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Thursday, 10 March 2011

(9.30 am)

THE CHAIRMAN: Good morning.

MS DUNLOP: Good morning. Today we continue our investigation of the deaths of four individuals and today's proceedings are devoted to looking at the circumstances of Mrs Eileen O'Hara.

My first witness today is Mrs O'Hara's daughter, Mrs Roseleen Kennedy.

MRS ROSELEEN KENNEDY (sworn)

Questions by MS DUNLOP

THE CHAIRMAN: If you find the proceedings distressing, just have a word with Margaret and we will accommodate you. You might not think they are going to be but sometimes it works that way, but we will try and look after you as best we can.

A. Thank you.

THE CHAIRMAN: Ms Dunlop?

MS DUNLOP: Mrs Kennedy, you have provided a statement to the Inquiry.

A. Yes.

Q. And it would be a good idea if we had that in front of us. Mrs Kennedy's statement has appeared very quickly on the screen. Can we see that that's your statement?

A. Yes.

1 THE CHAIRMAN: What is its number?

2 MS DUNLOP: [\[WIT0030420\]](#). Mrs Kennedy, back to your
3 statement. I just want to go through it and I'm not
4 going to ask you to read it out or anything like that
5 but I'm just going to ask you one or two questions as we
6 go along. Is that all right?

7 A. That's fine.

8 Q. So we see from the first paragraph that you are the
9 daughter of Eileen O'Hara, who was born on
10 9 October 1938 and she died on 7 May 2003. You say you
11 have three siblings. Are you the oldest in the family?

12 A. Yes, I'm the oldest.

13 Q. I think you have two sisters and a brother. Is that
14 right?

15 A. Two sisters and a brother.

16 Q. You say in paragraph 2 that the first surgery you
17 remember your mother having was a hysterectomy at
18 Stobhill in 1980?

19 A. Yes.

20 Q. I think we will see from the records it
21 was November 1979.

22 A. I knew I was 14. I knew it was either side of that.

23 Q. You don't know about any blood transfusion then?

24 A. No.

25 Q. But we will come on to that.

1 You then say that your mum worked as an orderly at
2 Stobhill. Of course she had a lot of medical treatment
3 at Stobhill too?

4 A. We actually lived quite close to Stobhill.

5 Q. And in the north of Glasgow there is a lot of loyalty to
6 Stobhill. Is that fair comment?

7 A. Yes.

8 Q. So your mum probably enjoyed her work there as well, did
9 she?

10 A. Yes.

11 Q. Then you tell us in paragraph 4 that your mum had heart
12 surgery in 1985 at Glasgow Royal Infirmary. You say
13 that she had a heart valve replacement and your mother
14 was given a mitral valve from a pig. In fact, she had
15 had rheumatic fever as a child and that had caused some
16 problems with her heart in later life. Is that correct?

17 A. Yes, I knew all about that and she had already had the
18 valve widened in the 60s.

19 Q. And again, you say you don't know if she was given blood
20 or blood products during or after this surgery and we
21 will come on to this too. On the following page you
22 say:

23 "Soon after my mother gave up work she became
24 unwell. I don't think she gave up work due to poor
25 health."

1 I maybe wondered if she retired at 60?

2 A. She was 60 that year, so I think that would be why.

3 Q. She went to her GP at Springburn Health Centre and the
4 doctor asked her on a number of occasions if she was
5 drinking, and you say that your mother very rarely drank
6 and each time she attended the GP she was asked the same
7 thing which she found a bit upsetting. And again, we
8 are going to come on to look at that and it may comfort
9 you when you see that when the GP actually wrote to the
10 hospital she said that your mother didn't drink.

11 So in terms of the impression people had, I don't
12 think there is any question of conveying the wrong
13 impression on that. Then she went back to the
14 Royal Infirmary and saw the heart surgeon who had
15 performed the mitral valve operation in 1985; I think it
16 would have been 1990 or 1991, and in fact we know it was
17 1991 she had the valve replaced again. This time
18 I think it was a metal valve rather than a pig valve.

19 A. Yes.

20 Q. You say that yourself at paragraph 7; the mitral valve
21 was replaced by a metal one and there was blood
22 transfusion at that time. Then your mum was able to
23 look after your daughter until June 1995 but by that
24 time she wasn't really well enough to carry on.

25 A. No.

1 Q. Doing the childcare for her granddaughter and then she
2 went back to hospital and had some more tests.

3 I should have said that you actually remember that
4 one of the issues they wanted to check was lymphoma?

5 A. Yes, I think because that's something that we had heard
6 of and it was something totally new. It was always just
7 heart-related things my mum went to hospital for. It
8 seemed quite a departure.

9 Q. If I can say so, Mrs Kennedy, you have a very clear
10 recollection of things which it is easy to spot in the
11 medical records. A good tie-up there. Then you
12 remember that she was referred to a gastroenterologist.
13 You say his name was possibly Dr Fraser. Might it have
14 been Dr Forrest?

15 A. Probably, I can't remember.

16 Q. She was admitted to Stobhill in July 1995 for liver
17 biopsy and a bone marrow test for lymphoma. Your
18 sister, Annette, who I think is here today, was working
19 in Stobhill at the time as a nurse and found out from
20 your mum's doctor that your mum had cirrhosis of the
21 liver and she had Hepatitis C, and even then the doctor
22 was indicating that she had probably got the Hepatitis C
23 from a blood transfusion.

24 A. Yes.

25 Q. You remember all of that, I expect?

1 A. I do, I remember because in a strange way we were
2 relieved because it wasn't lymphoma. So it was kind
3 of -- a diagnosis of Hepatitis C, because we didn't
4 really know what it was, was a sort of relief at the
5 time.

6 Q. But you go on to say that as a family you found that
7 there wasn't really very much information given to you
8 about the virus. That was your feeling then, was it?

9 A. Yes, it was very much, "You have got Hepatitis C but you
10 have actually got cirrhosis of the liver". So that's
11 really what we have to -- that's a lot more serious.

12 Q. You say she was not offered any support or further
13 information, not even a leaflet.

14 A. No, nothing.

15 Q. And nobody made contact with the family members to
16 suggest -- I'm looking at the bottom of page 3 -- you
17 should be tested for Hepatitis C, not even your father
18 or your sister who was also living at home. Then after
19 your mother's death you approached your own GP to ask
20 for a Hepatitis C test. Did you actually have one?

21 A. Yes.

22 Q. I take it it was negative?

23 A. Negative, yes.

24 Q. Then you tell us -- this is paragraph 10 -- that your
25 mother asked for possible treatment for Hepatitis C at

1 every medical appointment she attended. Every time she
2 was told there was no treatment they could offer as she
3 already had cirrhosis. Did you discuss that with her or
4 did she tell you what she had been told at the hospital?

5 A. Yes, because, I think when you have been attending
6 hospitals, you do ask about treatments because it has
7 been your experience that usually something can be done,
8 you know, when you have had heart problems. So we just
9 wondered, and I know my mum wondered, if just anything
10 could be done because she was very used to following
11 doctor's instructions and she was very faithful to
12 doctor's instructions, and I think she just thought if
13 there was something she could do things might get a wee
14 bit better.

15 Q. You see at the end of paragraph 10 that your mother was
16 told that blood had been taken from American prisoners
17 and that this may have been a source of Hepatitis C?

18 A. Yes, she was certainly told that and it came as a wee
19 bit of a shock to us. I don't know which doctor would
20 have told her that, I really don't. It would have been
21 at the hospital, it wouldn't have been a GP. I don't
22 know.

23 Q. If it is your intention to continue to follow the
24 proceedings of the Inquiry after today --

25 A. Yes.

1 Q. -- you will hear evidence that, certainly in Scotland,
2 a small proportion of donated blood came from prisoners
3 but they were prisoners in prisons in Scotland, and you
4 will also hear evidence that people with haemophilia in
5 Scotland did receive some treatment with blood product
6 concentrates which came from America but the Inquiry
7 hasn't uncovered any evidence of people in Scotland
8 receiving blood as blood from American prisoners. So as
9 I say, if you intend to follow what goes on, you will
10 hear more about this in due course.

11 Then you say that the doctor that your sister
12 Annette had spoken to suggested that your mum -- I take
13 it that it was your mum who phoned the blood transfusion
14 service. Is that right?

15 A. No, it was my sister.

16 Q. It was Annette?

17 A. It was my sister.

18 Q. And was told that there was nothing that could be done
19 as your mother had been given the blood in good faith.
20 Also, as your mother had cirrhosis, there was no
21 treatment that would be effective. I think that was
22 about 1995?

23 A. Yes.

24 Q. I just wanted at this point, Mrs Kennedy, to ask you to
25 have a look at a document, which is [\[LAI0010020\]](#).

1 Just so that you understand, Mrs Kennedy, that this
2 actually comes from the medical records of a different
3 patient but you will see that it is headed up
4 "Transfusion transmitted Hepatitis C guidelines for
5 counselling patients." It is dated April 1995.

6 I just wanted to let you have a little look at this.
7 The introduction that sets the background for this is
8 that:

9 "Recipients of blood or blood components from donors
10 now known to be carriers of Hepatitis C virus are being
11 traced with a view to providing counselling, testing and
12 specialist referral as appropriate."

13 So to express it in other words, really, what's
14 going on is that when testing of donated blood was
15 introduced to find Hepatitis C virus in 1991, blood
16 donors were found who were carriers of the virus and it
17 was then possible to look back at donations that those
18 blood donors had given and trace the recipients of the
19 blood, and contact them and test them to see if they had
20 been given Hepatitis C. Does that make sense to you?

21 A. Yes.

22 Q. So this is the background to these guidelines and it is
23 pretty self-explanatory in paragraph 2 that what the
24 guidelines are for is for use in counselling patients
25 identified through the look-back exercise as

1 Hepatitis C-positive. They give some background to the
2 exercise, explain the implications of being found to be
3 anti-HCV positive, provide information on ways of
4 avoiding infecting others, give advice as to the
5 appropriate steps to be taken and notes about the likely
6 management at specialist centres, about which patients
7 are likely to ask.

8 Can we just perhaps move slowly through this
9 document. If we go a little bit further down the page,
10 you will see the point I have made about the
11 screening -- this is paragraph 6 -- for antibodies to
12 Hepatitis C from 1 September 1991. Move to the next
13 page:

14 "Estimated up to 3,000 recipients will be traced as
15 part of the look-back exercise. Chronic hepatitis is
16 often asymptomatic. The diagnosis of chronic Hepatitis
17 C is likely to be an unwelcome surprise for most
18 patients."

19 Then it says, paragraph 8:

20 "Patients should be counselled on the implications
21 of the test result and referred for a specialist
22 opinion."

23 Then, "Implications of a positive test", "Modes of
24 transmission". Then can we go to the next page. You
25 see there is a section headed "Avoiding infecting

1 others"?

2 A. Hm-mm.

3 Q. So the person who is carrying out the counselling is
4 able to cover that as a topic in case people are
5 concerned that they might infect their family members.
6 So we see advice, for example, such as that in
7 paragraph 14:

8 "Tooth brushes and razors must not be shared. Cuts
9 or skin lesions should be covered with waterproof
10 dressings."

11 And so on:

12 "Further assessment and follow-up:

13 "All anti-HCV positive patients should be referred
14 to a specialist with an interest in the condition for
15 further assessment. This will usually involve a period
16 of observation and, in most cases, a liver biopsy.
17 Patients ... may be offered treatment with interferon."

18 Then the next page. Then notes about management at
19 specialist centres:

20 "Further counselling will be given at specialist
21 centres. Treatment options can be discussed in more
22 detail."

23 Then there are some statistics about the prospects
24 of successful treatment in paragraph 23:

25 "Although 40 to 80 per cent of patients respond

1 initially to interferon with normalisation of
2 transaminase values ..."

3 I gather that's liver enzymes, so that people's
4 liver enzymes can return to normal:

5 "... only 50 per cent of the responders, that is 20
6 to 40 per cent of those treated, have a sustained
7 response. Response rates depend on the particular
8 genotype of Hepatitis C."

9 Then the next page, it says:

10 "Patients were kept under review."

11 Then:

12 "Other treatment approaches are under development,
13 including the combination of interferon with other
14 antiviral agents."

15 I take it that you are not aware of your mother ever
16 being counselled along these lines?

17 A. No.

18 Q. And she didn't receive information along the lines that
19 we see described in these guidelines?

20 A. No.

21 Q. Right. Of course, we understand that your mother was
22 never traced as part of a look-back exercise. So it
23 wasn't that someone was able to identify the donor and
24 then find your mother and follow those guidelines, but
25 nonetheless, as a person who was thought to have

1 received their infection from blood transfusion, she
2 would have been covered by the same situation as is
3 described in the guidelines. Do you understand that?

4 A. Yes.

5 Q. So as it turned out, because of the way the
6 investigation was carried out, it really didn't reach
7 people like your mother, who were not identified
8 formally as part of a look-back exercise. Does that
9 give you a bit of background to what did or didn't
10 happen?

11 A. Yes.

12 Q. Right. To go back to your statement, we go back to
13 page 4, paragraph 12. You say that your mother always
14 coped well with ill-health and always did as doctors
15 said and advised:

16 "But she found the Hepatitis C very difficult and
17 she hated having "Hep C risk" stamped on the front of
18 her medical notes. She found that embarrassing."

19 A. I think she would rather it was inside because if you
20 are in a hospital where a lot of people are neighbours
21 and a lot of people that you have worked with and they
22 are seeing that every day, I think she did just find it
23 embarrassing, yes.

24 Q. Then you tell us in paragraph 13 that your mum went to
25 the warfarin clinic. Basically she saw a cardiologist

1 pretty regularly. Is that right?

2 A. Yes.

3 Q. Is that Dr Dunn?

4 A. Yes, Dr Dunn.

5 Q. And she went to the diabetic clinic as well?

6 A. Yes.

7 Q. Do you remember that she was diagnosed with diabetes

8 around 1990?

9 A. First she just took tablets but later on she became

10 insulin dependent.

11 Q. Do you remember that it was Dr McLaren she saw?

12 A. I couldn't say the name of the doctor.

13 Q. You say:

14 "She was never referred to any specialist in

15 relation to her Hepatitis C and was not referred to

16 a liver consultant."

17 Again, if you are able to stay you will hear some

18 more evidence about what happened. Then she also went

19 to her GP, and you say that some information and

20 warnings were able to be given to the family as a result

21 of the efforts of you and your sister?

22 A. I think my sister was working in Stobhill at the time

23 and then she moved on and she found what you should be

24 doing and what you shouldn't be doing through her work.

25 Q. Then you say that in your view she asked every medical

1 person she saw about treatment for Hepatitis C and she
2 was always told she wasn't suitable?

3 A. Yes.

4 Q. Do you think it was explained to her more than that?
5 Was there some explanation as to why she wasn't
6 suitable?

7 A. I think the explanation is that she already had
8 cirrhosis of the liver, and if you already have
9 cirrhosis of the liver, then there is -- you can't
10 really do anything. That's the way she presented it to
11 me. That was the reason why. There was nothing that
12 could be done.

13 Q. Did you know, either from your own knowledge or from
14 something your sister told you, about the low success
15 rates of treatment that we saw from the guidelines?

16 A. Yes, I think we did. I think we did think if you have
17 got cirrhosis of the liver, then it really maybe -- it
18 possibly is too late.

19 Q. You say that from 1995 your mum's symptoms worsened.
20 She was tired and weak and looked pale with a thin face,
21 but you say she was never depressed and she still
22 managed to walk around the town.

23 A. Yes.

24 Q. She looks to have been a pretty stoical individual. Is
25 that correct?

1 A. Yes.

2 Q. And then you describe a difficult time for you as
3 a family in 2002 and then perhaps your mother being
4 a bit more frail after your father's death. Is that
5 a reasonable way of putting it?

6 A. Absolutely.

7 Q. And then your brother -- is he the baby of the family?

8 A. Yes, he is the youngest.

9 Q. So three girls and then a boy?

10 A. Yes.

11 Q. And your brother was getting married in April 2003 and
12 your mum wanted to come to the hen night but she became
13 very unwell in March. So presumably she wasn't able to
14 come to the hen night?

15 A. No, she was in hospital.

16 Q. And she went into Stobhill and it was discovered that
17 she had a problem with gallstones?

18 A. Yes.

19 Q. I think, at that stage --

20 A. Pancreatitis.

21 Q. And then there were, I think, three attempts to do
22 something about the gallstones.

23 A. Yes.

24 Q. And then your mum really became more and more ill and
25 she was in a high dependency unit and then, in fact,

1 finally she was in the coronary care unit.

2 A. Yes.

3 Q. You say you can't remember the name of the doctor whose
4 care she was under. If I tell you that it was
5 a Mr Kevin Robertson who looked after her when she had
6 her pancreatitis and tried to do something about the
7 gallstones, and then in the coronary care unit there was
8 a consultant, Dr Goodfield, and a registrar, Dr Petrie.

9 A. Yes.

10 Q. Do these names sort of ring a bell?

11 A. Yes, when you hear them.

12 Q. And then you talk about what was and was not on the
13 death certificate, and then you also think there seemed
14 to have been very few precautions about cross
15 contamination. Is that your feeling?

16 A. I just feel that -- considering that Hepatitis C was
17 well-known by 2003.

18 Q. You tell us that you have not qualified for the Skipton
19 fund payments because of your mum's date of death?

20 A. Yes.

21 Q. Thank you very much, Mrs Kennedy. That's all I'm going
22 to ask you.

23 THE CHAIRMAN: Mr Di Rollo, do you have any questions that
24 you want to put to Mrs Kennedy?

25 MR DI ROLLO: No, thank you.

1 THE CHAIRMAN: Mr Anderson?

2 MR ANDERSON: No, thank you, sir.

3 MR SHELDON: No, thank you, sir.

4 THE CHAIRMAN: Mrs Kennedy, thank you very much for coming.

5 A. Thank you.

6 MS DUNLOP: Sir, there is some evidence, if I can call it

7 "evidence", although it is not spoken to by a witness.

8 I think it would be simpler if I simply narrated it.

9 It is the results of the research that the inquiry

10 team have done on the question of the various blood

11 transfusions that Mrs O'Hara received, and it has been

12 quite a significant piece of detective work from the

13 medical records.

14 It would, I think, be useful if we looked at the

15 medical records and saw what evidence there is about the

16 transfusions given at the different points in

17 Mrs O'Hara's life and I would propose, since we have

18 a little bit of time, to do that now, if I may.

19 THE CHAIRMAN: It seems a sensible approach. It is purely

20 factual information. Take it slowly so that we can get

21 the picture, Ms Dunlop. Do remember that there are

22 members of the public here who won't be used to taking

23 great lists of information in. So if there is a point

24 at which you can pause and explain, that might help us

25 too.

1 MS DUNLOP: Dr Mutimer, who is going to be the next witness,
2 has organised his report, not so much chronologically
3 but under different headings in relation to the
4 different surgery that Mrs O'Hara had, and the first
5 thing he has done is to look at cardiac surgery. So
6 I have copied his approach and I propose to start with
7 cardiac surgery and look at such information as those
8 behind me have been able to discover from the records
9 about that, and there is quite a bit.

