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Thursday, 12 January 2012

(9.30 am)

(Proceedings delayed)

(10.05 am)

PROFESSOR PHILIP CACHIA (sworn)

Questions by MR GARDINER

THE CHAIRMAN: Yes.

MR GARDINER: Thank you, sir. Good morning,
Professor Cachia.

A. Good morning.

Q. We usually start off with a new witness by having a look
at the CV. So could we just have a look at
[\[PEN0172820\]](#)? I think you told us that this was
a reduced curriculum vitae but it's actually 24 pages
long, I see. We will just go through it.

So we see on the first page that your current
position is Postgraduate Dean, East of Scotland. Could
you just tell us about that?

A. Yes. Between graduating from medical school and taking
up a career post as a consultant or principal in general
practice, doctors undergo postgraduate training which,
in the United Kingdom, is regulated by the General
Medical Council and Postgraduate Deans are responsible
for the quality management of those training programmes
and for assessing the progress of individual doctors in

1 training through that, and then signing them off as
2 having completed their training.

3 Q. Thank you. If we go to page 3, please.

4 THE CHAIRMAN: It indicates you are Postgraduate Dean for
5 the East of Scotland. What universities and hospitals
6 does that cover?

7 A. It's Dundee University. There are four Postgraduate
8 Deans in Scotland, each linked to the four graduating
9 medical schools of Aberdeen, Dundee, Edinburgh and
10 Glasgow.

11 THE CHAIRMAN: So East of Scotland doesn't include
12 St Andrews.

13 A. St Andrews isn't a graduating medical school because
14 they do a pre-clinical course and then send their
15 students elsewhere to graduate.

16 THE CHAIRMAN: Oh, they send them away. Thank you.

17 MR GARDINER: On page 3, the second part, we see your formal
18 qualifications. Can you just tell us what they are,
19 starting in 1977?

20 A. Yes, so at the time that I was at Edinburgh medical
21 school, you, after three years, completed a BSc in
22 medical sciences, and it was a six-year course. So
23 I completed my MBCHB in 1980. I then undertook training
24 in hospital medicine, completed my membership of the
25 Royal College of Physicians of the UK in 1983. I took

1 time out of clinical practice from 1985 to 1988 when
2 I undertook a laboratory-based MD thesis in the
3 department of pathology in Edinburgh. That was after
4 having been a registrar in haematology at the Western
5 General in Edinburgh. I then returned to haematology
6 training in Cardiff, where I completed the required
7 exams for haematology, the MRC (Path), and then later on
8 as a Consultant was made a fellow of the College of
9 Physicians of Edinburgh and then a fellow of the
10 College of Pathologists.

11 Q. Thank you. If we go over the page to page 4, we see
12 a list of your notable achievements, a very impressive
13 list, starting in 1985, down at the bottom, with the
14 Colin and Ethel Gordon scholarship and going through the
15 years. I noticed in 1997 you were the Scottish national
16 haemophilia database coordinator. Could you tell us
17 about that a little bit?

18 A. Yes, that was around the time that the
19 haemophilia directors of Scotland were introducing
20 recombinant Factor VIII and Factor IX therapy for all
21 patients and we had set up a consortium to oversee and
22 manage that on a national basis, and I originally set up
23 the database that provided the information about usage
24 for that, and I think subsequently was taken over by
25 a proper database manager.

1 Q. In 2000 I see "chairman of oncology and haematology
2 clinical governance sub-committee"; what did that
3 involve?

4 A. That was at the time that clinical governance was
5 introduced in the health service. There had to be
6 a formal proactive process for looking at the quality
7 and standards of clinical care and learning from adverse
8 events and introducing new ways of improving the quality
9 of service. So at that time we had a combined
10 directorate that included the oncology and haematology
11 clinical services, and I set up and chaired that group.

12 Q. I see 2001, director of general professional training at
13 the Royal College of Physicians of Edinburgh. What did
14 that involve exactly?

15 A. General professional training in those days, prior to
16 the modernising medical career reforms, covered senior
17 house officer training. So after qualification and
18 doing a house officer year, before becoming a registrar
19 in a speciality, you undertook a number of senior house
20 officer jobs. That was called "general professional
21 training".

22 As the college director, I was responsible for
23 developing standards and educational opportunities for
24 Senior House Officers and also we -- within Scotland, in
25 conjunction with the college in Glasgow, we ran an

1 inspection process, whereby we went round different
2 hospitals in Scotland looking at the quality of SHO
3 training, with a view to suggesting improvements and
4 spreading best practice.

5 Q. Yes, thank you.

6 THE CHAIRMAN: When did that service begin, Professor? This
7 is when you joined?

8 A. No, it was established at the time I joined it. It was
9 called "IMSPEC" and it must have been, I would have
10 thought, probably the late 1990s.

11 MR GARDINER: Just because you have mentioned it, I know we
12 are looking at your CV at the moment but you talk there
13 about "best practice". We have heard that phrase used
14 before. Could you tell us what you understand by that
15 term, "best practice".

16 A. Yes, so a lot of the regulatory processes for medicine
17 run by the General Medical Council are focused on
18 setting minimum standards that have to be achieved in
19 order to ensure standards of practice, and clearly, if
20 you set a minimum bar, then everybody who sort of creeps
21 over that bar is then deemed to have met those
22 standards.

23 I think it was increasingly recognised by a number
24 of regulators, not just in medicine, that that was a bit
25 of a minimalist approach and in doing any regulatory

1 visit, if you go and visit a department, with
2 a fundamental purpose of ensuring that they are meeting
3 minimum standards, you quite often come across
4 outstanding examples of innovative practice and really
5 good ideas. So part of the regulatory process now is
6 not just to ensure minute standards but to identify
7 exemplary practice and attempt to disseminate and spread
8 it amongst other units.

9 Q. So how does best practice compare to a standard that's,
10 as you put it, just over the bar?

11 A. Yes. That's a challenging question. I guess there is
12 no ceiling. If you are going to encourage innovation
13 and new ideas, then inevitably some of them are not
14 going to work, so some of them will fail but there will
15 be others that make genuine improvements, the particular
16 example we are talking about, the training of SHOs. So
17 there could be very substantial differences but there
18 would often be an evolution and ultimately, sort of
19 innovation becomes established practice or it can be
20 recognised as best practice and will ultimately be
21 incorporated into standards and become the normal or
22 routine practice.

23 Q. So would it be fair to say that best practice is what
24 doctors should aspire to?

25 A. Yes.

1 Q. Thank you. Just going down the years, we can see 2002,
2 you were the chairman of Tayside area medical committee;
3 2003, lead clinician, Tayside community anticoagulant
4 service; 2004, NAS representative on Scottish
5 modernising medical careers delivery group; 2005,
6 chairman of New Deal review. 2008 caught the eye. This
7 is NES patient safety lead. Could you tell us a little
8 bit about that?

9 A. So the Institute of Medicine in the United States
10 identifies six domains that define the quality of
11 healthcare delivery. So they will include clinical
12 excellence, person centredness, timeliness, equity and
13 patient safety is one of those domains. It's probably
14 not a particularly good name. What it really refers to
15 is the unintended harm that happens to patients because
16 of the complexities of healthcare delivery, and
17 a patient safety programme is an explicit, planned,
18 managed attempt to eliminate unintended harm by
19 improving the reliability of systems, the culture of
20 supporting staff, the learning from errors, identifying
21 human factors or using human factor science to try and
22 just improve reliability.

23 So it's distinct from clinical excellence and
24 medical practice. We know from evidence based medicine
25 what is the right thing to do. Patient safety is

1 a co-ordinated approach to make sure that the systems of
2 delivery from the hospital portering system right
3 through to pharmacy and computer systems are all
4 designed to eliminate unintended harm.

5 Q. Right. Okay. Thank you very much. Could we just pass
6 over to page 5 next, please? What we see there, in
7 working from the bottom in chronological order, are the
8 appointments throughout your career. Is that correct?

9 A. That's correct, yes.

10 Q. We notice that in June 1988 to January 1991 you were
11 Senior Registrar at the University Hospital of Wales,
12 Cardiff under Professor Jacobs and Professor Bloom?

13 A. That's correct.

14 Q. I would like to ask you a little bit about that. The
15 Inquiry has heard about Professor Bloom and his practice
16 and it has been suggested that he was a fairly academic
17 doctor, if you like. Was that your experience of him?

18 A. Professor Bloom was certainly a leading academic in the
19 world of haemophilia but he was also a very hands-on and
20 person-centred clinician, who knew all of his patients
21 and was certainly extremely approachable and very
22 supportive of Senior Registrars when we needed advice
23 about contemporary treatment of patients.

24 Q. Yes. How much experience did he have of clinical
25 practice and dealing with patients and so on?

1 A. Yes, the Cardiff centre looked after the patients from
2 childhood onwards, so he had looked after and been
3 involved in the care of the patients there ever since
4 they had been children.

5 Q. Yes, and did Cardiff cover quite a large area?

6 A. The haemophilia centre specifically? Yes, it was a big
7 regional haemophilia centre that took patients from all
8 of South Wales and Bristol and I think some parts of
9 Cornwall as well.

10 Q. Yes. Would you say that Professor Bloom was -- how
11 shall I put it? -- a modern doctor? Did he have forward
12 thinking?

13 A. Yes, Professor Bloom came from a generation where,
14 I guess, his approach to patients might be considered
15 sort of fatherly, yes, that was the way he was.

16 Q. Yes. Would that make him more of a directive clinician
17 than maybe a modern one maybe?

18 A. Yes, he didn't have so much to do with the day-to-day
19 sort of management of patients and counselling. He
20 would see the patients on ward rounds and so on, but it
21 was his staff. There was an associate specialist in the
22 haemophilia centre, three haemophilia nurses and
23 a Senior Registrar at all times. So that would be the
24 staff group that on a day-to-day basis talked to and
25 counselled patients.

1 Q. Yes. What was your exposure to haemophilia care during
2 that period, when you were at Cardiff?

3 A. Yes. At that time the Cardiff rota involved four
4 months' attachments in the different elements of the
5 service. So that would include an attachment at the
6 district general hospitals of Llandough and Cardiff
7 Royal Infirmary, the ward, which was primarily the
8 treatment of leukaemia and lymphomas, the day unit, the
9 laboratory and the haemophilia centre. So for
10 a four-month period, I think, twice or maybe three times
11 in the time that I was there, I would have my entire
12 daytime job in the haemophilia centre, learning about
13 haemophilia care and working with the associate
14 specialist, the haemophilia nurses and Professor Bloom
15 when he did his ward rounds. In addition to that,
16 out-of-hours, we obviously would see haemophilia
17 patients when they presented, if we were the on-call
18 Senior Registrar.

19 Q. That was irrespective of whether you were on
20 a haemophilia block or not --

21 A. Correct, yes. If you were on-call, you covered the
22 whole service.

23 Q. Yes. The associate specialist, was that a doctor?

24 A. Yes, that's correct. It was a non-consultant-grade
25 doctor but with a lot of experience in haemophilia care.

1 Q. Do you remember what their name was?

2 A. It's Dr Has Dasani.

3 Q. Yes. During that period, who did you receive your
4 training in haemophilia care from?

5 A. So on a day-to-day basis, it would be Dr Dasani and the
6 haemophilia nurses and on a regular basis, when
7 Professor Bloom did his ward rounds, or indeed if you
8 needed out-of-hours advice, even if Professor Bloom
9 wasn't on call, he was usually the person that you would
10 get hold of to discuss a particular problem with
11 a haemophilia patient.

12 Q. Yes. What were you taught about the approach to giving
13 information to patients and counselling them and so on?

14 A. Yes, I think within the haemophilia centre in Cardiff
15 there was a fairly modern and patient-orientated
16 approach that involved a partnership between the staff
17 and the patients there and every attempt was made to
18 keep patients fully up to date with the issues of the
19 day and the changing evidence base.

20 Q. Yes. What would that involve as far as investigations
21 on patients and what patients would be told about
22 investigations that were being done?

23 A. Yes, there would be a regular screening programme that
24 would include the sort of recommendations of the UKHCDO
25 and that would include sort of regular viral testing,

1 and patients would be verbally informed of the nature
2 and reason for that and any trends that were obvious in
3 terms of their own personal results.

4 Q. Yes. And when you say "trends", are you referring to
5 the development of medical knowledge about their
6 condition and treatment?

7 A. Yes, well, trends in their personal sets of results; for
8 instance if liver function tests were deteriorating or
9 going up and down or stable, they would be informed
10 about that, as well as contemporary information about
11 the evolving knowledge of hepatitis and HIV.

12 Q. Yes. And then after you spent that time at the
13 University Hospital of Wales, I see from your CV that
14 between 1991 and January 1992, you were a Medical
15 Research Council training fellow. What did that
16 involve?

17 A. So I had applied for and obtained the MRC fellowship,
18 which was for a year of post-doctoral studies, it was
19 based in Professor Jacobs' research laboratory. So most
20 of that time was spent in a laboratory, undertaking --
21 the unit's principal interests were the group of
22 disorders that are known as "pre-leukaemia disorders".
23 So they are abnormalities in the blood which we know are
24 likely to lead on to full-blown leukaemia, and the unit
25 was studying them with an attempt to understand how

1 leukaemia happens and potential therapeutic
2 interventions to stop it happening.

3 I would have had some clinical exposure because
4 I was seeing patients in clinics, collecting samples
5 from them, getting informed consent for participation in
6 the research work of the unit but most of it was
7 laboratory based.

8 Q. Perhaps you could explain to us what you understand by
9 "obtaining informed consent" in that context?

10 A. Yes, so really the crucial issue is that the patient has
11 a clear understanding, in language and terms that he or
12 she can understand, of, in this case, the reason for
13 undertaking research, the potential benefits to them and
14 to future generations of doing that research, any
15 potentially negative consequences of participating in
16 the research and that they have control of that agenda
17 and can get the information that they require and can
18 then make a decision on a personal basis as to whether
19 or not they wish to participate in that research.

20 Q. Yes. Thank you.

21 THE CHAIRMAN: Can I ask one question arising out of that?
22 You refer there to ensuring that the patient has a clear
23 understanding in language and terms that he or she can
24 understand. And so on. How much variation was
25 necessary in practice in dealing with individual

1 patients to ensure that the message was communicated?

2 A. Yes, a great deal of variation, and I think to really be
3 able to obtain informed consent in that way, you need to
4 firstly get to know and understand the patient. You
5 need to develop trust as a mutual basis for the
6 relationship, and once you have developed trust and know
7 what their personal value systems are, what their
8 intellectual capacity is, what their belief systems are,
9 you can then have a real discussion that allows them to
10 understand and, as I say, have control of the decisions
11 that need to be made.

12 THE CHAIRMAN: So a superficially simple statement such as
13 "ensuring that they have got a proper understanding"
14 really comes to be part of a very wide spectrum of
15 possibilities when you deal with the individual in
16 question.

17 A. That's correct, yes.

18 MR GARDINER: Thank you. Could we just pass over to page 6
19 of the CV? We see there that you have given us some
20 more detail about your current appointment as
21 Postgraduate Dean. Just go to page 7. At the bottom of
22 the page. "Postgraduate education activities". I think
23 over the succeeding pages, you list in more detail the
24 work that you have done, and then on page 8 you list
25 your activities as a PG tutor. What's that?

1 A. It's a postgraduate tutor. So before or as part of my
2 development as an educationalist in medicine in 1997,
3 I became a postgraduate tutor within Tayside. So I had
4 two sessions a week, a day a week basically, in which
5 I worked for the Postgraduate Dean, whom I ultimately
6 succeeded as a sessional commitment to the deanery.

7 Q. Yes.

8 A. So that meant I reduced my haematology commitment by two
9 sessions a week but that was also the opportunity to use
10 that funding to employ a clinical assistant in the
11 haemophilia centre.

12 Q. I think when we come to your statement, we will see that
13 in more detail.

14 If we go over the page, please, you give us the
15 summary of your contributions to postgraduate education
16 committees in the UK and Scottish ones, and just passing
17 to page 10, a list of more appointments and, over the
18 page, page 11, we have a summary of your management
19 experience. In fact the CV is very full and gives us
20 all of the details about you and your career, so I'm not
21 going to go through it in detail. Perhaps if we could
22 just go to page 24, to have a look at your publications.
23 Just tell us what these are, please.

24 A. So at that stage of my career my intention was to
25 specialise in malignant haematological conditions. So

1 my MD thesis and most of my publications were looking at
2 a group of disorders known as "chronic
3 lymphoproliferative disorders". They are malignancies
4 of the immune system and both my time in Edinburgh,
5 doing my doctorate thesis, and in Cardiff as an MRC
6 fellow were all fundamentally looking at understanding
7 the nature and causation factors of haematological
8 malignancies and new opportunities to try and treat
9 them.

10 Q. Yes. And what we see here is a chronological list of
11 the publications that you have been involved in.

12 A. Yes.

13 Q. Which are mainly in that area.

14 A. Correct, yes.

15 Q. Thank you. I would like to turn to your statement now,
16 please, which is [\[PEN0180853\]](#).

17 This is a statement that you have provided at the
18 Inquiry's request in connection with this topic, which
19 is what we call "C5", which is really about information
20 to patients and relations between doctors and patients.

21 Your statement is very full and deals with matters
22 which are not specifically about this topic. So I will
23 be passing over some of it. But we see there at
24 paragraph 1.1 a repeat of information about your current
25 position, current post, and I just noted at the bottom

1 of that first paragraph that this statement has been
2 based on your memory and you have not had access to
3 records. Is that right?

4 A. Yes, just in terms of the timescales for producing the
5 statement, it really is based on my memory and also just
6 to note that having been out of clinical practice or out
7 of haematological clinical practice for seven years, it
8 was a bit of a rusty memory at the beginning.

9 Q. Yes, thank you. Paragraph 2.1 you say that in 1992 you
10 were appointed as a consultant haematologist in Tayside.
11 Perhaps you could just tell us in your own words about
12 that, professor?

13 A. Yes. Having completed training and now being eligible
14 to become a consultant, my wife and I were keen to
15 return to Scotland, where we were both born, and this
16 was the first opportunity that came up. For reasons
17 that are unclear to me, Tayside, even in the 1980s, did
18 not have a modern haematology service. The haematology
19 training and service delivery in the UK is based on
20 a combined and integrated clinical and laboratory
21 service and the training involves learning both about
22 laboratory haematology and clinical practice. But for
23 reasons unknown to me, in Tayside in the 1980s the
24 laboratory haematology service was provided by the
25 pathology department. There were two consultants who

1 were pathologists rather than haematologists but had,
2 over the years, developed an interest in blood pathology
3 and they ran the laboratory service, and there were
4 clinicians, who were not haematology trained, with an
5 interest in lymphoma and haemophilia, who provided the
6 clinical service.

7 That changed with the appointment of
8 Professor Pippard to the first chair of haematology,
9 I think around 1987, and Martin Pippard was really
10 charged with creating a modern haematology service in
11 Tayside and I was his first appointment in 1992, when
12 one of the laboratory consultants retired. So I was
13 a replacement for his post.

14 Q. Yes. But it wasn't intended that you would just remain
15 in the laboratory. Is that right?

16 A. No, no, absolutely. I was appointed as a fully trained
17 clinical and laboratory haematologist to participate in
18 all the general duties of the department. When I was
19 appointed, the job was advertised as a job for
20 a consultant with an interest in malignant haematology
21 but, as I say in my statement, because I had replaced
22 a Laboratory Consultant and had the sort of, probably,
23 unique pleasure of a very quiet clinical practice when
24 I started -- on day one I had a tidy desk and no
25 patients to look after, which didn't last for long --

1 Martin Pippard, because I had come from Cardiff, as
2 a preeminent haemophilia centre, asked me if I could at
3 least undertake a needs assessment of the haemophilia
4 service in Tayside, because that was one of his
5 priorities -- one of his many priorities for developing
6 a sort of modern, competent haematology service in
7 Tayside.

8 Q. Yes. If we go to paragraph 3.1, which is on page 2, you
9 talk about that initial assessment. Could you just tell
10 us what that involved, the initial assessment?

11 A. Yes, so the initial assessment involved talking to
12 predominantly the staff who had been involved in
13 providing some of the haemophilia care.

14 So Dr Heppleston at that time was the named clinician.
15 There was a regional SNBTS service in Ninewells. There
16 were laboratory staff who knew quite a lot about the
17 patients, and certainly had a lot of data around factor
18 levels, inhibitors and so on, and George Urquart was the
19 Consultant Virologist at the time.

20 Obviously at that stage I didn't know any of the
21 patients, so, you know, my initial trawl for information
22 was around the professional staff who had been involved
23 in providing the service that was available at that
24 time.

