction to follow. The overriding view

is the response from Dr Smith.

and heat treated products.

was one of wait and see."

non-A, non-B hepatitis.

sensitive."

reservations."

the 8CRV.

reservations:

heat treatment.

1	once major progress had been achieved in the SAG(M)	1
2	programme. In addition, the use of small panel	2
3	accredited donors would be very expensive."	3
4	Over the page picking it up in the second	4
5	paragraph:	5
6	"The answer to the AIDS question was therefore	6
7	to consider what was feasible and what was not. Thus,	7
8	if BPL was to be involved in the preparation of small	8
9	pool concentrates, free of AIDS, there would have to	9
10	be an extensive pool of accredited donors (or at least	10
11	a high follow-up procedure for donors)."	11
12	There's then a further discussion in relation to	12
13	that. Then if we just go a little further down, we	13
14	see a paragraph beginning:	14
15	"The Director asked Dr Smith whether BPL should	15
16	promote the collection of small pool material into	16
17	a working programme, eg by the use of increased Leeds	17
18	Haemonetics material (currently 100kg/week)."	18
19	That's the Green 4 plasma programme that I was	19
20	referring to before the break.	20
21	"Dr Smith felt that Dr Robinson would be	21
22	unwilling (for reasons associated with the present	22
23	programme) or unable to provide significant increases	23
24 25	in Haemonetics plasma."	24 25
20	So there appears to be a consideration of the	25
	69	
1	So the meeting then goes on to discuss other	1
2	matters which I don't think I need to take your time	2
3	with.	3
4	There is a further discussion about Haemonetics,	4
5	plasmapheresis plasma, bottom of the fifth page and	5
6	top of the sixth page of the meeting minutes. But	6
7	that's the discussion, with the end result appearing	7
8	to be a "wait and see" approach, and I'll pick up some	8
9	of that again when we look at Dr Lane's draft proof of	9
10	evidence.	10
11	So that's April 1983. The next contemporaneous	11
12	document which I think helps illuminate what was	12
13	happening is CBLA0001786.	13
14	This a memo from Dr Smith to Dr Lane and others,	14
15	3 January 1984, "Proposal for Special Preparation -	15
16	8CRV pasteurised dry".	16
17	Then under the heading "Introduction and	17
18	Motivation", Dr Smith referred to work being	18
19	undertaken by commercial companies, and he sets that	19
20	out.	20
21	Third paragraph he says:	21
22	"Faced with the publicity over AIDS, it is	22
23	understood that Hyland took the decision in May to	23
24	issue only dry-heated Factor VIII in future, although	24
25	heating was almost certainly introduced to combat	25
	71	

is unsatisfactory, there was a suggestion that the infectivity of NANBH had been reduced or attenuated by "1.3. It is now common to meet the assumption that virtually all patients receiving either

72

"1.2. Although the evidence from Hyland's study of (presumably) dry-heated factor VIII in chimpanzees

(18) Pages 69 - 72

1	commercial or NHS factor VIII or factor IX for the			
2	first time will contract frank or sub-clinical			
3	infection with NANBH. Incubation period and severity			
4	may differ, but the long-term sequelae are equally			
5	feared."			
6	Now that appears to be, by January 1984,			
7	a recognition of the potential seriousness of the			
8	longer-term consequences of non-A, non-B hepatitis in			
9	contrast with what we saw earlier.			
10	The fourth point is this:			
11	"1.4. We recognised the lack of evidence for			
12	dry-heat inactivation of either HB or NANBH in			
13	factor VIII; the work from PFC suggests that some			
14	hardy model viruses are inactivated only very slowly			
15	at 60°C, even in solution, and one might predict that			
16	heating in the dry state should be less effective (and			
17	possibly more variable) than heating and solution."			
18	Then, 1.5, he says this:			
19	"Our late start in more rigorous inactivation			
20	studies might leave us without a product to offer for			
21	a year or more, by which time many of the small group			
22	of suitable patients would have been committed to			
23	testing other products."			
24	Over the page, 1.6, he says:			
25	"There need be no intention to convert all			
	73			
1	" it seems reasonable to apply dry heat first			
2	to those batches already carrying the minimum risk,			
3	ie, Haemonetics batches."			
4	Reference in 6.4 to his understanding that			
5	Dr Rizza was seeking permission to use an Armour			
6	heat-treated concentrate.			
7	Then over the page he sets out a number of			
8	practical considerations. Again, in the interests of			
9	time I won't go through that, but they're, I think,			
10	not unimportant.			
11 12	So that was 3 January '84. There's a further			
12	memo from Dr Smith, just about two weeks later, at			
13 14	CBLA0002487. This is in relation to hepatitis safer			
14 15	Factor IX concentrates, and he said this in his memo			
15	to Dr Lane and Dr Snape:			
16 17	"While we are considering how best to proceed			
17 10	with 'hepatitis-safer' factor VIII concentrates, we			
18 10	should reflect on a parallel procedure for factor IX			
19 20	concentrate. The main differences from factor VIII			
20	are"			
21	Then he sets out four differences:			
22	"(a) the safety of heat-treated concentrates may			
23	deserve more rigorous study, eg with respect to			
24 25	thrombogenicity.			
25	"(b) there is no overt competition from imported			
	75			

1 BPL/PFL product to dry-heating, at least on the 2 grounds of NANBH reduction; given the clear-cut 3 pattern of infectivity of current concentrates, a few 4 batches for clinical trial in a modest number of 5 suitable patients might suffice, and a decision to 6 widen this application might be taken on the success 7 of this and commercial dry-heated factor VIII." 8 And pausing there, this is January '84 and it 9 was March '84 when, indeed, dry-heated 8CRV was 10 supplied to the three patients that Dr Smith described 11 in his 1990 proof. 12 And then at 1.7 he says: 13 "We might expect that, even if dry-heating would 14 not completely inactivate 'high concentrations' of 15 NANBH in commercial factor VIII, heating factor VIII 16 from a potentially cleaner source plasma might tip the 17 balance toward non-infectivity in at least 18 a proportion of patients." 19 He then sets out a strategy, methods, records 20 results. 21 If we go to page 5, I'm not, in the interests of 22 time, going to go through all of this, but we can see 23 there's a heading just over halfway down the page 24 "Selection of batches for heating and clinical trial", 25 and at 6.3 he says, picking it up in the second line: 74 1 concentrates ... 2 "(c) there are far fewer congenitally deficient 3 patients, and most have been treated generously or 4 even prophylactically. 5 "(d) there are semi-legitimate applications in 6 acquired deficiencies, currently discouraged for fear 7 of transmitting hepatitis." 8 Then he sets out some figures about the numbers 9 of Factor IX patients in the United Kingdom. 10 If we pick it up in -- it's the penultimate 11 paragraph beginning "The average annual use", third 12 line down in that paragraph: 13 "Even if we cannot get the level of information which seems to be forthcoming for factor VIII 14 concentrate, I believe we should be doing our best to 15 16 get the safest concentrates to the most important 17 patients -- those seldom or never treated before and 18 the younger patients who might benefit most from less 19 frequent insult with infective material." 20 Then he sets out a potential strategy over the 21 page. He says: 22 "I do not think that small-panel factor IX will 23 be sufficiently reliable to open up to the other 24 category of high-risk patients. However, that 25 possibility may be more real for dry-heated

1	concentrates and we should be prepared to acknowledge	1	this do
2	this difference between the factor VIII and factor IX	2	conce
3	trials at the next stage."	3	'interm
4	Then this:	4	which
5	"Swift application of the few measures at our	5	
6	disposal will help to persuade our customers that we	6	restric
7	are taking the problem seriously and may even help to	7	courte
8	keep one or two patients out of trouble."	8	Transf
9	That's then, the beginning of 1984, the	9	
10	experimental work and research and development work,	10	
11	as I say, we've seen described in the 1990 proof of	11	in that
12	evidence.	12	
13	Sir, I'm going to pick up the contemporaneous	13	underl
14	documents, then, up next in November of 1984, at	14	to the
15	CBLA0001920.	15	8CRV
16	This is a memo from Dr Smith and others to	16	
17	Dr Harvey, 12 November 1984. It's headed "Options for	17	dry-he
18	heat treatment of coagulation factor concentrates",	18	to date
19	and he said this:	19	
20	"This memo is intended to survey what products	20	about
21	have been developed to meet the [need] for safe	21	then a
22	concentrates, what stage they are at, what they are	22	the ne
23	expected to achieve and when they might provide	23	activity
24	clinical products first from PFL and then from BPL."	24	
25	Then we can see Dr Smith and the co-authors of	25	develo
	77		
1	primarily as a clinical product in its own right, but	1	dog tri
2	as an intermediate more suitable than 8CRV for heating	2	uogin
3	in solution It is now evident that, besides	3	"9D ar
4	meeting that requirement, it is suitable for	4	obstac
5	"(a) finishing as a product with advantages	5	there's
6	over 8CRV or HL	6	other t
7	"(b) dry-heating with highest ability than	7	other
8	8CRV or HL	8	solutio
9	"(c) inactivation of lipid-enveloped virus eg	9	becan
10	NANBH by detergent treatment."	10	Noven
11	Then, over the following page, Dr Smith gives	10	a relat
12	further information about the work being undertaken	12	that's
13	effectively to scale up production of 8Y.	13	
14	Then if we go to page 5, there's a similar	14	discus
15	description in relation to Factor IX concentrates. So	15	we've
16	paragraph 2.1 deals with dry-heated 9D, explains	16	meetir
17	and 9D was the existing Factor IX concentrate that was	17	treatm
18	produced. Dr Smith said:	18	preser
19	"As for factor VIII, dry-heating was approached	19	memo
20	somewhat sceptically, as a first stopgap pending	20	
21	heating in solution. However, there is now a lot of	21	discus
22	evidence that 9D will withstand much more severe dry	22	paragi
23	heat than 8CRV without loss of quality"	23	"Targe
24	But he then goes on to talk about the problem in	24	can se
25	relation to thrombogenic activity and the need for	25	
	79		

inquiry 16 March 2022
this document set out under the heading "Factor VIII
concentrates" a number of categories: "Restricted-pool
'intermediate' specific activity concentrate, 8CRV",
which we've already discussed.
And that's the reference, in terms of the
restricted pool, to the Green 4 plasmapheresis donors,
courtesy of donations collected at the Leeds Regional
Transfusion Centre.
Then 1.2 "Dry-heated 8CRV or HL".
There's then a further description of the work
in that regard.
If we look at the sentence that's been
underlined in the penultimate paragraph, that refers
to the three patients who had been given the heated
8CRV earlier in 1984, and Dr Smith says those:
"Three patients have received large doses of
dry-heated 8CRV, none has contracted hepatitis or AIDS
to date."
Then over the page there's a lot more detail
about the heating of 8CRV, which I won't go into, but
then at the bottom of the page we can see there then
the new product, a new concentrate of higher specific
activity, 8Y:
"This product has been under intensive
development only since July. It was designed not
78
dog trials.
Then we get a description, at 2.2, production of
"9D and 7D heated in protected solutions", a number of
obstacles to that as a course of action. And then
there's a discussion towards the bottom of the page of
other treatments.
We know, of course, that dry heat was the
solution adopted both in relation to 8Y and what
became 9A, but it's worth noting that, even as at
November 1984, this still seems to be, as it were,
a relatively recent development and understanding
that's being described.
There's then a meeting at CBLA0001923 which
discussed the implications of the memorandum that
we've just looked at. So we can see it's an internal
we've just looked at. So we can see it's an internal meeting on 13 November to consider options for heat
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we've just looked at. So we can see it's an internal meeting on 13 November to consider options for heat treatment of Factor VIII. Dr Smith was one of those present, and the first sentence refers to Dr Smith's memo. I don't need to go through the details of the discussion, but if we go over the page to the paragraph just over halfway down the page headed

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		The intected blood
1	meeting, it was recognised that every effort must be	1
2	made to start heat treatment as soon as possible. It	2
3	was realised that undue delay may be caused because of	3
4	the formal tendering requirements. Once the	4
5	specification for the ovens was available, it was	5
6	agreed that Dr Lane would be consulted in an attempt	6
7	to bypass some of the requirements.	7
8	"A very provisional date of 1 April 1985 was	8
9	set, although it was recognised that at this stage it	9
10	is impossible to judge its feasibility."	10
11	So that was the planning ahead as at	11
12	November 1984.	12
13	There's a further memo from Dr Smith,	13
14	20 November '84, at CBLA0001926. So this is headed	14
15	"Clinical use of dry heated restricted pool 8CRV".	15
16	And if we look at the first couple of paragraphs,	16
17	Dr Smith said this:	17
18	"In our haste to commit national Factor VIII	18
19	supplies to emergency measures, there's a danger of	19
20	losing information which can never be retrieved again.	20
21	Although non-A, non-B hepatitis is not seen as the	21
22	main problem for the moment, and it looks as if	22
23	restricted pool trials (including the control element	23
24	in the northern centres trial) are dead, we still have	24
25	a unique opportunity to learn more about non-A, non-B	25
	81	
1	points which now coincided well with the current AIDS	1
2	problem."	2
3	Then there's a description from Dr Smith,	3
4	a review of the current work programme:	4
5	"He added that there had been difficulties with	5
6	the effectiveness of dry heat for the inactivation of	6
7	non-A, non-B therefore this had not been	7
8	progressed as the first option. The current product	8
9	had been dry heated at 60°C in conditions suitable for	9
10	recovery of Factor VIII activity. This material had	10
11	been available since March 1984 on a limited basis in	11
12	solution."	12
13	If we go over the next page, pick it up in the	13
14	second paragraph. He refers to priority having been	14
15	given to Factor VIII:	15
16	" although Factor IX was capable of being	16
17	heat treated."	17
18	And then identifies the further problem with	18
19	Factor IX:	19
20	" present stock of Factor VIII is being	20
21	considered for heat treatment. Not all batches were	21
22	suitable, and these would remain available as	22
23	non-heat-treated product.	23
24	"Current work is directed to making available	24
05	limited experies of a bast tracted product	25

d Inc	quiry 18 Ma	rch 2022
	hepatitis transmission if we are selective about the first use of dry heated 8CRV intended to prevent	
	transmission of AIDS."	
	And there is then a discussion of the arrangements for the heating of the stockpile of 8	
	and an identification of the categories of patients	
	for whom that could be made available.	
	I'm not going to go through the detail of th	at
	because, to some extent, it was overtaken by the meeting on 10 December 1984 at BPL at which a in relation to use of concentrates was agreed. We've got the minute of the meeting at	en the
	CBLA0001948. We've obviously looked at this d	ocument
	on a number of previous occasions, but what we	
	I think necessarily looked at in any detail is what	
	was said by Dr Smith at the meeting.	
	And so if we turn to page 7, we can see u	nder
	the heading "Progress with heat treatment of NH	S
	Factor VIII", Dr Lane is recorded as stating:	
	" that BPL had begun 1984 with two	
	objectives:-	٨
	"1) A product with an inactivation of non-	Ч,
	non-B, [hepatitis] 2) A product acceptable for general use .	
	"R&D had been making good progress on	
	82	11000
	52	
	to April 1985 when, it is expected that all batches	5
	will be heat-treated. A new product of higher	, ,
	specific activity is already being prepared [this is	
	8Y] which will withstand more severe heat treatm	ients
	and other treatments designed to inactivate hepa	titis
	viruses as well as HTLV-III."	
	Then we know that, following this meeting	
	AIDS advisory document was put together. Then	
	some comment on that in Dr Lane's statement th	at we
	may look at later today. After this meeting, Dr Smith sent a memo	to
	Drs Lane, Snape and Harvey at CBLA0001952.	
	proposing to go through it in detail, but he set ou	
	essentially the work that needed to be done,	
	effectively in order to give effect to what had bee	n
	discussed at the meeting. He said this in the firs	
	paragraph:	
	"Since days are precious, if BPL/PFL are	to be
	seen to be doing their utmost to help the Haemo	philia
	Centre Directors, I summarise decisions which	
	I believe we took on Monday 10 December, action	
	since at PFL, some procedures tentatively agree	
	HQC and further decisions which are needed by	the
	review meeting on 19 December."	h
	And then he set out a description of what	ne