10 If we look firstly at [\[OHA0012627\]](#), we can see that
11 that's a letter from Stobhill to, one assumes,
12 Mrs O'Hara's GP, and it is dated 4 February 1963.
13 Mrs O'Hara has been in hospital with pure mitral
14 stenosis and I understand from my own research -- and
15 Professor James will correct me if I'm wrong, but
16 stenosis is really narrowing. So the mitral valve was
17 narrowed and valvotomy was carried out by Mr W H Bain.
18 We have a cardiologist coming and I do intend to ask him
19 a bit more about it, but in simple terms I understand
20 that to have been an attempt to widen the valve again.

21 So that shows us some surgery happening in 1963.

22 THE CHAIRMAN: Is that what Mrs Kennedy was referring to, do
23 you think?

24 MS DUNLOP: Mrs Kennedy mentioned it, yes. It is the
25 widening of the valve.

1 THE CHAIRMAN: The original one?

2 MS DUNLOP: Yes. Can we then look at [\[OHA0010899\]](#). This is
3 obviously a piece of paper. It is information from an
4 obstetric unit and it is dated 1 November 1971, and if
5 we look on the right-hand side at the bottom, there is
6 a question on the form:

7 "Previous blood transfusion."

8 And someone has deleted "No", so obviously
9 by November 1971, Mrs O'Hara has had a blood transfusion
10 and it would suggest that that must have been the
11 valvotomy. I think Dr Mutimer will obviously come on to
12 this, but Dr Mutimer says it is possible that there was
13 a blood transfusion but I suggest that this makes it
14 look really quite likely that there was a blood
15 transfusion in association with the valvotomy.

16 Then we move to 1985, insofar as cardiac surgery is
17 concerned, and look at [\[OHA0011303\]](#). This is a blood
18 bank prescription sheet because we can see it is headed
19 up "Blood bank", and then not quite half way down the
20 form it says:

21 "Blood transfusion prescription."

22 And it is dated 5 June 1985. You see that
23 Mrs O'Hara's blood group is shown there, B negative, and
24 that someone has prescribed five packs of concentrated
25 red cells and batch numbers are given. In fact, all

1 five of these batches are signed as having been given,
2 given and checked. The only other thing to note about
3 it perhaps is the date of 5 June. It seems to suggest
4 that the prescription is work that was carried out in
5 advance because the operation wasn't until 7 June, but
6 perhaps that wasn't unusual to organise the blood in
7 advance, and I accept this is speculation but
8 particularly where perhaps the blood group is more
9 unusual, B negative, one might take that step in
10 advance.

11 THE CHAIRMAN: Professor James suggests that this is for the
12 bypass machine to be primed.

13 MS DUNLOP: I see, thank you.

14 If we then look at 1426, this looks, although the
15 description of it is cut off at the top, to be a chart
16 and it looks to be the beginning of an IV fluid chart.
17 It is dated 7 June 1985. We can see that it seems to
18 start at 2.45 in the afternoon. If we then move to
19 [\[OHA0011425\]](#), this seems to be a continuation of
20 [\[OHA0011426\]](#) and if we look, we can identify, not always
21 in the same columns, but in the concentrated red cell
22 column there are three batch numbers and then in the
23 bottle or pack number column, there are two batch
24 numbers. But in fact, although the writing is not
25 100 per cent easy to make out, it does look broadly as

1 though those five numbers tally up with the batch
2 numbers that were shown on the original prescription
3 sheet.

4 So that seems to be the use of all five of the packs
5 and that would be supported by the fact that the
6 administration column was signed in relation to each
7 batch on the previous page we looked at.

8 So in summary, it looks as though there were five
9 packs of red cells given to Mrs O'Hara in association
10 with, if I can just call it, the pig valve operation in
11 1985.

12 If we look at [\[OHA0011428\]](#), we can see that there
13 was also plasma shown there. That's item D. That's
14 actually 6 June, with some plasma given intravenously.
15 There is also something called "Hartman's" but I gather
16 that's not a human product, as it were, that's
17 a synthetic product.

18 That deals with the position up to 1985, and then
19 Dr Mutimer moves to discuss obstetrics and gynaecology.
20 So I would do that too. If we look at [\[OHA0010881\]](#),
21 this is from 1972, March 1972, and from the records,
22 this would appear to be associated with the birth of
23 Mrs Kennedy's brother, the baby of the family, who was
24 delivered by Caesarean section, and we can see that
25 there were two bottles of blood cross-matched and there

1 are numbers for those batches given there. The next in
2 this sequence is [\[OHA0010430\]](#), and this is actually the
3 anaesthetic chart from the Caesarean section. You can
4 see "Caesarean section" is written at the top. 31/3/72.
5 And if we look at IV fluids on the right-hand side,
6 there is a heading "IV fluids", and in handwriting it
7 says:

8 "B negative blood."

9 And someone has copied down one of the batch
10 numbers. So it looks as though in fact only one of the
11 two batch numbers that we saw on the previous sheet may
12 have been used, but a transfusion nonetheless.

13 Then if we go to 1979, [\[OHA0010076\]](#).

14 THE CHAIRMAN: Could we go back to that previous page, just
15 for a moment, please?

16 MS DUNLOP: The anaesthetic record or the one before?

17 THE CHAIRMAN: The IV fluids.

18 MS DUNLOP: 0881.

19 THE CHAIRMAN: Has anyone been able to decipher what the
20 other IV fluids are? Dextrose, that's straightforward;
21 it's the other two.

22 MS DUNLOP: Dextrose, yes. I don't know what A and C are.

23 THE CHAIRMAN: Yes. It is the "R" that has attracted my
24 attention, needless to say, and the fact that they add
25 up to 500 millilitres, but no one knows.

1 MS DUNLOP: I think if anyone could guess as what it might
2 be it would be Professor James.

3 THE CHAIRMAN: He can't.

4 MS DUNLOP: But maybe he can think about it and see if
5 anything comes to mind.

6 PROFESSOR JAMES: Do you have the nursing records of that
7 operation because if you do, then they would perhaps
8 give the same information in a different way and the
9 nurses usually --

10 MS DUNLOP: They will be there somewhere but I don't have it
11 today.

12 PROFESSOR JAMES: In that case, conceivably afterwards then,
13 that can be found and shown to Lord Penrose.

14 MS DUNLOP: The exercise that has been carried out is to
15 attempt to look at the haematology records and see what
16 can be ascertained by way of blood. I freely accept we
17 didn't chart every type of fluid that Mrs O'Hara
18 received.

19 THE CHAIRMAN: The contrast perhaps makes it unlikely that
20 this is blood related.

21 MS DUNLOP: I think a view was taken that it wouldn't be
22 blood. I think once we saw the entry relating to blood,
23 that was the trail we followed.

24 THE CHAIRMAN: Yes. Gentlemen, if anyone has got any
25 concern about it, it has been flagged up and you can

1 follow it if you think it is appropriate.

2 MS DUNLOP: I think we were looking at 0076, which
3 is November 1979. As Mrs Kennedy said, that was the
4 time when Mrs O'Hara underwent a hysterectomy and we can
5 see that the operation performed there is vaginal
6 hysterectomy. And there, IV fluids during operation,
7 still towards the top of the form on the right-hand
8 side, maybe it is the same "R". It does seem to say:
9 "RL 500 mls."

10 PROFESSOR JAMES: It is "right line". It means she probably
11 had drips in both arms. Probably it is "right line", so
12 the "mls" there will be of dextrose or normal saline;
13 they won't be of blood, they would have been recorded as
14 blood.

15 MS DUNLOP: Thank you. But underneath that is written:
16 "One unit whole blood, one unit pack cells."
17 Still in November 1979, if we look at [\[OHA0010738\]](#),
18 we can see that, again in handwriting, someone has
19 filled in the blood pack numbers. That's towards the
20 right of the form about in the middle from top to
21 bottom. Blood pack numbers, and there are two numbers
22 there and what looks like "C/C" which presumably means
23 concentrated cells.

24 THE CHAIRMAN: Concentrated cells is circled down below.

25 MS DUNLOP: Oh, yes, so it is. Concentrated cells.

1 or the day before, I should establish that you are
2 a liver specialist, a consultant liver specialist in
3 Birmingham. Is that correct?

4 A. That's correct.

5 Q. And you work in one of the seven transplant units in
6 Britain?

7 A. Yes.

8 Q. -- I have now forgotten which queen it is; the
9 Queen Elizabeth Hospital?

10 A. It is Queen Elizabeth, the Queen Mother.

11 Q. Thank you. Now, you have been asked to prepare a report
12 on Mrs Eileen O'Hara. Is that correct?

13 A. That's correct.

14 Q. And do you have that report in front of you?

15 A. Yes, I do.

16 Q. The reference for that report is actually [\[BLA0012298\]](#).
17 It should be OHA and I think that will be changed but it
18 has gone in as a BLA report. And we have it on our
19 screens too.

20 Dr Mutimer, we have already looked at the subject
21 matter which you cover on your first page, which is
22 Mrs O'Hara's medical history, more in relation to her
23 other problems. So we have already looked at cardiac
24 surgery and obstetric and gynaecological surgery, and we
25 have identified a blood transfusion at some point before

1 1971, which would appear, probably, to be associated
2 with the valvotomy. Transfusions in June 1985, and
3 indeed there is also a transfusion in 1991 but I think
4 perhaps by the end of your evidence, we will see that
5 that may not be so important. We have also identified
6 transfusions in 1972 with the Caesarean section and
7 1979, the hysterectomy, probably much as you suspected
8 but I think you maybe didn't have all the older notes
9 that are available to us.

10 So if we could turn to page 2 of your report, and
11 perhaps before we go any further, just to look at a page
12 from the records, which is 2543.

13 THE CHAIRMAN: The prefixes please?

14 MS DUNLOP: Sorry, all of these, sir, are OHA.

15 [\[OHA0012543\]](#). Simply that there has been mention of
16 diabetes and to locate that historically, we can see
17 that that's a GP referral dated 7 March 1990. So the GP
18 is referring Mrs O'Hara to Stobhill and she has recently
19 been found to be suffering from diabetes. Just so that
20 we know when that happened.

21 Go next to [\[OHA0011178\]](#). I should explain, sir
22 that, Dr Mutimer has referred to abnormal biochemical
23 liver function tests in February 1984 but it is not
24 necessary to go to the entry because Dr Mutimer has
25 quoted it exactly in his report, what the measurements

1 at that time were, and then he said the general
2 practitioner may have pursued this problem in 1990, and
3 it looks as though [\[OHA0011178\]](#) is that pursuit. On
4 29 May 1990, this is the general practitioner at the
5 health centre referring Mrs O'Hara and saying that her
6 liver function tests were deranged. We can see the
7 measurements there, alkaline phosphatase. I'm not sure
8 of the next one. Perhaps the aspartase is the middle
9 one. It is not very easy to make out the handwriting at
10 91 and an ALT at 116, although there has been some
11 reduction. She doesn't take any alcohol, it says.
12 That's May 1990.

13 If we then look at [\[OHA0012538\]](#), this is the
14 Royal Infirmary and this letter comes from a lecturer in
15 cardiac surgery saying that Mrs O'Hara has been seen and
16 that there are mildly deranged liver function tests.
17 The doctor is saying he couldn't feel any hepatic
18 enlargement. He suggests that if a repeat set of liver
19 function tests still continues to show mild derangement,
20 either an ultrasound of her liver or a
21 gastroenterologist opinion might be valuable.

22 Is that reasonable advice, Dr Mutimer?

23 A. Yes, that's excellent advice.

24 Q. Can we then look at [\[OHA0012536\]](#). We are now
25 in September 1990. It is not a terribly good copy but

1 it does look as though the general practitioner is
2 following the suggestion of seeking gastroenterological
3 opinion. It is headed up "Gastroenterology", and the GP
4 is referring in the letter to "mild, persistent
5 derangement of liver function tests". The GP tells the
6 other doctor that Mrs O'Hara was taking a moderate
7 degree of alcohol only to begin with, however,
8 abstaining completely from alcohol, the liver function
9 tests are still deranged.

10 If we look at [\[OHA0012535\]](#), if we go to the page
11 before, November 1990, the report is going back to the
12 GP from the gastroenterologist, and in a nutshell this
13 letter seems to be saying that the gastroenterologist
14 doesn't think that the liver function tests can be
15 explained by cardiac problems. Is that correct?
16 I think you really get that from the beginning of the
17 third paragraph.

18 A. Yes, that's what is stated.

19 Q. In fact, we can see the way Dr Morris's mind was working
20 when we read that because we can see that he or she has
21 organised testing for Hepatitis C. Do you see this in
22 the third paragraph:

23 "I was unsure whether she had received blood
24 transfusion with her various operations but I suppose
25 this remains a possibility, I have therefore checked

1 hepatitis screens."

2 Can you interpret for us, please, the end of the
3 preceding paragraph. He or she says:

4 "Abdominal examination, one finger breadth palpable
5 hepar with possible spleen of tip palpable."

6 Slightly delphic?

7 A. I think the important observation there is that the
8 doctor feels that the spleen may be palpable. In the
9 setting of liver disease that would suggest there was
10 significant liver damage; the spleen being palpable in
11 a patient with liver disease often implies the presence
12 of cirrhosis.

13 Q. What's the "one finger breadth palpable hepar"?

14 A. I think he has said that he can just feel the edge of
15 the liver but that's not very useful. That's not
16 clearly abnormal. The abnormality is the palpable tip
17 of the spleen.

18 Q. I see, thank you. Can we look next at [\[OHA0011272\]](#).

19 I did want to emphasise, for future reference, that this
20 investigation is all being carried out in November 1990
21 in the context of abnormal liver function tests and
22 abnormal findings on examination.

23 If we then look at [\[OHA0011272\]](#), we can see the
24 result of the Hepatitis C test is dated 5 November 1990
25 and we can see hepatitis B, A and C were all tested for

1 and all three results were negative. Can you see that
2 in front of you, Dr Mutimer?

3 A. Yes, I can see that.

4 Q. That obviously had a effect on the approach that was
5 taken at that time and if we go back to [\[OHA0011168\]](#), we
6 can see that in December 1990, the gastroenterologists
7 really sent Mrs O'Hara back to the cardiologists. You
8 say in your report that:

9 "The negative Hepatitis C antibody test is a
10 surprising result."

11 A. Yes.

12 Q. Can you just explain for us, please, why you find that
13 surprising?

14 A. Well, in retrospect we know that Hepatitis C infection
15 was present, but we don't know the exact date of the
16 infection. I suspect that the infection was already
17 established and caused cirrhosis already at this stage.
18 This was a very early blood test, November 1990 was very
19 soon after discovery of the virus and this would
20 probably have been the very first commercial assay
21 available. The assays that were developed at that stage
22 were quite sensitive and that was important because they
23 were principally used in transfusion medicine and the
24 purpose was not to miss any cases of Hepatitis C in the
25 blood donor pool. So the problem was not so much

1 sensitivity of those assays, it was specificity. We
2 would see frequently false positive results, but false
3 negative results were not that common. I think in this
4 case, it is almost certainly a false negative result.

5 Q. Dr Mutimer, we are actually going to hear some evidence
6 tomorrow about the sensitivity of the early tests in
7 relation to different genotypes. Is that something that
8 you have researched or are you happy --

9 A. If you have got an expert coming tomorrow, you should
10 wait for that.

11 Q. Perhaps we can hold ourselves in suspense and hear how
12 the different genotypes fared when subjected to the
13 early tests, but in general terms if I say to you that
14 there was a difference between the genotypes in terms of
15 how likely the early tests were to pick them up, that
16 doesn't surprise you, I take it, does it?

17 A. No, no, I recall that.

18 Q. Of course, Mrs O'Hara's hepatitis was actually never
19 genotyped, at least not that we have been able to
20 ascertain. So that, I am afraid, is a bit of a loose
21 end but that may be an explanation. But your considered
22 view --

23 A. Everything is telling us that Hepatitis C was present,
24 it is just her particular blood result which is hard to
25 reconcile with all of the other clinical laboratory

1 data.

2 Q. Yes, but perhaps no surprise that at the time the
3 gastroenterologist took it at face value and sent
4 Mrs O'Hara back to the cardiologists. Is that
5 reasonable?

6 A. I think she was needing cardiology anyway because in
7 late 1990 her heart valve was starting to give problems.
8 I'm not sure that she was sent back to them to try and
9 sort out the abnormal liver function but it certainly
10 would have bluffed the gastroenterologists. They
11 probably thought that the Hep C test would come back
12 positive. They still had a patient with abnormal liver
13 function and a patient who probably had significant
14 liver disease. So it should probably have remained in
15 their domain.

16 THE CHAIRMAN: There is a manuscript note at the bottom of
17 that letter. Is it of any significance?

18 MS DUNLOP: I think, sir, that comes later.

19 THE CHAIRMAN: That comes later, right.

20 A. Do you want me to answer the question?

21 THE CHAIRMAN: Not if it is going to be dealt with by
22 Ms Dunlop.

23 MS DUNLOP: May I answer that? Having studied this, it
24 looks as though someone wrote this later when they went
25 back through the notes for a particular reason. Can

1 I say all will become if not clear, slightly clearer
2 when we hear from some of the other witnesses, if I may,
3 sir.

4 THE CHAIRMAN: I'm not waiting with bated breath.

5 MS DUNLOP: Just to pick up your point, Dr Mutimer, that
6 Mrs O'Hara was in need of further cardiological input,
7 we can see that from [\[OHA0012533\]](#), and really the
8 important part is the last bit, I take it, is it,
9 doctor:

10 "She needs a mitral valve re-replacement."

11 A. Okay, I don't have that page.

12 Q. All right. What do you have, if I can ask?

13 A. I was looking at the previous -- I have got now a letter
14 to Dr Lorimer.

15 Q. Yes, a cardiologist at Glasgow Royal Infirmary?

16 A. Dated 18 January.

17 Q. Yes. I was just suggesting to you that the important
18 part is the last sentence.

19 A. Yes, she had come to need another replacement.

20 Q. And we can ask the cardiologist about that but
21 presumably that's urgent?

22 A. You will have to ask the cardiologist.

23 Q. [\[OHA0011144\]](#)

24 A. I'll tell you when it comes up.

25 Q. Right.

1 A. Glasgow Royal Infirmary letterhead?

2 Q. Yes.

3 A. Yes. Operation notes.

4 Q. Yes. We see Professor Lorimer is shown at the top --

5 A. Yes.

6 Q. -- and it tells us in fact that this has been, I think,

7 an investigation; it has been cardiac catheterisation.

8 So not the full valve replacement but an investigation

9 prior to that. Is that correct?

10 A. Yes.

11 Q. And we can see that there is a mention in this of liver

12 enlargement. Yes, there we are:

13 "On examination ..."

14 The last sentence in that section says:

15 "... she had 3 centimetres ..."

16 I'm not sure I get the emphasis correct when I say

17 this but hepatomegaly. How would you say it, doctor?

18 A. Hepatomegaly.

19 Q. Can you interpret that for us, please?

20 A. I'm just trying to locate it, I'm sorry. I have page 1

21 of that document, a cardiac catheterisation.

22 Q. Yes, it is the section headed "On examination ..."?

23 A. Yes.

24 Q. The last sentence. I just wondered if you could explain

25 that, please.

1 A. Yes, so again this 3 centimetres hepatomegaly usually
2 means that the edge of the liver is palpable
3 3 centimetres below the ribs on that right-hand side.
4 So a normal liver would be not palpable or just palpable
5 and the greater the measurement of hepatomegaly, the
6 more likely it is that this is an abnormal liver, and
7 the abnormality here could be congestion of the liver
8 because of the cardiac problem or it could represent
9 intrinsic liver disease due to the inflammation, the
10 Hepatitis C.