25 Q. Yes. What documentation did you have available to you?

1 I think in the next paragraph --

2 A. So very little. Dr Heppleston gave me a little box with
3 a set of file cards in it, a series of names, many of
4 which proved to be out of date, and probably the
5 principal source of reliable information was the SNBTS
6 records of factor concentrates use for home delivery and
7 the coagulation laboratory's data on factor levels.

8 Q. Yes. I see that you say that the box of file cards had
9 approximately 200 names in it?

10 A. From memory, yes.

11 Q. How was the prescription of factor concentrates being
12 carried out at that point?

13 A. So at that time the patients phoned up staff in the
14 regional transfusion service and were issued with
15 a factor concentrate. So their prescriptions weren't
16 really scrutinised and their regular use of factor
17 concentrates was not monitored by clinical staff in
18 haematology.

19 Q. Yes. Was that surprising to you?

20 A. Yes.

21 Q. Yes. If we go over the page, we see at paragraph 3.3
22 that there was no haemophilia centre or dedicated
23 location. Could you explain to us what the position was
24 in that case?

25 A. Yes, so from memory we had a haematology ward and we had

1 a small sort of day unit, where patients could come up
2 for either a procedure or ongoing treatment, and if
3 a haemophilia patient phoned up because of a bleeding
4 problem or requesting help, they would be seen in that
5 day unit --

6 Q. Yes.

7 A. -- by the on-call staff for the day.

8 Q. Yes. And I see in the next paragraph you talk about the
9 haematology service predominantly consisting of a crisis
10 intervention service. So were they effectively
11 operating as a safety net for the care of these
12 patients?

13 A. That should actually read "the haemophilia service".

14 Q. Sorry.

15 A. It's a typo on my -- I think other parts of the
16 haematology clinical service were fairly well structured
17 and supported but, yes, from what I could see at the
18 time, there was no regular, routine arrangement for
19 a patient with haemophilia to be seen, whether or not
20 they had particular problems, for the sort of
21 monitoring, review, joint assessment and so on that are
22 a core part of comprehensive care, and that any elements
23 of comprehensive care that were delivered were on an
24 opportunistic basis. If a patient happened to come up
25 for advice, then a member of staff might or might not

1 provide that element of comprehensive care but it was
2 certainly not in a co-ordinated, managed, planned
3 manner.

4 Q. Yes. How did the picture in Dundee compare to what you
5 had seen in Cardiff?

6 A. Yes, clearly a marked contrast, in which in Dundee we
7 were clearly not meeting the standards that had been set
8 and were agreed nationally by the UKHCDO.

9 Q. Yes. I mean, broadly, could you summarise what those
10 standards were?

11 A. Yes, I guess the requirements for a group of patients
12 with a lifelong, chronic illness that has many personal,
13 social, psychological and physical consequences, are for
14 planned, managed treatment of all of those and that
15 cannot happen without a process of regular review,
16 contemporary knowledge of the changing evidence about
17 treatment, about management of inhibitors, management of
18 the complications, interventions to improve joint
19 disease and so on, and none of those things were
20 happening in a planned manner.

21 Q. Yes. Thank you. And I see paragraph 3.6, you say that
22 there were no formal liaisons between the haematology
23 department and key specialist services, including
24 dentists, HIV specialists, hepatologists, orthopaedic
25 surgeons, physiotherapists, social workers. Would you

1 have expected to see that at that time?

2 A. Yes, again, a part of comprehensive care is having
3 a multidisciplinary team to deal with the many
4 complications that I just described, and while a patient
5 with haemophilia, if they needed, for instance,
6 physiotherapy, they would get it in Tayside, it would be
7 on, again, the opportunistic basis of they came up with
8 a problem, a physiotherapist was phoned, but not a named
9 physiotherapist, just a duty physiotherapist. So in
10 trying to set up and establish comprehensive care for
11 our group of patients in Tayside, I had to set out in
12 a planned way to approach each of these departments and
13 try and get a named individual who we could start to
14 work with, to prospectively agree how to best provide
15 different sets of services there for patients with
16 haemophilia, and wherever possible to have named people
17 so that the patients knew who they were seeing and could
18 develop the trust, confidence and so on in
19 a practitioner they were seeing on a regular basis.

20 Q. I noticed at the end of that paragraph that one of the
21 key specialist services that was absent was trained
22 counsellors. Could you tell us, what would you expect
23 a trained counsellor to do for that service?

24 A. So that was specifically in relation to HIV, not that
25 I had any HIV positive patients at that particular time,

1 and hepatitis.

2 Q. So a trained counsellor, would that be a nurse or
3 a doctor or ...?

4 A. Yes, so certainly at that time the -- for instance, the
5 Tayside HIV service had trained counsellors, who were
6 nurses, who were always available when a new diagnosis
7 was made, to spend a lot of time with the newly
8 diagnosed patient and his or her family, to get over the
9 emotional shock of the diagnosis and support them over
10 those early years.

11 I think at that time the hepatologists didn't have
12 specifically trained counsellors for Hepatitis B and C
13 but I think they may have now.

14 Q. I mean, these counsellors, they would be based maybe at
15 a genitourinary clinic and you would have access to
16 them?

17 A. They were based in the infectious diseases department,
18 which at that time was off site, it wasn't in
19 Ninewells Hospital. So again, what I wanted to do was
20 make sure I had established a network of contacts and
21 people that I could involve in creating the quality of
22 service that we wanted to deliver in Tayside.

23 Q. Yes. Thank you. If we could go over the page now to
24 page 4, paragraph 3.8. Here you tell us that from your
25 discussions with Dr Heppleston, the two major areas of

1 clinical need that required urgent addressing were first
2 of all the 15 to 20 knee and hip joint replacements that
3 were needed as a clinical priority on the basis of
4 severe arthritic pain, and then the second major area
5 was about HCV testing. Could you just tell us about
6 that, please?

7 A. Yes, so when I was doing the sort of needs assessment
8 and speaking to Dr Heppleston, he had a list of patient
9 names from the virology department, who had tested,
10 stored sera, when the HCV antigen test was introduced,
11 and identified some who was positive and handed that
12 list on to Dr Heppleston.

13 Q. Yes. What documents, if any, existed about this
14 testing?

15 A. There were no documents. It was simply a sheet of paper
16 that had a list of stored sera unique identifiers,
17 a patient's name, and the result of the test.

18 Q. Yes. Were you able to tell who had taken the blood that
19 had been tested?

20 A. No, I had no sort of governance or knowledge to be
21 certain that the serum that had been stored was taken
22 from that patient; it was simply taken out of the deep
23 freeze in virology.

24 Q. Okay, right. How did you know that it had just been
25 taken out of the deep freeze? Was this what

1 Dr Heppleston told you?

2 A. Yes, I went to see Dr Urquhart, who was a Consultant
3 Virologist, to discuss the genesis of this list and why
4 the tests were done, and he explained that they had
5 stored serum from times that the patients had presented
6 with clinical problems and that more or less out of
7 interest he had undertaken the testing.

8 Q. And were these all patients with haemophilia?

9 A. The list that I was given, yes. I have no idea what
10 other samples the virology department might or might not
11 have tested with the new assay.

12 Q. Yes. Was Dr Urquhart able to tell you what patients had
13 been told about why the blood had been taken in the
14 first place?

15 A. No.

16 Q. Was he able to tell you whether patients had agreed to
17 their sera being tested?

18 A. Not really. He was quite clear that this was an action
19 that the department had taken because they had the new
20 assay.

21 Q. Right. Okay. So he was quite clear that consent had
22 not been obtained?

23 A. To do this test. That's correct.

24 Q. Yes. What was your reaction to that information,
25 Professor?

1 A. Well, I guess -- I have to say my initial reaction was
2 to be a bit horrified because I don't think I would have
3 sanctioned that action personally and also, thinking
4 about meeting these patients for the first time, it
5 didn't seem like a particularly good news story or way
6 of creating a relationship based on trust.

7 Q. Is that because practically the first thing you would
8 have to say is, "We have done -- or someone has done --
9 testing on your blood without asking you first"?

10 A. Not necessarily the first thing but clearly it would be
11 a vital piece of information that I wouldn't withhold
12 from them.

13 Q. Yes. I mean, is there any way at all that something
14 like this could have happened in Cardiff?

15 A. Obviously, I can't speak for what the virology
16 department in Cardiff might or might not have done,
17 certainly from the perspective of the haemophilia
18 service, then, no, I don't think so.

19 Q. Yes. You wouldn't have been at Cardiff at the time that
20 the first antigen test became available. Is that right?

21 A. That's correct, yes.

22 Q. Are you able to tell us what procedure was followed in
23 Cardiff when that test became available?

24 A. Not really from memory, no.

25 Q. What would you expect to have happened when that test

1 first became available, in terms of information to
2 patients?

3 A. Yes, I think there would have been an open sharing of
4 information that, you know, there is a new test that
5 possibly identifies the causative agent of non-A non-B
6 Hepatitis, that clearly at that stage there are concerns
7 about the test, there are going to be some -- it's not
8 comprehensive, there will be some false positive and
9 some false negative results, but it is a significant
10 step forward in trying to understand the aetiology of
11 non-A non-B Hepatitis.

12 Q. Yes.

13 THE CHAIRMAN: It might not be too safe to speculate about
14 what might have happened in Cardiff, Professor, since we
15 have a record of Professor Bloom expressing the opinion
16 on 12 February 1990 that consent wouldn't have been
17 required.

18 A. Would have?

19 THE CHAIRMAN: Would not have. So sometimes these things
20 are best just left as not known.

21 MR GARDINER: Thank you, sir.

22 Just while we are on that topic, these particular
23 patients' results, how did you resolve that situation
24 that you found yourself in with those patients?

25 A. So to confirm the Hepatitis C result, I always took

1 a fresh sample. I would not have acted on the result of
2 a stored serum alone. And clearly in starting to meet
3 these patients for the first time, there was a lot of
4 information that I had to give them. I had to introduce
5 myself as a new Consultant, I had to get across the
6 aspirations of what we were trying to do in terms of
7 establishing a haemophilia service. Then there were all
8 the issues around regular review, joint review, viral
9 disease and so on.

10 I would guess in retrospect, with the benefit of
11 another 20 years' experience, I probably gave them too
12 much of an information overload on the first meeting and
13 if I were to do it again, I would probably have gone
14 about it in a slower manner, introducing some of these
15 issues over a series of meetings.

16 Q. Yes. So you obtained a fresh sample of blood; did you
17 tell the patients that their stored sera had been
18 tested? Is that something that came out?

19 A. Yes.

20 Q. I'm going to come back to the actual information that
21 you gave patients in those contexts but perhaps if we
22 could just follow your statement through and I think --

23 THE CHAIRMAN: If you are starting on a new topic, it might
24 be better to continue after the break.

25 Can I ask, Professor, so far as the virologists were

1 concerned, when the assay came along, it was perhaps
2 something that would be very tempting for those who had
3 stored sera, simply because of the novelty of the
4 situation and general interest. Do you have any feeling
5 whether that might have led to a general practice of
6 testing stored material?

7 A. I certainly didn't ask Dr Urquhart at the time, simply
8 because I had tunnel vision for the issue around talking
9 to patients with haemophilia in Tayside, so I don't
10 know. I guess there would be relatively few groups of
11 patients for whom they would have stored sera and for
12 whom there would be such an obvious question.

13 THE CHAIRMAN: Yes. Yes, I suppose it's unlikely that there
14 would be much stored material for people who had had
15 transfusions in the course of surgery, for example.

16 A. Yes, correct.

17 THE CHAIRMAN: Yes, I think we will have a break at that
18 point.

19 MR GARDINER: Thank you.

20 (10.59 am)

21 (Short break)

22 (11.32 am)

23 THE CHAIRMAN: Yes, Mr Gardiner?

24 MR GARDINER: Thank you, sir.

25 Before the break, Professor, the chairman referred

1 to a document and it would be helpful to have a look at
2 that. It's [\[LOT0034450\]](#).

3 We see that these are the minutes of the 19th
4 meeting of the AIDS group of haemophilia centre
5 directors, held at the Royal Free Hospital on
6 12 February 1990, and we see that present were Dr Bloom
7 and many other notable and eminent physicians.

8 Could we just go to page 4453? We see that the
9 context is a discussion about Hepatitis C tests, and we
10 see at the bottom of the big paragraph the sentence that
11 starts:

12 "At the moment the tests were quite reliable but it
13 would soon be possible to do confirmatory tests ..."

14 Then the next sentence is the one that I think the
15 chairman referred to:

16 "Professor Bloom didn't see why permission needed to
17 be asked for Hepatitis C tests as it was just another
18 LFT."

19 Before the break I asked you to speculate about what
20 you thought would happen in Cardiff on the basis of your
21 knowledge, when the test came in, and if I can just find
22 it, what you said was:

23 "I think there would have been an open sharing of
24 information that, you know, there is a new test that
25 possibly identifies the causative agent of non-A non-B

1 Hepatitis ..."

2 And so on. Just to give you an opportunity to
3 comment further, having seen these minutes.

4 A. Yes, thanks. Yes, I think the context is important, in
5 comparing my position in Tayside with what
6 Professor Bloom has said there. Clearly his patients
7 were in a managed process, in which they had been
8 counselled about non-A non-B and may well have given
9 implied consent for ongoing monitoring of that
10 condition, whereas I was faced with a group of patients
11 I hadn't even met yet. I didn't know what information
12 they had been given and just felt intuitively that it
13 was not right that they had been tested without their --
14 without knowing -- without their permission, without
15 knowing more about what they had been told in the past.

16 So Professor Bloom -- my speculation may well have
17 been wrong, although I do think that the
18 haemophilia centre staff in Cardiff, they would have
19 explained to patients on a contemporaneous nature that,
20 "There is a new test and we are going to test your blood
21 for it".

22 Q. Yes.

23 A. I don't think they would have simply done the test and
24 then come to the patient with the result.

25 Q. Yes. But as the chairman says, we are speculating to

1 a certain extent about that.

2 A. Yes.

3 Q. Thank you.

4 THE CHAIRMAN: Your position on your own practice is quite
5 clear, Professor, and that's perhaps the most important
6 thing at the moment.

7 MR GARDINER: Yes. Thank you, sir.

8 Could we just return to the professor's statement,
9 please? Could we go back to page 4? Thank you.

10 You have just been telling us in the statement about
11 the two major areas that need to be addressed, and
12 I think over the next two or three pages you talk about
13 what you did in reaction to the situation that you found
14 yourself in at Dundee. Perhaps you could just broadly
15 explain what you did.

16 A. Yes. So we obtained funding for an additional
17 Consultant Haematologist posts. It was around 1993/1994
18 from my memory, and Professor Pippard and myself had to
19 decide whether to try and recruit a specialist in
20 coagulation disorders and haemophilia or not, as that
21 was one of the key priorities for the department.

22 Another priority for us, however, was to recruit an
23 academic because the department did not have a very high
24 academic profile in the UK. It was a disadvantage in
25 attracting high quality registrars to our training

1 scheme because there was no sort of research
2 opportunities for them.

3 Given the size of our centre, with only about 30
4 severe patients with haemophilia, we eventually decided
5 that the chances of getting an academic with an interest
6 in haemophilia were just too remote. So that was when
7 we made the decision that I would change my job plan
8 from the treatment of malignant haematological disorders
9 to take on the haemophilia doctor role and we would then
10 try and recruit an academic with an interest in
11 leukaemia research, which we did indeed do and made
12 a very effective appointment that way.

13 Certainly at that stage, when a doctor finishes
14 training to the level of a CCT or certificate of
15 completion of training in the UK, although my previous
16 interests had been in malignant haematology, you are
17 pretty pluripotent at that time. So I had had all the
18 training necessary to develop an interest in
19 haemophilia, although clearly I lacked -- you know,
20 I had limited experience.

21 So that was why it was extremely important for me to
22 establish a relationship with the directors in the
23 comprehensive care centres in Scotland. So it was
24 primarily Professor Ludlam in Edinburgh, to whom I would
25 go for help and advice, although in his absence I would

1 also contact Professor Lowe. And we set about trying to
2 develop the infrastructure in terms of space in the
3 haemophilia centre clinic and the staffing that would be
4 required to deliver comprehensive care in collaboration
5 with the comprehensive care centre in Edinburgh.

6 Q. Yes. What staff did you have at your disposal in the
7 early years?

8 A. So to start off with, nobody really. There was myself,
9 there would be the nurses in haematology, none of whom
10 had any specialist training in haemophilia, and there
11 would be the registrars, so the registrar who would be
12 on the ward or day unit would assist in the first
13 assessment of a patient with haemophilia.

14 Q. Yes. What proportion of your time was spent solely on
15 haemophilia care during these first few years?

16 A. So it would be variable. Obviously, I had general
17 haematology duties. The consultants on a weekly basis
18 received all the new admissions to the unit. I had
19 ongoing -- I was developing a clinical practice of
20 patients with leukaemia and lymphoma and we would always
21 have inpatients who were under my care. We shared the
22 laboratory duties in terms of routine reporting,
23 communication with general practitioners, specialist
24 investigations and so on, clinical consultations within
25 the hospital, teaching commitments and so on.

1 So my actual commitment to haemophilia would vary
2 from time to time. There were clearly times when it was
3 higher and times when it was lower. I would think in
4 the early years, as I say, from 1993/1994 for the next
5 two or three years, it may have taken up to 40 per cent
6 of my time; probably over the duration of 12 years as
7 a haematologist in Tayside perhaps about 20 per cent
8 would be an average.

9 Q. Yes. I think, if we look at paragraph 4.4, you talk
10 about employing a part-time specialist haemophilia
11 nurse, June Ward. Could you tell us a little bit about
12 that, please?

13 A. Clearly that was a key priority for me to be able to
14 have the expertise and commitment of a specialist
15 haemophilia nurse and I had to submit a business plan to
16 get the funding for a salary, which I successfully did
17 in about 1994, and June Ward was appointed in early
18 1995.

19 At that time she had experience of haematology
20 nursing but no particular experience of haemophilia care
21 and, as part of her sort of induction, she spent time in
22 the comprehensive care centres in both Edinburgh and
23 Glasgow. And at the beginning of her job we would see
24 patients together all the time, so that June and I could
25 develop a relationship and understand each other and so

1 that she could acquire fairly rapidly the knowledge
2 about haemophilia care that would be necessary for her
3 to deliver her role as a specialist nurse.

4 Q. Yes. Was she subsequently involved in counselling
5 patients and helping with testing and so on?

6 A. Yes, yes.

7 Q. And what training did she receive as to how to go about
8 that particular task?

9 A. So that would be training on a one-to-one basis with
10 myself.

11 Q. Right. Okay. Perhaps you could outline very broadly,
12 Professor, what you told her were the essentials of
13 carrying out that task?

14 A. Yes. So it wasn't difficult. June and I had similar
15 value systems. We both believed in patient-centred
16 care, and from example in the first instance and then
17 discussion about how a consultation had gone afterwards.
18 We had similar views about how we wanted to develop the
19 service and deliver it to our patient group.

20 Q. Yes. Okay. I mean specifically what did you tell her
21 about how to carry out pre-test counselling?

22 A. For a new patient or an existing patient?

23 Q. Could you tell us about both situations?

24 A. So obviously for the patients with haemophilia who were
25 in the region but who hadn't necessarily had regular

1 treatment, then the first thing to do is to try and
2 establish a relationship with the patient, to try and
3 firstly understand what their existing knowledge of
4 non-A non-B Hepatitis, Hepatitis C was, and on the basis
5 of their existing understanding to then try and build on
6 that.

7 If it was somebody who did not have any
8 understanding, then you would really have to start from
9 the beginning about the likelihood of viral hepatitis as
10 a consequence of blood product treatment prior to viral
11 inactivation procedures and go through the reasons for
12 wanting to test, the benefits of so doing, the potential
13 for treatment, which obviously wasn't that established
14 in those days, and then gain their agreement to do the
15 test.

16 Q. Yes. When you say "build on their knowledge", is that
17 to make sure they understood the contemporary knowledge
18 about the disease?

19 A. Yes, some patients would be pretty well informed through
20 the Haemophilia Society, through other patients that
21 they had spoken to, through the informal contact with
22 the medical and nursing staff in the unit. So for some
23 patients they were already fairly well informed, others
24 were less so.

25 Q. Yes, thank you. If we have a look at page 6 of your

1 statement, at the top we see paragraph 4.6, and you
2 explain:

3 "From 1995, June Ward and I set about establishing
4 the haemophilia centre and the delivery of comprehensive
5 care in Tayside."

6 And you list the priority areas for action, which
7 are listed there, one to seven on that page. Then over
8 the page. These are all the kinds of things that you
9 mentioned as being lacking when you arrived in Dundee
10 first of all. Is that right?