84

limited supplies of a heat-treated product

1	thought needed to be done.		
2	We can see over the page he set out a range of		
3	actions that needed to be taken effectively		
4	immediately, the week of 10 December, in relation to		
5	the current stocks of 8CRV and HL, in terms of heating		
6	them.		
7	And then the next page describes action to be		
8	taken the following week. If we look, for example, at		
9	paragraph 2, we can see a real sense of urgency		
10	appearing here. Dr Smith explains the steps that need		
11	to be taken if they're not to lose oven time and so		
12	on.		
13	The, I think, final document on 1984 that I		
14	wanted to show you was just a memo from Dr Smith,		
15	3 December 1984, describing a visit he'd made to		
16	Edinburgh. It's CBLA0001942. You will see it refers		
17	to a visit to the PFC, 29 to 30 November 1984. Under		
18	the heading "SNBTS policy on Factor VIII", he said		
19 00	this:		
20	"The press have inflated dry heating to		
21	a revolutionary process. They [that's obviously		
22	SNBTS] have seen seroconversion not only from US		
23	concentrates but from cryoprecipitate and in 16		
24 25	patients receiving only Scottish NY concentrate. Most		
20	of the latter had been recipients of one or two		
	85		
4	it it was being introduced as a response to AIDS, by		
1	it, it was being introduced as a response to AIDS, by		
2	the time we get to the meeting in December '84 and the		
2 3	the time we get to the meeting in December '84 and the roll-out in the course of 1985.		
2 3 4	the time we get to the meeting in December '84 and the roll-out in the course of 1985. We know from other material and evidence that		
2 3 4 5	the time we get to the meeting in December '84 and the roll-out in the course of 1985. We know from other material and evidence that the Inquiry has examined that whilst 8Y was effective		
2 3 4 5 6	the time we get to the meeting in December '84 and the roll-out in the course of 1985. We know from other material and evidence that the Inquiry has examined that whilst 8Y was effective in relation to preventing the transmission of non-A,		
2 3 4 5 6 7	the time we get to the meeting in December '84 and the roll-out in the course of 1985. We know from other material and evidence that the Inquiry has examined that whilst 8Y was effective in relation to preventing the transmission of non-A, non-B hepatitis, the equivalent product in Scotland		
2 3 4 5 6 7 8	the time we get to the meeting in December '84 and the roll-out in the course of 1985. We know from other material and evidence that the Inquiry has examined that whilst 8Y was effective in relation to preventing the transmission of non-A, non-B hepatitis, the equivalent product in Scotland was not. And so one issue that we will no doubt be		
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suspect batches now almost exhausted. Under clinical
pressure to 'supply something or they will buy US
heated concentrate', they are recalling large batches
and subjecting these and their current stock
(approximately one year) to dry heat. Their
concentrate will not stand 24 hours at 70 degrees, and
the exposure is much briefer, shorter than they or
I could be happy about."
Obviously that's a matter that we can pick up
with Dr Foster, but that was Dr Smith's perspective.
And then he set out a joint policy in relation
to Factor IX and the dog trials that were regarded as
essential.
There are some further documents referred to in
Dr Smith's various statements from early 1985 in
relation to the arrangements for the supply of heated
concentrates to Haemophilia Centres. But I think we
can probably more usefully pick those up with Dr Snape
in due course.
The final topic in relation to heat treatment
that I wanted to explore was the topic of what was
being said about the efficacy of 8Y in terms of non-A,
non-B hepatitis.
So we know from all that we've seen that 8Y was
being introduced. Whatever the origins of the work on
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"Historically, NHS products gave 90% NANBH in
"Historically, NHS products gave 90% NANBH in new haemophiliacs looked at how to make products
"Historically, NHS products gave 90% NANBH in new haemophiliacs looked at how to make products safer during 1983 and 1984. The AIDS panic in
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from lab bench to national product in one year".

(22) Pages 85 - 88

1	I'm not going to read through it, sir, in the		
2	interests of time but it is an account that's worth		
3	reading, from Dr Smith.		
4	If we pick it up under the heading "Scaling up",		
5	the right-hand side, we can see in the third paragraph		
6	there it says:		
7	" the advance batches of PFL's pilot		
8	production went to clinical trial to prove that 8Y was		
9	safe and effective in haemophiliacs even after its		
10	very severe heat treatment. Armed with hard data from		
11	Dr Rizza, Dr Kernoff and Dr Jones we could extend		
12	the clinical trial to answer the crucial question		
13	does the heat treatment really prevent transmission of		
14	AIDS and hepatitis?		
15	"All the laboratory and clinical reports suggest		
16	that we have many thousand-fold 'overkill' of the AIDS		
17	virus and none of the susceptible first-treatment		
18	haemophiliacs in the trial have shown any signs of		
19	hepatitis so far.		
20	"But we need the continued enthusiastic		
21	co-operation of the Haemophilia Centres and the brave		
22	haemophiliacs who agree to the lengthy follow-up, to		
23	test many more batches rolling off the production		
24	line."		
25	Then sorry, if we just look at the next		
	89		
1	surveillance for NANBH in patients receiving heated		
2	concentrates produced in England", and if we go to the		
3	third page, if we can just pick up the last		
4	two paragraphs under the heading "Discussion", having		
5	set out the interim results, Dr Smith said this:		
6	"Let me again concede that this collection of		
7	data variable quality does not carry the full		
8	authority of a formal perspective clinical trial.		
9	However, when all reservations have been made about		
10	imperfect follow-up data, the weight of this varied		
11	evidence justifies our asking clinicians to put many		
12	more previously untreated patients into a more formal		
13	trial, using even more batches of product.		
14	"Although these early interim results on		
15	a limited number of batches, we think we are justified		
16	in thinking that the severe heating has been		
17	more effective in preventing transmission of NANBH		
18	than the milder heating accorded to Hyland and Armour		
19	products in studies published last year. It is too		
20	early to know whether NANBH transmission has been		
21	eliminated by severe dry heating, or whether we may		
22	see transmission by only a few batches, as has		
23	occurred with Alpha's factor VIII concentrate heated		
24	in heptane."		
25	Then we can just pick the picture up in a letter		
	91		

the left, it concludes:	
"This time next year we will know whether A	IDS
and hepatitis transmission have been defeated in th	ie
first determined assault. Even if it turns out that	
we have only punched a large hole in the problem,	we
will have tricks in reserve to finish the job and	
guarantee a brighter future for haemophiliacs than	
looked remotely possible in 1984."	
That's what was being said by Dr Smith in th	e
Haemophilia Society Bulletin.	
He was asked by Mr Watters in February 19	86 to
prepare that article, but, as I say, the precise date	
of publication I haven't yet been able to ascertain.	
There are just a handful of other documents,	,
however, in which the promising early results in	
relation to 8Y were considered. So if we look at	
PRSE0004378, this is an article authored by Dr Sm	ith,
Mrs Winkelman and PA Feldman, Dr Feldman.	
If we look at the top of the page we can see	it
appears to be in relation to a symposium that took	
place in Melbourne, Australia, in 1986.	
My understanding from other evidence from	
Dr Smith is that that was probably in May of 1986.	
In any event, it's headed "Interim results of	
90	
from Dr Smith to Dr Kernoff in August 1986.	
OXUH0003754_047.	
OXUH0003754_047. This is Dr Smith writing to Dr Kernoff on	_
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column of that article, so it's the second column from

(23) Pages 89 - 92

1	And then the data is set out. As I say, I don't	1	(attributable to 8Y material) after 12 months
2	propose to go through the detail of it.	2	experience of 8Y in virgin haemophiliacs."
3	The other two documents on this issue then,	3	Set out in the note, the presentation note, sir,
4	finally, BPLL0006186_002.	4	a number of other references to discussions about the
5	This is from Dr Smith, Mrs Winkelman and	5	interim results, in terms of non-A, non-B hepatitis
6	Dr Feldman, 10 March 1986, "Interim report of	6	infection. There was a paper put together for
7	surveillance for non-A, non-B hepatitis after first	7	presentation in autumn 1986 to a meeting of
8	infusions of 8Y and 9A into deficient patients".	8	Haemophilia Centre Directors, and the various
9	Again, I don't propose to go through the detail of it,	9	references in relation to that are in the written
10	but this may be, in broad terms, the kind of	10	presentation note.
11	information that was being discussed at the Blood Club	11	There are then if I can just give you some
12	in March of 1986.	12	references in Dr Smith's various pieces of evidence
13	And then, finally, PRSE0003764.	13	about heat treatment. I am not going to take any
14	This is, again, March 1986, 17 March 1986. It's	14	further time up in going to the core documents.
15	the note of a meeting at the PFC on 17 March 1986,	15	In his witness statement to the Inquiry,
16	with a number of representatives from BPL and SNBTS,	16	WITN3433001, Dr Smith described the work undertaken in
17	including Dr Smith. This is a note compiled by	17	relation to heat treatment in some detail in
18	Dr Perry. No doubt we can ask him about it.	18	paragraphs 58-111.
19	But if we go to the third page and look at	19	I've taken you, sir, to his 1990 proof of
20	paragraph 5, towards the bottom of the page, there is	20	evidence rather than the 2020 statement to this
21	there reference to the clinical trial results of 8Y.	21	Inquiry because the 1990 proof of evidence is both
22	"Dr Smith outlined clinical trial results of the	22	more detailed and obviously closer in time to the
23	8Y F VIII product so far. While results cannot be	23	events in question. But there are some important
24	considered conclusive at this stage, he indicated that	24	aspects of the overview that Dr Smith gave in his
25	no cases of virus infection have occurred	25	statement to this Inquiry which shouldn't be ignored.
20	93	20	94
	30		34
1	He addresses the question of whether things	1	Dr Smith's evidence, then, that I propose to address
2	could or should have been done earlier, and cautions,	2	orally simply his views on reversion to
3	I think it's fair to say, against the use of hindsight	3	cryoprecipitate. We've looked at some references in
4	in that regard.	4	contemporaneous documents to that, so I'm going to
5	But it will be for you, sir, to read what he	5	simply draw your attention now to what he said in his
6	says in that regard, reach your own assessment having	6	statement to this Inquiry.
7	regard to such submissions as Core Participants may	7	Paul, can we have then that statement again,
8	wish to make to you in relation to that.	8	WITN3433001. And if we can go to, first of all,
9	Then in his evidence to the Lindsay Tribunal	9	page 52. Sorry, if I can just pick it up on page 51
10	again, we don't need to put it up on screen,	10	so we can see the question that he's responding to.
11	LIND0000318 there is a discussion in particular	11	There is some description about the usage of
12	about the issues relating to difficulties in heat	12	cryoprecipitate generally in paragraph 145. Then on
13	treating Factor IX that appears in the transcript from	13	the bottom of the page, he asks whether he is asked
14	page 10 onwards and particularly pages 15 to 16.	14	whether a return to the use of cryoprecipitate was
15	And then there are the notes which Dr Smith	15	a practical possibility in the period '82 to '85. And
16	produced to the Penrose Inquiry at PRSE0004045. And,	16	at the top of the next page, he answers that question
17	again, if I just give you the page reference there.	10	"No," but I think it's probably important to
18	It's pages 20-21 of that document. It may be	18	realise
19	important, sir, for you and others to read Dr Smith's	19	SIR BRIAN LANGSTAFF: The question is about the product at
20	perspective on why the focus at BPL was on dry	20	BPL and PFC.
21	heating, and the focus at PFC was on pasteurisation.	20	MS RICHARDS: Yes. And, of course, BPL wouldn't have been
22	But I propose to say no more about that, not least	22	producing cryoprecipitate.
23	because it's an issue for exploration with Dr Foster	23	SIR BRIAN LANGSTAFF: No.
23	in terms of the approach taken by the PFC.	23	MS RICHARDS: So perhaps not the most usefully worded
24	Sir, the very final topic in relation to	24	question. But the answer is, rightly, I think, in
20	95	20	
	30		96 (24) Pages 93 - 96

1	terms of the evidence we've heard from others:
2	"Provision of cryo was always considered to be
3	a responsibility of the RTC at the request of
4	haemophilia clinicians in its region."
5	And then if we go to paragraph 148 further down
6	the page, the question was asked whether
7	SIR BRIAN LANGSTAFF: Can we just have a look at (c)?
8	MS RICHARDS: Of course.
9	SIR BRIAN LANGSTAFF: Question (c).
10	MS RICHARDS: The question was:
11	"What would the effect on overall levels of
12	production of blood products at BPL/PFL have been
13	given the economies of scale involved in producing
14	cryoprecipitate?"
15	Dr Smith said:
16	"Envisaging a dedicated factory for small pool
17	Factor VIII and Factor IX, the answer is at Q38(c)."
18	Which is on in fact, I'm not quite sure
19	which passage he's referring to there. Question 38
20	starts on page 49. Yes, so it'll be the bottom of
21	page 50.
22	But what he's looking at in his answers,
23	entirely understandably because he's looking at it
24	from the perspective of a fractionator based at
25	BPL/PFL, he's not looking at what could have been done
	97
1	on the screen at paragraph 148 in the context in which
2	you've just explored, sir. In response to the
3	question, "Was this approach considered in the UK?" he
4	responds with the question:
5	"Considered by whom? Not by fractionators, for
6	the reasons already stated. Not by RTCs, who did not
7	relish the scale of expansion predicated."
8	Just pausing there again. Whether there's an
9	evidential factual basis for that, or whether
10	that is and I don't mean this pejoratively
11	speculation on Dr Smith's part is unclear. The
12	Inquiry has heard now evidence from a number of
13	Regional Transfusion Centre Directors about what would

- Regional Transfusion Centre Directors about what would
 actually practically have been involved about -- in
- 15 a reversion to cryoprecipitate in the Regional
- 16 Transfusion Centres.
 - And then he says this:
- 18 "Not the staff of Haemophilia Centres, for whom
- 19 the dissolution and pooling of frozen gobbets of cryo
- 20 was a fiddly job requiring air-filtration facilities
- 21 and training in aseptic technique. Only a new
- 22 'factory', probably producing freeze-dried cryo, would
- 23 have had the capacity to replace all large pool
- 24 concentrates."

17

25 SIR BRIAN LANGSTAFF: Yes.

1	in Regional Transfusion Centres. He then looks at the
2	question of what fractionators could have done by
3	producing
4	SIR BRIAN LANGSTAFF: Yes.
5	MS RICHARDS: If their facilities had been given over to
6	
7	SIR BRIAN LANGSTAFF: Well, it's more or less what the
8	question assumes, I think. It's slightly ambiguous
9	because it either means nothing very much, which I can
10	understand, talking about given the economies of scale
11	involved in producing cryoprecipitate. If one puts
12	a comma after the "involved", so:
13	"What would the effect on overall levels of
14	production have been given the economies of scale
15	involved[,] in producing cryoprecipitate?".
16	It is really the effect of producing
17	cryoprecipitate on.
18	
	So, in other words, what he's asking is: if you
19	produce cryoprecipitate, what's the effect of BPL/PFL,
20	given the economies of scale?
21	MS RICHARDS: Yes.
22	SIR BRIAN LANGSTAFF: The implicit suggestion is that you
23	lose some of the economies of scale because you lose
24	scale.
25	MS RICHARDS: In any event, if we then go back to what's
	98
1	
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(25) Pages 97 - 100

1	sensible and usable form to BPL?
2	MS RICHARDS: Yes.
3	And then Dr Smith continued in his statement,
4	paragraph 149, he set out his own view of
5	cryoprecipitate in the third line of paragraph 149:
6	" a pharmaceutically inferior medication
7	which should be replaced as soon as possible."
8	And he sets out what he says a number of
9	disadvantages with cryoprecipitate. He, of course,
10	was not a clinician administering the treatment.
11	And then over the page, paragraph 150, he says:
12	"I agree that a patient in the mildly affected
13	group might justifiably have insisted on cryo rather
14	than concentrate between, say, 1983 and 1984."
15	Then this:
16	"It's always been the business of the clinician
17	not the fractionator to assess risks and benefits for
18	different patients and categories of patient."
19	SIR BRIAN LANGSTAFF: And he then returns again to the
20	theme of centrally produced cryoprecipitate.
21	MS RICHARDS: Yes.
22	Sir, that is a tour through aspects of
23	Dr Smith's evidence. Obviously, his statement ought
24	to be read in full
25	SIR BRIAN LANGSTAFF: Yes.