11 Q. What's the meaning of the 3 centimetres bit?

12 A. That's just trying to provide an objective measurement
13 as to how enlarged the liver is. So the greater that
14 figure, the more likely it is that you really have got
15 an abnormal liver. It doesn't tell you what the cause
16 of the abnormality is. You recall the previous
17 description from Dr Morris, I think it was, the gastro
18 registrar said 1 centimetre. So it may be that this is
19 a liver which has gone from being palpable 1 centimetre
20 below the ribs to 3 centimetres. In other words, there
21 appears to be a progressive process with progressive
22 enlargement of the liver.

23 Q. Right. So the 3 centimetres is really a rough estimate
24 of the abnormal increase in size of the liver. Is that
25 right?

1 A. Yes, it is; it is rough, though.

2 Q. Do doctors use finger breadth as a surrogate for
3 a centimetre? Is that how it is done?

4 A. Sometimes they do, so "3 finger breadths hepatomegaly"
5 would be a common description. Most fingers are about 1
6 centimetre in diameter.

7 Q. Next can we look at [\[OHA0012502\]](#). We can see that this
8 is Dr McLaren at the diabetic clinic in Stobhill in
9 1994, and you cover this in your report, but Dr McLaren
10 is writing firstly about her diabetes but also he
11 says -- and this is the end of the second paragraph:
12 "I was rather surprised to find that she has
13 hepatosplenomegaly."
14 So an enlarged liver and an enlarged spleen?

15 A. Yes.

16 Q. I think we get the plan if we turn the page, please.
17 This is the last paragraph. His preliminary view is
18 that this is secondary to the mitral valve replacement.
19 He has written to the cardiac surgeon at the Royal about
20 this saying:
21 "If it has previously been noted it is unlikely to
22 be of any significance. If it is new I think she would
23 require at least an ultrasound."
24 Is this a reasonable plan, Dr Mutimer?

25 A. Yes, I think in 1994 it is two or three years after she

1 had a successful valve replacement? So I would be
2 surprised if the cardiologist would accept
3 responsibility for the enlargement of the liver and
4 spleen. And I think it is much more likely that this is
5 showing disease of the liver and then the enlargement of
6 the spleen is almost certainly due to that. So it all
7 points to the likely presence of cirrhosis at this
8 stage, with portal hypertension, in other words pressure
9 building up behind the liver, and that includes
10 enlargement of the spleen.

11 Q. I suppose, as a matter of logic, the plan may be
12 slightly flawed because he is only going to investigate
13 if this is a new finding, whereas it could be a finding
14 of some standing that has never been explored. Is that
15 unfair?

16 A. Well, there had been a number of specialists involved in
17 the care and then in the middle of it all she has had
18 valvular heart disease of sufficient severity to warrant
19 replacement. So I think lines are possibly getting
20 crossed and perhaps investigations that have been
21 performed previously have been slightly lost, have gone
22 out of focus. So now that the heart is in good
23 condition, people are about to pay more attention to the
24 enlargement of the liver and spleen, I think.

25 Q. I see. And then if we follow what happened next, if we

1 look at [\[OHA0012501\]](#), please. Dr McLaren is reporting
2 to the GP that he has had rather a delphic
3 communication, presumably from the Royal Infirmary, from
4 the cardiothoracic surgeons, the burden of which I think
5 is that they have not noted hepatosplenomegaly before.
6 So he is saying that that requires to be investigated
7 further. He is consistent. So he is saying, "We need
8 Mrs O'Hara to have an ultrasound of her abdomen".

9 Can we just look at [\[OHA0012500\]](#) briefly, before we
10 go to [\[OHA0012494\]](#). I have missed one.

11 Yes. Dr McLaren is a bit puzzled and he is saying
12 ultrasound has confirmed the presence of splenomegaly
13 but it has suggested there is also a degree of portal
14 hypertension. So maybe this is all secondary to
15 cirrhosis, marginally disturbed liver function tests.
16 So he is thinking along the right lines here, is he?

17 A. Yes, he is.

18 Q. And then if you look at 2494 it actually looks as though
19 he is a bit cross because he received, as we saw, rather
20 a delphic letter from the Royal Infirmary, and he says
21 in the middle paragraph that when he had written to
22 them, he asked if this had been noted previously.

23 That's the liver problems:

24 "I got a completely unhelpful letter back from the
25 surgeon there who obviously had not bothered to review

1 her notes, since Mrs O'Hara herself tells me she had
2 been told there was something wrong with her liver due
3 to her heart disease."

4 So, Dr Mutimer, I haven't actually been able to find
5 the delphic communication but I think we know enough
6 from this letter of its terms, and actually you
7 mentioned wires being crossed or failures of
8 communication. It looks as though, when the
9 Royal Infirmary wrote back and said that this finding
10 was a new finding, they were actually wrong. It had
11 been noted in 1990.

12 A. Yes, it is difficult for the patient. She has got
13 a number of specialists in more than one hospital. So
14 unfortunately it is a frequent cause of confusion and
15 does delay and impede achieving the correct diagnosis.

16 Q. But if we look at [\[OHA0012486\]](#), what certainly seems to
17 be happening is that Dr McLaren from the diabetes clinic
18 is trying to get to the bottom of things, and in fact
19 also, looking at this letter, the cardiologists are
20 trying to find out a bit more about the possible liver
21 problems too or the actual liver problems. If we read
22 this letter, the cardiologists are writing to
23 Dr McLaren, the diabetes physician, and it looks like an
24 accurate summary in the first paragraph of the history
25 of this particular complaint.

1 The other thing I wanted to ask you about, which is
2 mentioned in this letter, is that there was possible fat
3 infiltration of the liver. Is that a significant
4 finding?

5 A. I'm looking for that.

6 Q. Sorry. That's about line 3 of the second paragraph.

7 A. Yes, I have got it. I'm sorry, it is a very small font.

8 Q. All right.

9 A. Yes, the fat infiltration is probably not surprising and
10 is possibly as much related to the diabetes as to the
11 Hepatitis C. It is very common for diabetics to have
12 excessive fat in the liver, which on ultrasound has
13 a characteristic appearance. Some cases of Hepatitis C
14 without diabetes will also have excess fat in the liver.
15 So this finding is not surprising and it doesn't
16 contribute anything new or surprising.

17 Q. Does it interfere with the functioning of the liver?

18 A. The fat infiltration can interfere with the functioning
19 of the liver but in most cases the liver function is
20 excellent, despite having excessive fat in the liver, in
21 the majority of cases.

22 Q. Can we look at the second page of that letter,
23 OHA0012487. We can see that Dr Tait, who seems to be
24 working in association with Dr Dunn, Mrs O'Hara's
25 cardiologist, has initiated a number of investigations.

1 Importantly, one of the investigations he has arranged
2 is a further hepatitis screen, and that's no doubt the
3 right thing to do in your opinion?

4 A. Yes, I can't recall whether this is the same hospital as
5 the hospital that Dr Morris was working in.

6 Q. I think he was at the Royal Infirmary.

7 A. At the Royal, wasn't he?

8 Q. Yes.

9 A. So that would be fairly typical to go through a whole
10 liver screen I think, if you had not had one done in the
11 hospital before and if there is a puzzle like this
12 persisting.

13 Q. What about his comment:

14 "The present degree of right heart failure ..."

15 This is the beginning of the first full paragraph:

16 "The present degree of right heart failure would
17 suggest an alternative cause for the
18 hepatosplenomegaly."

19 What about that? Can you explain that, please?

20 A. Yes, I think we discussed this briefly five or ten
21 minutes ago. I think the cardiologist would be
22 reluctant to accept responsibility for the problem once
23 the mitral valve had been replaced and the heart problem
24 resolved. So they would be saying that any congestion
25 of the liver which might have caused enlargement should

1 no longer be an issue because the cardiac problem was
2 resolved. They are getting back to making the point
3 that enlargement of the liver and spleen, we should be
4 looking for things that affect the liver directly, like
5 Hepatitis C, for instance.

6 Q. Right. Can we look at [\[OHA0010834\]](#). This is the result
7 of the Hepatitis C screen from February 1995 and this
8 time we can see that it's positive.

9 A. It is not on my screen yet. Here it is. February 1995,
10 confirmed positive for Hepatitis C antibody.

11 Q. Yes. You asked, Dr Mutimer, in your report whether
12 there had ever been a PCR test. Perhaps you should just
13 explain to us so that we all understand, what might have
14 been the limitations of that test that we are looking at
15 compared to a PCR test?

16 A. Well, the antibody test simply tells us that the patient
17 has been exposed to Hepatitis C at some stage in the
18 past. It doesn't tell you whether or not the virus is
19 still present. And we know that about 20 per cent of
20 people who acquire Hepatitis C will eliminate the virus
21 with their own immune responses and that usually occurs,
22 if it is going to occur, within the first six months
23 after infection. So this result does not tell us that
24 there is persistent infection. It tells us that the
25 patient has been exposed to Hepatitis C, and we need to

1 do an additional test to confirm that the virus is still
2 present. Of course, in a lady who appears to have quite
3 significant liver damage, the probability now is
4 starting to become very high that the virus is still
5 present.

6 Q. But just to put it beyond doubt, can you look at
7 [\[OHA0012710\]](#). I hope you can see that at a reasonable
8 size font. That is a result from April 2003 and you see
9 that that is a PCR test.

10 A. I'm still waiting.

11 April 2003, HCV PCR positive. So the PCR test is
12 a test which will detect the virus particles
13 specifically. So that says infection is still present.

14 Q. Can we go back in time, please, to March 1995. We are
15 taking that out of order but just to confirm that there
16 was a PCR test some years later, go back to March 1995,
17 to [\[OHA0012476\]](#). This is back to the cardiology clinic
18 and Mrs O'Hara has been undergoing investigations for
19 the liver problem but she has also developed herpes
20 zoster. That's shingles, isn't it?

21 A. Yes.

22 Q. But in fact that seems to have been the most acute
23 problem at the time of writing this letter. Is that
24 fair? If you look in particular at the bottom of that
25 page.

1 A. She has got a lot of pain following an episode of
2 shingles, so post-herpetic neuralgia usually means after
3 the rash has resolved, there is still irritation of the
4 nerves and that can be very painful.

5 Q. And in fact she has been admitted to hospital because of
6 that. That looks to have put the investigations into
7 the liver problem on hold, doesn't it?

8 A. It looks like it was another distraction, doesn't it?

9 Q. Yes. If we then look at [\[OHA0012475\]](#), this is the end
10 of March, back to Dr Dunn, he seems to be saying that
11 there is now a better explanation for the
12 hepatosplenomegaly and he has discussed it with
13 gastroenterologists and a biopsy is indicated. I take
14 it you would agree with that on the basis of the
15 situation as it then appeared?

16 A. Yes, I think that plan of management was entirely
17 acceptable.

18 Q. Right. [\[OHA0012474\]](#), the page before. Dr McLaren is
19 also still involved. He is saying:
20 "The hepatic investigations have been deferred.
21 I see from her notes she does have antibodies against
22 Hepatitis C, presumably from her blood transfusions."
23 And he says:
24 "Perhaps this would explain why she has developed
25 cirrhosis."

1 Which is presumably the diagnosis.

2 If we follow the correspondence through; look at
3 [\[OHA0012473\]](#).

4 A. I have just got [\[OHA0012474\]](#).

5 Q. Sorry.

6 A. Yes.

7 Q. Okay. Yes, Dr McLaren is really presuming that there is
8 cirrhosis and as it turned out, he is correct about
9 that.

10 A. Yes.

11 Q. Then if we look at the page before, 2473, Dr Dunn, the
12 cardiologist, has the result of a CT scan of
13 Mrs O'Hara's abdomen:

14 "Significant hepatosplenomegaly and in particular
15 splenomegaly is present."

16 Does this hark back to what you told us earlier
17 about being able to feel the spleen? Is that why he is
18 emphasising the spleen?

19 A. Yes, he is telling you about a stage of the liver
20 disease. If you have a damaged liver but without the
21 development or progression to cirrhosis, then the spleen
22 would normally not be enlarged. So it gets back to the
23 point that the patient has liver disease which almost
24 certainly is cirrhosis and the splenic enlargement is
25 due to that.

1 Q. Right. And this is the reference we heard from
2 Mrs Kennedy earlier, that she recollects a period when
3 her mother was thought perhaps to have lymphoma and we
4 can see that this is thought to be the case and
5 suspected to be the case at this point.

6 A. I think sometimes the scans will be reported by doctors
7 and experts who don't have all of the underlying
8 clinical details. If I saw that report, I would
9 probably dismiss it and think that this was simply
10 a case of cirrhosis due to Hepatitis C.

11 Q. Right.

12 A. Lymphoma is a possibility but not likely.

13 Q. One of the things which is striking, Dr Mutimer, when
14 one reads through Mrs O'Hara's records, is that all of
15 this effort to get to the bottom of her liver problems
16 in the first half of the 1990s appears to be at the
17 initiative of the diabetic physician and the
18 cardiologist. That is unusual, is it not?

19 A. She has got a good diabetic specialist and a good
20 cardiologist, I think. They are probably very well
21 trained physicians in the early 90s. They probably have
22 very good background training in general medicine,
23 including gastroenterology. So I don't have any reason
24 to criticise any of the doctors who have been involved
25 with her care so far. You are right that it has taken

1 a long time to get to the right diagnosis and to say
2 what the stage of the disease is.

3 I think people's familiarity with Hepatitis C in the
4 early 90s was really quite poor. Remember, the virus
5 was only discovered in 89. The first tests available in
6 clinics in 1990. So a lot of our knowledge about
7 Hepatitis C at that stage was fairly superficial. But
8 you are right, there has been a number of doctors at
9 a number of hospitals who have been involved and
10 eventually they have got there. Perhaps it is that
11 first test in 1990 which has really thrown them off
12 track, I think, and that was unfortunate because, you
13 know, it was a very clever thing for the doctor to do in
14 1990, to say there has been transfusion. There is liver
15 disease, is it Hepatitis C? And then unfortunately an
16 erroneous result has thrown him off track, I think.

17 Q. Perhaps we should clarify -- and we are going backwards
18 just briefly -- that in 1990, it was possible to test
19 patients to see if they had Hepatitis C but there wasn't
20 screening of donated blood. Just because people may be
21 puzzled as to the difference in the purposes for which
22 tests were used in the United Kingdom in 1990. So just
23 to clarify that screening of donated blood wasn't
24 introduced until the autumn of 1991 but in 1990 it was
25 certainly possible to test patients to see if they had

1 Hepatitis C, to see if they had antibodies to
2 Hepatitis C. Is that right?

3 A. Yes, that's true.

4 Q. So you said it was a very clever thing to do, to think
5 of doing that test in 1990 but would you say overall, is
6 it your view that there is somebody missing from the
7 team at this point, and that somebody would be
8 a gastroenterologist or a liver specialist?

9 A. I think it is difficult. You have flashed up a number
10 of documents of different hospitals over a period of
11 time and I can't recall from that how selective you have
12 been and what the involvement of gastroenterology has
13 been. So I think Dr Morris was the registrar in
14 gastroenterology if I recall correctly. I can't
15 remember whether there was a consultant involved at the
16 infirmary or not, I'm sorry.

17 Q. Could you just take it from me that certainly there was
18 gastroenterological involvement in 1990 and that was
19 when the general practitioner took up the suggestion of
20 seeking gastroenterological advice, but when the
21 negative result from the test came through at the end of
22 1909, she was referred back to the cardiologists and we
23 agreed earlier, or you explained to us earlier that that
24 was a sensible thing to do because of the mitral valve
25 problem.

1 There doesn't, from the records -- it is not that
2 I have missed out gastroenterological involvement.
3 There is not gastroenterological involvement in the
4 background between 1990. And we are actually going to
5 come to it; there was some but at the point at which we
6 are examining matters, which is May 1995, it has been
7 since 1990 that she last saw a gastroenterologist. Just
8 so that you are clear about the factual situation.

9 A. That's okay. I think again, if there had been no
10 background cardiac problems this probably would have
11 come to a correct diagnosis much more quickly but this
12 lady has been distracted by the need for, really quite
13 major cardiac surgery, and it has also muddied the
14 thinking about the cause of her abnormal liver function
15 tests. So I can understand the delays that we see in
16 establishing the correct diagnosis. It could have been
17 diagnosed more quickly but I can understand why it took
18 as long as it did.

19 Q. So you understand how it happened?

20 A. Yes.

21 Q. Right. [\[OHA0012469\]](#) is the liver biopsy. And this is
22 still under the aegis of the cardiologist department.
23 She was admitted on 20 June 1995 as an arranged
24 admission for liver biopsy.

25 Then can you tell us about the bone marrow trephine

1 and aspirate. Is that part of the lymphoma theory?

2 A. Yes, I think they took advantage of the same inpatient
3 stay, I think, to look at the liver histology to confirm
4 cirrhosis. But in addition, perhaps it was the
5 appearances of the CT scan and also the fact that the
6 patient had, I think, a low platelet count and so on,
7 that made them concerned that perhaps there was an
8 underlying blood condition like a lymphoma. So I have
9 seen a number of patients who have been investigated
10 along these lines and usually you conclude that it is
11 just a cirrhosis that's the problem.

12 Q. Right. Indeed, if we look at the second paragraph, we
13 can see that the liver biopsy has showed cirrhosis with
14 lymphocytic infiltrate. So not a surprise, I take it?

15 A. No, expected.

16 Q. Indeed, it would have been a surprise if it hadn't
17 perhaps.

18 A. Yes.

19 Q. What about the lymphocytic infiltrate. What's that?

20 A. That's typical of Hepatitis C. That's just the body's
21 immune cells reacting to the presence of the virus in
22 the liver.

23 Q. Then [\[OHA0012468\]](#), so the page before. The
24 cardiologists are reporting to Mrs O'Hara's GP about the
25 liver biopsy and saying that they think

1 gastroenterologists should be asked to review her and
2 further assess the need for additional treatment such as
3 interferon. He is going to see her. This registrar is
4 going to see Mrs O'Hara in four months' time but he will
5 wait until Dr Forrest's review. Dr Forrest is
6 a gastroenterologist, I understand, or was
7 a gastroenterologist. If we look at [\[OHA0011011\]](#),
8 something has gone awry with the dating of this letter,
9 Dr Mutimer, because the typist appears to have been
10 able --

11 A. I am still not --

12 Q. You don't have it?

13 The typist appears to have been able to type it four
14 months before it was dictated. So I don't think that
15 can be right.

16 But do you have [\[OHA0011011\]](#)?

17 A. Yes, this is a very good letter.

18 Q. Right. That has gone to Dr Forrest. We should just
19 note that I think the correct date is probably
20 12 September, if it was dictated on the 11th and then
21 was typed on the 12rd. If we with then look at
22 [\[OHA0011003\]](#), here we have Dr Forrest. You mention this
23 at the top of page 3 of your report. Can we have
24 Dr Mutimer's report beside --

25 A. I have got a hard copy as well.

1 Q. Yes, you have a hard copy but I think for the rest of us
2 if we could have that, [\[BLA0012298\]](#), except it will be
3 2300, I think. Have you got the letter in front of you,
4 Dr Mutimer? The letter from Dr Forrest? Have you got
5 that?