11 A. That's correct.

12 Q. I propose to pass on to your practice in relation to
13 testing and consent. Is there anything in those two
14 pages which you considered are priority areas for action
15 that you think are particularly relevant to the next
16 question, the consent. No?

17 A. No, I don't think so.

18 Q. Okay.

19 THE CHAIRMAN: Can I ask you just about one? In fact it's
20 the very first:

21 "Establishing the centre management, documentation
22 and local protocols."

23 What sort of areas would be covered by the local
24 protocols you thought necessary?

25 A. So one of the important issues for us was that June and

1 I were not going to be in the unit 24 hours a day.
2 While she and I were perfectly clear about the standards
3 of practice that we were developing, we needed to have
4 protocols that covered the other haematology medical and
5 nursing staff, should a patient present with problems
6 out-of-hours, so that we had consistent management
7 across the whole staff group.

8 The other early priority for me was in fact
9 protocols for managing surgery. I had prioritised the
10 orthopaedic surgery because I felt that was an early win
11 that might establish the trust of the patient group,
12 that something was going to be different --

13 THE CHAIRMAN: You had this backlog of people.

14 A. -- and was going to be better. And because we hadn't
15 had any elective orthopaedic surgery in Tayside for
16 a patient with haemophilia -- and it's a major
17 procedure -- I did spend a lot of time writing extensive
18 protocols for the surgeons, for the anaesthetists, for
19 the ward staff who would be looking after the patients
20 post-operatively. That was one of the key early areas.

21 THE CHAIRMAN: I think you might have answered my next
22 question, which is how formally these protocols were
23 presented and to whom they were presented. We are
24 talking about formal written --

25 A. Yes, these were formally written protocols, which

1 I think the centre has been unable to find, and clearly
2 from the service's perspective as a protocol is
3 developed and a new version is put in place, then you
4 would actually want to delete the original protocol.
5 The last thing you want is two protocols in a clinical
6 area that might be saying slightly different things. So
7 they have got contemporary protocols in the centre but
8 not the ones that relate back to this period.

9 So for the out-of-hours service, you know, for the
10 out-of-hours protocols, we had regular haematology
11 educational meetings at which consultants, nursing staff
12 and registrars would all be present, and we would
13 present the haemophilia protocols in that context and we
14 would have a written set of protocols that were kept at
15 the nurses' desk in the general ward and in the
16 haemophilia centre, once we had it established.

17 For the surgical protocols, they were very widely
18 distributed to the anaesthetics department, the
19 orthopaedic department and again amongst all of the
20 staff who might be providing 24-hour cover for the
21 patients.

22 PROFESSOR JAMES: Could I clarify two brief points please?

23 Once things had settled down, how many patients did you
24 find that you actually had on your books that you were
25 seeing relatively frequently?

1 A. There was in the region of 25 patients with severe
2 haemophilia, who would require regular treatment and
3 home therapy and so on, and about 100 with milder
4 coagulation disorders, including mild haemophilia,
5 von Willebrand's disease and some rarer factor
6 deficiencies.

7 PROFESSOR JAMES: Thank you. And second, had it been the
8 practice that more severe patients had gone to the
9 comprehensive centres, particularly, obviously,
10 Edinburgh, until you arrived? Is that how perhaps some
11 of the "worst" patients were being looked after or was
12 that incorrect?

13 A. I'm sure that some of the patients would have been seen
14 in the Edinburgh centre. Over the specific issue of
15 chronic joint disease, for various reasons, no patient
16 had ended up having surgery in Edinburgh or Glasgow,
17 even though that offer was available to them. And
18 I guess that may be for family reasons and, you know,
19 travelling such a long way for major surgery and so on.
20 So I'm sure patients would have been seen but again, it
21 wasn't in a planned manner; it would be on an ad hoc
22 basis.

23 PROFESSOR JAMES: Thank you. Thank you, sir.

24 THE CHAIRMAN: Thank you very much.

25 MR GARDINER: Thank you, sir. Yes, we do have an example of

1 a protocol which I think we could have a quick look at.
2 It's [\[PEN0180930\]](#). Is that an example of --
3 A. Yes, clearly that's -- I wouldn't describe that as
4 a protocol, which would have to be a more detailed
5 document, but that may be a working guideline that might
6 be laminated and put on the ward for -- put in the
7 haemophilia centre for regular use. A protocol would
8 have to be more detailed and have a rationale and
9 references and --
10 Q. There is another document perhaps we could have a look
11 at, which is [\[PEN0180932\]](#).
12 These are documents that have been provided to the
13 Inquiry by June Ward, I should say, sir.
14 Could we go over the page -- is this more --
15 A. Yes, this is not a protocol that we have written; this
16 was an NHS Tayside regional approach to providing care
17 for Hepatitis C, up until the production of this
18 protocol, which was particularly, I think, focused on
19 the treatment options. If we wanted to offer interferon
20 therapy to any patient, we had to make an individual
21 case to the medical director through a hepatologist, and
22 this was an attempt to standardise the care of
23 Hepatitis C treatment across all patient groups in
24 Tayside on the basis of a protocol.
25 Q. So the protocols that you are talking about at the

1 moment are really, would you say, training aids for
2 members of staff working in the hospital?

3 A. Yes, in having a protocol, I would expect a reference
4 document, to which anybody can go, and it would give the
5 background information, it would have an educational
6 purpose, it would give the rationale and reasons, but
7 obviously -- and we would have protocols for the
8 treatment of leukaemia, lymphoma, myeloma, all the other
9 conditions -- on a day-to-day basis, staff are not going
10 to have the time to consult such a detailed document but
11 it is there for reference if they need it. And the
12 first document you showed is a helpful aide-memoire so
13 that if you are seeing patients in a busy clinic
14 environment and you just need to refresh your memory
15 about whether they should have a particular test done as
16 part of that protocol or guideline, they would be able
17 to access that.

18 Q. Yes. Did you produce a protocol that was specifically
19 directed to HCV testing and the correct procedure to
20 follow with a patient?

21 A. Not a specific haemophilia patient protocol. I worked
22 with Dr John Dillon, who was the principal source of
23 expert advice around Hepatitis B and C, and basically
24 used his protocols. We may well have adapted them for
25 the particular context of haemophilia but it was not

1 original work by ourselves.

2 Q. Yes, right, okay, thank you. I would like to pass on
3 now to the practice in relation to testing, and that's
4 back to the statement, please, at page 0861.

5 Which page is that?

6 THE CHAIRMAN: It starts on 60.

7 MR GARDINER: Yes, I have got that, thank you.

8 Yes, so this is question 5, and you explain here
9 that there were three separate phases, historical
10 periods, if you like. Could you just tell us about
11 that?

12 A. So before my appointment, as I have indicated earlier,
13 there was not a planned, managed process for seeing and
14 delivering ongoing care to our patients with
15 haemophilia. What counselling may have taken place was
16 on an opportunistic basis when they were attending the
17 hospital for other reasons.

18 Then the second phase was once I had agreed to take
19 on the role of the lead clinician for haemophilia care
20 and I was beginning to see patients and attempting to
21 establish both a relationship with them and deliver the
22 standards of regular care that we have discussed, but
23 again it was slightly opportunistic, and then from 1995
24 onwards, once June was appointed, she was much more
25 organised than I had been around starting to get

1 a formal appointment process. We had a dedicated space
2 in creating a haemophilia centre, where we could see the
3 patients. We didn't need to look for a spare room in
4 the day unit. And obviously it developed from there.

5 Q. Yes. Thank you.

6 If we go on down to paragraph 5.2.1, the question
7 is:

8 "When did they start testing their patients for
9 HCV?"

10 We have already dealt with the first bit there, the
11 cohort of 30 patients. Could you just tell us what
12 happened from 1992 onwards, please?

13 A. So from the time I started to see patients, I would, as
14 I have indicated previously, introduce myself, explain
15 what we were trying to do in the department and go
16 through the gamut of issues in relation to their
17 haemophilia, allied conditions, you know, joint
18 conditions, dental work, and on to Hepatitis C, B and
19 HIV. And I would, at first meeting, want to ascertain
20 what knowledge they had about HCV and try and build on
21 that knowledge and obtain their informed consent for
22 participation in ongoing review and assessment of their
23 liver function and Hepatitis C status.

24 Q. What would that involve, obtaining their consent? How
25 would that be done?

1 A. So it would have to be individualised and based on what
2 they already knew. I would then take the conversation
3 forwards and explain the latest information we had about
4 Hepatitis C, about the Hepatitis C test, if they had or
5 hadn't been tested for it, and explain the potential
6 benefits of that test.

7 Q. Yes. Would you give the patient the opportunity to
8 decide not to have the test, for example?

9 A. Yes, that would certainly have been my intention. As
10 I indicated earlier, I think, you know, in retrospect
11 I probably tried to do too much at the first visit, when
12 I saw the patients, given the sort of unique situation
13 we had in Tayside. Perhaps, if I were doing it all over
14 again, I might spread the load of information over two
15 or three visits.

16 Q. Yes. Do you know what happens if you give a patient too
17 much information like that?

18 A. Yes, clearly -- we are all humans, there are limits to
19 the amount that we can assimilate, remember and truly
20 understand. So if you give too much information all at
21 once, it will be inevitable that a patient is not going
22 to remember everything that you have said.

23 Q. Yes. So what is a preferable practice in that
24 situation? How would you make sure that a patient got
25 the information that they required?

1 A. You would explain to them. You have to start off by
2 getting a feel for the patient, where they are, what
3 their sort of cognitive skills are. Then you explain to
4 them, in language that you think they will understand,
5 and ask them what they have understood, assuming that
6 you have time in the consultation to do that.

7 Q. Yes. Understood about the disease?

8 A. Understood about -- yes, so if you have just counselled
9 them, say, about Hepatitis C and the test and so on, you
10 can then ask them a question, you know, "What have you
11 understood about that?" and if they play back to you
12 a fairly accurate record of what you have said, then
13 that's good. If they haven't, then you know that you
14 have not succeeded in getting across the concepts that
15 you attempted to do.

16 Q. Yes. During this period, 1992 to 1995, would you have
17 explained the implications of a positive diagnosis to
18 the patient before the test was taken?

19 A. Yes, I would. As these were mostly patients who had not
20 had the benefit of ongoing follow-up and discussion,
21 I generally sort of started from the beginning.

22 Q. Yes. We know that knowledge of Hepatitis C changed over
23 time. Between 1992 and 1995, can you remember what you
24 were telling patients about the implications of
25 a diagnosis for their health?

1 A. Not with absolute certainty in terms of, you know,
2 I wouldn't have said it before 1992 or after 1995. But,
3 yes, at that time it was clear that more evidence was
4 arising around the fact that Hepatitis C was not
5 necessarily the benign condition that we had assumed in
6 the previous decade, and I would explain that to
7 patients. Looking at their sort of individual profile
8 in terms of did they have evidence of chronic liver
9 disease, how badly affected were their liver function
10 tests and trying to look at other potential complicating
11 issues such as their alcohol intake or other prescribed
12 drugs that they were on.

13 Q. We know that for certain patients the disease developed
14 to cirrhosis and for another proportion to liver cancer.
15 Was that possibility discussed with your patients during
16 this time?

17 A. Yes. So cirrhosis certainly. I'm not sure from memory
18 about hepatocellular cancer. I'm not sure when that was
19 identified. It may be mid 1990s. I'm not sure about
20 that but once we were clear about the link, it would be
21 something that June and I would discuss with the
22 patients because for hepatocellular carcinoma, we would
23 be monitoring their alphafetoprotein test.

24 Q. So would you have passed on your knowledge of the
25 development of the disease to June Ward to make sure

1 that she would pass that on to the patients? Is that
2 how it worked?

3 A. Yes.

4 Q. Thank you. Can we just go on to the next page, please,
5 page 9, the second paragraph:

6 "Did they tell their patients that HCV tests were
7 being carried out? What did they tell their patients
8 about HCV testing? Did they obtain consent ..."

9 I think we have just dealt with that:

10 "Were there any written guidelines or policies on
11 HCV testing produced by the unit at this time?"

12 I think you say that there weren't protocols that
13 specifically dealt with testing?

14 A. Yes, in terms of Hepatitis C, we didn't set about
15 writing a separate set of protocols. We took the
16 protocols from John Dillon as the liver specialist and
17 adapted them for haemophilia.

18 Q. Yes. Is that what to do once a diagnosis has been made?

19 A. Yes, so certainly once we had a diagnosis, and
20 particularly if there was evidence of chronic liver
21 disease or progression, then we would aim to have the
22 patients jointly seen by John Dillon and myself, or John
23 Dillon and June.

24 Q. Yes. But you understand that no such guidelines have
25 been found --

1 A. That's correct, yes.

2 Q. -- despite the search by June Ward. Thank you. The
3 next question is 5.3.1:

4 "What was their practice in relation to telling
5 their patients the results of an anti HCV-positive test?
6 Did they inform their patients immediately upon
7 receiving their results? If not, why not?"

8 Can I just ask you to answer that question in your
9 own words, Professor?

10 A. Thank you, yes. So for all of the patients, including
11 those in whom we had been given the results from
12 virology, we took a first test -- we took a fresh blood
13 sample to confirm the test, and our aim was, in seeing
14 a lot of these patients for the first time, to give them
15 a follow-up appointment fairly rapidly, within a month
16 or so, to discuss again the gamut of tests that we had
17 undertaken. And if their HCV status was positive, we
18 would take a second blood sample for a confirmatory
19 test.

20 So our aim was to see everybody within a month of
21 first meeting them. Prior to June's appointment, I may
22 not have achieved that objective, largely because I was
23 just working on my own and June was far more organised
24 than I was around making follow-up appointments.

25 Q. Yes. So you would take blood for a first test and then

1 if that test was positive, the patient would come back
2 and have more blood taken. At that point would the
3 patient be told that they had tested positive the
4 first --

5 A. Yes, and that it was a screening test, that it was
6 fairly reliable but to be absolutely certain, we would
7 do a second test.

8 Q. Yes, and at that point, before you had done the
9 confirmatory test, would you go into the detail of the
10 implications of the diagnosis and so on?

11 A. Yes, I would, particularly if, you know, if there was
12 other supporting evidence. If it was a patient who had
13 had extensive treatment, then they almost certainly were
14 HCV-positive. If they had evidence of abnormal liver
15 function tests or clinical evidence of chronic liver
16 disease, then I wouldn't necessarily wait for the
17 confirmatory test.

18 Q. Yes. What would you tell patients at that time about
19 the implications of the diagnosis?

20 A. So part of what you would say to a patient would depend
21 on the clinical context. So if they very clearly had
22 evidence of chronic liver disease, you would have to be
23 honest and say that, you know, "There is evidence of
24 progressive liver disease, so you may be in the group of
25 patients who are going to go on and develop cirrhosis".

1 If somebody had no evidence and over a period had
2 relatively normal liver function tests, you would tell
3 them that they might be in the better prognosis group
4 but that there was no guarantee of this.

5 Q. Yes.

6 A. So you would try and stratify the risk according to all
7 of the evidence in front of you and give them an idea of
8 progression over time. So over successive clinic visits
9 you would either try to reassure them or to be honest
10 with them about the risk of progression.

11 Q. Yes. So you are not giving us a picture of one visit,
12 "Here is the news about your situation," and then it's
13 not mentioned again. You continued to mention and
14 discuss with the patient. Is that right?

15 A. Yes.

16 Q. Was there anything else that you told patients when they
17 received the positive result? You mention, I think, at
18 some point, the possibility of transmission to third
19 parties and so on?

20 A. Yes, we would and offer to test partners if so wanted.

21 Q. Yes. Would you have any advice about sexual
22 transmission during this period?

23 A. Yes, I mean, obviously, you know, there was advice from
24 UKHCDO independent of viral testing because of viruses
25 that we might not know about and the fact that none of

1 the tests were 100 per cent reliable, but if somebody
2 did come up as Hepatitis C-positive, then we would go
3 over that and the potential issue of sexual
4 transmission.

5 Q. Yes. So would you be encouraging preventative --

6 A. Barrier contraception, yes.

7 Q. Thank you. Okay. If we go over the page to page 10,
8 the question is:

9 "What did they tell their patients about the
10 implications of HCV?"

11 I think we have covered some of that but perhaps you
12 could just talk to us a bit more about what you did.

13 A. So knowledge was constantly evolving over the course of
14 that decade. We would try to keep patients up-to-date
15 with that evolving knowledge and as I indicated earlier,
16 also important to try and individualise the advice,
17 depending on the evidence of liver disease and
18 progression in each patient.

19 Interferon therapy was available from, I think,
20 1994/1995-ish. In the early stages it was a case that
21 had to be made by a referring clinician to the medical
22 director for approval, but then from 1998 that NHS
23 Tayside policy for treatment that you showed earlier
24 came out and patients could be offered treatment on that
25 basis.

1 June or I would never initiate treatment without
2 involving John Dillon as the Consultant Hepatologist.
3 He had the specialist knowledge of that and we would
4 discuss and did undertake some liver biopsies on
5 selected patients, if John felt that would be of benefit
6 in terms of deciding about treatment.

7 Q. Yes. Thank you. Sorry. Can we just go back,
8 Professor? I asked you earlier about whether, during
9 these meetings with patients when they had received
10 a positive result, you would discuss the possibility of
11 sexual transmission and whether you would be encouraging
12 a particular approach, and I don't think we caught your
13 reply. What was it? What would you be advising
14 patients?

15 A. We would advise barrier contraception because of the
16 risk of transmission.

17 Q. Right, thank you very much. Just in case we missed it,
18 would there be any other lifestyle advice that you would
19 give patients?

20 A. Obviously alcohol intake is something that can have an
21 adverse impact on liver disease. We would review any
22 prescription medications that they might be on for
23 potentially hepatotoxic effects and discuss over the
24 counter medications.

25 Q. Yes. How strong would your advice be about alcohol use

1 at that time?

2 A. So I think at that time UKHCDO recommendations were not
3 the total abstinence of alcohol but to use it moderately
4 and I think, you know, the advice would be that any
5 amount of alcohol is potentially toxic to the liver but
6 clearly, in determining the risks and benefit, then, you
7 know, the individual's lifestyle and enjoying a bit of
8 social alcohol was a decision for them to make.

9 Q. Yes. Just bear with me. (Pause)

10 Could we have a look at [\[PEN0180649\]](#). This is the
11 Collective Response of haemophilia centre staff.
12 I would like to ask you a couple of questions about it,
13 Professor.

14 Could you tell us what your involvement was in the
15 production of this document?

16 A. Yes. So my involvement was fairly minimal. I was sent
17 a copy of the Collective Response at an advanced draft
18 stage, asked to comment on it. I made a number of minor
19 changes in relation to the different context of Dundee
20 and the haemophilia centre and the lack of comprehensive
21 care at an earlier stage.

22 Q. Yes. Thank you. So you didn't help draft it?

23 A. No.

24 Q. No. Thank you.

25 Sir, I propose to move on to the witness' comments

1 on Dr Hay's report, unless you have any questions?

2 THE CHAIRMAN: Just one. Did you have any contact with the
3 SNBTS locally over this period?

4 A. Yes.

5 THE CHAIRMAN: They clearly had an interest in respect of
6 donor screening in Hepatitis C testing, as you did. Did
7 you discuss with them what they were doing in the way of
8 counselling and information they were giving?

9 A. Good question. Not explicitly around donor counselling,
10 no. We have a slightly unusual set-up in Dundee, in
11 that there is a regional transfusion service that also
12 provides the hospital blood banking. So we had a lot of
13 contact with them over the hospital blood banking side
14 of things and in relation to factor concentrate storage
15 and prescription, but not so much around the donor side.

16 THE CHAIRMAN: Yes. Yes, thank you.

17 MR GARDINER: Thank you. Yes. Could we have a look at
18 [\[PEN0181186\]](#) now, please? This is a report to the
19 Inquiry from Dr Charles Hay. We are about to hear
20 evidence from him, Professor.

21 You have had an opportunity to read this. Is that
22 right?

23 A. I have, yes.

24 Q. Thank you. It's a very long report but the bit that
25 I would particularly like to refer to is on page 27 of

1 [\[PEN0181186\]](#).

2 Yes, thank you.

3 Just to put this in context, Dr Hay has been asked
4 by the Inquiry to look at the developing knowledge about
5 the disease and to think about what doctors would have
6 been and should have been telling their patients at
7 various time periods, and at this section of the report
8 he is talking about his own practice. If we look at
9 paragraph 63 -- I'm just going to read it out -- he
10 says:

11 "It was my practice in Liverpool and Manchester to
12 inform patients that I was testing them for Hepatitis C
13 and to go over (again) an outline of Hepatitis C.
14 Consent and counselling was, and is, not the norm prior
15 to Hepatitis C testing and hepatologists would, and do,
16 routinely test for Hepatitis C as part of an
17 investigation for abnormal liver function test without
18 discussing the test specifically with the patient. They
19 may tell them they are testing for hepatitis viruses."