1	(The Luncheon Adjournment)	1
2	(2.00 pm)	2
3	Presentations to the Inquiry about the work and evidence	3
4	of Dr Richard Lane (Director of the Blood Products	4
5	Laboratory from 1978) by MS RICHARDS	5
6	SIR BRIAN LANGSTAFF: Yes.	6
7	MS RICHARDS: Sir, we turn now to the evidence of	7
8	Dr Richard Lane, who was the director of BPL from the	8
9	autumn of 1978 to 1990.	9
10	If we just bring up onscreen CBLA0000005_002.	10
11	You will see there the first of the 484-page	11
12	draft proof of evidence of Richard Spencer Lane, which	12
13	I'm going to be referring to.	13
14	This is really the only evidence we have from	14
15	Dr Lane apart from obviously the large volume of	15
16	contemporaneous documentation to which he contributed	16
17	or which records his views. There is no statement or	17
18	evidence from Dr Lane subsequent to 1990, so no	18
19	evidence to Lindsay or to the Penrose Inquiry or	19
20	elsewhere, and no statement that we were able to	20
21	obtain from him for ourselves.	21
22	So this is really what we have.	22
23	The presentation is going to focus upon what is	23
24	set out in this document, but before we look in more	24
25	detail at it Paul, could we have INQY0000341.	25

1	MS RICHARDS: to give it full justice, particularly his
2	statement to this Inquiry. But I hope that looking at
3	some of his earlier evidence, looking at some of the
4	contemporaneous documents helps illuminate aspects of
5	the evidence that he's provided to the Inquiry in his
6	written statement in 2020.
7	SIR BRIAN LANGSTAFF: It's been very helpful. Thank you.
8	MS RICHARDS: Sir, what I'll do then after lunch, a little
9	later than anticipated, is pick up with the evidence
10	of Dr Lane. It may be that I don't finish that this
11	afternoon. I'm not proposing we sit later than the
12	normal time this afternoon. But, if necessary, I can
13	take an hour or so on Tuesday before we then turn to
14	looking at self-sufficiency and domestic production
15	with regards to Scotland and Northern Ireland. And
16	that won't do any overall violence to the timetable
17	next week.
18	SIR BRIAN LANGSTAFF: Yes. Well, that sounds like
19	a sensible proposal. So if we don't have enough time
20	to finish, as I think you're telling me you don't
21	expect to have, then that's what we'll do.
22	MS RICHARDS: Thank you, sir.
23	SIR BRIAN LANGSTAFF: So from now, it just remains for me
24	to say 2.00. 2.00.
25	(1.03 pm)
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1	This is an explanatory note which the Inquiry
2	provided to Core Participants back in April 2020, when
3	various documents provided to the Inquiry were
4	disclosed to Core Participants, including the
5	statement that I've just referred to, the statement of
6	Dr Lane.
7	The purpose of putting this up on screen is
8	really to provide a bit of background, because there
9	are number of different versions of Dr Lane's
10	statement. We have, I think, something in the region
11	of six or eight versions. The two that we've referred
12	to in the presentation are what's referred to as the
13	draft number 5, and that's the one with the reference
14	that I read out a few moments ago, the CBLA0000005_002
15	version. That draft is dated 10 December 1990.
16	There is then a draft 6, dated 11 December 1990.
17	We don't need to put it up on screen, but the
18	reference to that, for the transcript, is
19	CBLA0000034_002. That's a much shorter document. If
20	we go to the second page, please, of this note, we've
21	explained towards the bottom of the page our
22	understanding of the status of the draft proof of
23	evidence.
24	So the second paragraph under the heading
25	"Dr Lane's [draft] Proof of Evidence" explains that
	104 (26) Pages 101 - 104

1	the proof was prepared, as we understand it, "with the
2	assistance of Clifford Chance for the purpose
3	outlining CBLA/BPL's response to the allegations of
4	negligence and breach of statutory duty contained in
5	the Plaintiff's Re-Amended Main Statement of Claim".
6	So it arose in the context of the HIV
7	Haemophilia Litigation. The CBLA had been joined as
8	an additional defendant to that litigation. The CBLA
9	retained Clifford Chance solicitors to represent them
10	and Clifford Chance took steps to obtain proof of
11	evidence from Dr Lane.
12	As we've set out there, there are a number of
13	different drafts. The reason for referencing
14	versions 5 and 6 are as follows: they're the two
15	latest in time, and version 5 is the most complete
16	version. It appears, in fact, to be a complete draft,
17	subject to the fact that there are certain questions,
18	presumably questions from the solicitors, in the text
19	of it. Certain drafts relating to queries for Dr Lane
20	to follow up or documents to be followed up.
21	So that's why we have identified those two as
22	the two documents that may be most relevant to
23	consider.
24	If we go back to CBLA0000005_002, and if we
25	just go, purely by way of example, to page 53, if we
	105

1	SIR BRIAN LANGSTAFF: Yes, I would hope that in what you
2	say, that if there are any particularly important
3	documents, that those people who are members of the
4	public but are not Core Participants will need to know
5	what they are otherwise they won't be able to make
6	sense of it.
7	MS RICHARDS: Yes. In fact, Dr Lane's proof normally
8	either contains quite a decent description of the
9	document so that you can see what it is, or quite
10	often contains an extended quote from it.
11	In the presentation note, we've referred to some
12	of the documents in more detail. I am not, this
13	afternoon, going to go to very many of the
14	contemporaneous documents. That's really for two
15	reasons. The first is, we've seen the key ones
16	already, either in the course of this week or in the
17	course of earlier hearings. The second reason is we'd
18	be here for longer than an afternoon, or frankly
19	longer than a week, there are so many documents
20	referred to in such detail in the draft proof of
21	evidence. So I'm actually only going to go to
22	a handful of them.
23	But it's not particularly difficult to make
24	sense of what Dr Lane is saying, because he gives this
25	quite detailed description of most of the documents
	407

1	look at paragraph 133 you'll coo it refere to a
	look at paragraph 133 you'll see it refers to a
2	document the fourth line refers to "document
3	no. 486". And there are documentary reference
4	throughout the Dr Lane proof of evidence. The
5	documents listed are documents in the CBLA's list of
6	documents for disclosure in the HIV Haemophilia
7	Litigation.
8	In order to find where those documents exist on
9	our database, we provided a schedule at the same time
10	as a note we looked at a moment ago.
11	So in April 2020 we provided Core Participants
12	with a schedule or spreadsheet which lists the
13	document numbers, but also then provides the
14	relativity reference number. So recognised legal
15	representatives and those Core Participants who have
16	access to relativity using that can find the documents
17	referred to by Dr Lane in this proof of evidence.
18	The other way of finding any of the documents
19	that Dr Lane refers to on relativity is by going into
20	the reference ID section of relativity and putting in
21	the document number and that will produce it. And
22	that, I hope, will make the life of anyone trying to
23	make sense of Dr Lane's proof of evidence a little
24	easier, being able to find the documents that he
25	comments on.
	106

2 SIR BRIAN LANGSTAFF: Am I entitled to infer, because 3 is a draft, plainly prepared by solicitors for him to	this
3 is a draft plainly prepared by solicitors for him to	
e a drait, plaint, propared by concitere for him to	
4 look at, that the ordinary process by which this draft	
5 would have been reached would have been there would	d
6 have been discussions between him and the solicitors	
7 in which he orally or in writing put out what he had	
8 to say, they then organised it in a way which suited	
9 the purposes of the litigation, and put it back to him	
10 to say, "Is this fair and full?" And he would say,	
11 "Well" And there will be further discussions	
12 about various aspects of it.	
13 So that this fifth draft is not necessarily what	
14 he would have ended up saying, but it is a pretty good	
15 indication of what he would have ended up saying, if	
16 that was the process, which I think I'm entitled to	
17 infer, but you can confirm that, would be almost	
18 certain to have happened.	
19 MS RICHARDS: Certainly such documents as I've seen t	hat
20 emanate from Clifford Chance, correspondence and so)
21 on, that nothing of any great moment in the	
22 contents of them, but they are absolutely consistent	
23 with the process which you described.	
24 What, of course, it is important to bear in mind	
25 in relation to this proof of evidence, and your	
108 (27) Pages 10	5 - 108

1	evaluation of its contents in due course, is it was
2	never finalised. It was never signed. It was
3	produced in the context of litigation. And we'll see,
4	as we go through it, it's very much directed at
5	responding to the allegations in the amended statement
6	of claim in the HIV Haemophilia Litigation. And it's
7	very much aimed at putting forward the arguments of
8	the CBLA as to why they should not be found to be
9	negligent or in breach of any statutory duty.
10	So it is in part a submission, and we'll see
11	that Dr Lane at various stages identifies particular
12	allegations and then sets out the CBLA's response to
13	those allegations, effectively, so it's tailored
14	towards the defence of the CBLA's position in
15	litigation. That's not meant as a criticism, that's
16	merely a statement of fact. That's the purpose for
17	which it was produced.
18	As a result, although it's vast, it doesn't
19	necessarily reflect the broader evidence that Dr Lane
20	could have given had this Inquiry taken place many
21	years earlier than it is. It doesn't contain some of
22	the analysis observations, some of the more discursive
23	reflection that others who have provided written
24	statements or indeed oral evidence to this Inquiry
25	have been able to bring to bear, because it was
	109
	NO BIOLIADDO. Destinations the information stress but
1	MS RICHARDS: Precisely so. It's informed commentary, but
2	it's being delivered from a particular standpoint.
3	
4	SIR BRIAN LANGSTAFF: Yes.
5 6	MS RICHARDS: Which is the standpoint of a defendant to
7	litigation, and obviously was never completed because the litigation settled.
8	SIR BRIAN LANGSTAFF: And from the very particular
9	standpoint we saw an example of this perhaps this
10	morning when there was discussion about what Dr Smith
11	might have meant or might have been meant in
12	documents, which the position of BPL is not the
13	position of other parties or parties other
14	people whose activities we are examining.
15	MS RICHARDS: Absolutely.
16	SIR BRIAN LANGSTAFF: It has a very particular role to
17	fill.
18	MS RICHARDS: Absolutely. And that becomes very clear
19	because it's not simply that we are looking more
20	widely than BPL. Even when we're looking at BPL,
21	we're looking more widely than the CBLA. The CBLA
22	came into existence in December 1982, and so, with
23	some force, Dr Lane points out at various stages in
24	
24	the statement that the CBLA, which is the defendant to

25 the litigation, isn't responsible for decisions taken

1	
~	produced for the purposes of defending litigation.
2	It also essentially stops in 1985, and its
3	content is focused upon the particular allegations
4	that were being levelled against the CBLA and the
5	litigation.
6	SIR BRIAN LANGSTAFF: Yes. Well, I have to bear in mind,
7	I think, that this is the director of an organisation
8	which was a defendant.
9	MS RICHARDS: Yes, exactly.
10	SIR BRIAN LANGSTAFF: And though normally technically
11	a witness statement should contain and contain only
12	statements of material fact, most of the statements
13	that I've seen so far in this Inquiry have gone beyond
14	that in expressed views. I suppose, in one sense, you
15	can say it's a matter of fact as to what the view is
16	of CBLA.
17	MS RICHARDS: Yes.
18	SIR BRIAN LANGSTAFF: But I have to take care in looking
19	at it that way.
20	MS RICHARDS: Yes.
21	SIR BRIAN LANGSTAFF: And concentrate on what the facts
22	are with the assistance that he can give because he
23	was there and knew what other people around him had in
24	mind to do, and why things happen, and give such
25	weight to his comments as I think appropriate.
	110
1	by others seven years before it came into existence.
2	SIR BRIAN LANGSTAFF: Yes.
2	
3	MS RICHARDS: So that's why it's an unfortunate fact
3 4	MS RICHARDS: So that's why it's an unfortunate fact
4	that we don't have any evidence from Dr Lane in
4 5	that we don't have any evidence from Dr Lane in a broader context beyond this litigation statement,
4 5 6	that we don't have any evidence from Dr Lane in a broader context beyond this litigation statement, and of course beyond what you'll be able to see from
4 5 6 7	that we don't have any evidence from Dr Lane in a broader context beyond this litigation statement, and of course beyond what you'll be able to see from the contemporaneous documents, most of which, as
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in haematology in Glasgow, the department of

pathology, Royal Maternity and Samaritan Hospitals.

Between 1962 and 1966, he was a Research Fellow

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24

		me
1	And then from 1966 to 1973, he was employed as	
2	a scientific officer at the Medical Research Council's	
3	experimental haematology unit at St Mary's Medical	
4	School. He also during that period, from '69 to '70,	
5	spent some time in the States as a Senior Fellow of	
6	Medicine at the University of Washington's department	
7	of haematology and medicine and at the King County	
8	Central Blood Bank in Seattle.	
9	Then from 1973 to 1975, he held a post as	
10	a lecturer in haematology at St George's Hospital.	
11	And then from 1975 until his appointment to BPL,	
12	he was a consultant haematologist to the Northeast	
13	Thames Regional Blood Transfusion Centre in Brentwood,	
14	Essex. So not, I think, a Regional Transfusion Centre	
15	Director but a consultant based at the regional	
16	Transfusion Centre for a period of time.	
17	In 1977, April '77, he became the Director	
18	Designate of BPL in anticipation of Dr Maycock's	
19	retirement, and then he took over from Dr Maycock as	
20	Director in September of 1978.	
21	There is an introductory section in his	
22 23	statement in his proof that's worth looking at, so	
23 24	if we can have the proof back on screen, please, Paul. CBLA0000005_002.	
24 25	If we go to page 2, you'll see there's a section	
20		
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1	And an account of who had been the first chairman of	
2	the CBLA, and a brief account of the establishment of	
3	the CBLA, and a bier account of the establishment of the CBLA in November 1982.	
4	You'll see towards the bottom of paragraph 21	
5	there's reference to an appendix. I should have said	
6	there are number of appendices to Dr Lane's proof.	
7	I'm not, I think, likely to go to any of them, but	
8	I will just give details of the reference numbers for	
9	them.	
10	So they range from and this is just for the	
11	transcript, Paul; you don't need to pull anything	
12	up BPLL0004825 through to BPLL0004844. They cover	
13	a range of different issues, so the appendix, as	
14	referred to here, is simply a copy of the 1982 order	
15	which established the Central Blood Laboratories	
16	Authority.	
17	The second appendix which is referred to, if we	
18	go to the next page, paragraph 22, is a or includes	
19	a list of a range of committees, which may be	
20	useful at some point to consider.	
21	There are then there's then appendices	
22	regarding supply and demand which Mr Hill referred to	
23	in the presentation earlier in this week, and then	
24	a whole range of other matters.	
25	Those appendices have been disclosed to Core	
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5	5		

1	on BPL from paragraph 4 onwards. Mr Hill has taken			
2	you to some of the central facts in relation to BPL's			
3	history, so I don't propose to go through the detail			
4	of that, but that continues from paragraph 4 through			
5	to paragraph 13.			
6	You will see at paragraph 13 on page 5, Dr Lane			
7	references there the medicines inspection of the BPL			
8	facility in April 1979, and their report it was			
9	seriously substandard as a pharmaceutical			
10	manufacturing factory. And he picks up on that later			
11	in his statement, and I'll come back to that.			
12	If we go over the page, there's a very brief			
13	narrative in relation to PFL, but he mainly refers			
14	there to the evidence of Dr Smith which we looked at			
15	yesterday in that regard.			
16	Then if we go to page 7, there's a section			
17	headed "CBLA", and this is important for the reason			
18	I've already given: it's because the CBLA was the			
19	defendant or one of the defendants in the litigation,			
20	but had only come into existence with effect from			
21	1 December 1982. And you will see there set out an			
22	account of the membership of the CBLA which continues			
23	over the page. Details of the staffing of BPL.			
24	That is, I think, as at 1990, the date of the			
25	statement. 380 staff; in the case of PFL, about 30.			
	114			
1	Participants, but it's not my intention today to refer			
2	to them.			

to them. 3 Some of them gather together in information. 4 So, for example, there's some that gather together 5 information about advice given to Haemophilia Centre 6 Directors. I don't know, we don't know, who put the 7 appendices together. There's nothing in, for example, that appendix -- gathering together advice relevant to 8 9 Haemophilia Centre Directors -- that refers to any 10 material that we haven't otherwise seen. It's not in 11 fact complete. It doesn't include material that we 12 have seen, and so the appendices themselves are not 13 necessarily particularly reliable. They may have been compiled by Clifford Chance, or some of them may have 14 15 been compiled by Clifford Chance, but that's 16 speculation on my part. 17 We can then see the next introductory heading in 18 Dr Lane's proof is the "National Blood Transfusion 19 Service". And if we go over the page, we can see in 20 paragraph 25 Dr Lane's description of the National 21 Blood Transfusion Service, and this is a theme which 22 emerges in various points throughout his proof of 23 evidence and, indeed, in a number of the 24 contemporaneous documents. 25 If I pick it up four lines above subparagraph 116 (29) Pages 113 - 116

1	(a), Dr Lane said this:
2	"It [that's the National Blood Transfusion
3	Service] was, in effect, a loose confederation of 14
4	RTCs, regionally financed, which varied considerably
5	from region to region and were neither controlled nor
6	financed in the same way as BPL/PFL. There were
7	effectively four links with the Department of Health."
8	Then he sets out those links. The first is the
9	role of the part-time consultant and advisor on blood
10	transfusion to the Department of Health, which, as we
11	know, after Dr Maycock's retirement, was Dr Tovey who
12	thereby provided a link between the Department of
13	Health and the Regional Transfusion Directors but had
14	no particular link with BPL, unlike Dr Maycock, and
15	then became Dr Gunson.
16	The second link is the periodic meetings of
17	Regional Transfusion Directors, but as Dr Lane there
18	observes:
19	"This 'body' was not constituted statutorily.
20	The meeting carried no executive function, and
21	although its purpose was in part to advise the
22	consultant advisor, it served as an unofficial
23	informal mechanism for exchange of information between
24	constituent units of the NBTS and the [Department of
25	Health]."
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1	Health. Obviously we've heard a range of evidence in
2	relation to that.
3	Then, over the page, this is a statement of
4	opinion on the part of Dr Lane, but nonetheless worth
5	considering. He says at paragraph 26:
6	"I think it is fair to say that the
7	organisation which existed within the Transfusion
8	Service during the period which is relevant to this
9	litigation, limited the development of the national
10	aspects of the service. The RTCs were poorly
11	represented centrally as described above, and the
12	Central Committee itself was only an advisory
40	committee to the DOI I and an actional or any other

committee to the DOH and, on national or any other aspects of the Transfusion Service, the DOH was not (for procedural reasons) able to instruct Regions on the allocation of finance to [Regional Transfusion Centres]. The [Regional Health Authorities] were not necessarily involved in national policy-making for the NBTS, although central policies quite require RHAs to commit allocations of extra funds from Regional budgets to finance development at RTCs." So, in one sense, nothing there that we haven't heard from other sources, but we note there that that was Dr Lane's perception as well.