6 A. Yes.

7 Q. Right. When you have a minute, if you could go to the
8 third page of the report, please. The first paragraph in
9 your report on page 3 seems to be referring to this
10 letter. It looks as though, from Dr Forest's letter,
11 what he has done is look at her notes, including the
12 biopsy report, but it doesn't look as though he has seen
13 Mrs O'Hara. For our purposes, this is an important
14 letter from Dr Forrest. I'll just give you a moment to
15 refresh your memory. (Pause)

16 Right? Sorry, doctor, you have looked again at the
17 letter, right?

18 A. I have looked at the letter from Dr Forrest to Dr Dunn,
19 yes.

20 Q. Right.

21 A. You are right, it looks like he has responded but not
22 yet having seen the patient.

23 Q. Right. Just almost as an incidental matter, you see
24 that he says in the second paragraph that:

25 "The cirrhosis could be idiopathic."

1 Then again makes the same point in the third
2 paragraph but says that it could be cryptogenic. These
3 are both terms, as I understand it, to describe an
4 ailment that one can't really explain in causal terms,
5 but what's the difference between idiopathic and
6 cryptogenic?

7 A. Asking an Australian about Greek and Latin is a real
8 challenge, I think. I think one of them's Latin and one
9 is Greek, I think. Cryptogenic, I think, is Greek which
10 means that the cause is not known. Idiopathic is
11 probably Latin and means the cause is not known, they
12 mean the same thing.

13 Q. We certainly have our own inhouse expertise on the
14 etymology of those two words.

15 A. Was I correct.

16 MS DUNLOP: I am afraid the chairman is shaking his head.

17 THE CHAIRMAN: They are both Greek.

18 MS DUNLOP: The chairman is going to tell us the difference.
19 They are both Greek and they both roughly mean, "We
20 don't know".

21 THE CHAIRMAN: "Cryptos" means you can't find out, it is
22 hidden. "Idio" means it is singular in some specific
23 way.

24 MS DUNLOP: I suppose we can at least see that Dr Forrest
25 has some classical education, that he is freely able to

1 use both. Does it surprise you that he is raising the
2 possibility that the cause is unknown?

3 A. There is an elephant in the room, isn't there? So
4 I would have thought it is all due to Hepatitis C,
5 really. I'm not sure why he is suggesting that
6 Hepatitis C is present but not responsible for the
7 damage. That's not likely.

8 Q. Right. Although you have commented on this in your
9 report, I think we should take today in evidence your
10 comments on the fourth paragraph about interferon.
11 Before doing that, I'm sorry, Dr Mutimer, this is a tiny
12 point but in your report you say:

13 "He suggests the chance of successful treatment was
14 in the order of 20 per cent."

15 But actually he says 25 per cent. Can we just note
16 that, perhaps, before you give your comments on his --

17 A. Yes, I'm not sure why I wrote 20 per cent, if that's the
18 only estimate that Dr Forrest ever gave, then my
19 statement can be corrected, if you like.

20 Q. Right. But could you give us some comment on what he is
21 saying about interferon?

22 A. Say that again, please.

23 Q. Sorry, I just wondered if you could give us your
24 comments on what is in the letter about interferon. You
25 do comment on this in your report and I think you are

1 broadly supportive of the line he is taking. Is that
2 correct?

3 A. Yes. At that time, 1995, the only treatment being used
4 generally for Hepatitis C was interferon. It was a type
5 of interferon that was given by injection three times
6 a week, and the results of treatment were fairly poor.
7 The results of treatment in patients who had more
8 advanced liver disease are inferior to poor. So I think
9 the estimate of 25 per cent was optimistic. I think you
10 said we still don't know the genotype but even with
11 a favourable genotype and with our present treatment,
12 a response rate of 25 per cent would be acceptable. So
13 it was very optimistic back in those days.

14 Q. And Mrs O'Hara is in the category of patients who have
15 established liver disease, so she would be, as it were,
16 poorer than poor, her prospects would be lower than
17 poor?

18 A. Yes, I think so, and I don't think that the data would
19 have existed in 1995 for Dr Forrest to be able to give
20 a more accurate estimate. The studies were not
21 informative really when it comes to treating patients
22 with advanced liver damage, we just knew that the
23 results were inferior, we didn't know how bad they were.

24 Q. Actually he refers also to there being money for a trial
25 at the Royal and the Western, so obviously not Stobhill.

1 So almost as a sort of added consideration, she would
2 have to be referred to one of those hospitals.

3 A. It is an expensive drug and there was very little
4 experience in treating Hepatitis C at that time. So it
5 was probably policy in many larger cities to try and
6 focus the expertise in one or two centres rather than to
7 have every hospital trying to provide the service. So
8 I'm not surprised that that was the situation in 1995.

9 Q. I don't need to take you to it but pages [\[OHA0011045\]](#)
10 and [\[OHA0011049\]](#) show that Mrs O'Hara had ultrasound
11 examination after this and there were two varices.
12 I think actually in the two previous patients on whom
13 you have commented, varices were a finding and our
14 understanding is that these are almost like a sort of
15 internal varicose vein --

16 A. Yes.

17 Q. -- in the liver.

18 A. Yes, the varices would indicate that the patient -- when
19 taken with all the other evidence that we have seen,
20 would indicate that the patient has cirrhosis due to
21 Hepatitis C, that she has high pressure behind the liver
22 as a consequence and that these varicose veins, which
23 are potentially in all of us, have now, because of the
24 pressure, swollen up and are visible.

25 Q. Just before we leave the letter, it looks like he has

1 read the biopsy report but from the end of the letter he
2 hasn't looked at the actual biopsy, and he is saying
3 that's what he is going to do:

4 "I will arrange to review her liver biopsy."

5 It is October 1995.

6 A. Yes, that would be an acceptable practice, to review the
7 biopsy in your own meetings with your own pathologist so
8 that you could come to a conclusion about the severity
9 of the inflammation and convince yourself that you agree
10 with the diagnosis that was made at the other hospital.
11 So it is not essential but that's actually very good
12 practice, I think.

13 Q. Yes. I think everybody is in Stobhill actually at this
14 point, Dr Mutimer. Can we look at [\[OHA00011008\]](#). This
15 is March 1996 and this is Dr Bong writing from Dr Dunn's
16 team saying that Mrs O'Hara has been seen
17 in February 1996 the cardiologists are under
18 the impression that:

19 "She may be called back for further biopsy to see if
20 there is any evidence of ongoing hepatitis. We would be
21 most grateful for your advice."

22 So he or she is alluding to Dr Forest's review
23 in October and asking, in March of the next year, if
24 there is going to be a further biopsy. I should say that
25 someone has written "Review liver biopsy" on it and then

1 "Notes". Then [\[OHA0011012\]](#). This is May 1996.
2 Dr McLaren is writing from the diabetes side of things
3 saying:
4 "You may remember Dr Bong wrote to you in March
5 about whether this patient required a repeat liver
6 biopsy. I saw her at my clinic, she said she had not
7 heard anything from you. I'm enclosing her case notes
8 in case she could have got lost in the system."
9 Then [\[OHA0011017\]](#), July 1996. This is from
10 Dr Forrest and it looks as though the handwriting that
11 we saw on the previous letter saying "review liver
12 biopsy" and "notes" is the same handwriting as the
13 signatory of this letter, but this is Dr Forrest
14 replying to Dr McLaren.
15 A. I don't have that page yet.
16 Q. Sorry, I'll wait.
17 THE CHAIRMAN: Ms Dunlop, if you are contemplating a break
18 at any point.
19 MS DUNLOP: If we look at this one, and in a nutshell,
20 Dr Mutimer, this letter is really saying the same as
21 Dr Forrest had said in the previous year, isn't it?
22 A. I think where my figure of 20 per cent came from.
23 Q. Right.
24 A. It is interesting that the paragraph starting:
25 "The other problem is that the Trust will not pay

1 for this treatment ..."

2 In retrospect I think the patient was probably lucky
3 that she didn't receive the treatment. I suspect that
4 she would have had a lot of side effects and no success
5 from the treatment.

6 Q. Right. So it is not as though there would be any
7 difficulty with her being, as it were, a Stobhill
8 patient, in inverted commas, because Dr Forrest has
9 spoken to the gastroenterologist. I think this probably
10 means the gastroenterologist at the Western Infirmary,
11 and he has indicated his willingness to see any patients
12 from Stobhill. We don't really learn quite why it is
13 that the Trust wouldn't pay. Do you think that might be
14 something to do with how --

15 A. From the previous letter, I think this was a new
16 treatment and it looked to me as if there was an
17 investment in funds but focused on a couple of
18 specialist centres. So if this patient was not going to
19 receive interferon, then it looks like the
20 gastroenterologists at Stobhill would be quite able to
21 continue her entire management at that hospital.

22 Q. Can we just flip over and look at the end of the letter,
23 just to see. Dr Forrest is saying that he doubts very
24 much if she is a candidate for interferon. I think we
25 can detect from everything you have said that you would

1 agree that that's a reasonable view.

2 A. Yes, it is and I suspect that the product sheets for
3 interferon back then also had, as a caution, patients
4 with cardiac disease. That may also have influenced his
5 thinking about her suitability.

6 Q. Right. It does still look as though Dr Forrest hasn't
7 seen Mrs O'Hara, doesn't it?

8 A. Yes, it does.

9 Q. It looks like more of a desktop review, if you can say
10 that in medicine.

11 A. Yes, I think he has looked at the file, he has given it
12 thought, his planning management is appropriate but he
13 has not seen the patient.

14 Q. Perhaps all that might be missing is the chance for the
15 patient herself to discuss the illness and the reasons
16 why treatment isn't suitable with the expert. Is that
17 fair?

18 A. Exactly, yes, I think so. I think Dr Forrest had the
19 local expertise and I suspect that the patient and
20 family were pining for more information about what the
21 implications were. So that would be good practice, to
22 see them and discuss that.

23 Q. If we look at [\[OHA0011020\]](#), that is just the end of this
24 little chapter. Having received that letter from
25 Dr Forrest, Dr McLaren wrote to Mrs O'Hara and told her

1 the blood are at a reduced number. Both of those are
2 observed in patients with cirrhosis.

3 THE CHAIRMAN: I think Dr Mutimer may have defined
4 leukopenia and not neutropenia.

5 MS DUNLOP: Sorry, doctor, it was neutropenia. Is that
6 a subset of --

7 A. Yes, it is, that's right.

8 Q. Yes.

9 A. It has the same significance, so patients with cirrhosis
10 frequently have leukopenia, including neutropenia, and
11 they suffer with thrombocytopenia.

12 Q. Right. Neutrophils are one type of white cells. Is
13 that right?

14 A. That's correct.

15 Q. And we see a recital of the symptoms she has:
16 Hepatosplenomegaly, presumably secondary to Hepatitis C?

17 A. Yes.

18 Q. And then OHA0012440, just over the page, and indeed
19 this is a haematologist saying that these symptoms are
20 due to the hepatitis infection and the enlarged spleen
21 and that she is also a bit anaemic, and then there is
22 going to be an endoscopy. Are they looking for the
23 varices here or could there have been other bleeding,
24 other than varices?

25 A. They would be looking for a cause of blood loss. Just

1 looking at the second page of the letter, the
2 haematologist thinks that the patient is iron-deficient,
3 which means there is likely to be some chronic blood
4 loss. That can be due to the portal hypertension, it
5 can be due to the cirrhosis. It is appropriate that she
6 has an endoscopy for two reasons. One is to see whether
7 the varices are present and if they are small or large,
8 and at the same time the endoscopist can look around the
9 stomach to make sure that there is no additional cause
10 of blood loss, like a stomach ulcer or a stomach cancer.

11 Q. If we go to [\[OHA0012249\]](#), this is just perhaps worthy of
12 note because it is another example, or it is an example,
13 of Mrs O'Hara asking for information. Do you see that
14 in the middle of the letter, doctor? She has attended
15 the gastroenterologists in the past, she was once again
16 enquiring about the possibility of interferon therapy
17 for her Hepatitis C. She had read a recent article in
18 the newspapers about this.

19 The haematologist has seen, from the notes
20 presumably, that she was considered for this but is
21 perhaps deferring to the gastroenterologists and saying
22 to the GP, "Well, if you want gastroenterological input,
23 you can refer her."

24 A. Yes.

25 Q. And there isn't actually any trace of that having

1 happened around that time.

2 Now, can we move to [\[OHA0012156\]](#), please? We have
3 moved quite a bit further forward, to March 2003, and
4 this is a letter from a Dr Milburn, general
5 practitioner, and this is something you refer to in your
6 report, that Dr Milburn is sending Mrs O'Hara to
7 Stobhill, and there is a list of her difficulties, but
8 at the moment the problem is that she has right
9 hypochondrial pain. So where was she sore?

10 A. She is sore under the ribs on the right-hand side.

11 Q. And the other thing perhaps to note from this letter is
12 that the GP is saying her liver function tests were
13 normal for her. In absolute terms, are these, what,
14 only mildly abnormal?

15 A. Yes, they are only mildly abnormal.

16 Q. And then can we just look at the second page,
17 OHA0012157? The GP is asking for an urgent
18 appointment and thinking about an abdominal ultrasound.
19 We then go to [\[OHA0010844\]](#). This is 31 March. There
20 has been a CT scan and there is severe pancreatitis, so
21 inflammation of the pancreas. Is that correct?

22 A. Yes, that's right.

23 Q. Is this showing quite a significant degree of
24 abnormality, doctor?

25 A. We are looking at the CT scan --

1 Q. Yes.

2 A. -- dated 31 March, and the scan shows what we already
3 knew, that the liver and spleen were enlarged. We
4 already knew that the patient had varices. Some of
5 those would be visible with the endoscopy, some of them
6 would not be visible but would show up on the CT scan.
7 So that's not surprising.

8 There is no evidence of a pancreatic mass. Moderate
9 amount of ascites. No other abnormality. And that's
10 about all. So it doesn't really tell us what the cause
11 of her abdominal pain is.

12 Q. The reference to the varices entwining around the
13 pancreas, does that contribute to the pancreatitis or is
14 that just incidental?

15 A. No, it doesn't, it would not cause pancreatitis. The
16 head of the pancreas sits really very close to the
17 undersurface of the liver, and the dilated veins, the
18 varices which can form, frequently form extensively in
19 that area. So they don't cause pain, they don't cause
20 pancreatitis. So it is not a surprising appearance and
21 I don't think we have a diagnosis of pancreatitis from
22 that scan.

23 Q. Right.

24 A. This could all just be cirrhosis and the patient may
25 have developed ascites due to that.

1 Q. But clinically we can see that there is said to be
2 severe pancreatitis. That's just in the clinical
3 history part.

4 A. Yes.

5 Q. And that is the explanation for the pain under the ribs
6 on the right-hand side, is it?

7 A. That would be sufficient explanation.

8 Q. And we know that there was an attempt made to treat
9 gallstones but we have Mr Robertson coming this
10 afternoon, and since it was Mr Robertson who tried to do
11 this, we will ask him about that.

12 But perhaps we can just take this reasonably
13 briefly. We should go back to your report here,
14 [\[BLA0012298\]](#), and you deal with this period in the
15 middle of page BLA0012300.

16 A. Yes. It is a fairly brief summary of what was a very
17 difficult and complicated admission.

18 Q. Yes. You see that there was the pancreatitis and the
19 attempt to clear the stones -- the stones were causing
20 the pancreatitis, or at least that was the theory, was
21 it?

22 A. Yes, that's right. Probably the most common cause of
23 pancreatitis in a patient of this age would be
24 gallstones and I think that the scans had shown that the
25 patient suffered with gallstones. If it is a very

1 severe and prolonged episode of pancreatitis, then it is
2 the frequent practice to try and clear some of those
3 stones away from the bile duct.

4 Q. We can ask Dr Robertson about this this afternoon but it
5 does look as though the treatment of the pancreatitis
6 was successful to some extent, but then Mrs O'Hara
7 developed cellulitis. In short, can you explain what
8 cellulitis is?

9 A. Yes, cellulitis is an infection of the soft tissues and,
10 according to my letter, the cellulitis was mainly
11 affecting her lower limbs. I think that in the course
12 of this illness Mrs O'Hara had a lot of problems with
13 fluid retention and that would be manifest in a couple
14 of ways. One would be that she would develop ascites or
15 fluid in her abdomen, which we saw on the CT scan, but
16 in addition to that, the fluid retention is likely to be
17 more generalised and particularly affecting her lower
18 limbs and bottom, and under those circumstances there is
19 a susceptibility to infection because of that swelling
20 of the tissue with fluid. So it looks as if there is
21 the susceptibility and then indeed, unfortunately, she
22 developed infection in those tissues.

23 Q. Just really for the record, can we keep the report,
24 Dr Mutimer's report, but look at [\[OHA0011853\]](#), please,
25 and this section of Mrs O'Hara's records relates to her

1 final illness and she was transferred to the coronary
2 care unit and you say that -- do you say that?

3 A. I don't mention the coronary care.

4 Q. No, you do not but she was transferred to the care of
5 the cardiologists at the beginning of May 2003, and
6 I think actually Mrs Kennedy mentioned that. Just to
7 pick up a couple of points you make in that same
8 paragraph, you say that she had a white cell count --
9 and this is, I think, really very close to the time of
10 her death -- that her white cell count was 40. We can
11 see that on [\[OHA0011862\]](#). Yes, it is about seven lines
12 down on [\[OHA0011862\]](#). Someone has written:

13 "White cell count 40.4."

14 That would seem to be the entry that you are
15 referring to, doctor.

16 A. I'm not sure. Perhaps there was a laboratory record as
17 well.

18 Q. Yes, it's probably that as well. But how is that in
19 absolute terms?

20 A. That's very high. So that would only be seen in someone
21 with very severe infection. In this context that tells
22 you that there is a very severe infection requiring
23 aggressive and prompt treatment.

24 Q. Right. If she didn't have the neutropenia that you
25 referred to earlier, would her white cell count be

1 higher than 40 or is it not a factor?

2 A. It is probably not a factor. 40 is extremely high. We
3 probably wouldn't distinguish between the benefits of
4 having a count of 40 or a count of 45 or 50. I think it
5 is just telling you that there is a very, very serious
6 infection.

7 Q. What should it be? What's normal?

8 A. This was a total white cell count, I think, so the
9 normal value would be about 5.

10 Q. Something else you say is that her liver function tests
11 remained remarkably good, and I think we should just
12 have a look at some of those results from May.
13 [\[OHA0011546\]](#), please. That's 4 May, and we can see from
14 about half way down the page there is:
15 "Alkaline phosphatase 252."

16 A. Right.

17 Q. Have you got that?

18 A. I have got a blood count and biochemistry. I will have
19 to magnify this:
20 "Alkaline phosphatase 252."
21 I can see that:
22 "Bilirubin +65."
23 I think the plus simply means that the value of 65
24 is elevated, above the reference range.

25 Q. Just to look at the strip, the laboratory has, as the

1 third column, as it were, what I take to be its own
2 reference measurements for normal, does it?

3 A. Yes, the reference is in the same column as the
4 chemicals. So bilirubin 3 to 20 means that's the normal
5 reference range. So 65 is elevated. That would
6 represent a patient who is developing jaundice.

7 Q. Right. And the same with AST and ALT. They have both
8 been --

9 A. That's correct, they are both elevated.

10 MS DUNLOP: Right.

11 THE CHAIRMAN: Is the albumin record significant in any way?

12 A. Yes, it is. This blood test was done on 4 May, I think,
13 which was about five or six weeks after admission to
14 hospital, and that would be a value which would probably
15 be very typical of a patient with severe pancreatitis.
16 So it doesn't necessarily implicate the liver. It's
17 also a hard value to interpret because the person may
18 have been administered intravenous albumin solution
19 solutions. So it makes it difficult to interpret, but
20 typical of someone with severe pancreatitis, who is
21 still unwell in hospital six weeks later.