20 Next paragraph:

21 "Some patients have complained, many years after the
22 event, that they were tested 'without their permission'.
23 In some they may, indeed, have been tested without being
24 specifically informed and in other cases it is
25 documented that they were informed both that they were

1 being tested and of the result. The idea that
2 a Hepatitis C test should engender prolonged pre-test
3 counselling derives from the practice adopted after 1985
4 by most centres of counselling prior to HIV testing.
5 The implications of a positive HIV test could be
6 perceived as a death sentence, led to loss of insurance,
7 marriage breakdown, and even in some cases suicide.
8 There is no comparison between this and Hepatitis C
9 testing. For that reason, there has never been
10 a specific consent process attached to Hepatitis C
11 testing even though it would be normal practice to
12 inform the patient that they were being tested and to
13 inform them of the result."

14 Paragraph 65:

15 "In our centre, we informed them we were testing
16 them for Hepatitis C, discussed the result with them
17 when available and wrote to the GP and documented the
18 discussion."

19 I'm going to refer you to a report by
20 Professor Nathanson and ask you to comment on both
21 reports, but just before we leave this one, do you have
22 any comment about those paragraphs there?

23 A. Yes. Clinical context is obviously really important.
24 So a patient referred to a hepatologist with hepatitis
25 of unknown origin -- that could be viral or drug induced

1 or an autoimmune disorder -- clearly has to be
2 investigated for that cause, and the process of
3 obtaining consent for a battery of tests which identify
4 the cause of hepatitis might be different from a patient
5 with haemophilia.

6 So I think clinical context is important and one
7 would expect a practitioner to modify their practice in
8 the light of the context that is in front of them.

9 Again, with haemophilia care of patients in a proper
10 managed process, there will be ongoing consent or there
11 will be ongoing information about non-A non-B Hepatitis,
12 and the addition of a Hepatitis C test is not
13 necessarily starting with a new problem; it's part of an
14 ongoing follow-up and review process. So depending on
15 the consent that they have already given for sort of
16 monitoring of liver function tests and their knowledge
17 of non-A non-B, I think the context may well be
18 different.

19 Q. Yes. Thank you. Can we have a look at
20 Professor Nathanson's supplementary statement? Sorry,
21 that's [\[PEN0180419\]](#). Again, you have had a opportunity
22 to read that?

23 A. I have indeed, yes.

24 Q. Thank you. If we look at the first question that
25 Professor Nathanson was asked, which is in the bottom

1 half of the page:

2 "What is the current approach to testing for HCV?
3 In particular what information should a clinician
4 provide to his/her patients about the disease and the
5 implications of a positive diagnosis? What is the
6 current GMC/BMA guidance on this point?"

7 Professor Nathanson starts by referring to the GMC's
8 booklet on Good Medical Practice, and she refers to an
9 quotation which talks about:

10 "... a doctor using specialist knowledge and
11 experience in clinical judgment and the patient's views
12 and understanding of their condition to identify which
13 investigations or treatments are likely to result in
14 overall benefit for the patient. The doctor explains
15 the options to the patient setting out the benefits.
16 The doctor recommends a particular option."

17 And so on. If we just go over the page, the
18 paragraph at the top, Professor Nathanson says:

19 "Today doctors are expect to offer the patient all
20 the elements of information identified in this guidance.
21 It is essential that it is understood that the
22 information is offered; no patient can or should be
23 forced to listen to the full set of information."

24 In the fourth paragraph she stresses again:

25 "What matters is the offering being made, and the

1 doctor being sensitive to what the patient wants to
2 know."

3 The second last paragraph on the page, she stresses:

4 "When seeking agreement to tests, one element of the
5 information offered will be to explain what the tests
6 might show, why it is being performed, and what
7 decisions will be made in respect of the results."

8 And so on. So this is an answer to the current
9 approach to testing. What would your reaction be to
10 what Professor Nathanson has written there?

11 A. Thanks. So her statement defines the sort of generic
12 best practice for the ethical clinical practice in terms
13 of obtaining informed consent, and that is something
14 that all doctors should aspire to but probably none of
15 us deliver every time, every patient, firstly because of
16 the clinical context that we have already discussed and,
17 secondly, because, you know, the clinical environment is
18 sometimes a chaotic and messy one and there are multiple
19 other pressures on a doctor's time.

20 So in the particular instance of haemophilia care,
21 then obviously it's a long-term, ongoing process and
22 it's not something to be done on one clinic visit and
23 then parked; it will be part of the ongoing dialogue
24 that you have with patients at regular review meetings.

25 Q. Yes. Thank you. If we could go over the page and look

1 at the second question, and the question, which is put
2 to Professor Nathanson, is:

3 "What was the correct approach to testing for HCV
4 between 1991 and 2000? In particular what information
5 should a clinician have provided to his/her patients
6 about the disease and the implications of a positive
7 diagnosis? What was the current GMC/BMA guidance on
8 this point and how did it evolve? Were there any
9 circumstances in which testing could be done without
10 obtaining a patient's consent?"

11 She starts off her answer by referring to the BMA
12 publication "Philosophy and practice of medical ethics".
13 It's stated that:

14 "The basis for any discussion about consent is that
15 a patient gives consent before any investigation or
16 treatment proposed by the doctor. The doctors offer
17 advice and the patient decides whether to accept ..."

18 A little bit further down the page she refers to a
19 GMC advice from 1988, entitled "HIV infection and AIDS:
20 The ethical considerations", particularly a paragraph
21 which says:

22 "It has long been accepted and is well understood
23 within the profession that a doctor should treat a
24 patient only on the basis of the patient's informed
25 consent."

1 She then refers to a 1997 GMC advice and draws
2 attention to paragraph 4, which says:

3 "Some conditions, such as HIV, have serious social
4 and financial, as well as medical, implications. In
5 such cases you must make sure that the patient is given
6 appropriate information about the implications of the
7 test, and appropriate time to consider and discuss
8 them."

9 If we could just go over the page, she goes on to
10 say:

11 "It is clear and explicit that in 1997 the GMC
12 required doctors seeking consent to have regard to the
13 implications of the test result. This is more explicit
14 than the earlier advice on testing for HIV, but is in
15 accord with it. While the advice relates to HIV, it is
16 important to note that it identifies 'some conditions
17 such as HIV' and is not, therefore, limited only to
18 testing for HIV."

19 She says:

20 "Given that in the nine years from the production of
21 the advice on testing for HIV to this advice on serious
22 communicable diseases, more and more doctors have had to
23 test for HIV, and therefore had to consider how to
24 advise on testing for conditions with serious
25 non-medical consequences, the GMC was almost certainly

1 reflecting best practice and a recognition that not all
2 practitioners were as yet practising at this level."

3 Would you agree with me, Professor, that
4 Professor Nathanson seems to be suggesting there that
5 for HCV testing, a doctor should adopt the same
6 procedure that was adopted for HIV testing; in other
7 words, a more prolonged form of counselling and
8 discussion of the implications with thinking time and so
9 on?

10 A. Thanks. Yes. So again these are principles for best
11 practice that come in the form of guidance or advice
12 that a good clinician will interpret in the light of the
13 clinical context. So the example you quoted earlier of,
14 say, a patient presenting to a hepatologist with
15 unexplained severe hepatitis, where the correct care of
16 that patient would be absolutely dependent on
17 identifying the cause of the hepatitis, I would expect
18 a clinician to take a different approach around getting
19 informed consent because there is a matter of urgency
20 and need, for the benefit of that patient's management
21 and their health, to complete these tests.

22 If you took a completely different clinical context,
23 say, a member of staff who had had a needle stick injury
24 from a Hepatitis C-positive patient, then I think that
25 is fundamentally different and I would expect the

1 process that Dr Nathanson outlines there to be gone
2 through in some detail. You have got a completely
3 healthy patient who might be infected. If he or she is
4 found to be Hepatitis C positive, it would have
5 implications for life insurance and so on, then they are
6 entitled to hear the detailed risks and benefits of
7 undergoing testing and to decide for themselves whether
8 or not they want to undergo the testing.

9 It's clearly their decision and the responsibility
10 of the doctor, should they decide not to be tested, to
11 make sure they are clear that HCV is a potentially
12 curable condition and there are implications if they
13 decide not to.

14 I think context is really important.

15 Q. Yes. I'm grateful to you for your full answer on that.
16 I was specifically just asking you to acknowledge that
17 she does seem to be suggesting this extended HIV-type
18 counselling. Would you agree with that --

19 A. She is, that is generic advice. It cannot possibly
20 cover the multiple clinical conditions that, as I said,
21 in the sometimes chaotic clinical environment clinicians
22 have to deal with and will have to assess the risks and
23 benefits of every action that they take and then take
24 appropriate action.

25 Q. Yes. But if we could have a quick look at [\[PEN0181239\]](#),

1 this is a document that you have kindly provided the
2 Inquiry in connection with Dr Hay's report and
3 Professor Nathanson's supplementary report. Before
4 I ask you about this, would you agree that there does
5 appear to be a conflict between what Dr Hay is saying in
6 his report about the requirement for that extended type
7 of counselling and what Professor Nathanson is talking
8 about?

9 A. I wouldn't say a "conflict" because I think they are
10 different documents. If Dr Nathanson is trying to
11 identify, using GMC Good Medical Practice, the
12 principles of obtaining informed consent, to which we
13 should all work towards and aspire, then the appropriate
14 interpretation of those principles will be dependent on
15 clinical context.

16 Q. Yes. So we see here in your response you say you agree
17 with the report from Dr Nathanson and have no additional
18 comments. We shouldn't interpret that as you preferring
19 what Professor Nathanson is saying over what Dr Hay is
20 saying, if indeed there is a difference.

21 A. It's not a preference because I think the individual
22 reports are for different purposes.

23 Q. Yes. You have told us that you think that Dr Nathanson
24 is trying to identify the GMC Good Medical Practice and
25 the principles of obtaining informed consent. How

1 should we be looking at Dr Hay's report then?

2 A. Dr Hay is explaining, in the context of his clinical
3 practice, how he, as a haemophilia doctor, delivered his
4 clinical care, taking into account Good Medical Practice
5 and all the principles of good clinical care.

6 Q. Yes. I don't want to put words in your mouth, so tell
7 me if I'm wrong about this, but are you suggesting that
8 what Professor Nathanson is describing is an aspiration
9 or an ideal or ...?

10 A. Yes, it's certainly an aspiration and an ideal but it is
11 advice and guidance and every doctor in their clinical
12 practice needs to take cognisance of standard practice,
13 good principles and advice, but recognise that the
14 multitude of different clinical contexts and situations
15 means that he or she needs to conduct their practice and
16 deal with the issues that they are dealing with that day
17 in the knowledge of that advice but tailoring it to the
18 particular circumstance. So the two examples of
19 somebody with a needle stick injury and somebody who has
20 got severe unexplained liver disease, the principles are
21 the same but the actual practice will be very different.

22 Q. Hm-mm. One of our witnesses has referred to the
23 implications of a test as being the difference between
24 being well and then, after the result of the test, being
25 unwell, being a patient. I mean, is that what you mean?

1 A. Well, certainly, for somebody who has had a needle stick
2 injury, that might well be the case. There is no
3 compelling medical illness that they have at that time
4 and they may make an informed decision that even though
5 they have had a needle stick injury from an HCV-positive
6 patient, that it is their personal decision not to
7 proceed with testing. That's a position that a patient
8 may want to take and a doctor's responsibility is only
9 to provide them with the risks and benefits and
10 information that they need to make that decision.

11 Q. And what's the difference between that and a patient who
12 attends a liver specialist, having been referred by his
13 clinician?

14 A. The principle is the same but the advice is different.
15 The advice is, "If you do not have these tests, then we
16 will be unable to manage the acute illness that you have
17 to best possible practice and you may be limiting our
18 ability to make an accurate diagnosis and therefore give
19 you the best treatment. It may have an immediate
20 adverse impact on your health."

21 So it is a more compelling situation, in which the
22 risk/benefit of having the test is significantly
23 different.

24 Q. I suppose it's an easier decision for the patient, is
25 it, in that situation?

1 A. Yes, in the situation where, if you have got severe
2 unexplained liver disease and you want to get better
3 from it, then absolutely, it is a less contentious
4 ethical issue, whereas Dr Nathanson's guidance has to
5 cover the entire spectrum. You know, the principles of
6 ethical practice, but it has to be generic enough that
7 it covers the entirety of medical practice.

8 Q. Yes.

9 PROFESSOR JAMES: Could I just add one small thing? I'm
10 Professor James, medical adviser, and I happen to be
11 a liver specialist.

12 So I would add that in the very good example that
13 you chose of somebody coming in with unexplained serious
14 liver disease, it strikes me at least that
15 Professor Nathanson's aspirational advice is even more
16 aspirational in nature because there might be four or
17 five or more different conditions which would result
18 from the battery of tests which were undertaken by the
19 doctor, and it would really be very difficult for
20 somebody to give information about the implications of
21 a positive diagnosis. What it might mean in terms of
22 treatment, prognosis, et cetera, for all of those four
23 or five conditions before undertaking the battery of
24 tests. Indeed, one would certainly think that the
25 problems with information overload that you and counsel

1 have already alluded to this morning really would become
2 quite reductio ad absurdum. I think you chose a very
3 good example, if I may say so.

4 Thank you very much, sir.

5 MR GARDINER: Just to maybe pursue this a little bit
6 further, there are extremes. I mean, Dr Hay in his
7 report referred to situations where patients simply
8 hadn't been told that they were being tested for
9 Hepatitis C. Clearly that's not appropriate; you were
10 horrified when you found out about that in Dundee. So
11 you would agree that that was not appropriate, I take
12 it?

13 A. Yes, I agree that patients have a right to know all the
14 pertinent and relevant information about their health
15 and the investigations that a doctor has undertaken.
16 Clearly, it's the responsibility of the doctor to
17 provide them with that information in an appropriate,
18 empathetic, understanding and controlled manner. So,
19 you know, it may be that you don't necessarily deal with
20 all of the issues in a single sitting, it may be that
21 you need to park a particular issue until another
22 consultation, but it would be inappropriate for a doctor
23 to withhold relevant information about somebody's
24 health.

25 Q. Yes. I suppose it is a question of degree as well

1 because you could have a situation where a doctor might
2 say to a patient, "I'm going to test you for
3 Hepatitis C," and then just get on with it, not really
4 giving the patient the opportunity to say yes or no to
5 the offer of a test. That's maybe not as reprehensible
6 but it wouldn't be a good approach. Is that fair?

7 A. Yes, I would intuitively feel that was the wrong
8 approach. If the basis of a successful doctor/patient
9 relationship is trust, then I think you need to build up
10 that trust on, you know, the grounds of explanation and
11 agreement for the actions that you are going to
12 undertake.

13 Q. Yes. Thank you. Would you just bear with me,
14 Professor? (Pause)

15 Professor, there is just one final thing I would
16 like to ask you about and it's really a comment that you
17 made to us earlier before we came in, about the
18 experience of patients with haemophilia over the last
19 years and decades. These patients, what do you feel
20 their experience has been?

21 A. Obviously haemophilia is a horrible, lifelong condition
22 and over the last 30 years or so I think -- you know,
23 for patients in this group there have been these waves
24 of huge optimism around fantastic advances in treatment,
25 such as factor concentrates and home therapy, which

1 revolutionised the life of patients, prophylactic
2 treatment that now prevents joint disease in boys who
3 are born today, interspersed with the horrors of HIV and
4 hepatitis and new variant CJD. So every time there
5 seems to be a substantial advance, there is some sort of
6 nasty surprise waiting, and I think it has been very
7 difficult for this group of people to cope with that.

8 Q. I think you told us that there had been waves of
9 optimism and waves of despair. Is that right?

10 A. Yes.

11 Q. Thank you very much, Professor.

12 I have no more questions, sir.

13 THE CHAIRMAN: Mr Di Rollo?

14 MR DI ROLLO: Sir, I don't require to ask any questions.

15 THE CHAIRMAN: Mr Anderson?

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

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

18 THE CHAIRMAN: Professor, thank you very much indeed.

19 A. Thank you.

20 MR GARDINER: Sir, we have Dr Hay next. I think it might be
21 better to start him after lunch actually.

22 THE CHAIRMAN: Yes, then can we start early? Do you know
23 whether he is here?

24 MR GARDINER: He is here, so if we could maybe start
25 a quarter of an hour early.

1 THE CHAIRMAN: Is that acceptable to everybody? Right, we
2 will adjourn now.
3 (12.48 pm)
4 (The short adjournment)
5 (1.45 pm)
6 DR CHARLES HAY (continued)
7 Questions by MR GARDINER
8 THE CHAIRMAN: Good afternoon.
9 Yes, Mr Gardiner?
10 MR GARDINER: Good afternoon, Dr Hay. You have previously
11 given evidence to the Inquiry during the specific deaths
12 section on 18 March 2011 and we looked at your CV at
13 that point.
14 THE CHAIRMAN: Is it as long ago as that?
15 MR GARDINER: Statistics, I'm sorry. But there is a helpful
16 summary at page 2 of the report that you have prepared
17 for this topic. Could we have a look at that? It's at
18 page 2 of [\[PEN0181186\]](#).
19 I take it that you are still director of the
20 haemophilia centre in Manchester?
21 A. Yes.
22 Q. And still chairman of the UKHCDO?
23 A. I relinquished the chair of UKHCDO in the autumn of last
24 year.
25 Q. Right. I wonder if you could try to speak into the

1 microphone that's just in front of you there. Thank you
2 very much.

3 We see on page 2 of your report your qualifications
4 and your present post, consultant haematologist,
5 director Manchester Haemophilia Comprehensive Care
6 Centre, honorary senior lecturer in medicine,
7 Manchester University and that you were appointed in
8 1994, and there is a brief summary at the bottom of your
9 career and experience. Could you just tell us about it
10 very quickly?

11 A. Well, I did my house jobs in Sheffield, where
12 I qualified, and my first house job was six months of
13 general surgery with the Professor of Surgery. I then
14 became, in fact, the first haematology houseman. It was
15 partly haematology, partly general medicine, partly
16 gastroenterology, for six months, and in fact that was
17 the point at which I was really exposed to coagulation
18 for the first time and that drew me into haematology.

19 I then went on to do general medical training posts
20 in Sheffield and in London, before becoming a registrar
21 in haematology back in Sheffield, then subsequently
22 became senior registrar in the same department I had
23 done my house job in and continued to develop my
24 interest in thrombosis and haemostasis, and it was at
25 that point that I started to look after patients with

1 haemophilia more full-time and made one or two clinical
2 observations that led ultimately to the liver biopsy
3 series which we published in The Lancet in 1985 and in
4 Blood in 1983.

5 Q. Yes, thank you. We will look at your early work
6 a little bit later but could we go to page 3 of our
7 report, we see under the heading "Introduction" (a) to
8 (h), the questions that you have been asked to address
9 by the Inquiry, the risk of non-A non-B Hepatitis, each
10 of the landmark years, state of knowledge about the
11 severity of the illness, information given to patients
12 about the risk of non-A non-B Hepatitis, your personal
13 practice in relation to telling patients the results of
14 anti-HCV-positive tests, what clinicians reasonably have
15 been expected to tell their patients about the
16 implications of Hepatitis C in the early days and from
17 1995 onwards, whether the information and practice would
18 differ between patients who have been treated before or
19 not, tracing and testing of patients who might have been
20 exposed and when HCV testing of patients with bleeding
21 disorders started.

22 So these are the questions that we are hoping that
23 you are going to be able to help us with today.

24 I should mention that your report is very
25 comprehensive, very helpful and very lengthy and deals

1 with areas which the Inquiry has looked at before and so
2 I will be skipping over some parts and focusing on this
3 specific topic, which is about information to patients.

4 At the bottom of page 3 there is a reference to what
5 you just told us about working as a haematology houseman
6 at Sheffield Royal Infirmary and the results published
7 in the Preston et al paper, and if we just go over the
8 page, on page 4 you describe to us your early years of
9 practice. Could you just talk us through what you
10 describe on this page, please?

11 A. Okay. Well, about the time I was the haematology
12 houseman, Mannucci published the first report of the use
13 of DDAVP in the letter to The Lancet. Partly because of
14 the department's interest in this relatively newly
15 described non-A non-B Hepatitis, they took this up very
16 early and I actually was involved in some of these very
17 early treatments with DDAVP, although it was unlicensed
18 for that indication at the time.