The next introductory section of his proof is

	inquity to match Lot
1	If we go to the next page, the third link
2	between the Transfusion Service and Department of
3	Health described as the "Central Committee for the
4	[National Blood Transfusion Service] was formed by the
5	[Department of Health]".
6	We see there the terms of reference set out.
7	Then if we go further down the page, in terms of
8	its membership Dr Lane says:
9	"The part-time Consultant Adviser and two
10	elected Regional Transfusion Directors were members of
11	this Committee. The Committee included
12	representatives nominated by the Royal College and
13	other members The Chairman was the Deputy Chief
14	Medical Officer of the [Department of Health]."
15	Then the fourth link, the meetings of the
16	regional donor organisers under the chairmanship of
17	a senior administrator of the Department of Health:
18	"This particular Committee existed largely to
19	review publicity material for blood donor recruitment,
20	since much of this material, which was of a high
21	quality, was produced separately by the DOH in
22	conjunction with the Central Office for Information
23	('COI')."
24	So that's Dr Lane's account of the links between
25	the Blood Transfusion Service and the Department of
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4	
1	headed "Haemophilia". I don't propose to go through
2 3	anything that was set out there by way of a very brief summary in relation to bleeding disorders.
3 4	If we go to page 14, there's then a heading
4 5	"Coagulation factors - preparation and use". There's
6	a reference to cryoprecipitate in paragraph 34.
7	Halfway through paragraph 34 we can see Dr Lane
, 8	observing that cryoprecipitate was the principal
9	product used to treat haemophiliacs for a long time
10	and confirming that BPL and PFL have never produced
11	cryoprecipitate, that's always been produced by the
12	Blood Transfusion Centres.
13	Then we'll note on the next page, paragraph 37,
14	Dr Lane provides details of the names of the BPL and
15	PFL products. So 8IP became HL, the BPL intermediate
16	purity product. And then the PFL product, 8CRV, as
17	we've already heard. And then the intermediate
18	concentrate Factor IX was 9D. And then he refers to
19	these being replaced by the heat-treated products 8Y
20	and 9A.
21	There is then some observations about risks of
22	viral transmission, which I'll come back to.
23	There's a section in the statement starting on
24	page 19 about HIV.
25	Then, if we go to page 20, you'll see the

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1	structure, then, of the statement that emerges.	
2	So Dr Lane sets out in the proof the claims	
3	advanced against the CBLA in the re-amended main	
4	statement of claim.	
5	Then if we go over the page, we will see the	
6	first main topic which Dr Lane addressed in the proof	
7	of evidence, and that's "Self-sufficiency and the	
8	Blood Transfusion Service".	
9	Before we look at any of the detailed content	
10	of it, the structure of this part of Dr Lane's proof	
11	was as follows. He set out an overview, setting out	
12	in broad terms his view on matters relating to	
13	self-sufficiency. He then sets out, year by year, a	
14	chronological narrative, but it's a narrative by	
15	reference to individual documents. And what we don't	
16	know is how the documents were selected or by whom.	
17	And so you will see as we go through it, but he has	
18	a heading for each year. He sets out certain	
19 20	documents relevant to that year. Not necessarily	
20	a comprehensive account but nonetheless there is a lot of material that he refers to.	
22	Sometimes he simply describes the document and	
22	the event to which it relates, so a paragraph might	
24	simply say, "I sent a memorandum", and then there's an	
25	accurate summary of what the memorandum said, but	
	121	
1	Factor VIII concentrate which carried a higher risk of	
2	contamination with HIV."	
3	And then paragraph 60 refers to the position in	
4	relation to Factor IX, the assertion that England and	
5	Wales was self-sufficient in relation to Factor IX.	
6	Then paragraph 61 sets out Dr Lane's response in	
7	a nutshell:	
8	"My own opinion is that the Plaintiff's	
9	contention is probably correct. In a way the data	
10	that has emerged it regard to the relative extent of	
11 12	HIV infection amongst haemophilia B sufferers treated exclusively with NHS Factor IX produced by BPL/PFL	
13	suggests that pro rata there was a lower incidence of	
14	infection when compared with the rate of infection of	
15	haemophilia A sufferers who used commercial US	
16	Factor VIII concentrate. So far as we are aware,	
17	there is little difference between Factor VIII and	
18	Factor IX in terms of their inherent potential to	
19	transmit HIV when manufactured from infected donations	
20	of plasma, and the quantity of Factor IX required to	
21	treat severe haemophilia B sufferers is comparable	
22	with the quantity of Factor VIII used by haemophilia A	
23	sufferers."	
24	Over the page:	
25	"Nevertheless, the pro rata incidence of HIV	
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siood	inquiry 18 March 2022
1	quite often there is additional comment or observation
2	by Dr Lane. And in what I draw your attention to this
3	afternoon, and Tuesday morning, I'm going to be
4	focusing on those paragraphs of relevance to the
5	issues that you're considering, where Dr Lane does
6	something more than just describe the document or the
7	event, where he adds something by way of comment.
, 8	At the end of his review year by year in
9	relation to self-sufficiency, there is then a section
10	of the proof in which he sets out, or the solicitors
11	have set out for him, the allegations against the CBLA
12	in the re-amended main statement of claim, and then he
13	sets out his response on behalf of the CBLA to those
14	allegations. So that's the structure of the
15	statement. And that pattern is followed for the other
16	subjects in the statement. So when he goes on to
17	consider hepatitis, HIV, heat treatment and so on, it,
18	broadly speaking, follows a similar structure.
19	So if we then turn to the first topic, which is
20	self-sufficiency, at paragraph 59 Dr Lane sets out
21	the essential argument, or his characterisation of the
22	essential argument in the claim:
23	" that had England and Wales been
24	self-sufficient in Factor VIII concentrate, fewer
25	haemophiliacs would have required imported commercial
20	
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1	infection amongst haemophilia B sufferers is
2	lower"
2	And he sets out the two factors which he thinks
4	reflect that, of which the second is:
5	"the fact that Factor IX was manufactured
6	inclusively from plasma voluntarily donated in
7	the UK"
, 8	However, having agreed broadly with the
9	plaintiff's contention that had there been
10	self-sufficiency in Factor VIII, fewer haemophiliacs
11	would have required imported concentrates which
12	carried the higher risk of contamination, he then
13	qualifies that in paragraph 62 in the following terms.
14	And again, I'm going to read it out because this is an
15	important part of the position that he was advancing.
16	Picking it up in the third line of paragraph 62 he
17	said this:
18	"Because of the chronology associated with the
19	emergence of HIV and the length of time that it takes
20	to achieve 'self-sufficiency', it would be necessary
21	to build and plan a manufacturing facility during the
22	mid-1970s for production to have reached anything like
23	the level necessary to satisfy the needs of the
24	haemophilia A sufferers by the late 1970s when HIV,
25	(as it is now known), appeared."
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	124 (31) Pages 121 - 124

, ,

1	Pausing there, it may not be inaccurate to say	
2	that HIV first appeared in the late 1970s, but it's	
3	not entirely clear whether what he's saying that	
4	essentially by 1979, or the late 1970s, the die was	
5	cast in terms of HIV infection, because that wouldn't	
6	be reflective of the evidence the Inquiry has heard,	
7	which is that most of the infections took place during	
8	the course of the first half of the 1980s.	
9	In any event, the other point that Dr Lane makes	
10	is about the length of time that it would take to plan	
11	and build a manufacturing facility.	
12	And he says there:	
13	"The planning and financing of increases in the	
14	supply of FFP would have required a similar timetable.	
15	In short, any decision to pursue self-sufficiency as	
16	a goal, could only have been taken at a time when HIV	
17	was unknown and, therefore, on the basis that	
18	self-sufficiency was not just desirable but necessary	
19	for some other reason. The Plaintiffs suggest that	
20	such a reason was the risk presented by hepatitis and	
21	contend that, as with HIV, US commercial Factor VIII	
22	concentrate manufactured from plasma donated by paid	
23	donors was inherently more dangerous than the	
24	equivalent NHS product manufactured from voluntarily	
25	donated plasma. For the reasons given under the	
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- 1 SIR BRIAN LANGSTAFF: Yes.
- 2 MS RICHARDS: He goes on to say a little more at various
- 3 places in the statement about that, but yes, he's --
- 4 in one sense, obviously, the first part of that
- 5 sentence is correct: the decision to pursue
- 6 self-sufficiency in order to have the effect of
- 7 avoiding HIV would need to be taken not on the basis8 of HIV.
- 9 SIR BRIAN LANGSTAFF: No, no, because you don't know --
- 10 MS RICHARDS: It's obvious.
- 11 SIR BRIAN LANGSTAFF: But that -- leave aside the question
- 12 of whether one takes into account unknown viruses,
- 13 but ...
- 14 MS RICHARDS: Exactly.
- 15 SIR BRIAN LANGSTAFF: But it was -- the idea for -- which
- 16 seems to be put forward, which I'll have to give
- 17 further thought to, that what he's looking for is
- 18 something which is not just desirable, but necessary.
- 19 And that's a curious word.
- 20 MS RICHARDS: It is, and it's a very high test or high
- 21 threshold, potentially, to surmount.
- 22 SIR BRIAN LANGSTAFF: Yes.
- 23 MS RICHARDS: If we go to -- and of course, I mean,
- 24 amongst other matters, as we saw in Dr Smith's -- one
- 25 of Dr Smith's statements, by 1975 the World Health

1 heading 'Hepatitis' below [that's a stage of his 2 statement I'll come on to later], my view is that this 3 is fallacious. Additionally, hepatitis is very 4 different indeed in terms of risk when compared to 5 HIV." 6 Those are statements you will be able to assess 7 the validity of for yourself. What I think, in terms 8 of direct evidence, is perhaps more instructive is 9 what Dr Lane said in the next paragraph. SIR BRIAN LANGSTAFF: Can I just come back to one aspect 10 11 of it? Just go back to the previous page. 12 MS RICHARDS: Sorry, the previous page, please. Thank 13 you. 14 SIR BRIAN LANGSTAFF: Thank you. 15 It's what he says about halfway down, the 16 sentence beginning "In short". He seems to be saying 17 that the goal of self-sufficiency, if it was desirable 18 that's not enough for Parliament or Government or 19 a proper administration to decide that that's what 20 they should have. 21 MS RICHARDS: Possibly. Of course the goal of 22 self-sufficiency was neither, ultimately, the policy 23 of CBLA, and he's tailoring his evidence to what might 24 or might not be, as it were, laid at the door of 25 the CBLA.

1	Organisation itself was endorsing self-sufficiency for				
2	nations.				
3	SIR BRIAN LANGSTAFF: And whatever one may say about what				
4	happened, Parliament itself was told, and seemed not				
5	to disapprove, of a policy announced by the Minister				
6	for Health at the time, that self-sufficiency should				
7	be the aim.				
8	MS RICHARDS: Yes.				
9	SIR BRIAN LANGSTAFF: And that plainly wasn't on the basis				
10	of HIV as HIV.				
11	MS RICHARDS: No.				
12	SIR BRIAN LANGSTAFF: Yes.				
13	MS RICHARDS: Sir, if we go to the next page and look at				
14	paragraph 63, this is Dr Lane's take about the goal of				
15	self-sufficiency:				
16	"In the 1970s, self-sufficiency was considered				
17	desirable but it was not seen as an imperative in that				
18	external alternative sources of supply were				
19	available."				
20	That too is potentially quite curious, because				
21	clearly, the "external sources of supply", he must be				
22	referring to commercial concentrates. But in one				
23	sense the whole point of self-sufficiency is to avoid				
24	the need for the use of commercial concentrates. So				
25	it is arguably a slightly odd way of looking at				
	128 (32) Pages 125 - 128				

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1	things. It is, of course, only one sentence, but
2	there is there is, as we'll see, a little more
3	later on.
4	What we then get in the next couple of
5	paragraphs is Dr Lane setting out the position in
6	relation to the CBLA. He makes the point which is
7	absolutely correct, as a matter of fact that by the
8	point in time, in December 1982, when the CBLA took
9	over responsibility for BPL, approval had already been
10	given for the rebuilding of the new manufacturing
11	facility and upgrading of the existing facility. And
12	so that, as I understand it, leads to his assertion in
13	paragraph 65:
14	"In these circumstances CBLA cannot be
15	responsible for a failure to achieve self-sufficiency
16	aside from the fact that, in common with their
17	predecessors in managing BPL/PFL, they did not control
18	the Transfusion Service, and, more importantly, the
19	funds necessary to substantially increase production."
20	It's unfortunate, really, that what we have from
20	Dr Lane is only this statement in the context of the
22	litigation, because what we don't have, perhaps more
22	-
23 24	fully, is a warts and all account of more widely of what his fuller views might have been, because he is
24 25	here focused upon the position of the CBLA.
20	
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1	of severely affected haemophiliacs who were using the
2	largest quantities of commercial Factor VIII
3	throughout the latter part of the 1970s had already
4	become infected with HIV."
5	And the factual basis for that may be
6	questionable. Again, we will look and see what he
7	says later in the proof. But we have seen evidence of
8	a range of dates of seroconversion
9	SIR BRIAN LANGSTAFF: Yes.
10	MS RICHARDS: carrying on well into '83, '84, indeed
11	'85.
12	SIR BRIAN LANGSTAFF: Well, yes.
13	MS RICHARDS: Obviously, in some cases, even '86. That
14	raises slightly different issues.
15	Then he says in paragraph 68:
16	"In my opinion, to aim for self-sufficiency with
17	a view to achieving it before the emergence of HIV
18	would have to have involved taking a decision to do so
19	(and starting to implement this) by the mid 1970s and,
20	as I describe below, against the background of
21	inability on the part of all those concerned to make
22	any accurate assessment of what 'self-sufficiency'
23	really equated to and a complete lack of any knowledge
24	of HIV or the risk it was to present some 8 years
25	later."

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1	SIR BRIAN LANGSTAFF: Well, he's saying that
2	self-sufficiency wasn't necessary it might have
3	been desirable, wasn't necessary but anyway you
4	can't blame CBLA for it.
5	MS RICHARDS: Yes, that is essentially what he's saying.
6	SIR BRIAN LANGSTAFF: Or for failing to achieve it,
7	l mean.
8	MS RICHARDS: If we go over the page he also sets out some
9	views in relation to the position of the earlier
10	period, 1978 to 1982, and this may be, again, maybe
11	something that will need to be looked at with a degree
12	of critical analysis.
13	He says in paragraph 67:
14	"Nor do I believe that any decision taken during
15	the period from 1978 to 1982 when [North West Thames]
16	were responsible for BPL would have made any
17	difference to the scope of the problem now faced by
18	the Plaintiffs. If at the time NWT took over from the
19	Lister Institute in 1978 a decision had been taken to
20	rebuild the manufacturing facility, it would not have
21	been ready in less than three to four years (based on
22	our subsequent experience after 1982), and would only
23	have been commissioned in about 1981/82 at the
24	earliest. It is my opinion (see my comments under the
25	heading 'AIDS' below) that by this time, the majority
	130
1	The proof then refers to self-sufficiency
2	SIR BRIAN LANGSTAFF: Just come back for a moment, just
3	let me think about that. Can I just have that
4	highlighted? The paragraph we were on. The previous
5	page.
6	It's "the risk it was to present some 8 years
7	later". And what he is saying in the paragraph before
8	is that he sees the majority of the severely affected
9	haemophiliacs using the largest quantities of
10	commercial Factor VIII were already infected by
11	1981/82. And that would have been a it must be an
12	L-shaped curve or something of the sort. So
13	eight years back from then is 1973. I don't just
14	quite for the moment see how that fits together.
15	MS RICHARDS: Yes. Well, the eight years might be
16	a reference possibly, if you take the mid-1970s, in

- 16 a reference possibly, if you take the mid-1970s, in
- 17 paragraph 68, to 1983, which you could say is the year
- 18 in which the risk of HIV -- or HTLV-III/AIDS --SIR BRIAN LANGSTAFF: Became known --19
- 20 MS RICHARDS: -- became particularly acutely known.
- 21 SIR BRIAN LANGSTAFF: Or one might reasonably think it

132

22 did, yes.

23

- Well, HIV was known in 1982. It wasn't
- 24 necessarily known as risk to haemophiliacs then.
- 25 That's something I have to decide.