22 Q. Can we look at the following day, [\[OHA0011543\]](#). We have
23 to go back and find the following day. The same
24 exercise, doctor. I suppose a similar picture,
25 unsurprisingly, is it?

1 A. I have got 1546 still.

2 Q. All right. It's coming. There we go.

3 A. 1543, and the date of this one?

4 Q. 5 May.

5 A. Is it the following day?

6 Q. Yes.

7 A. So the pattern of abnormality is similar. The alkaline
8 phosphatase is a little bit higher, I think, than
9 yesterday's but that doesn't really contribute anything.
10 The CRP is an important result there, if you can see
11 that.

12 Q. Yes, we can see that.

13 A. CRP is what we call C Reactive Protein. It is
14 a chemical that is liberated into the blood in patients
15 who have got serious infections. A value of 126 is not
16 surprising. We know that Mrs O'Hara was suffering with
17 infection and difficulty managing that.

18 Q. Right. And [\[OHA0011540\]](#) is the following day. Do you
19 have that, Dr Mutimer?

20 A. I have got 1543.

21 Q. You will get 1540 in a moment.

22 A. Yes.

23 Q. Yes. It looks as though the AST and ALT have gone up
24 a bit, doesn't it?

25 A. I can't recall the previous day's. It is a test which

1 will fluctuate a little bit from day to day but it is
2 not the way that you would monitor whether the liver was
3 failing or not. The CRP, you can see, is still high,
4 and in fact higher than yesterday, I think, and from
5 memory I think that it has probably risen, despite the
6 fact that the patient most likely was on antibiotics
7 already at that stage.

8 Q. I was just interested, doctor, because you had said in
9 your report that the liver function tests remained
10 remarkably good. I mean, is there any measurement, or
11 are there any measurements, in particular that we can
12 see on these strips that tell us that?

13 A. Yes, I was thinking more of this set of blood tests that
14 was done in the few days leading up to the patient's
15 death, but if you have got a patient with cirrhosis of
16 the liver who develops a serious problem elsewhere, like
17 a pancreatitis or any other serious non-liver illness,
18 then probably the best way to see whether the liver has
19 sufficient strength to cope with the stress is to look
20 at the serum bilirubin, which we discussed, and also the
21 INR, which is a reflection of the blood clotting. The
22 point that I make in my report is that it is really only
23 at the very end that the bilirubin started to go up and,
24 similarly, the prothrombin time, or the INR, is affected
25 by the warfarin. They had to stop the warfarin but when

1 they did that, the prothrombin time returned almost to
2 normal values.

3 So her liver was coping remarkably well during the
4 first weeks of this really very serious illness, which
5 indicated to me that if she had not developed this
6 serious illness, the liver still had significant mileage
7 left in it.

8 Q. I thought I had found the prothrombin time, Dr Mutimer,
9 but in view of what you have said, I may be looking at
10 it too late. There is a value for 1 May on
11 [\[OHA0011586\]](#).

12 A. I haven't recorded the exact date of stopping the
13 warfarin in that record. That's important to know if we
14 are going to interpret the prothrombin time.

15 Q. I see. I don't want to take up unnecessary time at the
16 moment, doctor. Perhaps we can look in the records and
17 find measurements slightly earlier than May. You think
18 it would be more reliable to look at measurements
19 in April or measurements after the stopping of the
20 warfarin really?

21 A. I have got a result. Prothrombin time. Is that 1 May,
22 I think?

23 Q. Yes, that's 1 May.

24 A. It says 85 seconds. I think that that was taken while
25 the patient was on warfarin.

1 Q. Perhaps we can then look at [\[OHA0011590\]](#)?

2 A. It would be subsequent measurements, I think, that --

3 Q. We have that. 1590. This is, I suspect, the last

4 measurement. This is up at 99.

5 A. That's on 7 May.

6 Q. Yes.

7 A. I think that's -- that's an agonal result really.

8 That's with the patient almost passed away. So it would

9 be the sequence of values that I have looked at during

10 the entire course of the admission and then looked at

11 those with reference to the patient taking warfarin or

12 not. So my impression of those results was that the

13 liver managed really remarkably well in the early

14 phases, despite the severity of the pancreatitis.

15 Q. Can we just look at the page before that, please,

16 [\[OHA0011589\]](#)? I think actually there, doctor, that may

17 be a much better way of making your point, that on

18 6 May -- I think this is the 6th -- sorry, 3 May -- the

19 time is 33 seconds.

20 A. 13?

21 Q. No, 33, if you have got it. Maybe you haven't got it

22 yet. 1589.

23 A. Yes. That's very prolonged. I apologise, I must have

24 been referring to the results earlier than that.

25 Q. Right. Quite a bit less, though, than the following

1 day, if it is 33 on 6 May and then 99 on 7 May. You
2 suggest that the 99 is an agonal result?

3 A. Yes, I think so, the patient was so seriously ill on
4 7 May, I think, that it wouldn't have mattered what you
5 tested, it would have been terribly abnormal on that
6 date.

7 Q. The only other thing I want to look at, doctor -- and
8 this is, I suppose, rather a change of subject, but if
9 we go to [\[OHA0012113\]](#), can we just flick through this,
10 please? We don't need to read it but just to see what
11 it is. It is a patient's guide to the management of
12 diabetes. That's the contents page.

13 Sorry, we had better wait. Dr Mutimer, I'm sure,
14 hasn't even got it. Do you have the diabetes booklet?

15 A. Not yet.

16 Q. Right. I'm being advised, Dr Mutimer, that you should
17 flick through this booklet yourself at your end. A good
18 page to look at is the contents page, which is 2115.

19 A. All right. What page do I want?

20 Q. I was looking at the contents page, which is 2115.

21 THE CHAIRMAN: 28 of 316.

22 MS DUNLOP: Oh, yes, 28 of 316. Does that help?

23 A. It will help. Contents? I have got that, yes.

24 Q. People with diabetes get this booklet and it gives them
25 dietary advice, a treatment record, annual review,

1 notes, questions and answers, and actually I think, if
2 you study this booklet, there is some contribution from
3 a pharmaceutical company.

4 Now, of course, diabetes is a completely different
5 illness but are there comparable documents about
6 Hepatitis C; in other words, good patient information
7 booklets/leaflets?

8 A. There are good information booklets and leaflets, and
9 probably a million websites as well, which are of
10 variable quality. So there is plenty of information
11 there. Most outpatient departments these days in
12 gastroenterology or hepatology would have some useful
13 booklets, perhaps from the British Liver Trust on
14 Hepatitis C, or useful booklets that are actually
15 manufactured with the help of the pharmaceutical
16 industry as well. So there are a lot of resources
17 there.

18 Q. Was that true in the mid 1990s or to a lesser extent?

19 A. No.

20 Q. No?

21 A. A much lesser extent.

22 Q. Right. So was the patient then more dependent just on
23 getting information from the doctor?

24 A. Yes, and I think most GPs would have very little
25 knowledge of hepatitis. So it would be specialist

1 knowledge that they would be looking for.

2 Q. Right. Now, Dr Mutimer, just finally can we go back to
3 your report, please? Thank you, I can see it appearing.
4 You were asked to consider, and you have considered,
5 the cause of death. At this point I think I would like
6 you to look at the death certificate. Keep your report
7 but look at the death certificate as well, which is
8 [\[OHA0012641\]](#).

9 Now, under, "Cause of death" -- do you have the
10 death certificate in front of you?

11 A. Not yet.

12 Q. Not yet, right.

13 A. Yes, I do.

14 Q. Right. Do you see that there are three causes listed:
15 hepatic failure, septic shock and mitral valve disease.
16 I suppose the first thing one notices -- and Mrs Kennedy
17 made this point -- is that Hepatitis C isn't mentioned.
18 Would you expect it to be mentioned?

19 A. Yes, it is a cause of the liver disease, so if the liver
20 failed, then it would be appropriate that Hepatitis C is
21 listed on the death certificate.

22 Q. Right. It would be "appropriate" -- do you think it
23 should have been listed?

24 A. Yes, I do.

25 Q. Right. I accept that you are only reviewing the notes

1 but do you think there is anything else that you would
2 have put on or would you change it in any way?

3 A. I think that pancreatitis seems to be missing as well.
4 This patient ultimately -- her final illness was due to
5 severe pancreatitis. At the end of that illness -- and
6 fairly typical of very severe pancreatitis -- the cause
7 of death was infection. That would be very typical of
8 severe pancreatitis. The ability to cope with an
9 illness of this severity would be affected by the fact
10 that the patient has cirrhosis, and the cause of the
11 cirrhosis is Hepatitis C. So the liver was not the
12 cause of the final illness but it probably affected her
13 potential to survive this illness, but I can't say to
14 what extent because patients with normal livers die of
15 severe pancreatitis in this sort of setting.

16 Q. Right. So in your report, where you say, "Cirrhosis may
17 have contributed to her eventual demise," do you think
18 that really one could say it did, it will have
19 contributed? Or do you want to stay with, "May have
20 contributed"?

21 A. I think "may" means a better than 50 per cent chance
22 that it contributed but, as I said -- you will be
23 talking to an expert in pancreatitis and this type of
24 illness later but I think he will say to you that the
25 severe pancreatitis in a patient aged 72 is associated

1 with significant -- severe morbidity and with mortality,
2 and that can be observed regardless of the presence or
3 absence of cirrhosis. I think that the cirrhosis may
4 have contributed to the fact that this patient did not
5 survive the illness.

6 Q. To turn the page, if we could, please, you say:

7 "It is likely that she had Hepatitis C infection."

8 Can I take it that now, having seen the PCR result,
9 you would be willing to say that she did have
10 Hepatitis C infection?

11 A. Yes.

12 Q. "And the conflicting antibody tests are difficult to
13 reconcile."

14 I expect you are still of the view that the test
15 performed in 1990 was a false negative?

16 A. Yes.

17 Q. Is that fair? Right. And you say:

18 "Blood transfusion may have been the source of
19 Hepatitis C. It is also possible that the infection,
20 though nosocomial was not a direct result of
21 transfusion."

22 You had better explain nosocomial, doctor, or is
23 that another classically-derived term?

24 A. Yes, I have used it so I can explain it. I think I made
25 the point with one of the other patients as well that

1 infections can be acquired in hospital, it is not just
2 from blood transfusion, and that includes Hepatitis C.
3 So we see people who have acquired Hepatitis C without
4 ever having received a transfusion but who have had
5 complex and difficult medical problems over a long
6 period of time. With them it is likely that they
7 somehow come into contact with it in the hospital
8 setting. So "nosocomial" refers to that.

9 So the blood may have been the source of Hepatitis C
10 infection, we can't be certain. It is most likely but,
11 with so many and such complex past illnesses, the
12 hospital setting, including the blood transfusion, is
13 likely to have been the source of her infection.

14 Q. If I could press you and say, within the hospital
15 setting, is blood transfusion as a whole more likely
16 than some other mechanism?

17 A. At that time it probably was.

18 Q. Right. We now know, having looked at the records, that
19 there seems to have been a transfusion in the 1960s, one
20 in 1972, one in 1979 and one in 1985. Are you willing
21 to give your opinion in all the circumstances of
22 Mrs O'Hara's case as to the most likely candidate out of
23 those?

24 A. Just looking back at my own report, I thought that the
25 transfusion in 1963 -- we don't know if she had

1 a transfusion in 1963, and in 1963 the frequency of
2 Hepatitis C in the blood donor pool was probably
3 incredibly low, so I don't think it would have been
4 1963. We know that in 1984 --

5 Q. 1985.

6 A. -- she already had abnormal liver function tests and
7 I suspect it was Hepatitis C. So perhaps the
8 transfusions in 1985 and 1991 are unlikely, in that
9 Hepatitis C was probably already present.

10 Which means 72 and 79, and perhaps the risk then was
11 proportional to the magnitude of the transfusion. So
12 there was one unit in 1972 and two units in 1979. So
13 perhaps Sherlock Holmes might decide on 1979.

14 Q. Thank you, doctor. I appreciate that it's never going
15 to be possible to know.

16 Just finally, you say, before listing the documents
17 you have seen, that it seems unlikely that Hepatitis C
18 infection made a major contribution to shortening this
19 lady's life. Having looked at things again and looked
20 at the medical records and the whole history again, is
21 that still your view?

22 A. Yes, it was certainly my view after going through all of
23 the records. What we didn't discuss was the segment in
24 my report that just tries to come to grips with what
25 sort of health she had in the years between 1999 and

1 2003, and I can only have an impression. I never saw
2 the patient, of course, but it was my impression that
3 her health was not very good at that stage and that
4 there was diabetes, there was possibly additional
5 cardiac problems, possibly angina. So it is difficult
6 in that setting to say what her prognosis would be if
7 she did not have cirrhosis of the liver.

8 On balance, I think that her life expectancy was not
9 long because of those issues. The Hepatitis C and the
10 cirrhosis may have shortened her life.

11 Q. Yes. I'm sorry, Dr Mutimer, I was actually saving some
12 of that material for the cardiologist to look at but
13 there certainly is some reference in the records to
14 cardiac problems.

15 A. But it does explain how I came to that conclusion,
16 though.

17 Q. Right. Thank you. Thank you, doctor. I have no
18 further questions.

19 THE CHAIRMAN: Mr Di Rollo?

20 MR DI ROLLO: Sir, there is just one matter I wanted to ask
21 in relation to the death certificate.

22 Dr Mutimer, it is Simon Di Rollo on behalf of the
23 family. I just want to ask you one question in relation
24 to your evidence about the death certificate. You
25 indicated that Hepatitis C should have been recorded as

1 a cause of death.

2 A. Yes. You just need to remind me of the organisation of
3 the certificate, please. What should be 1A and what
4 should be in 2? 2 is contributing causes, I think. Is
5 that correct?

6 Q. I think that's correct, yes.

7 A. So I think the cause of death then, to be clear, was the
8 -- the immediate cause of death was sepsis, the sepsis
9 was due to the pancreatitis, I think, and the
10 contributory causes, I think, to her death include the
11 cirrhosis, which was due to the Hepatitis C.

12 Q. And that should have been recorded on the death
13 certificate, you have explained.

14 A. That's my understanding. The cirrhosis was relevant and
15 the cirrhosis was due to the Hepatitis C.

16 THE CHAIRMAN: You have said, "That's my understanding."
17 I'm slightly concerned, Mr Di Rollo, that Dr Mutimer may
18 not in fact be necessarily the best person to talk about
19 what should go in a Scottish death certificate.

20 A. That's it.

21 THE CHAIRMAN: I think that's what he may have been telling
22 us. Is that the position?

23 A. Yes, I think I would accept that if I had been filling
24 it out, I would have put cause of death as sepsis due to
25 pancreatitis, and the contributing causes here were the

1 cirrhosis, which was due to the Hepatitis C -- and
2 probably diabetes as well.

3 THE CHAIRMAN: So, looking at your professional opinion,
4 those are the factors that caused or contributed to
5 death, irrespective of how you fill out forms in
6 Scotland?

7 A. Yes, that's a fair way of saying it.

8 THE CHAIRMAN: You are concerned?

9 MS DUNLOP: Sorry, sir, I don't want to interrupt but I am
10 holding in my hand notes on how to fill in death
11 certificates, which we do have. They date
12 from January 1999. I don't think we put this into the
13 court book. Not everything is in court book. But we
14 could let my learned friend read it over lunch, if that
15 would help.

16 THE CHAIRMAN: That would help. My only concern is that we
17 don't have Dr Mutimer being led up a blind alley by
18 asking about filling out forms, when his area of
19 expertise is to address what caused the death,
20 Mr Di Rollo.

21 MR DI ROLLO: The question that he was asked before was --
22 and he agreed with the proposition -- that the
23 Hepatitis C should have been entered on the death
24 certificate as a cause of death. He agreed with that
25 proposition. All I was seeking to do was to ask him to

1 explain why he thought that was the case. That's all.
2 Now, if he is not someone that we should be asking
3 that, then I'm content with that.
4 THE CHAIRMAN: You see that the form is headed up,
5 "Registration of Births, Deaths and Marriages Scotland
6 Act 1965," and I'm most unlikely to examine Dr Mutimer
7 on his knowledge of the Act or the requirements under it
8 for the completion of death certificates, Mr Di Rollo.
9 I merely ask you whether it is enough to stick to his
10 area of expertise and not go up blind alleyways. You
11 might have to tell me what you think the 1965 Act
12 requires, but Ms Dunlop is going to help you over lunch.
13 MR DI ROLLO: I don't think there is any point in discussing
14 the matter any further at the moment anyway.
15 THE CHAIRMAN: We can discuss it in due course.
16 Mr Anderson?
17 MR ANDERSON: I have no questions, thank you, sir.
18 THE CHAIRMAN: Mr Sheldon?
19 MR SHELDON: No, thank you, sir.
20 THE CHAIRMAN: Dr Mutimer, I don't know whether you are
21 being brought back after lunch or not.
22 MS DUNLOP: No.
23 THE CHAIRMAN: No? Thank you very much indeed.
24 MS DUNLOP: I hadn't planned to, sir.
25 THE CHAIRMAN: You hadn't planned to? Thank you very much

1 indeed.

2 MS DUNLOP: In fact that is the end of Dr Mutimer's
3 involvement. So after three days of having to give
4 evidence by videolink, he is free now. He's a free man.

5 THE CHAIRMAN: Then, Dr Mutimer, I can thank you very much
6 indeed and I'm sure that Oliver James would want to
7 acknowledge your departure also.

8 PROFESSOR JAMES: Thank you very much, David.

9 A. Okay, it's a pleasure. Thank you.

10 THE CHAIRMAN: After lunch.
11 (12.50 pm)
12 (The short adjournment)
13 (2.00 pm)

14 THE CHAIRMAN: Ms Dunlop, before we start, Mr Di Rollo and
15 I got out of sync this morning and I have taken the
16 opportunity to ask Professor James over lunch whether
17 there would have been any difference between Scots
18 practice and English practice in the recording of
19 material on a death certificate, and I'm told there
20 would not. The net result of that is, I think, that
21 Dr Mutimer's advice that he would have put "sepsis due
22 to pancreatitis", as the cause of death, and a list of
23 other factors that he mentioned would have gone in part
24 two as contributory factors.
25 If that's as you understand it, then that can be

1 recorded and that will deal with the matter as a matter
2 of evidence. Is that acceptable?

3 MR DI ROLLO: I'm grateful to you for that, sir, thank you.

4 MS DUNLOP: I perhaps should mention, sir, that there is
5 another letter to come, which touches on this. We will
6 come to it later. It is a letter from Dr Petrie,
7 a consultant cardiologist, but who was a registrar in
8 the unit at the time, and he has contributed a paragraph
9 on the cause of death and what he would have put on the
10 death certificate, but perhaps we can just see that in
11 its place when we come to that later.