19 I returned to the department as a Senior Registrar
20 in 1983 and had to do a regular follow-up clinic on our
21 patients with haemophilia, and what got the ball rolling
22 was the clinical observation that one of our patients
23 who had been biopsied back in the late 70s had developed
24 clinical signs of cirrhosis. What was particularly
25 remarkable at that time was that the biopsy result had

1 shown chronic persistent hepatitis.

2 Now at that time chronic persistent hepatitis, which
3 is a histological appearance of the liver, was
4 associated with a benign, non-progressive outcome. So
5 it was very surprising to see somebody whose previous
6 biopsy, only about three or four years before, had shown
7 chronic persistent hepatitis, who now had full-blown
8 cirrhosis and who actually had had an episode of
9 encephalopathy. So I went to Professor Preston and
10 I pointed that out to him and I suggested that it might
11 be of some interest to do further biopsies, particularly
12 in the patients who had previously had a biopsy, to see
13 if their liver disease had progressed and to see whether
14 the natural history of non-A non-B Hepatitis was
15 actually more progressive than had been supposed.

16 We convened a group, which was made up of the
17 previous authors, plus myself, worked out a protocol and
18 arranged a series of biopsies. I mean, these biopsies,
19 I think it was felt, would have been required clinically
20 in any case because liver biopsies are a classical way
21 in which liver disease is monitored.

22 The natural history of chronic persistent hepatitis
23 at that time was largely based on a paper by Chadwick et
24 al, which looked at chronic persistent hepatitis in
25 patients with Hepatitis B. And with hindsight perhaps

1 we shouldn't have expected that it would pursue the same
2 natural history with a different virus.

3 Q. Yes. Could I ask you, doctor, why it was that you
4 proposed this change in the progression? You say in the
5 middle of the paragraph:

6 "I proposed that the natural history of non-A non-B
7 Hepatitis might differ from chronic Hepatitis B."

8 What made you propose that?

9 A. Because what we were observing in that patient was out
10 of keeping with what we would have expected to see
11 according to the paper of Chadwick et al.

12 Q. So it was that one patient --

13 A. It was that one patient, who was a particularly extreme
14 example. Because, you know, if he had had chronic
15 active hepatitis, which is characterised by bridging
16 necrosis, so you have bits of the liver actually,
17 obviously, dying, it wouldn't have been so surprising
18 because that's a frequent appearance before you develop
19 full-blown cirrhosis.

20 Q. Yes.

21 THE CHAIRMAN: Mr Gardiner can I just fill in one date, to
22 get the timespan here? Paragraph 2, you refer to
23 Mannucci and I see from the list of authorities at the
24 back, that was 1977 that was published.

25 A. Yes.

1 THE CHAIRMAN: How soon after that do you think it was that
2 you administered that first dose of DDAVP?

3 A. I can't remember exactly but probably within two or
4 three months.

5 THE CHAIRMAN: So that really gives us the timespan for this
6 interest.

7 A. Absolutely, yes.

8 THE CHAIRMAN: Yes. Thank you.

9 MR GARDINER: Thank you, sir. If we look to paragraph 4, we
10 see that you became the senior lecturer in Liverpool
11 in May 1987. Could you tell us what research interests
12 you pursued at that time?

13 A. Well, I continued to pursue research in haemophilia but
14 not liver disease. I was interested in the
15 immunological effects of Factor VIII concentrate. I did
16 some of the early clinical trials with antiretroviral
17 drugs, I increasingly published papers on Factor VIII
18 inhibitors, that sort of thing.

19 Q. Yes. You say that you have been continuously involved
20 in the management of patients with bleeding disorders
21 since 1983 and as a haemophilia centre director, since
22 1987, and that you have been the custodian of the
23 national UK haemophilia database since 2002?

24 A. Yes.

25 Q. Thank you. Can we just move over the page, please, to

1 page 5? So we see the heading, "Hepatitis C testing and
2 the risk from blood products and blood components prior
3 to 1 September 1991". This is an area where I'm going
4 to move fairly quickly but we see the first reference,
5 paragraph 5:

6 "In the 1970s ..."

7 Just to read this short:

8 "... non-A non-B hepatitis was considered to be
9 a benign and non-progressive condition."

10 A. Yes.

11 Q. Yes. Then paragraph 6 and 7 deal with what was known at
12 that point and I would like to just turn over to page 6,
13 please. Under the heading of "Donor self-exclusion and
14 HIV testing", you refer to a pilot scheme for donor
15 exclusion in North London in 1984, and if we just move
16 on to paragraph 10, you talk about:

17 "HIV testing reinforced the effect of donor
18 self-exclusion and taken together, these steps reduced
19 the number of high risk donors giving blood."

20 And I'm just going to read that short. If we go
21 over the page to page 7, at paragraph 11 you have
22 referred to various papers and calculations and you end
23 up with a conclusion towards the end of paragraph 11,
24 which is that there was approximately a tenfold
25 reduction in the risk of post-transfusion Hepatitis C in

1 the UK, during the course of the 1980s, following the
2 introduction of donor self-exclusion and HIV testing.

3 Could you just say something about that very
4 briefly, why that happened?

5 A. Well, the risk group for Hepatitis C and for HIV are
6 similar; they share a lot of the same risk factors.
7 Therefore steps to exclude one virus will have an effect
8 on the other --

9 Q. Yes.

10 A. -- to reduce post-transfusion hepatitis. Now, one thing
11 one should say, however, is that, although there is
12 a tenfold reduction in risk per unit, it wouldn't make
13 much difference to the risk from the concentrate that's
14 derived from that plasma because the donor pools were so
15 large. But in terms of the risk from single donor units
16 of the cryoprecipitate or red cells, it would reduce the
17 risk considerably.

18 Q. Yes, and I think you deal with that specifically later
19 on in your report. Thank you. So the next heading is
20 "Surrogate testing", and again, this is an area that the
21 Inquiry has looked at in some detail, so I'm going to
22 pass over the next few pages, and if we could take it up
23 again at page 14, which is 1199, so paragraph 27 of your
24 report. Just to put it in context, in the previous
25 pages you have been setting out the different tests that

1 were available at different times and at paragraph 27

2 you say:

3 "The second generation test was validated and widely
4 introduced in late 1991 and early 1992 and the first
5 Hepatitis C test for most patients generally dates from
6 1992 or 1993 for that reason."

7 In the next paragraph you explain a bit more about
8 that. Could you just talk us through what you are
9 mentioning in this next paragraph, please?

10 A. Sure. I mean, many patients -- if you ask them to cast
11 their mind back -- have got the false impression that
12 perhaps they contracted Hepatitis C the first time,
13 around then, because that would have been the first time
14 they had a test, but in fact since we had been aware of
15 non-A non-B Hepatitis for some years, it was by that
16 stage normal to regularly check the liver function tests
17 of patients with bleeding disorders. Those with
18 intermittent or persistently abnormal liver function
19 tests would usually expect to have had that discussed
20 with them and should already have known that they had
21 non-A non-B Hepatitis.

22 They may have forgotten that, particularly during
23 the HIV era, where HIV, quite rightly, adopted a much
24 higher profile.

25 But against that context, for most of those patients

1 actually having Hepatitis C test was to some extent by
2 way of being a confirmatory test because Hepatitis C,
3 having finally been isolated and a test developed, the
4 assumption would have been that most of the abnormal
5 liver function tests that we were seeing in that group
6 would be attributable to Hepatitis C.

7 Q. Yes.

8 A. Some is obviously attributable to alcohol and obesity,
9 as in the general population, but the assumption would
10 be that most of it was attributable to Hepatitis C.

11 Q. Yes.

12 A. Because some of the patients that tested positively had
13 normal liver function tests too.

14 Q. I suppose in the context of tests like this that were
15 being taken, the liver function tests, patients would
16 have been told why they were having these tests done?

17 A. Yes.

18 Q. And you say in that paragraph that patients that had
19 been treated infrequently and who didn't follow up may
20 have been tested later but there would have been no harm
21 because of the rate of progression of Hepatitis C, and
22 you mention the treatment with Alpha interferon. When
23 did that first become possible, the treatment with Alpha
24 interferon?

25 A. Well, originally Alpha interferon was introduced -- it's

1 actually in my report -- in, I think, the mid-90s and
2 Alpha interferon on its own for six months is not very
3 effective.

4 Q. Yes. So that wouldn't be available until the mid-90s?

5 A. I think that's right.

6 Q. Yes. Just moving on to the next heading, which is
7 "Calculation of risk of Hepatitis C", you explain in the
8 first sentence:

9 "Patients treated with pooled blood products prior
10 to the introduction of viral attenuation in 1985-87,
11 will have been infected with Hepatitis C."

12 So that was certain, was it Dr Hay?

13 A. They would have been exposed to it. It relates to the
14 maths really. When you have donor pools for
15 manufacturing concentrates of 20 to 50,000 donations,
16 even with a very low incidence in the donor population,
17 inevitably you would end up with a number of infected
18 donations in each plasma pool. It wasn't recognised at
19 the time but that meant that all the concentrates prior
20 to viral attenuation would transmit Hepatitis C.

21 Q. Yes. If we go over the page to page 15, at the top of
22 the page:

23 "... transmission, therefore, recognised to have
24 been inevitable."

25 And you make the point:

1 "There was no difference ... in the infectivity for
2 Hepatitis C of different brands sourced from the UK,
3 mainland Europe or the USA."

4 Can you just explain that briefly?

5 A. It comes back to the same thing. Even though it has
6 been shown that there are geographical differences in
7 the background incidence of Hepatitis C, because of the
8 large number of donor units in each donor pool for
9 fractionation, regardless of the origin of the
10 concentrate, they would all have been infected and there
11 is no evidence to suggest that British products were
12 less likely to transmit Hepatitis C. That contrasts, of
13 course, with HIV, where there were some advantages to
14 using British products because HIV spread later into the
15 British donor population.

16 Q. Yes.

17 A. I think that there was a supposition that American
18 concentrate was more likely to transmit hepatitis
19 because people were aware of the skid row blood banks
20 that existed in the 1960s and I don't think fully
21 understood the system of payment for blood donation in
22 the United States.

23 Q. Yes. But what you are saying there is that it wouldn't
24 really make much difference from a non-A non-B point of
25 view?

1 A. No, from a non-A non-B point of view, it didn't make any
2 difference.

3 Q. Yes. And the next --

4 A. Sorry to keep interrupting you. You have to remember
5 that I think although there are so many horror stories
6 about the United States, we were still taking blood
7 donations from prisons in this country until the early
8 80s.

9 Q. Yes. Paragraph 30 you explain that:

10 "The risk of transmission of Hepatitis C from the
11 administration of single-donor blood products depends on
12 the number of units transfused ..."

13 I think over the next few pages of your report you
14 look at the risk of transmission, and I don't want to
15 spend time on that. It's very, very helpful and very
16 detailed but if we could just go to your conclusion,
17 which is at page 19.

18 THE CHAIRMAN: Which paragraph?

19 MR GARDINER: I'm sorry, it's paragraph 42.

20 THE CHAIRMAN: We don't have page references.

21 MR GARDINER: I'm sorry. At paragraph 42 you are assessing
22 the risk of contracting Hepatitis C and you say at the
23 bottom of paragraph 42 that this would place:

24 "... the risk during 1983-4 at between 0.6 per cent
25 and 1 per cent per unit of single-donor blood product

1 transfused, say 0.75 per cent."

2 This is a figure that you have arrived at by looking
3 at the papers in the previous pages of your report. Is
4 that right?

5 A. Yes, and assessing the methodology employed.

6 Q. Yes.

7 A. Because it's a soft estimate.

8 Q. A soft estimate? Thank you. You then explain how to
9 estimate the cumulative risk and you have produced
10 a table on the following page, which is the second half
11 of paragraph 44, and without spending too much time,
12 Dr Hay -- I know it's a complicated subject -- could you
13 just briefly explain what that table shows there?

14 A. Well, across the top you have the percentage risk per
15 unit and I have given a range of risks because,
16 obviously, that's disputed to some extent, and the
17 methodology that was employed before the introduction of
18 Hepatitis C testing was relatively soft and some of the
19 studies that looked at it didn't test frequently enough
20 and that may have minimised their ascertainment and
21 introduced ascertainment bias into the study.

22 So across the top you have a range of the percentage
23 risk per unit. Down the left-hand side you have the
24 number of units and then you can read off what the
25 percentage risk is. Above that I explain the

1 mathematical basis for working out that risk, because it
2 isn't just simply multiplying, say, 0.75 by the number
3 of units.

4 Q. Yes.

5 A. We probably don't need to go into the maths.

6 Q. Right. I think so.

7 THE CHAIRMAN: I'm sure that I will remain immune from that
8 but what about the methodology? Is it well established
9 in your view?

10 A. Yes, yes. The methodology for working out a table like
11 this is relatively easy. I did it originally with
12 a scientific calculator. The principles adopted are in
13 the previous paragraphs. The point is really that a lot
14 of patients will actually have been infected with
15 Hepatitis C before they were ever given concentrate,
16 especially patients with severe haemophilia who were
17 very regularly treated with cryoprecipitate from the mid
18 60s.

19 THE CHAIRMAN: So you will understand that if I have to
20 avoid going into the book on A level statistics I keep
21 through there, I really need your evidence that this is
22 an appropriate methodology. So that's why I'm asking.

23 MR GARDINER: If we look at the bottom line, we have 440
24 units and if we read along and apply your 0.75 per cent,
25 we get the figure of 96 per cent. So do I understand

1 that if a patient has had infused 440 units of
2 cryoprecipitate, then there is, by your calculations,
3 an 96 per cent chance of risk of infection?

4 A. Yes, if you accept that the risk per unit is about
5 0.75 per cent.

6 Q. Yes. How many units would a typical person with severe
7 haemophilia use in the course of one year?

8 A. Well, back then the standard dose for a haemarthrosis
9 would be 6 to 12 bags. A bag of cryoprecipitate
10 contained about 80 units of Factor VIII. The first
11 bottles that were produced of concentrate had about 250
12 units in them. So even so, that's quite a conservative
13 dose. The current dose would be 1500 to 2,000 units.
14 That would be a lot of bags of cryo.

15 The patients bleed between twice and week and once
16 a fortnight on average. Some patients bleed less than
17 that. So you can work it out from there, but that would
18 be between 600 bags plus a year. To be honest, I think
19 back then they probably sat on a lot more of their
20 bleeds than they do now. Ie they would only come into
21 hospital if they were in pain because this was very much
22 hospital-based treatment. You store cryo at minus 40.
23 It doesn't lend itself to home treatment. So, you know,
24 they would get a bleed, they would come into hospital
25 and have treatment.

1 But you can see a couple of years you would be way
2 over these figures.

3 Q. So within a couple of years you would be well past 440
4 units. You are nodding?

5 A. Yes.

6 Q. Yes, thank you. So if we move on to the next heading,
7 which is "The state of knowledge of non-A non-B
8 Hepatitis amongst haematologists during this period,"
9 and this is something that the Inquiry is familiar with,
10 first reported by Mannucci in the Journal of Clinical
11 Pathology, and then the second half of the 1970s, it was
12 suggested that between 35 and 85 per cent of patients
13 with haemophilia were infected with non-A non-B
14 Hepatitis. That's right, is it?

15 A. That was based on abnormal liver function tests. So
16 what they are actually reporting are the percentage of
17 patients with abnormal liver function tests because they
18 wouldn't have been able to know about those patients who
19 may have been infected with Hepatitis C but whose liver
20 function tests were normal. So that was almost
21 certainly an underestimate but it was the best estimate
22 that could be made at that time.

23 Q. Yes. Then if we go over the page to page 21,
24 paragraph 46, you refer to the early liver biopsy series
25 and so the references, which are at the back of your

1 paper, 44 to 48, these are Mannucci, Preston, White,
2 Mannucci and Stevens. These are the --

3 A. Yes, and there were others.

4 Q. Yes. All found evidence of only very mild liver disease
5 and you say that you discovered something with the
6 wisdom of hindsight. Perhaps you could explain that?

7 A. Okay. Why did they only find mild liver disease?
8 I think, with the wisdom of hindsight, now that we know
9 more about the natural history of Hepatitis C, one would
10 say that we found very little evidence of serious liver
11 disease at that time because the patients had not been
12 infected with Hepatitis C for very long and the natural
13 history is one of either non-progression or very slow
14 progression in most patients, and they just hadn't had
15 the Hepatitis C long enough for us to begin to see the
16 more serious manifestations.

17 Q. Yes. So you didn't have the whole picture?

18 A. That's right.

19 Q. Or even very much of the picture?

20 A. That's right, we were looking at a group of patients at
21 a relatively early stage in their natural history.

22 THE CHAIRMAN: Can I ask you about one thing that has
23 interested me from time to time? Until concentrates
24 became available in the mid 70s and later, the
25 impression I have is that the life expectancy of

1 a severe haemophilia patient was very much less than it
2 became thereafter.

3 A. Hm-mm.

4 THE CHAIRMAN: Does that have a bearing on this matter?

5 A. Yes, I think it does. The life expectancy of untreated
6 haemophilia, if you go back to the beginning of the
7 20th century, is only 10 to 15 years. With the
8 introduction of blood transfusion, that increased to
9 29 years. But as late as the early 60s, the life
10 expectancy of US patients with severe haemophilia was
11 still averaging out at only 40 years. Treatment was
12 always relatively delayed because it was based in
13 hospitals. Patients didn't have the opportunity to
14 treat themselves early. They also suffered far more
15 morbidity because all of their joint bleeds were treated
16 late and by current standards with inadequate doses of
17 product.

18 So the introduction of home therapy in the early
19 1970s was expected to improve the quality of life and
20 life expectancy, and before all these viruses became
21 apparent, actually real methods suggested that the life
22 expectancy would be near normalised. In fact a more
23 recent estimate from Darby et al, which we published in
24 Blood in 2007, showed that even now patients with severe
25 haemophilia have a life expectancy about two or three

1 years shorter than the general population.

2 THE CHAIRMAN: We have seen Dr Biggs' early study supported
3 by the actuarial material, which seemed to me fairly
4 narrowly based, I have to say.

5 A. I agree with you.

6 THE CHAIRMAN: Anyway for present purposes, of course, it's
7 a factor that we have to take into account that very
8 many of those who might potentially have developed
9 severe liver disease unfortunately didn't survive to
10 a point at which that became apparent?

11 A. Yes.

12 THE CHAIRMAN: Thank you.

13 MR GARDINER: Thank you.

14 This early liver biopsy series, you say, was very
15 influential. You stressed that the condition was
16 non-progressive and benign. Could you tell us about
17 when you had an interaction with a London Professor of
18 haematology.

19 A. Once we had started to do liver biopsies more regularly,
20 and began to present our results, I was approached by
21 a certain Professor of haematology, who looked askance
22 and asked me why I was bothering to do all these liver
23 biopsies because, as he said, it's only a biochemical
24 curiosity. We had already begun to suspect it was
25 a good deal more than that but I mentioned that anecdote

1 really just because his view was not so far from the
2 consensus at the time.

3 Q. Yes. What percentage of specialists at that point
4 doubted that this was a non-progressive and benign
5 condition?

6 A. I think most haemophilia doctors felt that it was benign
7 and non-progressive until we published, to be honest.
8 There were a lot of liver biopsy studies in the late 70s
9 and very early 80s showing benign liver disease.
10 I think the Stevens paper came out in 1981 and the
11 Mannucci one, 1982. But it's a long time.

12 Q. Yes.

13 A. But at the time we were doing our liver biopsy, I don't
14 think anyone in the UK was looking at this. Aledort was
15 looking at it in the United States.

16 PROFESSOR JAMES: Can I make just two brief comments, sorry?

17 One is that actually the view of the benignness of it
18 may have been reinforced by the fact, I think, that from
19 the very wonderful UKHCDO patient database that you are
20 now the guardian of, as a matter of fact there was a
21 sort of four- or five-year period towards the end of the
22 70s in which there were no deaths from liver disease
23 among haemophiliacs recorded. I think that's correct,
24 isn't it?

25 A. Yes, I think it is.

1 PROFESSOR JAMES: So that perhaps reinforced people's view
2 that whatever it was, it wasn't causing anything very
3 serious. The other thing perhaps to just mention is
4 that although the view was taken in the Stevens and
5 others studies that you referred to, that it was
6 "benign", as a matter of fact, when you and others
7 examined these papers carefully, there was already
8 a 10 per cent incidence of cirrhosis in those. So they
9 actually came out with conclusions that were sometimes
10 perhaps a little too reassuring.

11 A. Yes, I agree with that. Mannucci's paper -- I think
12 they had one patient with cirrhosis already out of 11
13 patients.

14 PROFESSOR JAMES: Yes.

15 A. But, you know, they very much pushed this line that it
16 was benign. In fact the title of our paper was actually
17 a parody of Stevens' title.