(33) Pages 129 - 132

4	NO DIOLARDO Mar And she in the first				
1	MS RICHARDS: Yes. And obviously there were the first				
2	reports of infections in haemophiliacs, or AIDS in				
3	haemophiliacs, halfway through 1982. But absolutely.				
4	The volume of evidence mounts up as we get into 1983				
5	and continues to increase.				
6	There are a number of different points that				
7	Dr Lane, it would seem, is making here. The issue				
8	about the inability to make an accurate assessment of				
9	what self-sufficiency really equated to is an issue				
10	which Mr Hill has been exploring during the course of				
11	the week, and we'll come on to see what Dr Lane says				
12	about various aspects of that shortly.				
13	The reference to "complete lack of any knowledge				
14	of HIV or the risk it was to present some 8 years				
15	later" goes back to this point about that he's saying:				
16	well, self-sufficiency might have been desirable but				
17	wasn't necessary because we didn't know of the				
18	existence of something like HIV. That obviously begs				
19	questions in relation to hepatitis, which we'll				
20	look at what he says about hepatitis in the course of				
21	the statement, but it also obviously raises the				
22	question that you referred to a few moments ago of				
23	unknown viruses and whether there was a proper				
24	understanding of the inherent dangers of use of blood				
25	and blood products, or whether you simply had to wait				
	133				
1	and then he explains why the end of 1985 has been				
2	taken as a cut-off.				
3	So if we turn over the page we'll see the				
4	heading "1973 to 1977", and we can see here some of				
5	the observations that Dr Lane makes in relation to				
6	that.				
7	I'm obviously not going to be reading out vast				
8	chunks of the statement or we'll be here forever but				
9	there are some paragraphs that I think are really				
10	quite important to read and this is one of them. So				
11	Dr Lane said this:				
12	"Self-sufficiency was considered a desirable				
13	objective [there's that word again] from about the				
14	early 1970s for several reasons."				
15	Then he identifies, first of all, the World				
16	Health Organisation advocacy. And then he observes				
17	this is five lines down:				
18	"From the point of view of England and Wales,				
19	another reason why self-sufficiency appeared desirable				
20	was the economic one. There was a general belief				
21	that it was more economic to manufacture Factor VIII				
22	through the state owned BPL/PFL than to purchase				
22	commercial product on the open market."				
23 24	Although Dr Lane then raises some questions				
24 25	about the economic argument on the basis that there				
20	-				
	135				

1	3

	- •
1	until HTLV-III came along and then respond.
2	SIR BRIAN LANGSTAFF: It may well be just a very clumsy
3	way of saying a lack of knowledge, or knowledge of the
4	risk, which you only had eight years later, as you've
5	pointed out, but even then that wouldn't put it in the
6	mid-seventies yes, you can put it, I suppose, in
7	the mid-70s, at very earliest '75. But it's yes,
8	it's curious. A curious number of years to choose,
9	I think.
10	MS RICHARDS: So we then have a heading "Self-sufficiency
11	in detail". And if we go to the next page, having
12	referred to a couple of the appendices, in
13	paragraph 71 of the proof Dr Lane suggests it might be
14	sensible to distinguish the period '73 to '77 and then
15	'78 to '85, because it's the latter period when he was
16	directly working at BPL.
17	And so he says that his comments in relation to
18	that first period, '73 to '77, are:
19	" derived from an examination of the
20	documents with the benefit of my background knowledge
21	as a consultant haematologist working in the North
22	East Thames Regional Blood Transfusion Centre."
23	Then in relation to the second period he said he
24	was director of BPL and he had firsthand knowledge of
25	the events relevant to the issue of self-sufficiency,
	134
1	was never a real assessment of what the cost was to
2	globally, as it were, to the state of BPL.
3	And if we look at the last few lines on that
4	page, he says:
5	"Since BPL/PFL were, however, fractionating FFP
6	produced by Transfusion Centres funded by Regional
7	Health Authorities, there was a cost involved and it
8	is not correct to characterise the NHS concentrates as
9	truly 'free'."
10	He also observes there was no system for
11	charging Regional Health Authorities for the product.
12	Go to the top of the next page. He repeats his
13	view that self-sufficiency was seen as desirable but
14	not immediately essential. This is now he's saying
15	at the start of the 1970s. And then he sets out what
16	he says were a number of obstacles in the path of
17	self-sufficiency. The first, and this is
18	paragraph 74, was the lack of "proper financial
19	co-ordination" to implement policies covering Blood
20	Transfusion Centres, which had to produce the plasma,
21	BPL, which had to fractionate it, the Haemophilia
22	Centres which made the decisions in relation to
23	treatment.
24	So a lack of co-ordination is his first point.
25	At paragraph 75 he then talks about the
	136 (34) Pages 133 - 136

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1	consequences of the system of funding whereby it was	1
2	Regional Health Authorities who were responsible for	2
3	the allocation of budgets, and the Department of	3
4	Health would not intervene. And then he contrasts	4
5	that, this is about nine lines down in paragraph 75,	5
6	with the position of BPL and PFL which he says were	6
7	"funded directly by the [Department of Health] which	7
8	closely controlled all but very minor expenditure".	8
9	He continues by pointing out that:	9
10	"Whilst the Regional Health Authorities	10
11	controlled the Blood Transfusion Centres there was	11
12	no discernible benefit to them flowing from their	12
13	expenditure to increase the supply of FFP for	13
14	fractionation Regional Health Authorities had no	14
15	direct control over the funding of BPL and PFL and	15
16	with it any expansion in their capacity to	16
17	fractionate. There was no direct correlation between	17
18	the [fresh frozen plasma] provided to BPL and the	18
19	amount of Factor VIII which they received back"	19
20	Until, obviously, we get to the pro rata system	20
21	later.	21
22	And then if we go over the page, paragraph 76,	22
23	he expands further upon this:	23
24	"The practice of the DoH in leaving Regional	24
25	Health Authorities to determine how they should spend	25
	137	
1	if we go over to the next page, paragraph 8, he makes	1
2	the point that throughout the '70s, estimates of	2
3	Factor VIII use were constantly increasing.	3
4	Then he sets out a number of points in relation	4
5	to those estimates. Paragraph 81, he says:	5
6	"First [of all] there was uncertainty as to what	6
7	was actually being produced at any given time."	7
8	And that's a reference to variability and	8
9	quality of plasma and yield of Factor VIII.	9
10	Secondly this is his paragraph 82, he says,	10
11	in terms of estimating demand, particularly in the	10
12	early '70s, there were problems because it was largely	12
13	cryoprecipitate that had been the basis for treatment,	13
14	and there was a lack of exactitude in estimating	14
15	international units of Factor VIII.	15
16	Then over the page, paragraph 83, there is	16
17	a further discussion there in relation to what he	17
18	describes as the compromise between yield of	18
19	Factor VIII and purity of the product.	19
20	If we pick it up at paragraph 84, what he says	20
21	is there is:	21
22	"The underlying problem (in retrospect) is that	22
23	those involved were sometimes thinking of different	23
24	things when considering self-sufficiency. For	24
25	Dr Maycock and some of those in the DOH,	25
	139	20

	the funds allocated to them and the distinct
	reluctance of the [Department of Health] to interfere
	in any way with the Regional Health Authorities
	autonomy created difficulties in striking a
	balance between increasing the supply of FFP and
	increasing the capacity of BPL/PFL to fractionate
	it"
	So there is a more detailed explanation of what
	he means by the lack of financial co-ordination.
)	And then if we well, there's an observation
	in paragraph 78, almost an aside, but perhaps picks up
2	on, I think, an exchange you had with Mr Hill.
3	There is a description there of Dr Maycock's
Ļ	responsibilities as consultant advisor to the
5	Department of Health, a role:
}	" (all of which he did 'with a staff of one,
,	no finance and no vested power or authority')"
}	Is the observation at the end of paragraph 78.
,)	Dr Lane then poses the rhetorical question:
,)	"What was 'self-sufficiency'? Reality proved
, 	difficult to forecast."
)	Then he sets out a range of facts, concerns,
-	views, about the issue of estimating the future
,	requirements for supply of Factor VIII concentrates.
r T	I'm not going to go through it line by line, but
)	
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	self-sufficiency was considered to mean the amount of
	plasma and concentrate produced from it which was
	needed to treat haemophiliacs in the way they were
	treated using cryoprecipitate. For others
	(particularly some clinicians), it was the amount
	wanted by their patients to lead as near normal a life
	as possible. Estimates arrived at on either basis
	were, as we now know, wrong."
h	Then what follows from paragraph 85 onwards, if
;	we go over the page, is a discussion of a range of documents relevant to issues about estimates of
)	demand, supply, and discussion of self-sufficiency.
<u>-</u>	
)	As I say, I'm not going to go to each and every
+ -	one of them or indeed to the vast majority of them,
)	not least because some of the most important ones have
)	already been flagged up by Mr Hill.
,	If we go over to page 33, we've got the heading
5	"1974", and this is Dr Lane's summary, albeit
)	a summary from the perspective of someone not directly
)	involved with the issue at this time. He says:
	" the year was one taken up with discussions
2	about the need to increase the production of
3	Factor VIII, and although the then Health Minister,
ŀ	Dr David Owen, became involved, not much was achieved.
)	The focus was very much on 1975 and the steps which
	140 (35) Pages 137 - 140

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1	might be taken during that year."	
2	Just note at the bottom of page 34, so over the	
3	page, paragraph 92, Dr Lane picks up on by	
4	reference to documents, but perhaps no doubt also	
5	informed by his own knowledge the need for	
6	investment in a new fractionation plant this is the	
7	fourth line of paragraph 92 and this requiring	
8	a policy decision by the Department of Health.	
9	If we just go to page 36 now, paragraph 96. As	
10	I say, I'm going to skate over most of the documents	
11	themselves, but this is the first reference to	
12	a repeated theme in Dr Lane's proof. And then it	
13	relates to Dr Lane's relationship with Mr Watt,	
14	director of the Plasma Fractionation Centre in	
15	Scotland, and his scepticism, this is Dr Lane's	
16	scepticism, about what was being said in Scotland and	
17	his scepticism about whether the PFC could provide any	
18	assistance in fractionating plasma produced in England	
19	and Wales.	
20	I'll show you a number of references in the	
21	course of the proof, but here we have Dr Lane saying	
22	this. This is reference to a I think a meeting of	
23	Haemophilia Centre Directors on 1 November 1974. It	
24	says this:	
25	"Mr Watt chipped in on two occasions with	
	141	
1	comments on 1975. He deals with 1975 in paragraphs 99	
2	to 109 of his statement. I just want to look at	
3	a couple of the paragraphs.	
4	Firstly, paragraph 99. He refers to statements	
5	in Parliament from Dr David Owen. The second half of	
6	paragraph 99 is, as I read it, Dr Lane's own comment.	
7	He says this:	
8	"Although the stated intention of the minister	
9	was to make the United Kingdom self-sufficient in two	
10	or three years, a one-off payment with a view to	
11 12	producing Factor VIII from some 275,000 donations was	
12	clearly not sufficient without continuing investment	
14	to increase the production of Factor VIII beyond this figure."	
15	So I take that as a comment from Dr Lane.	
16	Then if we go over the page to paragraph 104	
17	sorry, page 40, Paul. My apologies. He refers in the	
18	preceding paragraph to a March 1975 memorandum, and	
19	then we get Dr Lane's comments in paragraph 104.	
20	He says:	
21	"This gives some clue to the mismatch	
22	between the 'target' of producing Factor VIII from	
23	275,000 donations and what was actually required. My	
24	belief, as previously indicated, is that Dr Maycock	
25	and the DoH were concentrating on what was believed to	
	143	

1 comments relating to Scotland. His tendency in these 2 meetings (as discovered when I was employed by BPL) 3 was to talk either in terms of what Scotland aimed to 4 do, rather than what it was doing, or to try and score 5 points wherever possible by stressing how much more advanced Scotland was compared with England and Wales. 6 7 In practice, this was not too difficult given the 8 disproportionate amount of money per capita which 9 Scotland was receiving and spending on its transfusion 10 service and associated fractionation installation at 11 this time and for some years after." 12 In the course of looking at Dr Smith's evidence 13 this morning, sir, I drew attention to Dr Smith's 14 evidence about the good working relationship he had 15 with Dr Foster, so the good relationship between the 16 scientists involved in research and development, but 17 there is distinct evidence of tension at a managerial level, in particular between Mr Watt and Dr Lane. And 18 19 that's something that we may pick up on in the course of the presentation on Scotland next week. 20 21 But this is the first of a number of references 22 in Dr Lane's proof in which he takes issue with what's 23 being said by Mr Watt, or what's being put forward 24 about the Plasma Fractionation Centre. 25 If we move to page 38, we get to Dr Lane's 142 1 be the appropriate level of production to treat 2 patients when a bleed occurred. Use of Factor VIII 3 for home prophylaxis (which was to become the norm) 4 was a significant factor which may in part explain 5 some of the discrepancies between what BPL actually 6 resolved to produce and what others estimated was 7 actually needed." 8 Then he refers to: 9 "... a reference [in the memorandum] to 10 Factor VIII yield from plasma being in the order of 30 to 40%." 11 12 And, again, this is Dr Lane's take on the 13 document. "This is frankly absurd even at the time this 14 15 memorandum was produced. At the time, yields would 16 have been in the region of 20%, and I'm somewhat 17 puzzled as to why figures which were obviously very 18 optimistic were not challenged by Dr Maycock at the 19 time, since he obviously received a copy of the 20 memorandum, and his manuscript note gives no 21 indication of disagreement with this part of the 22 text". 23 If we move to 1976 then on page 43. And 1976 is 24 covered in paragraphs 110 to 131 of the proof. Again, 25 I don't propose to look at them in their entirety. 144

(36) Pages 141 - 144

			i quin y
1	You'll note the observation in paragraph 110 by	1	to BPL
2	Dr Lane is:	2	
3	"This year was yet again punctuated by confusing	3	three :
4	statements as to 'targets' for the achievement of	4	schem
5	self-sufficiency."	5	then th
6	If we go over the page, then, and pick matters	6	that in
7	up sorry, Paul, the previous page. Bottom of	7	
8	page 44. Paragraph 114. This is a reference to	8	1 Dec
9	a practice introduced, according to the proof in	9	which
10	December 1976, whereby:	10	directo
11	"NHS factor concentrate was delivered to the	11	
12 13	Regional Blood Transfusion Centres in an amount	12	pro rai
13	proportional to the number of patients treated at the	13 14	we've
14	Haemophilia Centres of in that region in 1974." Then if we skip down a few lines, picking it up	14	popitic
16	on the fifth line on that page:	15	positic introdu
10	"Up until that point, I think it's fair to say	18	
18	that the distribution was somewhat <i>ad hoc</i> . The	18	the pro
19	documentation from the earlier 1970s reveals	18	attenti
20	correspondence from clinicians on behalf of individual	20	Dr Wa
20	patients seeking supplies direct from BPL, and there	20	paragi
22	seemed to be no established and formalised procedure	22	meetir
23	adopted with regard to the distribution of	23	thorou
24	concentrates, particularly one which encouraged Blood	23	anoroa
25	Transfusion Centres to increase their supplies of FFP	25	sugge
	145		33-
1	20 to 25% and that their aim at Edinburgh was to	1	ic in r
1 2	30 to 35% and that their aim at Edinburgh was to	1	is, in p
2 3	achieve a 70% yield. Not only was the yield of 30 to 35% much higher than I would have expected was	2 3	produo forthrig
4	possible at that time, but 70% was, frankly, ludicrous	4	perha
5	on any view. For the same reason, I would be	5	perna
6	suspicious about the costings contained in the same	6	units v
7	document where Mr Watt, again trying to go one better,	7	far as
8	suggests that the Scottish product costs 4.2p per	8	the fut
9	international unit against the NHS product which seems	9	look w
10	to be estimated (I'm not sure how) at costing 6p per	10	plan a
11	international unit."	11	of the
12	Then the bottom of that page, paragraph 120,	12	demar
13	refers to a paper prepared by Dr Maycock. I'm not	13	withst
14	going to take you to the underlying paper I think	14	level c
15	it's probably one you've already seen but just to	15	unforti
16	Dr Lane's commentary on it.	16	no gro
17	So he says:	17	the pa
18	"The figures in this paper look rather more	18	
19	satisfactory than some of those appearing in	19	estima
20	Dr Maycock's earlier calculations, although a 30%	20	
21	yield which he assumes is still, in my view, too high.	21	accura
22	20% would have been closer to the real yield."	22	it perh
23	And then there are some further observations on	23	difficu
24	figures in the following sections of the statement.	24	the tin
25	If we then perhaps turn to page 51 next. This	25	
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	18 March 202
to BPL."	
And essentially what he identit	fies is really
three stages: the ad hoc position prio	r to 1976; the
scheme introduced with effect from D	ecember 1976; and
then the pro rata scheme, and we see	e a reference to
that in paragraph 115. He says:	
"The scheme introduced with	effect from
1 December 1976 was a prelude to a	later arrangement
which I was instrumental in introducin	ig after I became
) director of BPL which we called 'pro r	ata'."
Then he goes on to give a des	cription of the
	-
 pro rata scheme which I don't need to we've heard lots of evidence about th 	-
But those, in any event, are hi	s views about the
-	
 position in relation to supply prior to the introduction of what he refers to as the 	e prelude to
7 the pro rata scheme.	
3 If we turn on then next to page	e 47, just draw
attention in paragraph 119 to a furthe	r reference to
Dr Watt. If we pick it up halfway through	ugh
1 paragraph 119, and this is Dr Lane co	ommenting upon a
2 meeting that took place on 11 March 3 thorough that paragraph, Dr Lane say	1976. Halfway
3 thorough that paragraph, Dr Lane say	/s this:
1 "Typically, Dr Watt from PFC i	n Scotland
5 suggested that Edinburgh's yield was	in the region of
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is, in paragraph 128, Dr Lane talking	about a document
produced by Dr Maycock. It's an acc	ount in fairly
forthright terms. Dr Lane says this, p	icking it up
perhaps in the fourth line:	
"Clearly, the idea that 40 millio	on international
units was to be the target was pointle	ss. It was, as
far as anyone could tell at the time, th	ne existing not
the future demand, and any planning	exercise needed to
look well beyond existing usage to ful	
) plan accordingly. The graph sketche	
I of the last page suggests that Dr May	
2 demand would flatten out quite consid 3 withstanding the extraordinary steep	
5	
level of consumption as it then stood.	
5 unfortunately entirely bogus. In my vi	
6 no grounds for believing that the dem	and would follow
the pattern shown on the graph."	