12 THE CHAIRMAN: Yes, we can do that.

13 MS DUNLOP: The next, witness, sir, is Dr Kevin Robertson.

14 DR KEVIN WILLIAM ROBERTSON (sworn)

15 Questions by MS DUNLOP

16 THE CHAIRMAN: Sit down if you would like.

17 A. Thank you.

18 THE CHAIRMAN: Ms Dunlop?

19 MS DUNLOP: Good afternoon, Dr Robertson.

20 A. Hello.

21 Q. Hello. Your full name is Kevin Robertson. Is that
22 correct?

23 A. Kevin William Robertson, yes.

24 Q. Thank you. And you are a consultant surgeon. You are
25 now at Crosshouse Hospital. Is that right?

1 A. I was a consultant surgeon while working in Stobhill in
2 2003. I'm working as a speciality doctor at present at
3 Crosshouse.

4 Q. Sorry, what are you doing in Crosshouse?

5 A. General surgery.

6 Q. Right. With what particular specialism?

7 A. I guess I would still be considered upper GI and
8 pancreatico-biliary surgery.

9 Q. I'm not sure everybody can hear you.

10 A. Shall I say that again?

11 Q. Perhaps you had better.

12 A. Sorry. General surgery is my major remit but I would
13 have an interest in upper GI and pancreatico-biliary
14 surgery.

15 Q. Right. So I think we will take it a little further.
16 I'm not sure the microphone is working terribly well but
17 we will carry on as we are going.

18 I just wanted to clarify that a little bit because
19 you said there was a difference between when you were at
20 Stobhill and what you are doing now at Crosshouse. Is
21 it more just a difference of terminology in your job
22 description?

23 A. Yes, I think it relates more to the job description than
24 to what my interests and surgical training are.

25 Q. Right. Because when we have read the material from

1 Stobhill that relates to Mrs O'Hara, we see you in your
2 capacity as an upper GI specialist and it may be that
3 you weren't formally described as that then, or am
4 I getting it wrong?

5 A. I was appointed to Stobhill Hospital as a consultant
6 general surgeon with an interest in upper GI surgery.

7 Q. So basically that's what you do and you continue to do?

8 A. Yes.

9 Q. Right, thank you. I should just ask you for the record
10 when you qualified in medicine?

11 A. 1988.

12 Q. Right. Where did you study and where did you train?

13 A. I studied at Glasgow University and trained chiefly in
14 the West of Scotland and latterly in Sydney, Australia.

15 Q. Thank you. While you were working at Stobhill, you
16 looked after a lady, Mrs Eileen O'Hara?

17 A. That's correct.

18 Q. And we are enquiring into Mrs O'Hara's death in the
19 Inquiry today.

20 The first document I would like you to look at is
21 [\[OHA0011451\]](#), and that should appear on the screen in
22 front of you. I'm sorry, there is a better copy of this
23 but it may be it has a different number. I thought this
24 would be the better copy. Something has gone wrong in
25 the scanning but -- perhaps if we don't --

1 THE CHAIRMAN: I'm not sure it is going to be difficult.
2 I think you can read through it.

3 MS DUNLOP: You can read it but it was just for the
4 appearance of it, we did try to do something about that,
5 and there is a better copy somewhere but perhaps we can
6 persevere for just now. But this is a letter that you
7 wrote in May 2003 to a general practitioner in
8 Springburn. Is that right?

9 A. That's correct.

10 Q. And it is about Mrs O'Hara?

11 A. Yes, that's correct.

12 Q. We can actually see from the section at the end that in
13 this letter to the GP, you have charted the course of
14 her illness between 26 March and 7 May, and that
15 included the last phase of her illness when she was
16 cared for in the coronary care unit. Is that correct?

17 A. Yes, I have indicated the duration of her admission and
18 also included the discharge, which I have noted as being
19 on 7 May, and that she died.

20 Q. But perhaps strictly speaking you weren't responsible
21 for her care when she was in the coronary care unit. Is
22 that correct?

23 A. Yes, that's correct, yes.

24 Q. Right. But you wrote the whole letter really because
25 you would always report back to the GP. Is that right?

1 A. Yes, you could make an argument, I guess, that I could
2 have entered her time of discharge as being the time she
3 was no longer under my care, but that seems
4 inappropriate.

5 Q. If we look at the first paragraph of the letter, you say
6 that she had epigastric pain and vomiting and her
7 amylase had been 700 and then had risen to 1200. Is
8 that seriously abnormal?

9 A. Yes, I can't recall offhand at that time what the upper
10 limit of normal in Stobhill was but it would either have
11 been 100 or 200. Acute pancreatitis is normally
12 considered to be present with the symptom complex and an
13 amylase of three times or more greater than the upper
14 limit of normal.

15 Q. So is that actually specific for pancreatitis?

16 A. It is not absolutely specific and that's why I say that
17 it must include an appropriate symptom complex. For
18 instance, amylase is also produced in the salivary
19 glands. So mumps can cause it to be elevated.

20 Q. And she had--

21 A. Cholelithiasis.

22 Q. I think I need to practise that a bit. Is that
23 gallstone disease?

24 A. I'm not quite sure where we are in the letter. She had
25 gallstones present in her gall bladder. She has

1 cholelithiasis, which is gallstones in the gall bladder.

2 Q. It was cholelithiasis that I was trying it look at in

3 line 5. You say she became pyrexial and Mr McMahon had

4 asked if you would become involved in looking after her,

5 and you say you initially tried to manage her

6 conservatively and reduce her INR. What's her INR?

7 A. It stands for international normalised ratio. It is

8 essentially an indication of how easily the blood clots.

9 INR is normally measured for patients who are taking

10 warfarin medication.

11 Q. What was the thinking here?

12 A. Her INR, I believe, was elevated when I first saw her.

13 My intention was that she proceed towards the ERCP, an

14 endoscopic sphincterotomy I mentioned at the end of that

15 paragraph. That's a procedure that can be associated

16 with bleeding and I wanted her INR to be addressed

17 before that was performed.

18 Q. We know actually, Dr Robertson, from having looked at

19 her medical records, that she was on warfarin. I take

20 it that that would be because of having had heart valve

21 replacement?

22 A. Yes, that would be a good indication to take the

23 medication.

24 Q. Right. You managed to stabilise Mrs O'Hara's condition

25 and then you tell us in the following paragraph that

1 anaesthetic advice was that general anesthesia was not
2 indicated. So how did you do it instead?

3 A. Sorry --

4 Q. The ERCP.

5 A. Yes, because we felt that general anaesthetic was
6 inappropriate, we felt that one of the options for
7 treating her presumed gallstone, pancreatitis, namely
8 cholecystectomy, was inappropriate because that would
9 require a general anaesthetic. ERCP, an alternative
10 approach with sphincterotomy, can be performed under
11 sedation and it was sedation that was used.

12 Q. I didn't quite understand what the thinking was behind
13 the comment that she would be difficult or impossible to
14 wean from the ventilator?

15 A. I think, in fact, one of my anaesthetic colleagues has
16 documented that at one point in our notes. I can find
17 a reference to that if you wish, but essentially what it
18 means is that having induced a situation of artificial
19 respiration to allow the surgery to be performed, part
20 of that would include muscle relaxation, so the function
21 of breathing is actually taken over by the ventilator
22 machine. Sometimes it can be difficult to reverse that
23 process for patients.

24 Q. What is it that can cause that difficulty in reversing
25 the process?

1 A. Erm.

2 Q. To make the question a little more focused, with
3 somebody like Mrs O'Hara, what would it be that might
4 cause the problem?

5 A. For this lady -- again, if you would wish a particularly
6 accurate answer to that I think you would need to speak
7 to an anaesthetist, but from a general surgical
8 perspective it would be the combination of medical
9 problems that she had. We certainly knew that she had
10 heart valve replacements and significant problems with
11 cardiac function.

12 Q. Right. Actually, I do need to ask you to look at some
13 documents. I apologise to those who haven't been warned
14 of this. I forgot to remind the document team that we
15 need to look at [\[OHA0011455\]](#), please.

16 My understanding is that it actually took you three
17 attempts to deal with the gallstones. Is that correct?

18 A. Three attempts to perform the sphincterotomy, yes.

19 Q. So perhaps you could explain what it was, in terms that
20 we as lay people can understand, that you were trying to
21 do.

22 A. Okay. The supposition for this lady was that the
23 gallstones that she had in her gall bladder, one of
24 those or maybe more had migrated into the bile duct.
25 The bile duct is a structure that connects the liver,

1 essentially, to the gut, and at its lower end it is
2 joined by the pancreatic duct at the ampulla of Vater,
3 an anatomical structure that is a narrowing. And at
4 that narrowing a stone can become impacted and when that
5 happens, it can upset the pancreatic gland, which cannot
6 drain properly causing the pancreatitis. The aim of an
7 ERCP and sphincterotomy was to cut the muscle that
8 causes that narrowing at the ampulla of Vater, and
9 thereby hopefully prevent further stones from causing
10 a similar problem, allowing the stones to drop out into
11 the gut rather than getting stuck at the ampulla.

12 Q. And in the sequence -- this is the first --

13 THE CHAIRMAN: I'm trying to get a little sketch. (Pause)

14 Professor James can give a short explanation that
15 would cover all of this, if it be of any help. I'm not
16 sure it is necessary. As I understand it, what you have
17 indicated is that a stone can escape from the gall
18 bladder, go down to the junction with the pancreas. At
19 that point it can cause a blockage that can cause
20 backing up into the pancreas?

21 A. That's correct.

22 THE CHAIRMAN: So what you are trying to do here is not just
23 attack the stone and break it up, but actually to relax
24 the muscular tension around that point so that further
25 blockages won't happen.

1 A. That's correct.

2 THE CHAIRMAN: Is that ...?

3 MS DUNLOP: Dr Robertson, I was asking you to look at what
4 I think is the note of the first attempt you made, and
5 will you have composed this note or will it have been
6 a junior member of staff?

7 A. I suspect it is me that has written it.

8 Q. And you have recorded that it was ERCP but it had
9 failed?

10 A. That's correct, yes.

11 Q. Can you just, again in terms that we could perhaps try
12 to grasp as lay people, tell us why it didn't work?

13 A. Surely. ERCP is a fairly technical intervention, which
14 does normally have a fail rate. In this patient that
15 risk was much greater because of her acute pancreatitis.
16 That process can cause swelling of the mucosa, the
17 lining of the piece of gut that houses the ampulla of
18 Vater, the structure that I'm trying to operate on. It
19 itself is probably about 5 millimetres across and the
20 opening is about a millimetre or a millimetre and a
21 half.

22 You are approaching that with a metre long scope, so
23 the degree of access is quite difficult. So all in all,
24 it is fairly difficult; made much more difficult in this
25 situation because of the acute pancreatitis.

1 Q. Is this what we would call keyhole surgery?

2 A. No, it is a scope pass by the mouth.

3 Q. Can we then go, please, to [\[OHA0011454\]](#). That's

4 7 April. 1454 is 10 April. Same team. This wasn't

5 entirely successful either, was it?

6 A. No. Again partly for the same reasons, and more

7 importantly here really because we had managed to make

8 a cut into this muscular ring that I'm describing, the

9 sphincter at the bottom of the bile duct or at the

10 junction of the bile duct and the pancreatic duct. But

11 in doing so we had caused what we had feared might be

12 the case, and that's bleeding. That has been treated

13 endoscopically, the 12 millimetres of 1 in 10,000

14 adrenaline is used to partly compress and partly to

15 cause vasoconstriction and hopefully control the

16 bleeding at that site. Because of that bleeding, and

17 I think I have also noted there, because of some

18 respiratory issues as well, the procedure was cut short.

19 Q. And you record that you had an anaesthetist standing by?

20 A. Yes, this was a lady who we knew was going to be

21 difficult to manage because of her co-morbidities and it

22 seemed sensible. Although there are two surgeons noted

23 there, Dr Hoh is a very junior surgeon, who would not be

24 able to do the ERCP procedure. So it is difficult for

25 me to actually do the procedure in a patient who is,

1 while sedated, still conscious, and manage the
2 anaesthetic side of that. So for all of these reasons
3 it seemed sensible to have a consultant anaesthetist
4 available.

5 Q. Right. Then finally, if we look at [\[OHA0011453\]](#), we
6 have you, on 7 and 10 April, making an attempt and then
7 this one, 1453, is 18 April, but I think on this
8 occasion you were successful. Is that right?

9 A. Yes, that's right. I mean -- yes, the hesitation there
10 on my part is that I would suggest that the preceding
11 ERCP had started the process and this is completion of
12 it, rather than one being completely unsuccessful and
13 the last being completely successful. I'm not sure --

14 Q. I'm obliged. So it would be fairer to say that number
15 1, as you have recorded, was a failure, whereas numbers
16 2 and number 3 together achieved the desired result?

17 A. Yes. I mean, ideally it would have been done with one
18 procedure.

19 Q. Right. Can we go back to where we were with the letter,
20 please? So we would now be on [\[OHA0011451\]](#). And we
21 find you reporting all of this at the top of the page,
22 page 2:

23 "At the last of these we were able to confirm clear
24 duct system. It was a difficult time but Mrs O'Hara
25 seemed to be making slow progress."

1 You'd asked for cardiological input and also input
2 from the gastroenterologist in light of her
3 decompensated cardiac and hepatic failure. I just
4 wanted to ask you, doctor, we have seen the word
5 "decompensation" a lot. It might be helpful if you
6 could give us a little bit of an explanation of what
7 doctors mean when they use that term.

8 A. Yes, in this instance we were aware that this lady had
9 underlying liver pathology, namely that she had had
10 Hepatitis C, and also that there was a degree of
11 parenchymal change, probably cirrhosis, related to that,
12 that is identified on the ultrasound scan that she had
13 on her admission. Also we were aware that she had
14 cardiac disease and that her heart function was not what
15 might be expected in a similarly aged person who hadn't
16 had the kind of heart problems that she had had.

17 What I mean by decompensation is that these
18 conditions were normally medically controlled;
19 particularly the cardiac disease would be medically
20 controlled with medications. That control was impaired
21 by her illness and decompensation, to my mind there,
22 means that the hepatic and cardiac failure were less
23 well controlled and therefore the symptoms that they
24 might cause were more manifest.

25 Q. In the next paragraph you say that the good news was

1 that the pancreatitis seemed to resolve but there were
2 numerous other medical problems. You say she developed
3 a tense abdomen. Should the word after "marked" be
4 "ascites"?

5 A. Yes, that's correct.

6 Q. A-S-C-I-T-E-S?

7 A. That's right, yes.

8 Q. And you think that was a combination of decompensated
9 hepatic and cardiac failure and a degree of
10 hypoalbuminemia. So a deficiency of albumin. Is that
11 correct?

12 A. That's correct, yes.

13 Q. Further cardiological and gastroenterological help was
14 received, but then you say she had marked lower limb
15 oedema, particularly severe below the knee and that that
16 caused cellulitis.

17 A. That's correct.

18 Q. We have had some explanation already that cellulitis can
19 occur when there is a problem with fluid management, and
20 the oedema, I take it, is the swelling due to fluid?

21 A. Yes, she would be more at risk of cellulitis. You can
22 have cellulitis for other reasons, a skin cut or
23 something like that can lead to an infection and
24 cellulitis but, yes.

25 Q. Then there was an attempt to treat that with antibiotics

1 but that may have been the cause of a bacteraemia. That
2 is, I take it, a high concentration of bacteria in the
3 blood?

4 A. That's right, yes.

5 Q. You think that could have caused bacterial endocarditis.

6 A. To my understanding that diagnosis was not proven,
7 although, again, the cardiologists that I know you are
8 going to speak to may be better able to speak to that.
9 However, it was raised on more than one occasion by my
10 ITU and medical colleagues as a possible cause for her
11 deterioration.

12 Q. If I tell you that one of the cardiologists involved,
13 Dr Petrie, has recently given his opinion that the
14 cardiologists thought bacterial endocarditis was
15 unlikely, would you defer to them on that?

16 A. Absolutely, yes.

17 Q. And then you say there was the transfer to the coronary
18 care unit and that Mrs O'Hara died on 7 May, and finally
19 you record that she was able to attend her son's
20 wedding.

21 A. Yes.

22 Q. You also provided a more recent report, which is with
23 [\[PEN0100170\]](#), and actually, doctor, I think we have
24 probably covered almost everything that you have set out
25 in this report already. I did want to establish,

1 however, that in your first paragraph, you say you
2 weren't very sure what it was you were supposed to be
3 doing for the Inquiry but I think we have discovered
4 that you didn't receive our letter. Is that correct?

5 A. That's correct. I didn't receive the initial letter,
6 which I think was sent to Stobhill.

7 Q. I think perhaps, doctor, we lost you. We didn't realise
8 that you were at Crosshouse and not at Stobhill. But in
9 any event really, the question that the Inquiry was
10 anxious to put to you was your view about whether you
11 think Mrs O'Hara might have died when she did without
12 having Hepatitis C at the time?

13 A. Right. Okay. I mean, I have formally responded to that
14 in that report, saying that I'm not an expert on
15 Hepatitis C, either the diagnosis, management or its
16 complications. So I think anything I would say about
17 that, that statement, needs to be borne in mind.

18 I think this lady had a rather complicated past
19 medical history and if I'm honest to the Inquiry, even
20 having looked at the notes in retrospect, I'm not
21 entirely sure what the cause of death was and that makes
22 it very difficult for me to make an authoritative and
23 useful comment on that to the Inquiry.

24 Q. Yes. I think all that we were trying to put to you,
25 doctor, was that knowing that you are not an expert in

1 hepatitis, if one took hepatitis out of the picture and
2 looked at the remaining difficulties that Mrs O'Hara had
3 in April and May 2003, what do you think the position
4 might have been?

5 A. Okay. I think, you see, to my mind that's impossible to
6 do because the Hepatitis C maybe caused cirrhosis, the
7 cirrhosis is partly involved with the portal
8 hypertension. Those problems would probably have had an
9 effect on her cardiac function in the metabolism of
10 cardiac drugs. It all becomes very complicated.
11 I don't think you can easily take one element of illness
12 away and consider the situation with only the others
13 because they are all interrelated.

14 Q. I understand. Perhaps I can just suggest to you that
15 the way it has been put is that the hepatitis -- and its
16 effect on Mrs O'Hara's liver -- will have compromised
17 her ability to respond to the infective illnesses that
18 she had. Would you agree with that?

19 A. Right. I couldn't make a comment on that. I'm not
20 aware of how that would affect her immune functions. So
21 I'm sorry but I couldn't make an authoritative comment.

22 Q. It is quite all right, thank you, doctor.

23 I think you have charted the last period of
24 Mrs O'Hara's illness very thoroughly. Perhaps the only
25 thing I see that I did mean to check with you -- and

1 this is looking at the third page of this report, so if
2 we could go on there, it will be 172. Do you have
3 a hard copy in front of you?

4 A. I do have a hard copy.

5 Q. Perhaps I can just read it out, and I hope not
6 disadvantage anyone. You say about two thirds of the
7 way down the third page that:

8 "On 3 May Mrs O'Hara did deteriorate with increasing
9 confusion and shortness of breath."

10 It was just:

11 "ITU admission was thought inappropriate."

12 I just wondered, can you remember why that was?

13 A. Again, this is an opinion that is expressed in the case
14 notes in writing by one of the anaesthetists. We had
15 a patient who was clearly moving in the direction of
16 what we would call "multi-organ failure", and that is
17 a condition that is associated with a high mortality
18 rate. In that situation the intensive therapy unit
19 allows advantages, including intensive monitoring, as
20 well as being a good venue to provide support for
21 various organs including respiratory support. And as
22 you noted at the beginning of that paragraph, she had
23 shortness of breath. Obviously as a surgeon I work
24 closely with the anaesthetists and a regular port of
25 call would be the ITU anaesthetist for a surgeon looking

1 for a second opinion or further input to the medical
2 support of a patient who is possibly developing
3 multi-organ failure.