18 PROFESSOR JAMES: Yes.

19 A. Quite deliberately we were poking fun at it.

20 PROFESSOR JAMES: Thank you.

21 MR GARDINER: Were you poking fun at it because you were so
22 confident that it was wrong?

23 A. Yes, we were pretty sure it was wrong. We were
24 publishing the largest series of liver biopsies and
25 there is strength in numbers scientifically. A lot of

1 the previous studies were, apart from anything else,
2 very small and it seemed logical that, because we were
3 looking later, we might well see more serious liver
4 disease because the patients had had longer for the
5 disease to progress.

6 Q. And in the next paragraph, paragraph 47, you say that
7 when you presented your findings, the results were
8 greeted with alarm and incredulity?

9 A. Up to a point, yes.

10 Q. Was that actually at the time that you presented them?
11 You got that reaction?

12 A. Yes, I had an oral presentation at the British Society
13 for Haematology and I think it was a surprise to people
14 and people, you know -- there was then an active
15 correspondence in The Lancet following my publication in
16 which Mannucci tried to explain to me that we had got it
17 all wrong.

18 Q. Then Aledort et al published their two papers, 85 and
19 86?

20 A. Yes.

21 Q. Which supported your conclusions. So is that why you
22 say that there was gradually acceptance that the
23 condition was much less benign than had previously been
24 supposed?

25 A. Yes.

1 Q. Right, thank you. Well, that section of your report is
2 sort of general history, leading up to the specific
3 questions that we have asked you to address, and if we
4 could go to paragraph 48, page 22, these are the answers
5 that you have provided us with. At paragraph 48 you
6 say:

7 "The risk of contracting Hepatitis C from clotting
8 factor concentrate approached 100 per cent at all times
9 prior to the introduction of viral attenuation."

10 And in the next paragraph you refer back to your
11 estimate of risk calculation and also that donor
12 exclusion had reduced the risk of transmission, and it's
13 at paragraph 50 that you start to deal with the state of
14 knowledge in the landmark years and, doctor, could
15 I just ask you to talk us through this paragraph,
16 please?

17 A. Paragraph 50?

18 Q. Paragraph 50, yes.

19 A. Thank you. Well, Mannucci published his paper in
20 J Clin Path in 1975. That's not a huge wide circulation
21 journal to be honest but awareness started after that
22 point and I think there was very widespread awareness
23 that there was some form of liver disease in a lot of
24 our patients by the late 70s, though nobody really knew
25 what the clinical significance was. And very varied

1 prevalences were reported.

2 In Australia at that time they were still using
3 cryoprecipitate mainly. In fact there is a paper
4 I haven't quoted you from there, where they, despite
5 using a lot of cryoprecipitate, nevertheless have quite
6 a high incidence.

7 I think we have dealt with most of the rest of that
8 paragraph already to be honest.

9 Q. I think the next date you mention is 1985. You say that
10 that view held sway until 1985?

11 A. Yes.

12 Q. What was the attitude after 1985? How did it develop?

13 A. I think there was a gradual acceptance that our
14 observations were correct and that a significant
15 minority of patients with non-A non-B Hepatitis would
16 develop serious liver disease.

17 Q. Yes. And then over the page, at paragraph 51, you
18 mention the next significant date, which is 91/92. Why
19 was that significant in this history?

20 A. That's significant because this is the point at which
21 Hepatitis C testing is widely introduced. And a lot of
22 the patients are tested. Some of those whose liver
23 function tests had been normal will have been identified
24 as chronic carriers. Of course, it was an antibody
25 test. So it didn't necessarily tell you whether you had

1 active Hepatitis C or not and it wasn't known. It would
2 just tell you whether you had been exposed or not.

3 It wasn't known how many patients remitted
4 spontaneously.

5 Q. Yes.

6 A. The other thing which is very significant about that is
7 that once Hepatitis C testing became available, we
8 rapidly realised that a condition that's not talked
9 about any more very much, cryptogenic cirrhosis of the
10 liver, was largely attributable to Hepatitis C. I mean,
11 what cryptogenic cirrhosis means is they have got
12 cirrhosis and you do not know why.

13 Q. Where it came from?

14 A. And the fact that you then discover that most of those
15 patients have got Hepatitis C and no other cause is
16 alarming because it tells you a bad story about the
17 natural history of the condition.

18 Q. Yes. Did you get this extra information about cirrhosis
19 as a result of the testing? People tested positive for
20 the virus and therefore were sent for biopsies? Is that
21 how it went?

22 A. No, I mean, the patients with cryptogenic cirrhosis that
23 I'm talking about are not necessarily bleeders. I'm
24 talking about this coming out in the literature,
25 hepatologists testing the patients that they may well

1 have already been following up to manage their
2 cirrhosis.

3 Q. What I'm getting at is you say:

4 "A further step in our understanding came with the
5 advent of testing. We realised that most patients with
6 cryptogenic cirrhosis did have chronic Hepatitis C."

7 What was the link between the testing and the
8 discovery of that? How did that --

9 A. Well, when you have got a condition and you do not know
10 what the cause is and a new test comes along, you are
11 going to use it, and studies appeared where people had
12 tested patients with cryptogenic cirrhosis and found
13 a high incidence of Hepatitis C.

14 PROFESSOR JAMES: Sort of the other way round from what had
15 happened before. Loads of liver clinics hastened to
16 test all their patients with "cryptogenic liver disease"
17 not due to drinking too much et cetera et cetera and
18 found that a very significant proportion of those
19 cirrhotic patients turned out to be
20 Hepatitis C-positive.

21 A. Yes.

22 MR GARDINER: So you had the diagnosis of cirrhosis before
23 and --

24 A. Now you find out why they have got it.

25 Q. I see, thank you.

1 A. Because, as far as anybody knew at that point, they had
2 no risk factors for cirrhosis. So why did they develop
3 it?

4 Q. You also mention in that paragraph the link with
5 hepatocellular carcinoma. How did that link come to be
6 known?

7 A. Well, hepatocellular carcinoma almost invariably
8 presents in the context of cirrhosis. So there is an
9 incidence of hepatocellular carcinoma with all causes of
10 cirrhosis, although the risk varies depending on the
11 cause, the risk of hepatocellular carcinoma is less in
12 people with alcoholic cirrhosis and primary biliary
13 cirrhosis than it is with post viral cirrhosis. And
14 I think it had already been recognised that Hepatitis B
15 was a cause of hepatocellular carcinoma.

16 Patients with cirrhosis and hepatocellular carcinoma
17 of unknown cause would have also been tested in the way
18 that Professor James has just described and the link
19 would have been discovered, this isn't something that
20 immediately came to light through observation of
21 patients with bleeding disorders. The first report of
22 hepatocellular carcinoma in one of our haemophilia
23 patients in the UK was as recent as 1995 and I think
24 looking at our statistics, it's quite interesting, the
25 long lag period that must have occurred before we

1 started to regularly observe hepatocellular carcinoma in
2 our cohort of patients.

3 Q. So that comes about by comparing the cause of the
4 cirrhosis and seeing --

5 A. Yes.

6 Q. -- what the prognosis was?

7 A. Yes.

8 Q. I see and what year was that link first recognised?

9 A. I'm not sure exactly what year.

10 Q. Right, okay.

11 PROFESSOR JAMES: It would be the early 90s, 92, something
12 like that.

13 MR GARDINER: We can check that.

14 PROFESSOR JAMES: Dr Hay said, as far as, you know,
15 haemophilia is concerned, the first UK reported one, he
16 says, from their unparalleled database was in 95.

17 MR GARDINER: Yes, that's helpful. The reason I'm asking is
18 because obviously that's something that one might
19 mention to a patient --

20 A. Absolutely and we do. But in the very early 90s I don't
21 think that we would have done. By the mid-90s we
22 certainly would have done. It was becoming clearer by
23 then what the risk was and we currently quote
24 a 5 per cent risk.

25 Q. Yes, thank you. The next paragraph deals with the

1 information that was given to patients about what you
2 have just been telling us and could you talk a little
3 bit about that?

4 A. Okay. Well, in the late 70s and the early 80s they
5 wouldn't have been told a great deal, partly because
6 there wasn't very much known. In the centres I worked
7 in there was a background interest in this area, so we
8 were checking liver function tests from the mid 70s on.
9 My experience in other haemophilia centres leads me to
10 believe that it became more widespread about 1980. The
11 two haemophilia centres of which I have been director
12 started to check liver function tests regularly about
13 1980. So it will have varied. Bear in mind there
14 wasn't any treatment.

15 I would expect that if the liver function tests were
16 persistently or intermittently abnormal, that the
17 patient would have been told this and would have been
18 told that they probably had non-A non-B Hepatitis. But
19 in the late 70s and early 80s, they would have been told
20 it was nothing to worry about, because that was the
21 consensus of opinion, and they would have been told that
22 the cause wasn't certain. All sorts of things were
23 considered, not all viruses.

24 Q. Yes. So I think --

25 A. In the early days it wasn't even clear that it was

1 caused by a virus. People wondered whether there were
2 contaminants in the concentrates, toxins, who knows?
3 But they would have been told there was no test. It was
4 thought not to be readily transmissible and they should
5 have been told to minimise their alcohol intake because
6 that's general advice for anybody with a chronic
7 abnormal liver function, whatever the cause.

8 Q. Yes. Sorry, just to go back, you said that if a patient
9 was persistently having abnormal liver function test
10 results "persistently", would that be, what, several
11 months in a row?

12 A. What I mean by that -- you may have noticed I have
13 talked about persistent or intermittent abnormalities.
14 With Hepatitis C it is not uncommon to see a pattern
15 whereby the liver function tests are not always
16 abnormal. So you might check them every six months and
17 perhaps half of them are completely normal. The
18 condition seems to wax and wane and, you know, with
19 a series of liver biopsies, we actually saw patients
20 going from chronic persistent hepatitis to chronic
21 active hepatitis and back again. So, you know, their
22 condition went through more active and less active
23 phases. So you have to check the liver function tests
24 regularly or you could miss that.

25 Q. Yes.

1 A. But some of the patients, their liver function tests are
2 invariably abnormal.

3 Q. And at what stage at this time would you expect
4 a clinician to be saying to his patient, "I think you
5 might have non-A non-B Hepatitis"? How persistent would
6 the abnormal findings have to be?

7 A. At least two abnormal liver function tests over at least
8 six months. There is a definition of chronic hepatitis,
9 which relates to that.

10 Q. Yes.

11 A. If your liver function tests are abnormal for more than
12 six months, then it's chronic.

13 Q. And if this was chronic you would expect the clinician
14 to tell the patient, "I think you have got non-A non-B
15 Hepatitis"?

16 A. Yes.

17 Q. Thank you. So at that time -- and you have gone through
18 the list of things that you would expect a patient to be
19 told -- the general message to the patient would be
20 reassuring?

21 A. Yes.

22 Q. And the minimising alcohol, is that just common sense
23 because if you have got a liver condition, then ...?

24 A. Yes, I mean, it's general advice that would be given to
25 anybody with a chronic liver condition because it's

1 generally recognised that alcohol can be a co-factor for
2 liver disease progression. If you have got some other
3 reason for your liver to be inflamed, then the safe
4 limit doesn't apply to you.

5 Q. Yes. So even as early as this, the possibility of
6 alcohol being a co-factor is in clinicians' minds?

7 A. It's just general advice to people with chronic
8 hepatitis. I don't think there was any evidence that it
9 was a co-factor.

10 Q. That's later?

11 A. Evidence did emerge later.

12 PROFESSOR JAMES: Would it be fair to say also that these
13 were young men and as a matter of fact alcohol was
14 a pretty recognised, not that uncommon, cause of
15 morbidity and ill-health among this group already,
16 wasn't it?

17 A. I'm not sure that patients with haemophilia drink more
18 than the general population.

19 PROFESSOR JAMES: I wouldn't for a moment suggest that they
20 did but --

21 A. Young men drink generally more than the general
22 population.

23 PROFESSOR JAMES: Yes, and particularly men in their 20s,
24 who are afflicted by pain and not very happy with their
25 lives and so on. From my memory from your database,

1 there were a number of deaths associated with alcohol
2 over the years, as it were.

3 A. Yes, absolutely and some of the accidents that happened
4 that normal people might have survived were certainly
5 associated with alcohol, and you are also right in
6 saying that they are a relatively young cohort, probably
7 reflecting the high mortality in earlier years, the
8 average age of the patients that we biopsied was 32.

9 MR GARDINER: Just to be clear about terms, when you use the
10 word "co-factor" for alcohol, are you referring to the
11 synergism between alcohol and the virus, which is
12 discovered, I think, quite a lot later on.

13 A. Yes, I mean, there is no direct evidence of it at that
14 point but if you developed acute hepatitis, you would be
15 advised to not drink any alcohol at all, probably.

16 Q. Yes. And in the last sentence in paragraph 53, you say:

17 "Many of these conversations will have been
18 forgotten ..."

19 Why do you say that?

20 A. I know it to be true. Some of these conversations have
21 been documented and yet the patients deny that took
22 place.

23 Q. Yes.

24 A. And this is a well recognised phenomenon in medicine and
25 it's particularly likely to happen if the conversation

1 is in the context of, you know, bad news. That's
2 particularly relevant to the HIV era. It reminds me of
3 an advert that I read a few years ago for Macmillan
4 nurses. The caption was "a common side effect of cancer
5 is deafness", and the point that they were getting at is
6 that, you know, you tell people bad news, you might even
7 tell them in detail, and then they will deny it later
8 and that denial may be entirely sincere but, you know,
9 they don't take it in.

10 So doctors know that it's important often to go over
11 things on several separate occasions because they may
12 not be remembered and particularly, you know, if you
13 tell them, "You have got a bit of a biochemical
14 curiosity and it's nothing to worry about," well, they
15 might go away and not worry about it and quietly forget
16 about it and then they read about AIDS and this is
17 considerably more worrying because here is a condition
18 that's actually presenting with death.

19 Q. But we have heard about this phenomenon before from
20 various witnesses in the context of bad news. The
21 reason I was asking you is because this would seem to be
22 not necessarily that bad news, you would be saying to
23 the patient, "I think you have got a condition but don't
24 worry, it's not a serious one." So it's not really bad
25 news, is it?

1 A. Well, no, it's not particularly bad news. But it's not
2 particularly bad news 35/40 years ago. So with the best
3 will in the world, it's a long time in which to forget
4 about it and then the next time you hear about it, it
5 possibly is more significant and, you know, whilst there
6 was no treatment and it was thought not to be
7 a progressive condition, I doubt that the doctors
8 brought it up every single time they saw their patients,
9 whereas these days, you know, every time I see the
10 patients, I tell them what their liver function tests
11 are, we talk about when they are going to have their
12 next ultrasound. There are still some that after years
13 and many discussions, I'm trying to persuade to accept
14 treatment.

15 MR GARDINER: Yes.

16 Sir, I'm about to move on to another topic. Perhaps
17 that would be a good time for a break.

18 THE CHAIRMAN: Yes.

19 (3.09 pm)

20 (Short break)

21 (3.25 pm)

22 THE CHAIRMAN: Yes, Mr Gardiner?

23 MR GARDINER: Thank you, sir.

24 Professor, before the break we were at paragraph 54
25 of your report. I think over the next few paragraphs

1 you talk about AIDS and how the principal concern of
2 haemophilia treaters and of patients was AIDS in the
3 early 1980s and how that overshadowed the question of
4 hepatitis. Could you just talk to us a little bit about
5 that?

6 A. Well, AIDS became apparent in about 1980 and of course
7 it presented with an outbreak of homosexuals dying from
8 PCP. So, you know, the presentation itself was fairly
9 dramatic and so it was associated with death from the
10 very beginning, and for several years nobody knew the
11 cause.

12 Quite early on some patients with haemophilia died.
13 There were a few patients that had very rapid
14 progressive disease. It's now recognised that they had
15 a certain immune genotype that was associated with very
16 rapid progression but there was one patient, I think, in
17 Bristol who was documented to die within three months of
18 infection, and there were one or two deaths from acute
19 HIV and so, you know, even before the test came along,
20 when we didn't know how many patients were infected, the
21 whole thing was invested with considerable dread.

22 Then, of course, in the mid 80s we got a test. So
23 all the patients were tested, 50 per cent of the UK
24 cohort of patients with severe haemophilia turned out to
25 be infected, and there was considerable doubt about the

1 natural history of the disease.

2 So patients were hungry for information and in fact,
3 in those centres where the managing clinicians were very
4 conscientious about keeping them up-to-date, they were
5 told a whole lot of stuff that was fervently believed at
6 the time but which turned out to be probably incorrect.

7 I can remember patients being told that if they
8 hadn't developed full-blown AIDS within two years, they
9 wouldn't, and the following year it was three years and
10 the year after that it was four years, and it gradually
11 dawned on people that, you know, you could have this for
12 quite a long time before you developed a clinical
13 problem and you couldn't reassure anybody with HIV that
14 they wouldn't die from the disease, and of course there
15 was no treatment.

16 THE CHAIRMAN: Dr Hay, can I just be clear, when you say
17 "50 per cent of the UK cohort", in this context is it
18 the UK cohort as a whole?

19 A. I was talking about the UK cohort. I think the
20 percentage in Scotland is lower.

21 THE CHAIRMAN: So if one takes account of regional
22 variations, there are patchy areas where the
23 concentration is much higher?

24 A. Absolutely right, yes.

25 THE CHAIRMAN: Sorry for doing that but I think, as you

1 know, "UK" is a flexible term.

2 A. Absolutely and even within England, there were big
3 variations from one centre to another.

4 I mean, that's its background. So on the one hand
5 you might be talking to a patient about this non-A non-B
6 thing that is really nothing to worry about and on the
7 other hand talking to them about HIV, which is
8 potentially life-threatening and might kill them all,
9 and in fact did result in the death of two thirds of
10 them before effective treatment emerged.

11 MR GARDINER: Yes.

12 A. And the point I was making in these paragraphs is that
13 some of these conversations were going on concomitantly
14 and will have contributed to people not really
15 remembering a great deal about what was said about the
16 Hepatitis C, because frankly it was a very subsidiary
17 part of the conversation.

18 Q. Is that because the patient's focus was so clearly --

19 A. Both the patient's and the doctor's.

20 Q. Yes. So clearly on AIDS?

21 A. Yes.

22 Q. Thank you. And I see that you say in paragraph 54 that
23 you have experience of patients who commonly deny that
24 they have been counselled about Hepatitis C even when
25 such counselling has been documented in the notes?

1 A. Yes.

2 Q. Is that counselling that went on at this time?

3 A. Yes.

4 Q. Yes. Thank you. At paragraph 55 and 57 you refer to
5 guidance from the UKHCDO reference centres, which also
6 shows, you say, the focus on AIDS at that point?

7 A. Very much so, because following that guidance would have
8 had no impact on Hepatitis C.

9 Q. Yes. If we could just go to paragraph 59 now. I think
10 in this paragraph you are also again stressing how
11 HIV/AIDS overshadowed the question of hepatitis and you
12 make the point that clinical consultations in clinic
13 visits increased fivefold during this period?

14 A. Yes.

15 Q. Which period are you talking about here, Dr Hay?

16 A. I'm talking about the period, I would guess, 80 through
17 to 86/87. A lot of additional staff were employed in
18 haemophilia centres, the frequency of consultations
19 increased enormously.

20 Q. So this phenomenon of patients not remembering because
21 AIDS is overshadowing things, that's different from
22 patients not remembering because they are being given
23 bad news. It's a different phenomenon. Is that right?

24 A. Not entirely because, you know, in the course of
25 a consultation you would discuss a number of things.

1 You would discuss their haemophilia, how often they were
2 bleeding, where they were bleeding, all that sort of
3 thing. You might talk about their hepatitis and their
4 HIV, all in the same consultation.

5 Q. Yes.

6 A. You know, if they were infected with HIV, that would be
7 the main focus of their interest because this would be
8 the issue of most immediate importance. Hepatitis C,
9 for most of these patients, was not going to kill them
10 at that point.

11 Q. Of course.

12 A. Whereas they would feel that there was an imminent
13 danger of death with HIV.

14 Q. Of course. So at paragraph 60, if we could just go over
15 the page, you list what most affected patients will have
16 been told, and am I right in thinking that this is
17 essentially the same as what they would have been told
18 in the period that we looked at before, late 70s to
19 early 1980s?

20 A. No, it isn't.

21 Q. Except, I was going to say, there is the mention of
22 20 per cent perhaps developing cirrhosis. Is that the
23 main difference?