Then he goes on to talk about his attempts at estimating likely demand when he joined BPL in 1977. Again, I'm not going to go to the underlying accuracy or otherwise of the documents themselves, but it perhaps casts some light on some of the difficulties that appear to have been experienced at the time. Then if we go over the page, we can see, in

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1	paragraph 131, this is Dr Lane's summary about 1976.	
2	Obviously, he looking back, because he was not	
3	involved at the time, so he's looking at the	
4	documents, presumably bringing his own subsequent	
5	knowledge to bear.	
6	And he says this:	
7	"Summarising 1976, the year appears to have been	
8	dominated by the continuing cryoprecipitate debate,	
9	the implementation of increases in production	
10	facilitated by the £500,000 injection of finance, and	
11	debate about the 'target' necessary to achieve	
12	self-sufficiency and the confusion sown in all this by	
13	'targets' which related to capacity to produce rather	
14	than volume necessary to achieve self-sufficiency, and	
15	to what was needed rather than what the patients and	
16	clinicians wanted. Throughout the debate, there is no	
17	intervention from the Department of Health. At the	
18	time, the mismatch between what was being achieved	
19	(with a struggle), what was required to meet the	
20	current self-sufficiency requirements in concentrate	
21	and what, had anyone looked beyond current usage,	
22	would be necessary to achieve self-sufficiency for the	
23	future was all too obvious. Decisive action would	
24	have been required (backed by considerable funding) to	
25	plan a facility which would be ready by the end of the	
	149	
	145	
	143	
1		
1	in planning for the 'Stop-Gap' proposals to further	
2	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until	
2 3	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until Dr Maycock's retirement in September 1978 that I found	
2 3 4	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until Dr Maycock's retirement in September 1978 that I found I was able to exert much influence or control over	
2 3 4 5	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until Dr Maycock's retirement in September 1978 that I found I was able to exert much influence or control over BPL/PFL."	
2 3 4 5 6	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until Dr Maycock's retirement in September 1978 that I found I was able to exert much influence or control over BPL/PFL." If we go next to page 55, paragraph 137. Now,	
2 3 4 5 6 7	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until Dr Maycock's retirement in September 1978 that I found I was able to exert much influence or control over BPL/PFL." If we go next to page 55, paragraph 137. Now, this is, I think, a reference to a meeting of	
2 3 4 5 6 7 8	in planning for the 'Stop-Gap' proposals to further upgrade the BPL facilities, it was not until Dr Maycock's retirement in September 1978 that I found I was able to exert much influence or control over BPL/PFL." If we go next to page 55, paragraph 137. Now, this is, I think, a reference to a meeting of Haemophilia Centre Directors in January 1977. I'll	
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1	decade and of a size which would leapfrog sufficiently
2	far ahead to cater for the burgeoning demand for
3	Factor VIII concentrate."
4	So on one view of what Dr Lane is there saying,
5	he's saying it could be said he's saying that in
6	1976, it was obvious what was needed, which was the
7	provision of funding and the policy decision to
8	rebuild BPL.
9	SIR BRIAN LANGSTAFF: Yes.
10	MS RICHARDS: We're now at 1977, page 53. We've still got
11	quite a few years to come.
12	Paragraphs 132 to 166 of Dr Lane's proof deal
13	with 1977. He now goes into rather a lot more detail
14	because obviously this is the point in time at which
15	he took up the position of Director Designate.
16	Mr Hill has referred to this already, but it's
17	just perhaps worth looking again at what Dr Lane says
18	in paragraph 132, in which he says in the third line:
19	"I should point out (and this will be apparent
20	from any of the minutes of the meetings
21	between April 1977 and September 1978) that Dr Maycock
22	kept me very much in the background. He continued to
23	attend Transfusion Directors meetings, etc, as
24	representative of BPL/PFL without me, and although, as
25	I explain below, I was given some specific work to do
	150

1	"This figure was nonsense but was not apparently
2	challenged in the meeting if the minutes are correct.
3	As I shall describe below, it subsequently became
4	apparent that Scotland was not in a position to make
5	any real contribution to the requirements in England
6	and Wales for Factor VIII concentrate, but at this
7	meeting, a comment was made that it seemed as if
8	Liberton had capacity to supply Factor VIII for the
9	whole of the United Kingdom."
10	Then there is a quote from what it's said
11	Dr Waiter was saying at the bottom of the page, about
12	plans to divert plasma from south of the border to
13	Liberton.
14	Then if we go over the page, Dr Lane's take at
15	the top of the page is:
16	"In fact, so far as I can tell, whatever plans
17	the DoH may have had, nothing ever came of them."
18	If we go to page 57 next, please, paragraph 143,
19	you'll see there Dr Lane associating himself in terms
20	of his agreement with a memorandum produced by
21	Dr Gunson in May 1977, about the organisation of the
22	National Blood Transfusion Service. And picking it up
23	in the fourth line, Dr Lane says:
24	"This was a submission [this is the document
25	produced by Dr Gunson] which embodied comments and
	152 (38) Pages 149 - 15

(38) Pages 149 - 152

1	views of all the directors of Regional Transfusion	
2	Centres (including myself in my former capacity prior	
3	to joining BPL). As it transpired, it had very little	
4	impact. The thrust of the document was that there was	
5	a lack of central co-ordination within the National	
6	Blood Transfusion Service."	
7	And then Dr Lane then elaborates upon that in	
8	rest of this paragraph. And if we pick it up in the	
9	last five lines or so, Dr Lane says:	
10	"Notwithstanding the position, the problems	
11	identified in it persisted, and it was only in 1988	
12	that a National Directorate for the NBTS was	
13	established."	
14	Then he observes, and we've heard this from	
15	evidence from Dr Moore and others:	
16	"The National Directorate remains mainly	
17	advisory and without regional executive authority."	
18	Over the page to paragraph 144, we're on	
19	Scotland again:	
20	"I have mentioned previously [says Dr Lane] that	
21	there appears to be a disproportionate amount of money	
22	spent on the Scottish Blood Transfusion Service, and	
23	this discrepancy in funding is exemplified on page 9	
24	of the submission."	
25	Then he identifies the figures:	
	153	
1	"It was at my insistence that this paragraph was	
2	inserted. The indecision as to whether or not to	
3	redevelop BPL in line with what was clearly required	
4	by this time [and this time is now 1977] was becoming	
5	confused by DoH intentions to utilise PFC Liberton to	
6	some extent, a state of affairs which was not helped	
7	by exaggerated claims made by the director of PFC	
8	Liberton [that's Mr Watt again] for its operational	
9	capacity."	
10	Dr Lane then sets out a reference to an appendix	
11	to the report. Again, this is a document you've	
12	already looked at, so I am not going to go over it.	
13	But you'll see over the page at paragraph 155,	
14	Dr Lane sets out the conclusions he'd recorded in the	
15	appendix. If we just pick it up because it may be of	
16	relevance when you come to evaluate some of Dr Lane's	
17	broader statements about self-sufficiency. At the end	
18	of that first paragraph that we see on the screen,	
19	Dr Lane says that:	
20	"The effects of shortage of finance can be	
21	mitigated in several ways which this paper seeks to	
22	show."	
23	If we go to the next page, point (d) is:	
24	"Adhering to the Department of Health's	
25	principle that the health service shall make all	
	155	

1 "In 1975/76, expenditure on the National Blood 2 Transfusion Service in England and Wales ... 3 £15.8 million for a population of some 49 million, 4 compared with expenditure of £3.5 million in Scotland, 5 where the population was only 5.5 million." 6 And, again, the reference to the need for 7 a central organisation for national planning if the 8 NHS was to receive sufficient blood and blood 9 products. 10 If we then just look at bottom of page 59 ... 11 there's reference there to a report produced for the 12 Advisory Subcommittee on Blood Products and Blood 13 Group Reference Laboratories of the Central Committee 14 for the National Blood Transfusion Service. That's 15 paragraph 148. 16 And then Dr Lane sets out over the page a 17 citation from it. It's been referred to in Mr Hill's presentation. What I wanted to show you is what 18 19 Dr Lane says on page 61. 20 So having set out an extract from the document, 21 paragraph 151, he refers to and sets out a particular 22 passage which concludes with the sentence: 23 "Planning the future of BPL should not wait 24 until the problems of PFC have been resolved." 25 Then we see at paragraph 152, Dr Lane says this: 154 1 possible attempts to become self-sufficient. 2 "The Director Designate of BPL [so Dr Lane] 3 hopes the Central Advisory and executive bodies will reaffirntheir intent to make the NBTS 4 5 self-sufficient." 6 So it did appear to be, does appear to have been 7 Dr Lane's view in 1977 that self-sufficiency was 8 absolutely the goal, even though we've seen the 9 earlier passage in his statement where he suggests it 10 was a desirable rather than a necessary objective. Just observe paragraph 156. He says: 11 12 "[That] report generated limited response from 13 the Department of Health." Let me just finish 1977 before we break. So if 14 15 we go to -- if we go over the page to page 64, this is 16 reference to a meeting in October 1977. Again, you've 17 seen reference to this meeting elsewhere. If we go --18 and Dr Lane was present at this meeting. If we go to 19 the top of the next page, you'll see Dr Lane suggests 20 by reference to the minute that: 21 "... the Department of Health made it ... clear 22 ... no commitment could be made at that stage to any 23 specific solution." 24 It then refers to Dr Lane's summary of three 25 main problems.

(39) Pages 153 - 156

1	If we go over the page sorry. Always
2	a problem trying to take things too quickly.
3	Go to the bottom of the previous page,
4	paragraph 161. There's an extract there again from
5	the document referring to Mr Parrott explaining the
6	Department of Health's thinking on future planning for
7	BPL.
8	Then over the page, and this is just to give you
9	Dr Lane's take in his proof on aspects of the meeting.
10	Paragraph 162. Referring to Mr Parrott's use of the
11	phrase "low-cost selective development", Dr Lane says
12	this:
13	"I would comment this was not in line with
14	Dr David Owen's objective as stated two years
15	previously, that self-sufficiency should be pursued."
16	So that appears to be Dr Lane's understanding of
17	what the position was, in terms of the policy.
18	And then, again, Scotland:
19	"It is also worth noting that the wheels were
20	beginning to turn in Mr Parrott's mind as to the
21	advisability of reliance on the Scottish plant.
22	However, his manuscript amendment refers to 'not being
23	totally reliant' on the Scottish PFC at Liberton. At
24	this stage, Mr Parrott had not yet been to Scotland."
25	There is then, if we just look at paragraph 164,
	157

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1	(3.45 pm)
2	SIR BRIAN LANGSTAFF: Yes.
3	MS RICHARDS: Sir, we've reached 1978. As you heard
4	earlier in the week, in April 1978 the announcement
5	was made by the Lister Institute that it proposed to
6	close its laboratories at Elstree.
7	That prompted Dr Lane to write a report
8	addressed to Professor Mollison. He refers to it in
9	his witness statement at paragraph 170, but here I'd
10	like to show you the underlying document.
11	It's CBLA0000758.
12	Sir, you can see there it's headed "Closure of
13	the vaccines and sera laboratories of the Lister
14	Institute, Elstree, and the implications of the Blood
15	Products Laboratory", to Professor PL Mollison. And
16	we know it's from Dr Lane from his statement although
17	the signature is somewhat indistinct.
18	If we go to the bottom of page 2, we see
19	a heading "The future of BPL at Elstree" and the
20	various implications which Dr Lane then sets out.
21	What I wanted to do, however, is take you to page 4
22	under the heading "Future administration of BPL".
23	Dr Lane says this, picking it up in the fourth line:
24	"BPL is expanded to become a considerable
25	international resource within the Health Service and

1	a reference to Dr Maycock's first Stop-Gap paper.
2	I don't need to take you to that, but if we just go to
3	the next page, we see Dr Lane's observation:
4	"I am bound to say that the report itself was
5	prepared without knowledge of Department of Health's
6	intentions so far as Elstree was concerned,
7	particularly with respect to the planned use of PFC
8	Liberton."
9	So you'll have seen by now a consistent theme in
10	the proof of evidence is Dr Lane's concern about what
11	he says are the claims being made by Liberton but also
12	his concern that somehow the consideration of the use
13	of Liberton, which he thinks is essentially not a good
14	idea and you'll have to evaluate for yourself in
15	due course, sir, perhaps whether he was right or not.
16	But his concern that that somehow having an effect on
17	the decision-making process in relation to the
18	Department of Health.
19	That brings us to 1977, the end of 1977, and
20	time for a cup of tea.
21	SIR BRIAN LANGSTAFF: Yes.
22	Well, I think cup of tea will help us to reflect
23	on that. 3.45.
24	(3.21 pm)
25	(A short break)
	158

1	must increase much further to meet the projected
2	requirements for blood products scheduled over the
3	next ten years. As an operation within the health
4	service it stands alone, by its own development,
5	contains the expert opinion needed to guide and plan
6	future running and redevelopment. BPL should now have
7	its own administration so that it can function as
8	a complete unit."
9	Then Dr Lane sets out some suggestions as to
10	what the constitutional arrangements should be for
11	BPL.
12	Then if we go to the top of the next page, this
13	really the observation I wanted to draw attention to.
14	At the beginning of the page it says this:
15	"Development of BPL is hampered predominantly by
16	the inordinately slow process of decision-taking by
17	DHSS."
18	So that's the general observation Dr Lane there
19	makes. Then he goes on to again to talk about what
20	arrangements could be put in place for the running of
21	BPL in the future. He says:
22	"By interposing professionally inappropriate
23	controlling bodies between management of BPL and DHSS
24	merely serves to delay planning and to remove from
25	DHSS the need to maintain an essential and close
	160 (40) Pages 157 - 160

1	contact with BPL so that its administration is always
2	fully informed. BPL is a DHSS Central Laboratory in
3	the Transfusion Service it would not benefit from
4	the constraints of a governing body poorly represented
5	in blood transfusion skills."
6	Then the last paragraph on that page talks about
7	the advantage of fully constituted managing
8	subcommittee.
9	If we go back to the statement then, at
10	CBLA0000005_002, page 70, you'll see in paragraph 170,
11	Dr Lane refers to the report we've just looked at, his
12	report to Dr Mollison, and sets out how he viewed
13	the Lister's closure as a unique opportunity for the
14	development and future of BPL.
15	Then paragraph 171 he then talks about
16	the significance of the closure of the Lister
17	Institute, for a number of reasons:
18	" jeopardised the status of the 1978/79
19	budget Stop-gap proposals needed review because
20	the future of existing building was unknown.
21	Activities had, therefore, to be diverted to such
22	questions as the future of the site, the future of BPL
23	and the question of long term management. As the
24	position presented itself, operations could have
25	ceased."

1	"Its formation and work was criticised by
2	Scotland."
3	And then there are some observations in
4	paragraph 174. Dr Lane says:
5	" I think it is worth making the point that
6	so far as FFP production was concerned, three
7	opportunities presented themselves during the period
8	relevant to this litigation. The first was that
9	resulting from the David Owen £500,000 injection.
10	This enabled BPL to effectively double its production
11	of Factor VIII concentrate The second was the
12	development of optimal additive solutions permitting
13	blood to be totally separated resulting in an increase
14	of 30% in recovered plasma volume The third
15	opportunity to increase FFP could have resulted from
16	more use of plasmapheresis, enabling donors to donate
17	a greater plasma volume. The introduction of single
18	plasma donations and pro rata return to RHAs of
19	products in relation to volume of plasma supplied to
20	BPL were further contributory factors."
21	So there is summary from Dr Lane of a number of
22	factors which he identifies as significant in terms of
23	the ability to increase the supply of plasma.
24	Then if we go to the bottom of page 73, this is
25	following a discussion about Dr Maycock's report,

1	Reference to Dr Maycock's retirement.
2	"It was possible that the DoH would"
3	Then we see another constant theme:
4	" perceive an immediate need to resort to
5	Scotland for Factor VIII concentrate if the Scottish
6	figures were to be believed."
7	Then he says:
8	"As it turned out, the closure could not have
9	come at a better time The Department decided to
10	buy the Lister site" et cetera.
11	Then if we go down to paragraph 173, on the same
12	page, you'll note the reference to a Regional
13	Transfusion Directors meeting on 5 July. I don't
14	propose to take you to the detail of that and, again,
15	I think some of it you've seen from Mr Hill's
16	presentation, but you'll note that Dr Lane says, as he
17	recalls this was the first meeting of the Regional
18	Transfusion Directors which he was permitted to
19	attend, notwithstanding that he'd been director
20	designate for over a year by that time.
21	There's just a reference at the very bottom of
22	that page to the "Single Bag" committee. I'm not
23	going to go into that topic in any detail but, if we
24	go over the page, you'll see there the tension with
25	Scotland, with Dr Lane saying:
	162
1	which again was covered in Mr Hill's presentation.
2	At the bottom of the page, paragraph 179,
3	Dr Lane makes this observation:
4	"In retrospect, however, the Owen initiative
5	rebounded on the Service in that it supported growth

in demand for Factor VIII but only a basis for limited supply and growth in output from NBTS and BPL sources. The growth at BPL focused attention on the effects of transition from a development laboratory to a manufacturing enterprise, now seriously below pharmaceutical standards.