4 We did also involve the specialists, the physicians
5 and the cardiologist at that stage too. I guess
6 I haven't quite answered your question there. The
7 intensive therapy unit, it's a limited resource. They
8 will tend to want to take patients that they feel they
9 are in a position to help back to better health.
10 I think they maybe felt in this instance that
11 respiratory support was not something that was top of
12 the list of requirements, and I think they maybe felt
13 that it was more important that she had cardiac or
14 cardiology assessment, and again I guess they had
15 already expressed their opinion that were this lady to
16 become ventilated, it might be extremely difficult to
17 reverse that process.

18 Q. And hence the decision that she should in fact go into
19 the coronary care unit, rather than --

20 A. Yes, I think that would be fair, although that wasn't my
21 specific decision, but, yes.

22 Q. Thank you very much.

23 A. Thank you.

24 THE CHAIRMAN: Mr Di Rollo?

25 MR DI ROLLO: No, thank you.

1 THE CHAIRMAN: Mr Anderson?

2 MR ANDERSON: Thank you, no questions, sir.

3 MR SHELDON: No, thank you.

4 THE CHAIRMAN: Dr Robertson, thank you very much.

5 A. Thank you very much.

6 MS DUNLOP: The only other witness, sir, today is Dr Dunn,
7 the cardiologist, and he is timed -- oh, he is here.

8 I was going to say that there are one or two odds
9 and ends that I said I would come back to but it may be
10 better just to press on with Dr Dunn if he is here.

11 THE CHAIRMAN: I think we deal with Dr Dunn and then we deal
12 with other matters after that.

13 DR FRANCIS GERARD DUNN (sworn)

14 Questions by MS DUNLOP

15 MS DUNLOP: Good afternoon Dr Dunn.

16 A. Good afternoon.

17 Q. Could you, please, just tell us your full name?

18 A. Francis Gerard Dunn.

19 Q. What's your current occupation?

20 A. I'm a consultant cardiologist at Stobhill Hospital in
21 Glasgow.

22 Q. Thank you. You were in that post in 2003, I understand,
23 and indeed for some time before that?

24 A. No, that was my first year as a consultant, 1983.

25 Q. Sorry, right. In 2003 you would be a consultant at

1 Stobhill as well, and you say you started as
2 a consultant?

3 A. 1983. That's right.

4 Q. And before that, you were, what, a registrar at
5 Stobhill?

6 A. I graduated in 1970 and most of my training was
7 undertaken at the Glasgow Royal Infirmary and I had two
8 periods of research in the United States.

9 Q. Thank you. In your position as a cardiologist at
10 Stobhill, did you look after a lady, Mrs Eileen O'Hara?

11 A. Yes, I did.

12 Q. She was a patient of yours. The first thing I wanted to
13 ask, doctor -- and this is with the benefit of
14 a document in front of you. If you could look at
15 [\[OHA0012608\]](#). This is a letter from Stobhill, in fact
16 from a Dr Fraser in the cardiology clinic, to what
17 I take to have been a general practitioner, about
18 Mrs O'Hara. At the time she was pregnant but I noticed
19 in it the sentence:

20 "She has rheumatic heart disease."

21 I think this may relate to having had rheumatic
22 fever as a child.

23 A. That's right.

24 Q. I just wondered if you could give us a little bit of an
25 explanation of that, please?

1 A. Yes, Dr Fraser was my predecessor at Stobhill and
2 rheumatic fever was a fairly common disorder in Scotland
3 in the 1940s and 50s in particular, and it usually
4 occurred between the ages of five and fifteen, and it
5 was about five times more common in women than in men,
6 and the origin was the streptococcus infection.

7 Quite a significant number of patients who had
8 rheumatic fever, that diagnosis was not made at the time
9 because they were often diagnosed as having growing
10 pains or other disorders affecting their joints. So
11 many of these patients first presented, in fact, with
12 the heart manifestations of rheumatic fever. Rheumatic
13 fever could affect the joints but specifically affected
14 the heart valves, and in Mrs O'Hara's case as in many
15 other cases, it was the mitral valve, the valve between
16 the two sides of the chambers on the left side of the
17 heart.

18 Q. I take it that the illness weakened the valve, did it?

19 A. Yes, in those days, in the early days it would make the
20 valve quite thickened and narrowed, so that the blood
21 would not be able to flow through that valve adequately.

22 Q. Is that described as "stenosis"?

23 A. That's exactly how it is described, yes.

24 Q. I think we are learning a bit as we journey through
25 this, doctor.

1 Could you look at [\[OHA0010899\]](#), please. This is
2 another obstetric document, or a document relating to
3 obstetrics, but someone has asterisked quite carefully
4 there that Mrs O'Hara has mitral valve disease and
5 that's the same as what we have just been discussing, is
6 it?

7 A. Yes, it is.

8 Q. Next I wanted to ask you to look at a page [\[OHA0012520\]](#).
9 I'm doing this, Dr Dunn, because in your letter, which
10 perhaps we could have as well -- if we could have that
11 side by side, [\[OHA0012637\]](#). There it is.

12 I should say, doctor, that this letter dates
13 from September 2005 and it is a letter you provided in
14 fact to Crown Office about Mrs O'Hara. Is that right?
15 You had been asked by Crown Office to answer some
16 questions?

17 A. That's correct.

18 Q. And you wrote back. It is just that I noticed you had
19 said that you didn't have information about the
20 operation in 1991. You say at line 4 of your letter:

21 "There is no information between 1990 and 1993 in
22 regard to the second valve operation the patient had."

23 Just to say that this is a letter concerning the
24 operation. It was to redo the mitral valve replacement,
25 a St Jude bileaflet mechanical valve. Where does

1 St Jude come into it? Is that the manufacturer or is
2 that the design?

3 A. That's the manufacturer.

4 Q. Right. So she had had that operation in October 1991.
5 I think perhaps when you were commenting that you didn't
6 have any information about that, you were meaning that
7 you were trying to establish what blood transfusions
8 Mrs O'Hara might have had over the years. Is that
9 right?

10 A. Basically, just imagine this: she had her first valve
11 operation in 1962, I think it was, a valvotomy, which
12 was stretching of the valve, and then I looked after her
13 up until the time of her first valve operation in 1985.
14 Thereafter she was followed up at the
15 Glasgow Royal Infirmary until 1994. So the
16 post-operative follow-up was under the care of the
17 cardiothoracic surgeons at the Royal Infirmary. So I
18 didn't see Mrs O'Hara over that period of time. And her
19 preparation for her second operation in 1991 was also
20 undertaken through the Glasgow Royal Infirmary and when
21 I wrote that letter, I was unable to get her
22 Glasgow Royal Infirmary notes. So really I only could
23 comment on the Stobhill notes that I had available at
24 the time.

25 Q. I see. I wonder, doctor, if I could perhaps take

1 a slight short cut, which is to say to you that in
2 relation to blood transfusions over the years, the
3 Inquiry team has looked through the records and has
4 found a reference to a transfusion before 1971, which
5 might have been the valvotomy in 1963. So there is
6 a reference -- it's in a letter from 1971 -- it says she
7 has previously had a blood transfusion. Not specific
8 but one might speculate that that would be in relation
9 to the valvotomy in 1963. And then also in relation to
10 a Caesarean section in 1972.

11 You covered this in your paragraph but I think I'm
12 really giving you a little more information, that there
13 is a reference to transfusion in 1972 and transfusion in
14 1979, the first being obstetric and the second being
15 gynaecological, and then also a transfusion in 1985 in
16 connection with the first valve replacement.

17 So you said in your letter that 1985 was the most
18 likely time she contracted Hepatitis C but I take it
19 when you expressed that view you didn't know about the
20 1963, 1972 and 1979 transfusions?

21 A. That's correct. I couldn't elicit that information but
22 since then I have, to my own satisfaction, seen clearly
23 that she had blood transfusions in 1972 and in 1979 but
24 I still haven't been able to convince myself about the
25 one in 1963, but that may have been the case as well and

1 I just didn't have that information, but there is no
2 doubt that she had transfusions in 1972 and 1979 and
3 also in 1985, and on review of the surgical operation
4 notes from 1985 and some of the documentation there, it
5 clearly shows that she had a blood transfusion, several
6 units of blood, in 1985, around the time of her valve
7 operation.

8 So therefore, I guess, on any of these occasions, it
9 is possible that the virus was contracted.

10 Q. The valvotomy, and we should ask you because you are
11 a cardiologist, but the valvotomy, we understand to have
12 been an attempt to widen the valve. Is that right?

13 A. Yes, it was an amazing operation that the surgeons would
14 actually widen the valve with their fingers, and they
15 were very adept at doing this and it saved many lives of
16 young women who were pregnant in Stobhill and other
17 hospitals by this operation because without that these
18 patients during the latter stages of pregnancy would
19 develop severe congestion in their lungs. It was a very
20 straightforward but skilful operation and frequently it
21 would not require a blood transfusion.

22 Q. But sometimes it might?

23 A. Sometimes it might, yes.

24 Q. And does the heart continue to beat when the surgeon has
25 got his fingers in the mitral valve?

1 A. Yes, there was no bypass procedure involved in that. It
2 was really very much a feeling in. After that they
3 developed a special type of dilator, known as a Tubbs
4 dilator, but I had patients still who had these
5 operations in the 1960s and have done remarkably well.

6 Q. Thank you. I have a better understanding now of what
7 that involved.

8 THE CHAIRMAN: I think we need a little more. I suppose the
9 chest was opened?

10 A. The chest was opened, usually under the left breast
11 area, whereas major bypass operations, it is down
12 through the sternum, but this was a much smaller
13 incision under the left breast.

14 THE CHAIRMAN: Then is there a cut above the mitral valve
15 itself?

16 A. Yes, to get entry from the fingers in, there is a little
17 vent put in and the fingers are then put down, usually
18 through the left atrium, and then the valve is widened
19 up in a way.

20 THE CHAIRMAN: And then a sprint to sew everything up again
21 quickly.

22 A. That's right, yes.

23 THE CHAIRMAN: Are fingers used nowadays?

24 A. No, valvotomy is now undertaken by interventional
25 cardiologists where they can actually put a balloon in

1 now through a percutaneous procedure.

2 MS DUNLOP: I suppose to some extent, the success of the
3 procedure is self-evident because in the 1960s and in
4 1972 Mrs O'Hara had four pregnancies and she didn't need
5 her first valve replacement operation until 1985. Does
6 that show us that --

7 A. I think that was often the case with that operation,
8 that the patients would get a great result for many
9 years.

10 Q. I think perhaps we could go to the second paragraph of
11 your letter and you say the question of abnormalities in
12 her liver function were first noted in Glasgow Royal in
13 1990. I think in fact there is a reference to
14 abnormalities in 1984. I don't know if we need to go to
15 this. Perhaps we should and I apologise because it is
16 not on my list, but [\[OHA0012565\]](#). Can we keep Dr Dunn's
17 letter and just go to 2565, please.

18 It is really in the PS at the bottom. This
19 is February 1984. There seemed to be some slightly
20 abnormal measurements recorded there and some suggestion
21 there may be a degree of hepatic congestion. I think in
22 fact, that's the first entry that anyone has been able
23 to find in the records. So perhaps you would accept
24 that it is not 1990 but 1984 that we find the first
25 mention.

1 A. I'm not sure whether that referred solely to the
2 Glasgow Royal at that time.

3 Q. I see.

4 A. You know, it is likely that patients, purely as
5 a consequence of their mitral valve disease,
6 particularly if they are heading for an operation, will
7 have mild abnormalities of the liver function.

8 Q. So we need to understand that that is very close to the
9 operation in 1985?

10 A. It is, yes.

11 Q. And people might have thought it was connected to that
12 problem.

13 A. I think it would be regarded as not unusual in the
14 run-up to an operation.

15 Q. I see.

16 A. Because we knew that the pressures on the right side of
17 her heart were significantly elevated in 1985 and that
18 gives rise to back pressure on the liver.

19 Q. Can we look at [\[OHA0012486\]](#), please. This is your
20 clinic. We see you at the top. This is a letter typed
21 in January 1995. It is from a Dr Tait, who I think is
22 a registrar, I can't remember, and the two of you had
23 seen Mrs O'Hara together in the clinic. In fact, it
24 looks as though you have had some discussions with
25 Dr McLaren who is the diabetes physician. Is that

1 right?

2 A. That's correct, I think he in fact asked us to see the
3 patient at the clinic and this was the first time we had
4 seen Mrs O'Hara, I believe, since 1985, just before her
5 first operation.

6 Q. Right. There is this reference to hepatosplenomegaly
7 during routine clinical examination, and I suppose you
8 are wondering, are you, at this time, if that is
9 connected to heart problems?

10 A. I think Dr McLaren wondered whether it was related to
11 heart but I think we felt, because of the success of her
12 second operation and her satisfactory cardiac status at
13 that time, that it was unlikely to be related to her
14 heart, or solely related to her heart.

15 Q. Right. If we look at the second page, we see that
16 Dr Tate, no doubt in consultation with you, has taken
17 blood for various tests including a hepatitis screen.
18 This is a question that I have already put to another
19 doctor but it seems slightly unusual that a cardiologist
20 is, as it were, directing investigations into whether or
21 not someone has hepatitis.

22 A. I think that's probably a fair comment but I guess that
23 the -- often we are gatekeepers to an extent for other
24 specialities; we would conduct what we thought were the
25 initial investigations that would perhaps clarify the

1 cause of her enlarged liver and spleen. So that would
2 be fairly standard that you would think most of the
3 doctors here will have trained in a broad general
4 medicine basis and therefore be able to direct initial
5 investigations before it gets to a specialist level.

6 Q. Right. Please don't think in anything I say that I'm
7 being critical of what you actually did.

8 A. Not at all.

9 Q. It was just that it seems to be the cardiologist having
10 to go above and beyond the normal role. But you have
11 answered that.

12 [\[OHA0012475\]](#). This is you in March 1995 and you
13 have obtained a positive Hepatitis C result and you are
14 going on to organise a biopsy, although we see that you
15 have discussed it with your gastroenterologist
16 colleagues. Then [\[OHA0012469\]](#). Again, this is a report
17 going from your department, saying that there has been
18 an arranged admission for liver biopsy. I mean, was the
19 liver biopsy actually done within your department?

20 A. Well, this was an admission to the ward, the cardiology
21 ward or the ward that I had beds in, to continue the
22 investigations. We weren't sure at that time -- I mean,
23 I had a concern that this may have had a malignant
24 source, for example, lymphoma. We really didn't know.
25 So we had enlisted the help of haematologists and also

1 spoken to the gastroenterologists, and also the patient
2 was on a drug called warfarin, which is critical for
3 patients who have a metal prosthesis, which the St Jude
4 was. So you have to watch these patients very closely
5 when you undertake any biopsy or other procedure that
6 might lead to bleeding. So you have to re-adjust the
7 warfarin for as short a period of time as possible.

8 Q. You stopped the warfarin and started her on heparin. So
9 heparin has a slightly different impact from warfarin,
10 does it?

11 A. It probably has the same effect on keeping your blood
12 thin but it is much shorter acting and it is given by
13 a non-oral route, either through the muscle, or in this
14 case the vein, and you can stop it very shortly before
15 you undertake the biopsy and the effects are reversed.
16 So that you can undertake. So they wanted her to have
17 as short a period as possible of anti-coagulation, of
18 which warfarin and heparin are two examples.

19 Q. I wanted to ask you about [\[OHA0012464\]](#). I just wondered
20 what these findings -- and this is November 1995 -- mean
21 from a cardiology point of view. I'm looking at the
22 last paragraph. You say she had a pulse of 72, blood
23 pressure 170/70. Really from that bit onwards, what is
24 going on here?

25 A. Right, well, the JVP refers to the pressure on the right

1 side of the heart. 2 centimetres is very borderline.
2 That would be regarded really as not significantly
3 elevated. In some patients who, especially those in
4 whom the liver would be affected, you would expect the
5 JVP to perhaps be 10 centimetres or above, and at times
6 it can go right up to the angle of the jaw. So that in
7 itself didn't indicate that the valve was struggling.

8 No significant oedema. There was no swelling of the
9 lower limbs. Again, that would go along with a very
10 high JVP as a sign that the right heart wasn't
11 functioning properly.

12 "The cardiovascular examination revealed the right
13 ventricular heave," suggests perhaps that the right
14 ventricular pressure was slightly increased, but it is
15 very difficult to assess that in patients who have had
16 two bypasses, because the right side of the heart could
17 be pushed more towards the sternum. So I think,
18 I wouldn't necessarily deduce from that that the
19 pressures were up.

20 And it says that the apex, which was left
21 ventricular in character, suggesting that the left side
22 of the heart was thickened and there was a murmur there,
23 which presumably was a degree -- often you can still
24 hear a murmur in patients who have had a valve
25 replacement whether it is in the mitral or in other

1 positions.

2 So these cardiac findings would, depending on the
3 last letter and so on, indicate their cardiac status
4 overall was stable. We can see that her heartrate was
5 72 beats per minute, again indicating that the overall
6 heart situation was stable. You know, once they start
7 to struggle from the heart point of view, the heartrate
8 would start to go up and you might expect, in a patient
9 who is moving towards heart failure, a heartrate of 90
10 or 100 beats per minute.

11 Q. You referred to these two operations as "bypass
12 operations". So when, in ordinary parlance somebody is
13 described as having had a bypass, that can mean a valve
14 replacement, can it?

15 A. Yes, there is confusion here. There's two bypasses
16 going on in many patients. In coronary artery surgery,
17 the vessels are bypassed by veins or other parts of
18 arteries but in any kind of operation like a, you know,
19 a coronary operation or a valve, there is a machine
20 which bypasses the circulation and supports the
21 circulation during the time that the surgeon is either
22 transplanting the new vessels or putting in a new valve.

23 So the heart is at rest, it is not moving for
24 a period of perhaps up to an hour while the operation is
25 being undertaken. So it is confusing because the valve

1 patients all go on bypass; in other words, they are
2 supported by this circulation outwith the body, whereas
3 the coronary patients get, as it were, two bypasses.
4 Their vessels are bypassed and they have a bypass
5 machine.

6 Q. So broadly speaking, from a cardiology point of view,
7 the findings in this letter, as at November 1995, are
8 not concerning. Is that --

9 A. No, I think that we were reasonably happy really up
10 until about 1998 that her cardiac status was fairly
11 stable.

12 Q. We had better just look at the end of that letter. Can
13 we turn the page, please and look at 2465, and actually
14 SHO goes on to say that the cardiac symptoms are
15 reasonably stable.

16 Then [\[OHA0011083\]](#). This may be the development to
17 which you were referring a moment ago. You mentioned
18 1998 but this is a letter from you to the general
19 practitioner, talking about a hospital stay in May 1999,
20 and you say she was in for stabilisation of really quite
21 severe cardiac failure. And perhaps it is unfair to ask
22 you when you don't have all the records in front of you,
23 but what really do you think had brought this on?