24 A. That's the main difference. But also that the condition
25 could be slowly progressive.

1 Q. Yes.

2 PROFESSOR JAMES: Can I just add: do you think that the fact
3 that the disease changed its name -- very
4 inconsiderately for the patients. So you were talking
5 to them about non-A non-B and then in 1992 suddenly
6 there is a discussion, particularly in view of the fact
7 that you now had a test, of this Hep C, and one's
8 impression is that some of the patients actually thought
9 of them as two different illnesses.

10 A. I think that may be the case for some patients,
11 certainly. Hepatitis C is a far more definite entity.

12 PROFESSOR JAMES: Despite the best efforts of the clinicians
13 looking after them, but that might have contributed to
14 the sort of "denying" that they had ever been told about
15 this illness before.

16 A. Yes.

17 MR GARDINER: Thank you. Yes, so the difference is that
18 cirrhosis is mentioned and that this is a disease that's
19 slowly progressive.

20 A. Yes, or could be slowly progressive.

21 Q. Or could be. The previous period, you characterised the
22 advice as "reassuring"?

23 A. Yes.

24 Q. How would you characterise this?

25 A. Relatively reassuring.

1 Q. Right.

2 A. Because at that time we had evidence that a minority had
3 progressive disease but, you know, we found 15 per cent
4 in our liver biopsy series, but obviously, if you find
5 15 per cent at that stage, clearly the percentage could
6 climb with the passage of time. So there would be some
7 uncertainty surrounding that figure. So, you know, we
8 might have quoted a 20 per cent risk. I think by that
9 stage it was clear that if it did progress, it would
10 usually do so slowly.

11 Q. Yes.

12 A. So I think patients would find that relatively
13 reassuring. And hepatologists would probably
14 characterise it as a condition with a good prognosis.

15 Q. Yes. Okay. And you say:

16 "These conversations would have been short and not
17 very memorable. The condition was usually asymptomatic
18 and that if progressive, it was likely to be only slowly
19 so."

20 Why do you say that they were not very memorable?

21 A. I'm just basing that on the number of patients that
22 can't remember it, plus, you know, it's not as
23 reassuring a message as they might have got earlier but
24 I think patients would have taken it as relatively
25 reassuring. They would have been made aware that there

1 was a risk of serious liver disease, which they might
2 not have been aware of before, but probably left with
3 the impression that chances were they would not get it.
4 If you play the statistics.

5 Q. Yes. And h:

6 "... minimise alcohol intake."

7 So there is no change there in the advice. What
8 about the possibility of sexual transmission? Is that
9 something that's discussed at this point?

10 A. We still didn't have a test. Very few of the wives had
11 been tested. I don't think very much was known about
12 sexual transmission. This becomes more obvious later,
13 when you have the test.

14 Q. Yes. But I see that you say in the second half of
15 paragraph 60:

16 "... condoms were not required."

17 So you wouldn't be advising patients to use
18 barrier --

19 A. Unless they had HIV.

20 Q. Thank you.

21 A. In which case we actually gave them condoms.

22 Q. Yes.

23 A. Something I never thought I would do when I went into
24 thrombosis and haemostasis.

25 Q. After this period, the mid 1980s, was there a period or

1 did there come a time when the advice to patients
2 changed?

3 A. Until we had a test, I don't think it changed very much.

4 Q. Yes. What was the advice at that point?

5 A. When we had a test, it became apparent that there was
6 a small risk of spouses being affected and we would
7 offer to test the spouse.

8 Q. Yes.

9 A. And by that stage, I think by the early 1990s, we would
10 probably have increased our estimate of the risk of
11 serious liver disease.

12 Q. Right.

13 A. Because certainly by the mid-90s, we were seeing more
14 patients with serious liver disease presenting.

15 Q. Yes.

16 A. And by that stage it was also clear that co-infection
17 with HIV was a major co-factor for liver disease
18 progression. So in the mid-90s three quarters of the
19 patients who died from liver disease were co-infected
20 with HIV.

21 Q. Yes.

22 A. Most of those patients had full-blown AIDS at the time
23 of death. So paradoxically, the statistics suggest that
24 the liver disease didn't worsen their prognosis, but
25 that's just a mathematical thing. It's like saying, if

1 they hadn't died from liver disease, they would have
2 died from HIV soon after, and in fact there was a peak
3 of liver deaths around that time because once we had an
4 effective treatment for HIV, the immune system improved
5 and progression of Hepatitis C was less of a problem.

6 Q. Yes.

7 A. Plus we were treating them with interferon.

8 Q. I think if we jump forward to paragraph 68, which is at
9 page 28, you see that's 68f, those are the things you
10 have just told us from the early 1990s, and by this
11 stage you are also mentioning the small risk of liver
12 cancer as well because that link has been established?

13 A. Established, yes.

14 Q. Thank you. If we just look at the paragraph before
15 that, in 1995/1996 interferon started to be used to
16 treat chronic Hepatitis C and you had started to discuss
17 that with the patients as well. So there is a treatment
18 option at that point as well?

19 A. Okay.

20 Q. Okay. I would like to have a look at the section of
21 your report which deals with your practice as far as
22 testing and information was concerned, and that starts
23 at paragraph 63.

24 Just to let you know, Dr Hay, I will be taking you
25 to Professor Nathanson's report and then after that your

1 commentary on her report, but this is the bit of your
2 first report that deals with your practice, I think. So
3 that's paragraph 63, 64 and 65. Can I just ask you to
4 explain to us what your practice was?

5 A. Well, if I was testing for Hepatitis C, I would tell the
6 patient that I was going to conduct the test. I would
7 take the opportunity to talk to them again about
8 Hepatitis C. I would have expected that conversation
9 would already have taken place about liver disease.
10 I would not take written consent for the test. Of
11 course, when you tell a patient that you are going to do
12 a test, they have the opportunity to refuse and although
13 I can't remember anybody ever refusing a Hepatitis C
14 test, certainly I have come across relatives refusing
15 and people refusing to have HIV tests. Anyway the
16 opportunity is there.

17 I would discuss the implications of the result, were
18 it to be positive. If the patient had chronic liver
19 function tests that were abnormal, I would lead them to
20 expect a positive result, you know, based on their
21 treatment history, you would have an idea of what the
22 result was likely to be when patients were tested for
23 the first time. We still have patients who have been
24 lost to follow-up for a very long time, who are coming
25 out of the woodwork, who are being tested for the very

1 first time, even now.

2 Q. Yes.

3 A. Some of them have only been exposed to a few units of
4 plasma but nevertheless, given the risk, they need to be
5 tested.

6 Q. Yes.

7 A. Back then I would tell them I was doing the test and
8 then they would have the test and then I would see them
9 face-to-face to talk about the result.

10 Q. Yes. I assume that you have, with other patients,
11 provided HIV-style pre-test counselling?

12 A. Yes.

13 Q. And so what you have just described for Hepatitis C
14 pre-test discussions, how would that differ from
15 HIV-type counselling?

16 A. Well, the implications are quite different and so the
17 conversation would have been very different. There are
18 and have, from a very early stage, after the test became
19 available, been national guidelines. This is the
20 current one from 2008.

21 That is a much longer and involved conversation and
22 they may wish to go away and think about it before
23 coming to have a test.

24 You would give them lengthy counselling back at that
25 time because, you know, a positive HIV test in the early

1 80s and 90s would have been regarded as potentially
2 a death sentence. There were implications that you had
3 to describe to them, to do with employment and
4 insurance. They became virtually uninsurable. They
5 found great difficulty getting a mortgage and you had to
6 describe and consider all of those things. And there
7 was no effective treatment until really, effectively,
8 the mid-1990s when highly active antiretroviral therapy
9 came along.

10 So HIV is almost unique in having such a formal
11 lengthy counselling process before you actually do
12 a test.

13 Q. How long would you take typically to counsel a patient
14 in those circumstances?

15 A. Well, in those days extremely variable. Maybe as little
16 as 20 minutes, perhaps as long as an hour.

17 Q. Yes.

18 A. To be honest with you, what I have just described to you
19 in terms of what I would have done for Hepatitis C goes
20 way beyond what a hepatologist would have done both then
21 and now.

22 Q. Yes. Before we get on to that, would you be able to
23 estimate how long it would take to discuss the HCV test
24 with a patient?

25 A. In a patient who is thought to have non-A non-B

1 Hepatitis, it would not take very long at all, five
2 minutes perhaps, unless they had lots of questions.

3 Q. Yes.

4 A. Even now, most of the discussion is often about the side
5 effects of treatment, the relative merits of treatment,
6 that sort of thing, which you wouldn't have been
7 discussing before we were using interferon in the mid
8 90s.

9 Q. Yes.

10 A. I actually think that in general, when it came to
11 Hepatitis C testing, haemophilia doctors probably talked
12 more about the test than hepatologists, partly because
13 of their prior experience with HIV.

14 Q. Yes.

15 A. And I think also that may have been an expectation in
16 the patient group, which was higher than that in the
17 general population for the same reason.

18 Q. Yes.

19 A. And when patients are critical of the extent of the
20 discussion surrounding Hepatitis C, they are seeking to
21 draw a parallel with HIV counselling, which I don't
22 think exists because there was never any national
23 guidance on taking consent for Hepatitis C testing.

24 Q. Yes. Could I just ask you, Dr Hay, just to try to
25 understand the process for a Hepatitis C test, I mean,

1 I appreciate that every patient is different and I don't
2 want to, you know, try to reduce what the doctor is
3 doing but is the question "I am going to test you for
4 Hepatitis C" or is the question "I would like to test
5 you for Hepatitis C"?

6 A. I think it would depend on the doctor. I think
7 hepatologists would be thinking, "I'm going to test you
8 for Hepatitis C," and they may actually just say, "I'm
9 going to test you for hepatitis viruses and various
10 other things, to find out why your liver function test
11 is abnormal".

12 Q. And a haemophilia clinician?

13 A. Because of our experience with HIV, I think we would
14 normally say "I think we should do a test for
15 Hepatitis C", and in the case of someone already known
16 to have liver disease, to tell them that that is
17 probably the cause.

18 Q. The way you put it there was, "I think we should do
19 a test". So that sounds like asking the patient for
20 their agreement. Is that right?

21 A. I suppose so.

22 Q. I'm trying to draw the distinction between that and
23 a doctor saying, "I am going to test you for this". Do
24 you see the distinction, Dr Hay?

25 A. I do. I think some doctors would have said one thing

1 and some the other. I don't think I can generalise.

2 Q. What do you think would have been appropriate at that
3 time?

4 A. I think we were obliged to test everyone for
5 Hepatitis C. I think that if we had not tested
6 patients, then we would have been subjected to
7 criticism. I think it's nice to ask the patient but, to
8 be honest, if they had said "no", then there would have
9 had to have been a conversation around that and my
10 experience was that this was never a difficulty, to be
11 honest.

12 Q. Yes.

13 A. But, you know, some of my colleagues may well have
14 tested, you know, without actually mentioning what the
15 test was.

16 Q. Yes, but you wouldn't consider that appropriate?

17 A. Well, it wasn't my practice.

18 Q. Yes.

19 In paragraph 64 -- I think you have touched on this
20 already -- you say:

21 "The idea that a Hepatitis C test should engender
22 prolonged pre-test counselling derives from the practice
23 adopted after 1985 by most centres of counselling prior
24 to HIV testing."

25 You say:

1 "There is no comparison between this and Hepatitis C
2 testing."

3 I think your conclusion there is that HIV-style
4 counselling is not appropriate. Is that right?

5 A. Yes.

6 Q. Before I pass to Professor Nathanson's reports, is there
7 anything else you would like to say about your practice
8 and your opinions about this point?

9 A. I think there would have been a range of practice, and
10 you have to bear in mind that, you know, I have had an
11 interest in hepatitis for a long time. I think that in
12 many places the patients would have been tested without
13 it being specifically discussed. You showed me a minute
14 from UKHCDO earlier in the day, in which this very point
15 was discussed and opinion was expressed that it was just
16 another liver function test.

17 Q. Yes.

18 A. And there was obviously a dichotomy of opinion then
19 about whether you needed to discuss it or to take
20 consent.

21 Q. Yes.

22 A. You know, in my practice I was approaching it from
23 a background of already having discussed the patient's
24 liver function tests with them in advance and this is
25 a confirmatory test. That doesn't require a prolonged

1 discussion but, you know, it is a matter of interest.
2 So at the very least it should be mentioned, but I think
3 some other people would have just done the test and that
4 is universal clinical practice amongst hepatologists
5 even today.

6 Q. Yes. Just for our records, I think you are referring
7 there to minutes of the 19th meeting of the AIDS group
8 of haemophilia centre directors on 12 February 1990,
9 when it's recorded that Professor Bloom made a comment
10 that he didn't see why permission was needed to be asked
11 for Hepatitis C tests, as this was just another LFT. In
12 our database that is [\[LOT0034450\]](#) but that's what you
13 are referring to, is it?

14 A. Yes, it is.

15 Q. Okay. Let's have a look at Professor Nathanson's
16 supplementary statement. Which is [\[PEN0180419\]](#).

17 You have seen this supplementary statement, haven't
18 you, Dr Hay?

19 A. I have.

20 Q. The question that I would like to have a look at is the
21 one half way down the first page:

22 "What is the current approach to testing for HCV?
23 In particular what information should a clinician
24 provide to his/her patients about the disease and the
25 implications of a positive diagnosis? What is the

1 current GMC/BMA guidance on this point?"

2 You will remember that Professor Nathanson refers to
3 the GMC's booklet on Good Medical Practice and she has
4 highlighted a paragraph that states:

5 "A doctor uses specialist knowledge, experience and
6 clinical judgment, and the patient's views and
7 understanding of their condition, to identify which
8 investigations or treatments are likely to result in
9 overall benefit for the patient. The doctor explains
10 the options to the patient, setting out the potential
11 intention, risks ..."

12 I'm reading this short because we have already
13 looked at this today and you have looked at it. If we
14 could go over the page, Professor Nathanson, at the top
15 of the page, writes:

16 "Today doctors are expected to offer the patient all
17 of the elements of information identified in this
18 guidance. It is essential that it is understood that
19 the information is offered; no patient can or should be
20 forced to listen to the full set of information."

21 Then just jumping down to the fourth paragraph:

22 "What matters is the offering being made, and the
23 doctor being sensitive to what the patient wants to
24 know."

25 And so on. I don't want to take up more time with

1 that because you have read it and we have seen it
2 recently, but broadly speaking, you wouldn't disagree
3 with those sentiments?

4 A. Roughly speaking, no.

5 Q. No. We will come to your commentary on
6 Professor Nathanson's report but if we could move to
7 page 0421, question 2:

8 "What was the correct approach to testing for HCV
9 between 1991 and 2000?"

10 Professor Nathanson starts by referring to the BMA
11 publication "Philosophy and practice ..." which says:

12 "The basis for any discussion about consent is that
13 the patient gives consent before any investigation and
14 treatment proposed by the doctor."

15 She then refers to "HIV infection and AIDS: the
16 ethical considerations", where, again, there is
17 a reference to consent, and then the third publication
18 that she relies on is the GMC advice "Serious
19 communicable diseases", dated October 1997. You have
20 had a chance to look at all of these. Is that right?

21 A. Yes.

22 Q. She refers to paragraph 4, which says:

23 "Some conditions, such as HIV, have serious social
24 and financial, as well as medical, implications. In
25 such cases you must make sure that the patient is given

1 appropriate information about the implications of the
2 test, and appropriate time to consider and discuss
3 them."

4 If we could just go over the page, this is at the
5 top, Professor Nathanson's opinion, where she says:

6 "It is clear and explicit that in 1997 the GMC
7 required doctors seeking consent to have regard to the
8 implications of the test result. This is more explicit
9 than the earlier advice on testing for HIV, but is in
10 accordance with it. While the advice relates to HIV, it
11 is important to note that it identifies 'some conditions
12 such as HIV' and is not, therefore, limited only to
13 testing for HIV."

14 She talks about the nine years of testing on HIV and
15 that the GMC was reflecting best practice here.

16 Before asking for your specific comment on
17 Professor Nathanson's opinion, would you agree with me,
18 Dr Hay, that Professor Nathanson does seem to be
19 advocating there an HIV-style of counselling before
20 a Hepatitis C test?

21 A. I agree.

22 Q. Yes. So I think we should now go to your revised
23 commentary on her report, which is [\[PEN0181360\]](#).

24 THE CHAIRMAN: It doesn't have a reference on our prints of
25 it.

1 MR GARDINER: Yes. It had one when it was put out to you,
2 sir. It has got one now.
3 Sorry, it's 1349.
4 THE CHAIRMAN: And before that?
5 MR GARDINER: [\[PEN0181349\]](#).
6 Dr Hay, you kindly prepared a report in response to
7 Professor Nathanson's supplementary statement and then
8 you revised it and so I think this version is almost
9 exactly the same --
10 A. Well, in fact let me be clear here. You say I have
11 revised it. I haven't actually amended any of the bit
12 that you got before. What I have done is to add some
13 further comments at the end which relate to her first
14 report, which I did not have. So my reports on her
15 supplementary comments haven't changed at all.
16 Q. Yes. That's very helpful.
17 So if we look at paragraph 2, you say:
18 "When preparing in report, I had access to
19 photocopies of the following documents."
20 At (a) you say but not her original statement but
21 actually, I think by this stage you had seen her
22 original.
23 A. Yes.
24 Q. Thank you. You also mention at paragraph (c) that you
25 discussed these issues with the head of your hospital's

1 ...?

2 A. Yes, our hospital's sexual health department with whom

3 I do a joint clinic.

4 Q. I think what I'll do, Dr Hay, is I'll just let you

5 answer in your own way your comments to

6 Professor Nathanson's reports.

7 A. Okay. I mean, Professor Nathanson has approached the

8 questions put to her from a general medical ethics

9 perspective, and she has supported her conclusions in

10 this supplementary commentary, which I presume she was

11 asked because her first report makes no reference to

12 Hepatitis C.

13 Q. Yes.

14 A. And seems exclusively concerned with HIV. But she has

15 supported her comments with full references and

16 Hepatitis C is mentioned in only one of these and in

17 that reference only once in seven pages, and I would

18 suggest that those references really are far more

19 relevant to HIV and by virtue of not really providing

20 any specific guidance to Hepatitis C, I think it's

21 doubtful that they can be taken to support her

22 suggestion that counselling for Hepatitis C should be

23 provided in exactly the same way as for HIV.

24 Q. Yes.

25 A. And in fact, since that time, even counselling for HIV

1 has been downgraded somewhat.

2 She acknowledges that her report to consent for
3 testing would be tempered by knowledge of the condition
4 at the time and I have tried in my report to point out
5 that the sort of things that you would say to the
6 patient will vary as knowledge developed and as one's
7 perception of the disease changed, because, you know, as
8 it becomes apparent that Hepatitis C is not infrequently
9 progressive, it would adopt a higher profile in one's
10 conversations with one's patients.

11 But she doesn't offer any specific opinion on the
12 way in which the changing state of knowledge would have
13 affected consent at specific times.

14 She acknowledges that the GMC 1997 guidance reflects
15 best practice but doesn't offer any evidence of the
16 extent to which this guidance has ever been applied to
17 consent for Hepatitis C testing, a point which I make,
18 because I would suggest to you that it has never been
19 adopted in relation to Hepatitis C testing.

20 Q. Yes. Could I just stop you there? What do you
21 understand by "best practice" when that term is used in
22 this context?

23 A. I think it's the practice to which one should aspire.

24 Q. Thank you.

25 A. The GMC serious communicable diseases guidance mentions

1 a range of diseases that they would recognise as serious
2 communicable diseases. They include TB, Hepatitis B,
3 HIV and Hepatitis C but, to be frank, I think their
4 inclusion of Hepatitis C is rather dubious. I discussed
5 this specific point with my hepatological colleagues and
6 they looked askance at this because we recognise that
7 the infectivity of Hepatitis C is at least an order of
8 magnitude less than either HIV or Hepatitis B. It's not
9 a very infectious virus. So to talk about it as
10 a communicable disease in the same breath as these other
11 things, you know, both sexually and in other ways --
12 it's not so readily transmitted.

13 Although we are all aware that patients can and have
14 died from Hepatitis C, in general terms the prognosis is
15 relatively good. Patients can live with Hepatitis C for
16 many decades, without it causing them problems and when
17 it does cause problems, it's usually slowly progressive.

18 And it's treatable, depending on the genotype. Some
19 genotypes have between 80 and 100 per cent response to
20 peg interferon and ribavirin and with new developments
21 in the treatment of genotype 1a and 1b, the response
22 rate for that genotype is also improving considerably.
23 I don't think it's fair to compare the two and to lump
24 them all together, and in fact if you look and read
25 through the GMC serious communicable diseases guidance,

1 all the specific advice offered in that document is
2 specific to HIV.