"180. The problem was that the basic infrastructure of BPL remained one which was appropriate to a laboratory engaging in research and relatively small scale production. The buildings dating back to the 1950s were old, small and not appropriately designed for manufacturing. In 1979 the Medicines Inspectorate condemned the facility. However, whilst still inadequate, it was now a facility making a significant contribution to the increasing in requirements to haemophiliacs for Factor VIII concentrate. In retrospect it would have been less disruptive to the NHS if the consequences of inspection had been met in 1976 when the Licence Application to manufacture was submitted to the DoH."

(41) Pages 161 - 164

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page 86.

Then Dr Lane goes on to consider, at the bottom

If we go to page 81, paragraph 193 is Dr Lane's

"From my discussions with the Inspectors during

2 May 1979, addressed to Mr Dutton in the DHSS,

And then in the second paragraph he says this:

"I would like to reiterate that from my point of

of that page, his paper on the function of Stop-Gap

and phased redevelopment of the Blood Products

However -- and indeed it's been looked at I think in

the course of their visit, my expectation that they

2nd May 1979, I wrote to Mr Dutton at the DH ...

setting out my observations on their visit prior to

and he says in the last part of the first paragraph

that he believes his own views will "differ but little

view as the new director, the visit of the Medicines

Division describes the laboratory very much in the

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laboratory which did not stem from three things:

first, intrinsic deficiencies of the building and the

constraints arising primarily out of the leasehold

a quantitative and qualitative deficiency in staff

arising from our inability to compete with industry at

the level required to recruit process/technical and

between what Malcolm Harris chose to call, quite

aptly, a 'cottage industry' into a major production

those points further in the course of the letter.

proof I should say, CBLA0000005_002, and go to

a paper he'd authored about the continuation of

Stop-Gap at a meeting of the Scientific and Technical

Committee in June '79, and he says in paragraph 206:

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process moulded along commercial industrial lines."

Then Dr Lane goes on to develop a number of

If we go back to his witness statement, draft

So he is here commenting upon a discussion of

scientific staff which are needed; third, the fact

that the laboratory is in the transitional stage

arrangements which govern BPL's development; second,

confirmed by their comments. So much so that, on the

would be severely critical of the facility was

the publication of their first formal report."

from the Medicines Division report".

That letter is at CBLA0000938.

Laboratory. I don't propose to go to that.

the course of Mr Hill's presentation.

brief reference to the inspection itself

in April 1979, and he says:

1	So that appears to be, in part at least, a call
2	or a suggestion that earlier inspection and the
3	consequent decision-making might have been a better
4	course.
5	I'm going to move to 1979 next, page 79.
6	Dr Lane deals with 1979 in terms of
7	self-sufficiency in paragraphs 187-238 of the proof.
8	What he says in paragraph 187 is this, and this is
9	obviously an expression of opinion:
10	"In terms of self-sufficiency, by 1979 it was
11	too late, (having regard to the four to five years it
12	would take to plan and build a new facility), for
13	a decision in this regard to have made any difference
14	if, as I would submit, the majority of severe
15	haemophiliacs were infected with HIV before 1985.
16	That said, 1979 saw the Medicines Inspectorate carry
17	out their inspection of BPL's facilities in April, and
18	the publication of their findings severely criticising
19	virtually every aspect of the BPL facility in the
20	summer. From my discussions with the Inspectors
21	during the course of their initial inspection, I was
22	fairly clear in my own mind what the outcome would be
23	even before the report was available, and this
24	prompted me to press for a decision by the DoH on the
25	future of BPL."

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1 condition in which I took it over. Mindful of the 2 shortcomings of the existing system and somewhat 3 contrary to the previous director's feelings, I both 4 welcome and encourage this inspection since I believe 5 it is guite contrary to good manufacturing practice to 6 use a privileged situation to hide the considerable 7 deficiencies of BPL. In addition, and also contrary 8 to the previous director's views, I believe that 9 Medicines Division, through their Inspectorate and 10 acting on behalf of the Secretary of State for the 11 Health Service, have a responsibility to assist a 12 central Health Service production laboratory like BPL 13 to carry out its function in the best possible way. There is, within the Division a considerable wealth of 14 15 experience and information which should be made 16 available to us quite normally through the Health 17 Service." 18 Then I don't think we need to look at the 19 detail. 20 If we go over the page, just so that you know, 21 Dr Lane sets out -- well, actually, we will just look 22 at the first paragraph, I think, on that second page, 23 and the rest really flows from it. He says: 24 "At the outset of the Inspectors' visit, 25 I observed that they would find little in this

" discussion eventually led to the conclusion
that the DoH should proceed to prepare a complete
appraisal of the various possibilities open and their
cost effectiveness for consideration by the Committee

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(42) Pages 165 - 168

1	in September, and that this should precede any	1
2	approach to Ministers regarding the future of BPL."	2
3	Then this observation from Dr Lane:	3
4	"It seemed to me at the time that matters were	4
5	still drifting, and likely to continue to do so for	5
6	some months, and I expressed the hope that there would	6
7	be an early decision in principle on the development	7
8	of BPL."	8
9	The next few paragraphs of his statement really	9
10	deal with meetings and reports which are covered in	10
11	Mr Hill's presentation. And so I think if we go to	11
12	well, I will just ask you to note I don't think	12
13	we need to go to it paragraph 220 of the draft	13
14	proof. Dr Lane refers to concerns he had about his	14
15	liability as director of BPL, if there was an adverse	15
16	event. And how he was unable to get a clear answer	16
17	from lawyers as to the extent of his responsibilities.	17
18	If we then go to page 93, now in the autumn of	18
19	1979, paragraph 223 refers to a report at which he	19
20	prepared. We don't need to look at the report but	20
21	just see why, according to the proof, Dr Lane thought	21
22	the report or the paper was necessary. He says:	22
23	"This paper was prompted by the need, as I saw	23
24	it, to ensure that we did not attempt to resolve the	24
25	problems faced by BPL without regard to those which	25
	169	
1	discussed on a number of occasions, not least during	1
2	the evidence of Dr Walford.	2
3	I then just ask you to note, in relation to	3
4	paragraph 230, Dr Lane refers to a paper put together	4
5	in 1979 by Professor Mollison, and then he refers to	5
6	"reasons for the Committee rejecting the idea of	6
7	abandoning production at BPL". He sets out three	7
8	reasons. I just want to look at the third, which is	8
9	subparagraph (c), just go further down the page:	9
10	"Plasma from paid donors is known to be more	10
11	likely to transmit disease (particularly hepatitis)	11
12	than is plasma from volunteer donors."	12
13	So that's what the document that Dr Lane is	13
14	commenting on said.	14
15	What Dr Lane then observes in paragraph 231 is	15
16	that he says:	16
17	" I think that this last point is an over	17
18	simplification and probably not correct so far as	18
19	hepatitis NANB is concerned. It was most probably	19
20	true of HIV."	20
21	We'll pick up on Tuesday morning some of	20
22	Dr Lane's observations in his proof about hepatitis.	21
23	But you'll see reflected there a view that hepatitis	23
24	was not necessarily more likely to be transmitted by	23
25	paid donors, is what he was setting out there.	24
20	para denero, lo milacito muo ootinig out more.	20

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1	were faced by the Regional Transfusion Centres who
2	were providing raw materials. The DoH would have
3	received my paper and I feel fairly sure that, at the
4	time I wrote it, I was also preparing myself for
5	another attempt to lift the hold on Stop-Gap."
6	Then you'll see he refers again to his view that
7	there should be an entity which took responsibility
8	for the National Blood Transfusion Service.
9	We can see then at the bottom of page 95, this
10	is a discussion which flows from a meeting of the
11	Scientific and Technical Committee on
12	26 September 1979 at which Dr Lane was present, and we
13	return to the theme of the use of PFC to fractionating
14	<i>(unclear)</i> plasma:
15	"Dr Dunnill, who was very much an advocate for
16	the Scottish PFC raised the question of the
17	absence of PFC representatives on the Scientific and
18	Technical Committee. I remained concerned about the
19	claims made of PFC by Mr Watt. Mr Smart suggested
20	that to clear the path for a decision to redevelop
21	BPL, the claims for PFC be tested. Mr Watt and
22	Mr Cash were required to agree to a trial of
23	fractionation. I deal with this in more detail
24	below."
25	And that's a reference to the events that we've
	170
1	If you move now to page 99, we get to 1980.
2	Dr Lane deals with events in 1980 from paragraphs 239
3	to 288 of the draft proof.
4	We can see in paragraph 239 Dr Lane's
5	recollection of the discussion of the future of BPL at
6	a meeting of the Scientific and Technical Committee in
7	January 1980. We don't need to look at the detail
8	of it, which is the discussion which is set out in the
9	documents, but if we go towards the bottom of that
10	paragraph, we can see perhaps we pick it up where
11	it says there's mention of "co-operative ventures
12	with industry":
13	"I pointed out that it was necessary to ensure
14	that the Minister, Dr Gerrard Vaughan, appreciated the
15	inter-dependence between the Laboratory and the
16	Regional Transfusion Centres the measures proposed
17	fell somewhere short of Stop-Gap and of course did not
18	include any commitment to redevelop BPL. Since I saw
19	Stop-Gap merely as a stage in the comprehensive
20	redevelopment of BPL, I was disappointed."
20	Then he refers in the last sentence to seeking
22	a firm policy statement from the Department of Health
23	and the planning work for the redevelopment of BPL.
24	So you will have seen, sir, by some of the

references to which I've taken you, a theme in this

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1	part of Dr Lane's proof is a theme of his concern,
2	disappointment, at the speed or lack of speed in the
3	decision-making on the part of the Department of
4	Health in relation to the redevelopment of BPL.
5	If we move on to page 103, paragraph 252, this
6	is Dr Lane's reference to the visit to BPL by the
7	Minister of State, Dr Gerrard Vaughan, on 21 March.
8	Six lines down Dr Lane says:
9	"My own impression at the end of the visit was
10	that having heard the views from the staff and from
11	management regarding BPL being commercially run (all
12	expressed reservations about this), the Minister was
13	convinced of the need to upgrade BPL in the short-term
14	and redevelop it thereafter."
15	So that was his impression, as he is saying in
16	this statement, from the visit.
17	"However, the Minister decided to reduce
18	available funds which were already inadequate for the
19	task of satisfactorily upgrading BPL in the
20	short-term, on the understanding that a decision would
21	be taken about long term redevelopment. No actual
22	commitment was made to the latter."
23	Again, we've explored a number of these stages
24	in the decision-making process in earlier hearings,
25	but this is Dr Lane's take on it.
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1 requirements." 2 "255. Now, it seemed that the Minister was saying that even this sum was to be reduced. The 3 4 Stop-Gap programme originally envisaged was intended 5 to improve the existing BPL facilities and enable us 6 to make reasonable increases in our production output 7 pending a major redevelopment of the BPL. The 8 Medicines Inspectorate had effectively put a cap on 9 any increases in production and had set a series of 10 (not unreasonable) requirements for BPL. Since the appeared we would not be allowed to pursue Stop-Gap as 11 12 originally perceived, (which would have taken care of 13 most the Inspector's concerns), future manufacturing requirements would be more compromised by lack of 14 15 resources, than envisaged even before the Minister's 16 visit." 17 So that's Dr Lane's assessment. There's then in 18 the following pages -- and Dr Lane recounts various 19 other meetings, but really largely by reference to the 20 content of the documents themselves. 21 If we go then to page 109, we can see, in 22 paragraph 263, Dr Lane's reference to the meeting in 23 June 1980 to discuss further the question of 24 expenditure on the upgrading of BPL. And he refers to 25 being asked to provide a list of what he would have 175

 the very modest targets of Stop-Gap, which sum of money was to be spent in a somewhat piecemeal fashio with one eye on the Medicines Inspectors' 174 	•	ing mentioners in me the second second
 "Paragraph 4 is a very brief (and in retrospect perhaps a somewhat optimistic) record of the Minister's visit to BPL in March, but paragraph 5 on page 3 of the minutes contained what, at the time, was something of a bombshell as far as I was concerned." Then there is the quotation from the minutes about BPL. If we go over the page, the citation from the minutes continues for the whole of that page, and you'll see in particular at (iv), the penultimate paragraph, there's a reference there to the possibility of commercial partnership. It may be that that's what Dr Lane is referring to as a "bombshell". In any event, on the next page, this is again Dr Lane's take: "To me the implications were clear enough. We had already, prior to the Minister's visit, been promised a sum of money which was inadequate to meed the very modest targets of Stop-Gap, which sum of money was to be spent in a somewhat piecemeal fashion with one eye on the Medicines Inspectors' 	2	meeting of the Scientific and Technical Committee on
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6Minister's visit to BPL in March, but paragraph 5 on7page 3 of the minutes contained what, at the time, was8something of a bombshell as far as I was concerned."9Then there is the quotation from the minutes10about BPL.11If we go over the page, the citation from the12minutes continues for the whole of that page, and13you'll see in particular at (iv), the penultimate14paragraph, there's a reference there to the15possibility of commercial partnership.16It may be that that's what Dr Lane is referring17to as a "bombshell".18In any event, on the next page, this is again19Dr Lane's take:20"To me the implications were clear enough. We21had already, prior to the Minister's visit, been22promised a sum of money which was inadequate to meet23the very modest targets of Stop-Gap, which sum of24money was to be spent in a somewhat piecemeal fashio25with one eye on the Medicines Inspectors'174	4	"Paragraph 4 is a very brief (and in retrospect
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19 Dr Lane's take: 20 "To me the implications were clear enough. We 21 had already, prior to the Minister's visit, been 22 promised a sum of money which was inadequate to mee 23 the very modest targets of Stop-Gap, which sum of 24 money was to be spent in a somewhat piecemeal fashio 25 with one eye on the Medicines Inspectors' 174	17	to as a "bombshell".
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 24 money was to be spent in a somewhat piecemeal fashio 25 with one eye on the Medicines Inspectors' 174 	22	promised a sum of money which was inadequate to meet
25 with one eye on the Medicines Inspectors' 174	23	the very modest targets of Stop-Gap, which sum of
174	24	money was to be spent in a somewhat piecemeal fashion
	25	with one eye on the Medicines Inspectors'
1 invested if given only \$500,000		174
i invested il given only £500,000.	1	invested if given only £500,000.