3 Okay, then we come to the issue of you must obtain
4 consent from patients before testing for serious
5 communicable diseases, except in the rare circumstances
6 described in various paragraphs, which relate to
7 vulnerable adults, children and unconscious patients.
8 I think that guidance reflects normal rather than good
9 practice for HIV.

10 Q. I have asked you about best practice and here you are
11 mentioning "normal practice" and "good practice"?

12 A. Yes.

13 Q. Is there a difference between "good practice" and "best
14 practice"?

15 A. What I would describe as "normal practice" is what
16 happens invariably rather than practice to which one
17 would aspire.

18 Q. Yes. So good practice is the same as best practice
19 there?

20 A. Almost uniquely for HIV. I mean, there are so many
21 guidelines about testing and counselling that some form
22 of counselling, albeit relatively perfunctory, now
23 always takes place. I have been HIV-tested twice. The
24 damned insurance companies insisted on it. My GP tells
25 me that 50 per cent of people that live in my area have

1 had an HIV test, just because it's an area where houses
2 cost a lot of money. I can tell you from personal
3 experience that the counselling can be fairly
4 perfunctory.

5 Q. But it's true to say that with the change in prognosis
6 with HIV, the need for counselling has reduced. Is that
7 not right?

8 A. Yes, absolutely, absolutely. And I think it's now
9 common practice that you are given a leaflet, given some
10 time to read it, asked if you have any questions and
11 asked if you consent to the test.

12 Q. Yes.

13 A. Rather than a prolonged conversation. That reflects the
14 fact that the vast majority of people with HIV now live
15 normal healthy lives and respond well to treatment.

16 Q. Yes.

17 A. Which is a very different story from before 1995.

18 Q. Yes.

19 A. So, you know, I don't have very much problem with what
20 she says about HIV but the situation with Hepatitis C is
21 very different and she says in her report at one
22 point -- an almost throwaway line, where she says "and
23 of course it would be the same for Hepatitis C" full
24 stop. That's about it. And frankly I would disagree
25 with that, violently.

1 Q. And I think at paragraph 9 you explain why you say that
2 the situation for Hepatitis C was different in a number
3 of respects.

4 A. Well, for a lot of the patients the test was in effect
5 a confirmatory test, and at the time it was done,
6 I think the prognosis was considered -- and still is
7 considered -- relatively good.

8 Q. Yes.

9 A. That is not to say that patients with Hepatitis C don't
10 develop serious liver disease because they obviously do.
11 I'm making a relative statement and it should be
12 recognised as such.

13 Q. Yes.

14 A. At that time, of course, you had patients dying from HIV
15 also. So there is no comparison between the two.

16 Q. Yes.

17 A. The year before HAART came out, 15 per cent of the
18 entire cohort died within 12 months. So to compare the
19 two conditions is, to be honest, a bit fatuous.

20 Q. I think at paragraph 12 you tell us about the practice
21 of liver specialists and perhaps you could talk a little
22 bit about that.

23 A. Well, if faced with somebody with abnormal liver
24 function tests, I think the majority of them would just
25 test for it. They would discuss the tests very briefly.

1 The way my own hepatologist explained it to me was as he
2 explained it to one of the nephrologists, who had raised
3 the same question with him. He said to the
4 nephrologist, "Well, do you take consent to do someone's
5 electrolytes," and of course you don't. But the
6 prognosis of somebody with an elevated creatinine and
7 renal failure is considerably worse than the prognosis
8 of somebody with Hepatitis C.

9 Similarly, you could say: should you take consent to
10 do a full blood count, and what would you tell the
11 patient? Because the full blood count could be normal,
12 it could show iron deficiency, it could show acute
13 myeloid leukaemia. When one of our patients comes for
14 a consultation, that consultation generally generates in
15 excess of 20 tests. If we took specific consent for all
16 of them, we would spend all afternoon doing that.

17 Q. Yes. I wonder if there might be a difference between
18 a general test and a specific test for a particular --
19 well, in this case, virus?

20 A. That's a good question. But I think it's a grey area
21 because a general test can show up a life-threatening
22 illness, just as a specific test can. And actually,
23 when you are testing for Hepatitis C, you are testing
24 for something that has generally a good prognosis,
25 a much better prognosis than ischaemic heart disease or

1 cancer or renal failure, so why pick out Hepatitis C?

2 Q. I'm suggesting this to you: I wonder if the answer to
3 that is that, depending on the result of the test, in
4 some situations you go from being a well person to being
5 an unwell person. You become a patient if you have
6 a positive diagnosis, whereas in the case of being
7 referred to a liver specialist, you are probably being
8 referred because you are already unwell?

9 A. Not necessarily. A large proportion of the population
10 have liver function tests done regularly. If you are on
11 statins, which half the population are, and a whole
12 range of other drugs, you have your liver function tests
13 done regularly and then if it shows something up, you
14 may get referred.

15 So you may be perfectly well and you may feel well,
16 most patients with Hepatitis C are asymptomatic. You
17 know? They will not necessarily know that they are
18 infected. Liver function tests are being done a lot.

19 Q. The point that you are referred to your liver
20 specialist, though, is the point at which it is
21 suspected at least that you are ill?

22 A. Well, it's suspected -- well, it's shown that you have
23 abnormal liver function tests. The significance of
24 which is uncertain. One of the commonest causes of
25 abnormal liver function tests is obesity. Would you

1 describe that person as ill?

2 Q. Ill or may be ill?

3 A. Ill or may be ill. That's right.

4 Q. I'm suggesting a distinction.

5 A. You see, the problem is you have the same problem with
6 every test, every test you do, if it's abnormal.

7 Q. Yes. With haemophilia clinicians I would suggest to you
8 that the situation is different because the patient
9 isn't necessarily unwell before the test, if you follow
10 me?

11 A. They are not any iller after the test.

12 Q. If they get a positive diagnosis, then they become
13 a patient, don't they?

14 A. Well, you have identified a potentially treatable
15 condition, which is the reason for doing the test.

16 Q. Would you accept, Dr Hay, that obtaining informed
17 consent from a patient that, for a liver specialist, is
18 maybe something that does not require as extended
19 discussion as with a haemophilia clinician?

20 A. I can't see the distinction. Both clinicians are
21 testing for the same condition. The implications of the
22 test are the same.

23 Q. Perhaps we could just have a look at paragraph 13 of
24 your commentary. Again, you are talking about your
25 invariable practice, which was to discuss the condition

1 prior to testing. I think that you yourself are drawing
2 a distinction between your own practice and the practice
3 that you have noticed in --

4 A. Yes.

5 Q. What's your explanation for that?

6 A. Well, to be honest, I think I have been influenced by my
7 experience with HIV, which is an experience that
8 hepatologists have generally not had, although our
9 hepatologist also does a joint clinic with the STD
10 doctors and sees patients who are co-infected.

11 Q. Yes. Are you doing it the right way or is he doing it
12 the right way?

13 A. I think that I'm doing it the better way. But I find
14 the difference interesting and I don't think that there
15 is any guidance as to what one should do out there.

16 Q. You are doing it a better way because it's closer to
17 best practice?

18 A. Yes, I think so. And to be honest with you, I think
19 that patients with haemophilia also have higher
20 expectations, as a very broad generalisation, of the
21 health service than many other patient groups. This is
22 a recurring problem because they are often disappointed
23 by their experiences of other sectors; because we have
24 to offer them a drop-in service, we see them very
25 regularly. You know, by the nature of their condition

1 we have to provide them with that service.

2 Q. Yes.

3 A. And unfortunately you do not get that sort of level of
4 service from other parts of the NHS.

5 Q. Yes. Just reading on in your report, the commentary,
6 rather, paragraph 16, you say that you would generally
7 agree with most of Professor Nathanson's first report,
8 as far as it goes:

9 "Her history of the development of consent for HIV
10 testing appears accurate to me."

11 If we could just go over the page. You talk about
12 the guidelines issued over the years to cover HIV
13 testing. I think you have already mentioned that. In
14 paragraph 17 --

15 THE CHAIRMAN: Before you ask that, can I ask how we are
16 getting on in time because I understand you have to
17 catch a plane.

18 A. Fairly soon, yes.

19 THE CHAIRMAN: And there may be questions from others. I'm
20 not quite sure how we are going to manage it,
21 Mr Gardiner.

22 MR GARDINER: I'm aiming for 4.30 and I understand that
23 Mr Anderson has a couple of questions but apart from
24 that ...

25 MR DI ROLLO: I may have one or two.

1 MR GARDINER: Right, okay.

2 THE CHAIRMAN: And we also have to have regard to the
3 stenographer's capacity for --

4 MR GARDINER: I'm nearly finished.

5 THE CHAIRMAN: Perhaps you might just bear in mind what the
6 problems are. Is half past all right for you, doctor?

7 A. Yes.

8 MR GARDINER: Paragraph 17. You tell us about your
9 experience of haemophilia patients. Could you just
10 describe that very briefly?

11 A. Well, very few of my patients have refused to have
12 either a Hepatitis C or an HIV test. The situation with
13 spouses is a little bit more complex, particularly with
14 HIV. We would strongly recommend that spouses be tested
15 on a regular basis, quite apart from safe sex practice,
16 and we like to see the spouse come with the patient to
17 clinic.

18 We found that we got a far more reliable account of
19 the extent to which they were following safe sexual
20 practice from the wife than from the husband. And
21 sometimes we wondered whether the husband was
22 transmitting the advice to his wife that they should be
23 tested. As times has gone by, we are increasingly
24 persistent about that.

25 But some spouses refuse to be tested and I think

1 that that was tied up with the complex dynamics of their
2 relationship and the potential for the husband to feel
3 very guilty if he had transmitted the condition to his
4 wife.

5 Some of those wives subsequently were tested when
6 either their relationship broke down or their husband
7 died. That suggests to me that it was all tied up in
8 that way.

9 Q. Yes.

10 A. There are also issues around confidentiality. You know,
11 like other conditions, we would encourage patients to
12 discuss it with their relatives but we have to respect
13 their confidentiality. Very occasionally we had
14 problems with the patient not wishing us to inform the
15 GP. That is more unusual but it's normal practice
16 always to ask, and that's documented in the notes.

17 One example I could give you is a situation where
18 the patient lived next door to the doctor's receptionist
19 and even though his relationship with his neighbour was
20 perfectly good, he was understandably concerned about
21 confidentiality, and we were eventually able to
22 negotiate a compromise, whereby we sent the clinic
23 letters to the GP's home address and he kept the
24 patient's medical records at his home. Because we
25 prefer to tell the GP, because if the GP doesn't know,

1 the GP may think the patient has just got a cough, when
2 they have got pneumocystis pneumonia, or the GP may
3 needle stick himself and not realise that he has
4 potentially placed himself at risk. So if they refuse
5 to let the GP know, then we have to adopt their general
6 practice needs.

7 Q. Yes. Just moving quickly to paragraph 19, and you are
8 commenting again on Professor Nathanson's report, you
9 say that there are practical limitations to informed
10 consent and you list them over the page on page 8. You
11 say there is not enough time to consent for every test.
12 To get full consent would take two to three hours.

13 A. My suspicion is that Professor Nathanson isn't actually
14 suggesting that we take consent for every single test.
15 But that's not actually what she says.

16 Q. Yes.

17 A. But she doesn't really explore, okay, if you are not
18 going to take consent for every single thing that you
19 do, how are you going to choose which tests you take
20 consent for and which not?

21 You know, it seems obvious that if you are going to
22 do some surgery or you are going to do a test that is
23 unpleasant or hazardous in some way, that you would take
24 detailed consent for that. But when it comes to blood
25 tests, whilst not disputing anything about HIV, where do

1 you draw the line? Because every single blood test that
2 you do could potentially throw up a life changing
3 result. And it isn't normal to consent for every single
4 test.

5 Q. Yes.

6 A. You know? The arguments that you have raised for
7 Hepatitis C could be applied equally to an abnormal
8 blood count or abnormal biochemistry. So whilst it's my
9 practice always to ask about Hepatitis C, there is
10 a range of opinion and a very wide range of clinical
11 practice.

12 Q. Yes.

13 A. And consent may be implied. At the end of the day, you
14 can't force the patient to go and have a blood test.

15 Q. Yes.

16 A. And they have all the request forms in their hand.

17 Q. Yes. Thank you.

18 I think the next few paragraphs of your report
19 relate to the question of obtaining permission to carry
20 out research and we are not going to look at that today.
21 So I'm going to pass over to your last page, page 10,
22 where you list the differences between HIV and HCV
23 relevant to counselling. I think we have discussed
24 these already but you would say that these differences
25 suggest that where it was appropriate to have extended

1 counselling for HIV, it was not appropriate to do so for
2 HCV. Am I right in saying that?

3 A. Yes.

4 Q. Okay. Would you just bear with me a sec? (Pause)

5 Thank you very much, Dr Hay.

6 A. Thank you.

7 THE CHAIRMAN: Mr Di Rollo?

8 Questions by MR DI ROLLO

9 MR DI ROLLO: Can I ask you about the use of the word
10 "benign" in the mid 1980s? What would a doctor
11 understand by the use of the word "benign" in relation
12 to a disease?

13 A. One that was usually either non-progressive or slowly
14 progressive and which resulted in serious disease in the
15 minority of patients.

16 Q. Right. So it wouldn't be saying that it would never
17 result in a serious disease nor would it mean for
18 a doctor that it wouldn't be progressive in all cases as
19 well?

20 A. It would be applied, for example, to a range of
21 haematological malignancies, for example, like chronic
22 lymphatic leukaemia.

23 Q. What a layperson might understand by "benign" might be
24 different from that. He might have a different
25 understanding. But when you are using the word "benign"

1 in your report, you are using it as a doctor would
2 understand it?

3 A. Yes, I mean, it's a very relative statement and it does
4 not imply that it would never cause a problem.

5 Q. Of course, a patient hearing the word "benign" might not
6 understand it in that way.

7 A. I'm not sure I would use the word "benign" to a patient.

8 Q. Right. What word would you use to a patient?

9 A. I wouldn't use a word. I would describe the fact
10 that -- you know, I would have said what I said before.
11 That is that, you know, it may not progress at all, it's
12 only in the minority in whom it does and if it does
13 progress, it progresses slowly.

14 Q. All right. Can we just very, very briefly deal with
15 this apparent difference between you and Dr Nathanson in
16 relation to the distinction between HIV and HCV. If
17 I can just try and tease out something about that.
18 I think you refer to the classification of HIV and HCV
19 as "serious communicable diseases", and they are both
20 classified as such, is that right, by the GMC?

21 A. By the GMC.

22 Q. As I understand it, a serious communicable disease is
23 one which may be transmitted from human to human and may
24 result in death or serious illness. That is what is
25 described as a serious communicable disease?

1 A. Yes.

2 Q. It's fair to say under that definition, Hepatitis C does
3 qualify. It may be transferred from human to human and
4 it may result in serious illness and it may result in
5 death. That's correct, isn't it?

6 A. It is, but there is an order of magnitude difference
7 between the two.

8 Q. Obviously, the order of magnitude may vary from time to
9 time, depending on what treatment is available and
10 what's understood about the progression of the
11 disease --

12 A. No, I'm talking about an order of magnitude difference
13 in infectivity, which will not vary from time to time.

14 Q. It's fair to say also that with Hepatitis C there is
15 a stigma attached to it. If someone has Hepatitis C,
16 that disease carries with it a stigma, which perhaps
17 other diseases do not have. One of the reasons for that
18 perhaps is that Hepatitis C is something that drug
19 abusers frequently have. So Hepatitis C in society has
20 a stigma attached to it.

21 A. I'm not sure I entirely accept that. I think there is
22 far less understanding or awareness of Hepatitis C in
23 the general population than there is of HIV, about
24 which, of course, there have been major public health
25 advertising campaigns. I think there is unquestionably

1 a huge stigma associated with HIV, to the extent that
2 many patients started to keep their haemophilia secret
3 because people started to associate haemophilia and HIV
4 together and they were worried that they would lose
5 their jobs and things like that.

6 Q. This Inquiry has heard from a number of patients who
7 have Hepatitis C and they have given evidence, I think,
8 that they have felt, and continue to feel, stigmatised
9 by having Hepatitis C and are extremely anxious to keep
10 it very quiet that they have Hepatitis C. That would
11 tend to suggest that Hepatitis C does have a stigma
12 attached to it. Is that not right?

13 A. Well, if it does, it's not to the same degree.

14 Q. Is it your position that Hepatitis C does not have
15 a stigma attached to it? Is that your evidence?

16 A. If there is a stigma attached to it, it's less than HIV.

17 Q. It's also fair to say that Hepatitis C, if treatment is
18 provided, can be extremely unpleasant?

19 A. No question.

20 Q. And Hepatitis C may -- it doesn't always -- but it may
21 have significant consequences in terms of a person's
22 lifestyle and choices in the future.

23 A. If they develop serious liver disease, then certainly.
24 But if they don't have serious liver disease, most of
25 them are asymptomatic and have a normal quality of life.

1 Q. It may affect a patient's decision-making in terms of
2 how they go about forming relationships with members of
3 the opposite sex and the course of those relationships?

4 A. I have to say that whilst that is my experience with
5 HIV, it is not my experience with Hepatitis C. In
6 particular, the evidence is that sexual transmission is
7 less of a problem. But in fact, even with HIV, sexual
8 transmission, if you are on treatment, is much less of
9 a problem to the extent that the guidance on safe sex is
10 currently under review.

11 Q. If you are in a relationship with somebody and you have
12 Hepatitis C, you are going to have to tell them you have
13 got Hepatitis C and you are also going to have to tell
14 them that it is, potentially at least, a sexually
15 transmissible disease?

16 A. It is historically not as readily --

17 Q. You have to tell them that it's sexually transmissible,
18 never mind that the likelihood may be less but the
19 potential is there.

20 A. Well, yes, sure, the potential is there but they will be
21 told that -- you know, about 3 per cent of spouses
22 become infected. It's a relatively low proportion.

23 Q. Do you not think that a patient then with all of this
24 kind of information available to them, would want to
25 know whether or not they are going to be tested for

1 Hepatitis C; in other words, it is not unreasonable for
2 a patient to desire to know whether or not such a test
3 is being carried out upon them?

4 A. I think it's perfectly reasonable that they should know
5 it's being carried out. But bear in mind that when most
6 of these patients were first tested, way back in the
7 very early 90s, there was very little known about sexual
8 transmission. This was not anything we could offer them
9 any information on at that particular time. It's
10 something I would certainly discuss with them now. But,
11 you know, I have to say to you that most of the patients
12 who have got asymptomatic Hepatitis C, it does not make
13 a huge influence to their relationships and their plans
14 for life.

15 MR DI ROLLO: Sir, I don't have any other question, thank
16 you.

17 THE CHAIRMAN: Mr Anderson?

18 Questions by MR ANDERSON

19 MR ANDERSON: Two matters very quickly.

20 Dr Hay, good afternoon. The 1997 GMC advice
21 on serious communicable disease that Professor Nathanson
22 relies upon to some extent, my information was that that
23 was actually withdrawn by the GMC in November 2006. Is
24 that correct?

25 A. That's correct.

1 Q. Yes. The second matter is this: can you look with me,
2 please, at your original report, at page 5 of [\[PEN0181186\]](#)?
3 Look with me, please, at paragraph 6. This may seem
4 very pernicky but there is a reason for this. You see
5 in the last sentence there you say:
6 "All types of blood and blood products have
7 subsequently been shown to transmit Hepatitis C."
8 Do you see that?
9 A. Yes.
10 Q. Am I right in thinking that that's not perhaps quite
11 strictly accurate there, that albumin stable plasma
12 protein solution and immunoglobulin have not been shown
13 to transmit Hep C?
14 A. That's true.
15 Q. Are we to understand "blood products" in that sentence
16 as meaning Factor VIII and Factor IX concentrates?
17 A. Well, clotting factor concentrates.
18 Q. I'm obliged to you. Thank you, doctor.
19 A. Yes, and blood components.
20 THE CHAIRMAN: Do you feel you can sort of amend it on the
21 hoof or would you rather let us know what the amendment
22 ought to be?
23 A. No, I should change that to make it a little more
24 specific, so that it refers to clotting factor
25 concentrates and blood components.

1 THE CHAIRMAN: Is that clear enough for you?
2 MR ANDERSON: Yes, I think so. Doctor, thank you very much.
3 THE CHAIRMAN: Mr Johnston?
4 MR JOHNSTON: I have no questions, thank you.
5 THE CHAIRMAN: Dr Hay, thank you very much indeed.
6 A. Thank you.
7 MR GARDINER: That's it for today, sir.
8 THE CHAIRMAN: That's it for today.

9 (4.43 pm)

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

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I N D E X

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