He then refers in the next paragraph to the

invested if given only £500,000. This is Dr Lane's take on that. "I can only liken the situation to one where you are told you may purchase a motor car and subsequently informed that you only be allowed a sum of money which is materially less than the purchase price and should decide which bits of the car you would like to buy." Then paragraph 264, the next paragraph, we're back on the PFC, and fractionation in Scotland. 10 Reference to an ad hoc meeting of Regional Transfusion Centre Directors, 18 June: 11 12 "... at which it was noted that the Director of 13 PFC ... had indicated that he was in a position to fractionate any plasma that the Birmingham [RTC] might 14 15 care to send to him. The Regional Transfusion 16 Directors agreed that the aim should be to see that 17 the PFC was in a position to fractionate all the 18 Birmingham Regional Transfusion Centres' and for that 19 matter other Regions' plasma." 20 Then if we go on page 111, we pick it up at 21 paragraph 270. There's reference to a letter, 4 July, 22 from Dr Dunnill to Dr Gerrard Vaughan, in which -- or 23 in respect of which Dr Lane makes this comment: 24 "It is interesting to see him [Dr Dunnill] 25 making several points which I was in agreement with at

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1	the time and one which I was not. First, Dr Dunnill
2	sought to stress that the expenditure required to
3	maintain production at Elstree pending the building of
4	a new facility (which for the purpose of his letter he
5	took as given) was not to be regarded as somehow
6	transitional wasted expenditure but rather an integral
7	part of the development of the new production
8	facility."
9	So that's what Dr Dunnill was saying. And then
10	this is Dr Lane's comment:
11	"I had been advocating this for a little while,
12	but as I have indicated above, I expressed concern
13	from time to time that this point did not appear to be
14	accepted by the DoH."
15	Then over the page, the second point made by
16	Mr Dunnill with which Dr Lane is agreeing, was the
17	expression of regret that there was not going to be
18	a Special Health Authority to manage the overall
19	affairs of fractionation of human plasma.
20	Then the third point, and this is where there is
21	disagreement, relates to collaboration between England
22 23	and Scotland, so paragraph 237 [sic], Dr Lane says this:
23 24	" Dr Dunnill makes a case for closer
24 25	collaboration between England and Scotland.
20	177
	171
1	paragraph 289 you'll see he says:
2	"There were several events during the course of
3	the year which are relevant to the issue of
4	self-sufficiency."
5	He refers to concentrate usage climbing, BPL
6	having received the go-ahead for MARP01.
7	Then if we go to the bottom of page 291, there
8	is reference to a letter in The Times, January 1981,
9	raising the issue of the future role of PFC Liberton.
10	The author of the letter, who was I think an
11	academic based at the University of Bath, is recorded
12	there as suggesting that the insufficiency of blood
13	products in the UK was largely self-imposed by
14	bureaucracy.
15	Then there's a quotation from the letter on the
16	next page, a criticism, it might be said, of the
17	output from Elstree, described as "limited by the
18	plant and process, which are largely outmoded and
19	inefficient by modern standards".
20	Then it said:
21	"In contrast, production in Scotland is limited
22	by the blood supply; the plant in Edinburgh is
23	seriously under utilised, working at less than one
24 25	third of its current capacity."
25	Then there's a reference to blood not being sent
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Throughout this period I was unconvinced that Scotland had the ability to assist England to any great extent despite what I regarded as excessive claims made from time to time by Mr Watt. Dr Dunnill, as I have mentioned, was involved in developing some of the equipment used at PFC ... and therefore sympathetic to the continued Scottish involvement and participation through PFC. As his letter makes clear, he was sensitive to the fact that this was certainly not an 10 opinion I shared." 11 There's further reference in paragraph 275, top 12 of page 113, to Dr Dunnill pursuing closer links 13 between England and Scotland. So this is the second 14 half of the paragraph: 15 "He knew that proposing the participation of 16 Mr. Watt in the Working Party was likely to cause some 17 difficulties as far as I was concerned (and, for that 18 matter, some others,) but his perseverance eventually 19 resulted in Mr. Watt joining the Working Party." 20 I think that's all I need to show you in 21 relation to that year which hasn't otherwise been 22 covered elsewhere or can't be picked up from a reading 23 of the statement. 24 If we then turn to 1981, page 120, Dr Lane's 25 proof addresses 1981 in paragraphs 289 to 334. In 178 across the border because the health departments for England and Wales and Scotland are independent. Then the author of the letter writes this: "In my view this state of affairs is nothing less than scandalous." Paragraph 292 is Dr Lane's riposte: "This was incorrect. PFC Liberton's equipment was designed for continuous operation and one stage in a multi-stage process had a potential capacity of an 10 estimated 6,000 litres per week. This capacity [...] was not matched by capacity in other stages which both 11 12 preceded and followed; likewise the stage in guestion 13 required 24-hour manning -- a situation never agreed or accepted by the workforce." 14 15 Then he refers to there being a detailed 16 comparison in the course of 1981 of the products, and 17 says: 18 "My impression, to the extent that we could get 19 to the truth of the matter, was that the PFC products 20 were of lower specification." 21 Dr Lane then refers to the trial that took place 22 at Liberton and says: 23 "This trial clearly showed that without 24 substantial investment in building new facilities and 25 installing additional plant and equipment up and

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1	downstream of the central processing plant and
2	equipment, PFC Liberton could not operate to the
3	stated capacity."
4	And then you'll note paragraph 293 sets out
5	Dr Lane's view that this letter to The Times was also
6	inaccurate in terms of plasma supply. And he
7	concludes at paragraph 293 by saying:
8	"At the time in question there was no material
9	surplus of plasma which, for want of fractionation
10	capacity, was being wasted and therefore no immediate
11	role for PFC Liberton to play, since they would merely
12	be taking plasma which BPL/PFL needed".
13	Then you'll see he refers in the next paragraph
14	to a response from Dr Harris, a DCMO, to the letter in
15	The Times.
16	SIR BRIAN LANGSTAFF: By talking about "upstream and
17	downstream of the central processing plant and
18	equipment", he is talking about before and after.
19	MS RICHARDS: Yes.
20	SIR BRIAN LANGSTAFF: He's not actually criticising the
21	ability to produce the ability do so, apart from
22	the question about staff?
23	MS RICHARDS: I think that's right.
24	SIR BRIAN LANGSTAFF: So it's a question in the terms of
25	which I was talking to Mr Hill about it, of the
	181

1 the refusal to work shifts." 2 Reference in the third paragraph to "coherent 3 management" which Dr Dunnill was suggesting was a way of addressing the issue: "... was an unrealistic 4 5 proposition: the real problems lay in the terms and 6 conditions imposed by the Union, and the structure 7 within the NHS itself." 8 If we go next to page 134, bottom of the page, 9 paragraph 319. We're now in August 1981 and the first 10 meeting of the Policy Steering Group formed to assist in relation to the redevelopment of BPL, and 11 12 paragraph 319 says: 13 "It was reported that the potential for PFC Liberton to fractionate a proportion of English plasma 14 15 had not yet been determined." 16 Then if we go to the next page, there's a little 17 further information set out. And then the last 18 sentence of that paragraph, Dr Lane observes the role 19 of PFC Liberton is mentioned again: 20 "This reference marks the slight shift in 21 thinking. Dr Walford suggested that it might prove 22 uneconomical to send plasma to Liberton to 23 fractionate." 24 And you'll recall this was an issue that was 25 explored with Dr Walford during her oral evidence. 183

1	refrigeration of plasma coming in, and the warehousing
2	of stock going out, is it? Is that what he probably
3	means?
4	MS RICHARDS: It may be. I'm afraid I can't shed any
5	further light on what was in Dr Lane's mind other than
6	what's in the proof. We'll be able to see whether
7	Dr Foster has any particular understanding next week.
8	SIR BRIAN LANGSTAFF: Yes. It'll be quite interesting to
9	explore what he has to say about that.
10	MS RICHARDS: Yes, exactly.
11	Then, if we go to the bottom of page 125,
12	paragraph 302, picks up a document prepared by
13	Dr Dunnill in February, which again deals with PFC
14	Liberton. So if we go over the page, we can see
15	there's a citation from the document itself, but
16	Dr Lane describes these as "partisan comments" by
17	Dr Dunnill. And then I'm not going to read through
18	what Dr Dunnill himself said, that's set out in the
19	document itself, but if we go to the bottom of the
20	page, we can then see this is Dr Lane's response:
21	"In these various comments, one glimpses
22	Dr Dunnill's sympathies. Whilst automation had been
23	brought into the plant at Liberton (a plant designed
24	in theory for continuous operation), the laboratory
25	was, nevertheless, plagued by manpower problems and
	182
1	If we go over the page, page 136, paragraph 322
2	contains Dr Lane's comments on a meeting of the
3	Advisory Committee on the National Blood Transfusion
4	Service in September 1981. You'll see, if we pick it
5	up well, actually, we'll pick it up in the third
6	line, because this is really comment by Dr Lane:

"Dr Tovey ducked the issue of keeping Regional Transfusion Directors informed of commercial purchases made by Haemophilia Centre Directors. There was clearly no way all the Haemophilia Centres would give up their budgets. Also, no procedure was implemented to ensure that Regional Transfusion Directors were kept informed of commercial purchases. As I had mentioned previously, this question of control over Factor VIII concentrate was a perennial theme."

And he continues observing how Haemophilia Centres were protective of their position in terms of controlling their own purchases of commercial Factor VIII. There's then, at the end of that paragraph,

a further reference to the potential use of PFC
 Liberton, where it says:
 "Mr Harley again hinted that PFC Liberton might
 be jointly meeting the UK's needs for blood products

with any redeveloped BPL."

(46) Pages 181 - 184

1	The issue is picked up on the next page,
2	paragraph 324. Picking it up in the third line, end
3	of the third line, Dr Lane says:
4	"I discussed the problems associated with PFC
5	Liberton and the claims made for it with Mr Smart [the
6	chairman of the policy steering group]. He suggested
7	that we should again try to resolve the extent of
8	PFC's role by a trial of fractionation."
9	If we go to the bottom of the page, there's then
10	comment by Dr Lane on a letter from Mr Watt, in terms
11	of data that was being produced regarding PFC Liberton
12	products. And Dr Lane says:
13	"PFC Liberton did not in the course of time
14	produce all the relevant data."
15	Over the page, top of the page, Dr Lane suggests
16	that Mr Watt mis-describes the English albumin
17	product, deliberately obscures the true nature of the
18	albumin products produced in England and in Scotland.
19	We pick it up then down the bottom of that page,
20	paragraph 330, now a policy steering group meeting of
21	October 1981, there's a further discussion about the
22	proposed trial at PFC Liberton, and Dr Lane says they:
23	" had not been receptive to the idea that we
24	send observers (an idea [he says] which originated
25	with me)."
	185

1	That brings us to the end of 1981.
2	If we just go to the top of the next page, 1982,
3	which Dr Lane addresses in paragraphs 335 to 365 of
4	his proof. He sets out or he discusses there the
5	report on the PFC Liberton trial, and he says in the
6	third paragraph sorry, third line:
7	"It seemed to me that the report supported my
8	concerns about PFC Liberton's ability to assist
9	England and Wales in the production of Factor VIII
10	
11	And he goes on to describe that further and set
12	out his own feeling that the experiment was
13	inconclusive.
14	There's a further account in this part of the
15	statement if we go over the page. Paragraph 336 deals
16	with the issue relating to PFC.
17	And then if we go to the next page,
18	paragraph-page 143, paragraphs 338 to 339 refers to
19	a letter from SHHD, so from the Scottish Home and
20	Health Department, to the Department of Health,
21	January 1982, about the contribution PFC could make.
22	And you may recall, sir, we looked at this letter, I'm
23	pretty sure, during the evidence of Dr Walford. And
24	you'll see there the reference to the need for
25	substantial investment.

1	Then next page, 139, paragraph 333, there's
2	a further description in the Scientific and Technical
3	Committee meeting in November 1981 sorry, a further
4	discussion about the use of PFC Liberton. It's
5	recorded the shift-working experiment had been carried
6	out, and Dr Lane says that:
7	"The PFC trial related only to an evaluation of
8	continuous production of SPPS: Factor VIII production
9	was not included"
10	Dr Lane then records various matters being set
11	out by Dr Dunnill. Over the page, we can see in
12	paragraph 334:
13	"Further consideration about the PFC trial."
14	And if we pick it up about halfway down that
15	paragraph, we see, consistent with what we've seen
16	from Dr Lane's statement so far, he expressed
17	reservations regarding the experiments. He said:
18	"The study had concentrated on one stage only of
19	what was a complete production process."
20	Then we get a reference to the facilities both
21	up and downstream.
22	He says:
23	"The experiment at PFC Liberton was inconclusive
24	the commitment of the SHHD to PFC Liberton would
25	be critical to the mode of its future use."
	400

1	Dr Lane's summary of this over the page at
2	paragraph 340 is he says:
3	"In summary, it was clear that without
4	substantial changes in working practices, an
5	investment of £6 to £7 million (but with no
6	guarantee this was an accurate estimate), a delay of
7	some two and a half years (again with no guarantee
8	that this was an accurate estimate), PFC Liberton
9	would be in a position to fractionate sufficient
10	amounts of English plasma but at a cost which no one
11	could predict."
12	Then there are further discussions in relation
13	to Liberton in paragraph 342, bottom of this page and
14	over on to page 145. But I don't think they add to
15	the underlying documents.
16	We can then, I think, pick up the position in
17	relation to 1982 at the bottom of page 152 where
18	Dr Lane has now reached the point in his chronological
19	overview where the CBLA has been established, and so
20	he refers to what was I think must have been the
21	first meeting of the CBLA on 3 December 1982. Yes, in
22	fact, if we go over the page, he refers to the members
23	meeting for the first time.
24	And then if we pick it up at 363, this is
25	Dr Lane's I think take on 1982. He says:
	188 (47) Pages 185 - 188

1	"Thus the year closed with CBLA in the
2	management driving seat and with DoH Treasury approval
3	for the redevelopment of BPL on the basis of
4	a capacity which it was generally agreed amongst all
5	the interested parties would be enough to achieve
6	self-sufficiency."
7	At 364 he says:
8	"It was not expected that the redeveloped BPL
9	would be available to produce Factor VIII before
10	1985/6 (in the event, it was commissioned in
11	1987/1988). By this time, HIV transmission in
12	coagulation products had been effectively controlled."
13	Then the next paragraph:
14	"It can be seen, therefore, that the CBLA was
15	established too late to have any influence over the
16	primary definitions of self-sufficiency"
17	So there we see again the response, effectively,
18	on behalf of the CBLA to the claim. But that, of
19	course, doesn't answer the question of whether bodies,
20	organisations, individuals other than the CBLA could
21	have influenced matters differently.
22	Sir, in relation to the years that follow in the
23	proof, there isn't any particular passage I wanted to
24	take you to, so if I could have the indulgence of two
25	minutes, we can finish, I think, the issue of
	189
1	responsibility, the decision had, to all intents and
2	purposes, been taken, and that had been a decision for
3	the Department of Health.
4	And really, that's what he essentially runs
5	through what he says in the next or, sorry, in his
6	responses to each of the allegations on the issue of
7	self-sufficiency.
8	So if we just look at page 170. The allegation
9	there set out is the allegation of a failure to
10	co-operate with the Regional Health Authorities
11	sufficiently in providing a National Blood Transfusion
12	Service, and his observation is CBLA is not
13	responsible for providing the National Blood
14 45	Transfusion Service. That's the responsibility of
15	Regional Health Authorities.
16	Then he goes on to talk about in to go back
17	to and pick up on some of the themes about the lack of
18	co-ordination, the lack of a structure, the lack of
19 00	control over funds, and so on.
20	Then next page, 171, paragraph 404 refers to the
21	allegation of a failure to assess future needs of
22	Factor VIII. Again, the key point is that he makes
23	is that by the time the CBLA was established,
24 25	December '82, he says the future needs had been
25	accurately estimated and formed the key to the planned

1	self-sufficiency.
2	SIR BRIAN LANGSTAFF: Yes, certainly.
3	MS RICHARDS: I'll just give the paragraph references in
4	the draft proof.
5	Dr Lane deals with 1983 in relation to
6	self-sufficiency in paragraphs 366 to 377 of the
7	proof; 1984 in paragraphs 378 to 389; and 1985, which
8	was the last year his proof looked at, paragraphs 390
9	to 398.
10	And so what we then get to is a summary of the
11	position in relation to self-sufficiency from
12	Dr Lane's perspective.
13	Sorry, Paul, if we could have the statement back
14	on the screen. It's page 168. And you'll see there
15	it's headed "Summary of self-sufficiency claims and
16	CBLA rebuttal". So that's really the point of this
17	part of his proof. He's responding on behalf of the
18	CBLA to the particulars of negligence and/or breach of
19	statutory duty in relation to the issue of
20	self-sufficiency.
21	He sets out each of the allegations in the
22	re-amended main statement of claim. And if we just go
23	a little further down the page, we can see here the
24	essence of the point that Dr Lane was seeking to make,
25	which was by the time the CBLA took over
	190
1	redevelopment of BPL.
2	So, again, his essential point is, this isn't
3	something you can lay at the door of the CBLA because
4	of the issue of timing.
5	And then if we just go to page 173, this is the
6	issue of the allegation of the failure to use the
7	spare production capacity in Scotland. We've seen
8	Dr Lane's views fairly clearly set out in the proof so
9	far. His short answer is:
10	"This issue had been run to ground surely before
11	CBLA took over BPL."
12	And then he gives a slightly more detailed
13	account of why he thought that was not a realistic
14	option. To the extent that if we go towards the
15	bottom of that paragraph, he says this:
16	"The belief that there was any significant spare
17	capacity immediately available for fractionating
18	English and Welsh plasma at PFC Liberton was,
19	l believe, a myth."
20	Then there are a number of allegations which he
20	deals with very shortly on the next page, in which,
22	again, he essentially says that these are not matters
22	that were the responsibility of the CBLA or are not
23 24	particularly relevant to the CBLA.
24	And that concludes his proof insofar as the
20	100
	¹⁹² (48) Pages 189 - 192

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1	issue of self-sufficiency and, indeed, the	1	
2	organisation of the Blood Transfusion Service and its	2	Pre
3	relationship with BPL was concerned.	3	
4	He then goes on to look at issues relating to	4	
5	viral infection, responses to that and heat treatment	5	
6	and, although they still account for several hundred	6	
7	pages in his statement, I should be able to deal with	7	
8	those much more shortly.	8	
9	Heat treatment we've effectively covered through	9	
10	Mr Hill's presentation. The evidence of Dr Smith I've	10	
11	already referred to. So I'll take you to a handful of	11	
12	references, but Dr Lane doesn't add an enormous amount	12	
13	in that regard. But I will show you some of what he	13	Pre
14	says about hepatitis and other viral infections on	14	
15	Tuesday morning.	15	
16	SIR BRIAN LANGSTAFF: Very well.	16	
17	Tuesday morning it is, then, at 10.00.	17	
18	10.00, Tuesday.	18	
19	(4.36 pm)	19	
20	(Adjourned until 10.00 on Tuesday, 22nd March 2022)	20	
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