24 A. Well, by this time it was -- I mean, the valves last
25 a variable period of time, but it appeared that there

1 was starting to be some elevation of the pressure on the
2 right side of the heart, leading to swelling of the
3 ankles. And sometimes this can be reactive. It doesn't
4 necessarily mean that the valve is the source of this.
5 The patients often have a degree of elevation of the
6 right side of the heart and the pressures -- at the time
7 of the operation, this can be relieved, and then it can
8 return, and the valve on the right side of the heart,
9 known as the tricuspid valve, can start to dilate and
10 this can give back pressure to give rise to failure,
11 predominantly of the right side of the heart, and from
12 my memory, the features were more of problems with the
13 right side rather than the left side of the heart.

14 Q. She did move on to require replacement of the valve as
15 we know in 1991. So to some extent will that have
16 improved the picture that we see in this letter?

17 A. Although this was 1999. This was eight years after.

18 Q. Yes, sorry.

19 A. So -- I think at that time we felt that -- just to
20 really try and stabilise her from the medical point of
21 view.

22 Q. Right. And then in 2001, if we look at [\[OHA0012184\]](#).
23 This is your clinic again and Mrs O'Hara has had some
24 chest pain. If you want just to look at the second page
25 as well. Could you turn the page to 2185. Is this

1 really Mrs O'Hara presenting with angina?

2 A. Well, certainly there is discomfort. We knew from her
3 previous angiograms in 1985 and in 1991 that the
4 arteries, the coronary arteries were normal. So this
5 makes it highly unlikely that between 1991 and
6 subsequently she would develop coronary artery disease.
7 Most people who have normal coronary arteries in their
8 50s and 60s, they will stay normal but they can still
9 get a discomfort in their chest that is similar to the
10 standard angina. For example, when the right side of
11 the heart starts to weaken, you can feel a discomfort
12 that's very similar, if you like, to the standard angina
13 from narrowed coronary arteries. So this didn't
14 necessarily imply that her arteries were narrowed, but
15 it was a discomfort that was flagged up and she was
16 given some spray to try and help that.

17 Q. Thank you, doctor.

18 Angina is actually mentioned in the letter and
19 perhaps to a layperson, it tends to be associated with
20 arterial blockage but you are explaining that probably
21 not in this case?

22 A. Yes. It is usually the result of a lack of oxygen to
23 the heart muscle and there can be a number of reasons
24 for that. I think in her case, narrowed arteries would
25 be one of the less likely reasons because we knew in

1 1985 and 1991 that her arteries were normal.

2 Q. Actually she has atrial fibrillation. Can you just

3 explain that?

4 A. That's a very common type of heart rhythm disorder in

5 patients who have valve disease. The atrium, the

6 chamber at the top of the heart, when it enlarges, which

7 it nearly always does in patients with valve disease,

8 the electrical stability of that chamber starts to

9 change, so instead of pushing the blood down into the

10 main chamber, it just kind of flutters, and the blood

11 still flows in but in a less effective way. It is

12 a common disorder even in patients without valve disease

13 and the important aspects are to try and slow the

14 heartrate down because this type of rhythm gives you a

15 fast heartrate, and also to protect the patients against

16 clots, which she was already protected against because

17 she was on warfarin. So she is likely to have had that

18 fibrillation. I can't remember exactly but I would

19 suspect that since her second operation she was likely

20 to have had atrial fibrillation.

21 Q. Lastly, could we go to [\[OHA0011112\]](#), please. This is

22 a letter to the general practitioner from 2002, and in

23 fact it looks as though the angina, in the circumstances

24 you have described to us, has improved. So much so that

25 she is very rarely using her GTN spray. GTN spray is

1 for immediate relief of angina. Is that right?

2 A. Yes, that's right.

3 I think, perhaps just to highlight one point, that

4 the -- I think there is probably a misprint in this

5 letter. I think the dose of frusemide that she was on,

6 I think it should have been 120 milligrammes twice

7 a day. That is quite a significant dose. So although

8 we were achieving stability, it was with quite a high

9 dose of that particular water tablet.

10 Q. So where it says "frusemide 20", maybe it should be --

11 A. That should be 120, yes.

12 Q. Thank you. Actually the seventh problem in the list of

13 diagnoses has been recorded as probably ischaemic heart

14 disease and that is, I take it, for the reasons you have

15 described to us, not anything to do with arterial

16 sclerosis?

17 A. It is not necessarily coronary artery disease. Although

18 in common parlance, people often use these terms

19 synonymously but in fact you can have ischaemia with

20 normal coronary arteries.

21 Q. Can I just ask you, just for more general information,

22 about some procedures that patients might undergo and

23 whether you would expect that they would receive plasma

24 or other blood products in association with the

25 investigation. The first one is echocardiogram.

1 A. You would not require anything for that.

2 Q. What about catheterisation?

3 A. Very, very rarely would you require any blood products
4 for that.

5 Q. It does look as though, when Mrs O'Hara had an angiogram
6 and a ventriculogram in July 1991, she did receive --
7 I think it is some plasma. Is that to be expected as
8 well?

9 A. No.

10 Q. No?

11 A. There must have been some unusual event during that
12 procedure that led to plasma being given.

13 Q. I see. Finally, Dr Dunn, I would like you just to have
14 a look at a report from Dr Mark Petrie. This is
15 [\[PEN0100157\]](#). As we can see, that's emails in
16 connection with Dr Petrie's letter. [\[PEN0100182\]](#) could
17 we have, please, [\[PEN0100182\]](#).

18 Sorry, I didn't catch your answer, doctor, do you
19 remember Dr Mark Petrie?

20 A. Very well.

21 Q. You know him and he has written on 23 February this year
22 in relation to Mrs O'Hara's final illness really, in the
23 coronary care unit in Stobhill. He tells us information
24 which we have learned from other sources, that she had
25 multiple medical problems. Just looking at the first

1 paragraph. She was not fit for admission to intensive
2 care. She had a very poor prognosis. He says he looked
3 after her from 4 May until 7 May 2003. I think at that
4 point Dr Goodfield would be the consultant and Dr Petrie
5 was his registrar. Is that correct?

6 A. Yes, I think that would be.

7 Q. Right. And then Dr Petrie has addressed what it was
8 that was the cause of Mrs O'Hara's death, and he
9 narrates that the infection, pancreatitis, and then that
10 she had several longstanding chronic conditions:
11 Hepatitis C, cirrhosis, longstanding diabetes and that
12 she had had two previous mitral valve replacements.
13 Dr Petrie goes on to say that the cause of her death was
14 multi-organ failure, secondary to overwhelming sepsis.
15 Her C-reactive protein was very high, as was her white
16 cell count. We have learned that these are both markers
17 of infection: the C-reactive protein and the white cell
18 count:

19 "She had renal failure and worsening hepatic failure
20 in the context of her overwhelming sepsis."

21 He says:

22 "In summary, this lady had overwhelming sepsis, felt
23 likely secondary to pancreatic collection. She
24 tolerated this poorly due to her longstanding liver and
25 heart disease and developed new acute renal failure."

1 Does that seem to you to reflect the circumstances
2 of Mrs O'Hara's death, that summary?

3 A. Yes, I think that's fairly accurate. Often in these
4 situations -- I mean, acute pancreatitis is in itself
5 a very severe illness and when the patient is afflicted
6 with that and already has significant multi-organ
7 difficulties, and in her case I think her diabetes and
8 her extensive past cardiac conditions were put under the
9 kind of stress with the pancreatitis, that while she was
10 managing not too badly, the pancreatitis just led to
11 a failure of these other organs. I think it is just an
12 effect almost like a domino effect. If one system goes,
13 then the next system goes under pressure and so on and
14 so forth. So I would think that certainly the sepsis
15 was the -- the result of the pancreatitis was what
16 caused this.

17 So I would agree with that. I get the impression
18 that on reflection, Dr Petrie felt that Hepatitis C
19 should have been mentioned in the death certificate and
20 I would agree with that.

21 Q. Thank you. I realise, Dr Dunn, that I have failed to
22 put to you your other letter, which you sent, I think,
23 on 22 February, 2011. It is [\[PEN0100114\]](#). I think it
24 may be Dr Dunn, that this should say "2011". You see,
25 you are replying to a letter of 15 December 2010. So

1 perhaps it should be dated 22 February 2011.

2 A. I would agree with that.

3 Q. You will accept that correction, will you?

4 A. I was out of the country up until then, so I must have
5 still been in 2010.

6 Q. Right. I think that letter was provided really because
7 you had been asked to address any potential connection
8 between the cardiac condition and the cirrhosis from
9 which Mrs O'Hara suffered, and you go on to say that
10 there is a condition known as cardiac cirrhosis, which
11 people have if they have a failure or can have if they
12 have failure of the right side of the heart.

13 But you say this rarely causes the classic cirrhotic
14 pattern seen in primary liver disease and then you talk
15 about the success of the second valve replacement
16 operation, and that there will have been perhaps some
17 more short-lived elevation of the right heart pressures.
18 Then you go on to deal with the course of events from
19 1995.

20 You say there was no clinical evidence of cardiac
21 failure at that time, that Mrs O'Hara's cardiac status
22 was stable for several years, more or less up until the
23 time of her terminal illness. We looked at the letter,
24 1083, relating to June 1999 and you interpreted that for
25 us, and then you say -- and we have looked at this

1 too -- an entry in the case sheet in March 2002
2 indicated her cardiac situation was stable.

3 Then you say:

4 "It is my view that the patient's cardiac condition
5 did not pre-dispose in any significant way to the
6 development of cirrhosis."

7 Even having looked at the records again today, is
8 that still your opinion?

9 A. Yes, I think it would -- it may have been a factor but
10 not a significant factor or a major factor.

11 Q. You say:

12 "Finally, in regard to her terminal illness, I have
13 no doubt that her co-morbidity was a contributing factor
14 to the fact that she did not survive. A number of
15 factors obviously were involved in this, including her
16 diabetes, her cardiac status and her Hepatitis C."

17 It is difficult to dissect out the relative
18 importance of all of these. I have tried a kind of
19 lawyers exercise with Dr Robertson saying, "Well, if you
20 remove one factor, what would have happened?" And he
21 said you can't really do that because everything was
22 interrelated. Would you associate yourself with that
23 kind of view?

24 A. I have looked at this again, just reflecting on it, and
25 I think there is no doubt these factors, each of them

1 would contribute a substantial increase, perhaps
2 doubling. If we say that mortality from the
3 pancreatitis was, say, 7 to 10 per cent, I think each of
4 these factors would add another 10 per cent, perhaps not
5 the diabetes but her cardiac status and her hepatitis
6 would each, in my view, contribute another 10 per cent
7 to decreasing her likelihood of survival.

8 So whereas it would have been say 10 per cent, it
9 might have gone to 20 per cent because of the presence
10 of Hepatitis C and because of her cardiac failure, but
11 that's not an exact science. I have discussed this with
12 experts on pancreatitis and that was their kind of sense
13 from hearing the situation, that that would be the kind
14 of impact of these additional conditions on her
15 survival.

16 Q. I think perhaps the easiest metaphor for us as, lay
17 people, to understand is the domino principle. The
18 pancreatitis started a chain of events and these other
19 conditions feature in the chain.

20 A. I don't use that term disrespectfully but it does,
21 I think, allow people to understand the effect that one
22 event has on subsequent events.

23 Q. Thanks very much, Dr Dunn.

24 THE CHAIRMAN: I wonder if I could be clear on this, doctor.

25 If it is a domino effect, each domino has the same

1 value; they all fall over progressively. Do these
2 factors operate in an arithmetical progression or is it
3 geometrical? Does each double or, what, the impact of
4 the disease.

5 A. I think it depends on -- factors which might otherwise
6 be insignificant then start to become significant. For
7 example her diabetes, you know, which would be
8 reasonably well controlled, once you get sepsis, then
9 the likelihood of distant infection. For example,
10 I believe this lady had a cellulitis latterly in her
11 illness and the diabetes would make her more prone to
12 that.

13 I think it is difficult to put an arithmetical or
14 geometrical sum on it but I think it is more this what
15 we call multisystem failure or, you know, patients who
16 are coping reasonably well until they get an acute
17 insult like pancreatitis and then several bodily systems
18 start to -- especially if you have got two systems that
19 are significantly compromised in advance of the
20 pancreatitis, then the advent of that then puts them
21 under difficult duress.

22 THE CHAIRMAN: I think I could see that in some way I might
23 be more comfortable with the notion of something that
24 wasn't arithmetically based, because the realities are
25 perhaps that one can't analyse out in arithmetical or

1 Dr Dunn and say why.

2 As I understand it, a person who has severe
3 pancreatitis and is over the age of 70 probably has a 10
4 to 20 per cent mortality at that stage. It is a severe
5 condition. At the other end of the spectrum and not
6 necessarily involving pancreatitis, I understand from
7 Professor James that a person who has serious compromise
8 of three or more organs has a high mortality risk and
9 indeed it may be very difficult to measure the prospects
10 of success in hospital treatment.

11 So if one has a person going into hospital with
12 pancreatitis that can lead to sepsis, the question
13 arises whether the multiplicity of compromised organs
14 should be looked at as additive features, as it were,
15 each making a contribution of, let's say, 10 per cent,
16 which was the figure, or whether the proper way to look
17 at it is that cumulatively they have a very significant
18 impact upon mortality.

19 So you can't break it down into 10 per cent
20 hepatitis. Hepatitis is part of an overall picture and
21 has the same value, as it were, cumulatively, with the
22 other elements, increasing significantly the mortality
23 risk of the patient.

24 That's why I was trying to avoid the domino effect
25 and look at the total. Now, I don't know if that helps.

1 In a sense it increases the importance of hepatitis as
2 part of the package and it may help Mr Di Rollo, but
3 I don't know if that's consistent with what you
4 understand the position to be.

5 MS DUNLOP: Well, we would like to reflect, I think, on it
6 a bit more, but my only observation would be that
7 talking about a 10 per cent, 20 per cent, 30 per cent
8 chance of mortality might be acceptable in an
9 epidemiological sense, if one was looking at
10 100 patients, but we know that for this person the
11 chance was 100 per cent because she did die.

12 THE CHAIRMAN: With the greatest of respect, that's the
13 event, not necessarily the prospect and there can be a
14 difference between risk and event.

15 MS DUNLOP: Well, for whatever reason --

16 THE CHAIRMAN: But for whatever reason.

17 MS DUNLOP: -- Mrs O'Hara's chance was very much higher than
18 10 per cent, 20 per cent or 30 per cent --

19 THE CHAIRMAN: Well, you can all contemplate this
20 proposition and see whether it is helpful or not. If it
21 is necessary to take it up, then I can make help
22 available, to give you an expert view on it rather than
23 my attempt at summarising it.

24 MR DI ROLLO: Could I just ask one question of
25 Professor James really or just generally? Is there any

1 link between Hepatitis C and pancreatitis?

2 PROFESSOR JAMES: Very, very remote, if at all. There is
3 a very plausible, indeed probable, cause, if I may say
4 so in her gallstones already. So I don't think one
5 needs to invoke, sort of cast around for, any other
6 cause.

7 Very briefly, if I may, if I could supplement what
8 Lord Penrose has said and try to, by proxy, defend
9 myself against Ms Dunlop, what I was trying to get
10 around to was Mrs O'Hara went into hospital with
11 a condition which a person over the age of 70 who has
12 severe pancreatitis, actually, in Glasgow,
13 statistically -- because they have done studies in
14 Glasgow of acute pancreatitis over many years -- has,
15 from memory, very approximately, a one in ten chance of
16 mortality, leaving aside everything else.

17 Actually, the main complication, as we heard, of the
18 pancreatitis, is sepsis. She had two organs already
19 compromised very significantly when she went into
20 hospital. They were both working but limping along; her
21 liver from the Hepatitis C and her heart from the valve
22 problems that you have heard about.

23 So when things went at all wrong through no fault of
24 anybody's, in the nature of things, then immediately
25 that sepsis had a very bad effect on at least those two

1 organs. And immediately, without being numerical about
2 it, you can see that her risk of surviving, which ended
3 up as nought, was vastly increased. That's the point
4 that I think I tried to advise Lord Penrose about.
5 I thoroughly apologise to all my learned colleagues if
6 that was too big an intervention.

7 THE CHAIRMAN: I don't think I want my more comment at the
8 moment. You can ponder on these things, ladies and
9 gentlemen, and we will see what happens.

10 I'll do what I ought to do and let you get on.

11 MS DUNLOP: There are two things, sir, I still need to
12 cover. One is brief and one is, I am afraid, a little
13 bit complicated, especially for this point in the day.

14 To take the brief one first, there is a letter,
15 [\[PEN0010025\]](#). All I really need to do is tender it. It
16 is a letter from a Dr Sheila Cameron at the
17 West of Scotland Specialist Virology Centre, dated
18 3 December 2010. Dr Cameron is one of the two people
19 whose names appear on the 1990 Hepatitis C test and the
20 Inquiry contacted Dr Cameron to ask about that test and
21 it is really just item 1 in Dr Cameron's letter that
22 matters. She says:

23 "December 1990. This test would have been carried
24 in the ortho 1st generation ELISA when I was employed as
25 a principal clinical scientist at the Virus Laboratory

1 at Glasgow Royal Infirmary."

2 Then her interpretation section at the bottom of
3 that page says:

4 "This was the first HCV antibody test. It was
5 introduced in 1989 and was of limited sensitivity and
6 specificity, ie there were false positives and false
7 negatives. No confirmation test was available in our
8 laboratory at the time. I would not exclude HCV
9 infection on the basis of this result. There is
10 a wealth of published data which supports this view."

11 Indeed, tomorrow we are going to hear from Dr Dow
12 about which genotypes were more likely to be missed by
13 the first test. It would be ideal if we could say "and
14 Mrs O'Hara's genotype was", but we don't have that
15 information, and as far as we have been able to discover
16 her Hepatitis C was not genotyped.

17 So that's Dr Cameron.

18 THE CHAIRMAN: That's fine. Do the others understand where
19 you are going with this distinction as among genotypes
20 and the relationship to the ELISA tests that were
21 available?

22 MS DUNLOP: I think Dr Dow will explain it all tomorrow and

23 I think it might be better to wait and let him do it.

24 He has got a better grasp of it than I have.

25 THE CHAIRMAN: It is potentially quite difficult.

1 MS DUNLOP: Yes, it is extremely difficult.

2 THE CHAIRMAN: And even a hint might help the others to see
3 where they are going but I'll leave that to you.

4 MS DUNLOP: The other thing is just to finish the exercise
5 that I started this morning in relation to the various
6 transfusions. We need to look first at [\[PEN0010032\]](#),
7 and you will see, sir, that this is a document headed
8 "The late Mrs Eileen O'Hara. Blood transfusions and
9 Hepatitis C, SNBTS response, January 2011."

10 The passage in bold is an extract from a letter sent
11 by a member of the Inquiry team and then the first
12 bullet also comes from the letter, which is in italics:

13 "We understand ... Mrs O'Hara was given a blood
14 transfusion ..."

15 This is the information which is apparent from the
16 records and should, if all is going well, match what we
17 looked at this morning. In relation to where this
18 information was found.

19 One unit was transfused:

20 "We realise that transfusion took place many years
21 ago."

22 Then the paragraph in times new roman comes from the
23 blood transfusion service:

24 "Mrs O'Hara was transfused with one unit of B
25 negative blood on 31 March 1972, bottle number 5209.

1 The donor of this unit of blood has been identified.
2 This B negative unit was donated at Lockerbie on
3 5 March 1972 and issued to Stobhill ... on 25 March.
4 The SNBTS have no record of this donor being Hepatitis C
5 tested."

6 Of course, sir, that perhaps was a bit of a long
7 shot but if this had been a donor who returned after
8 1991 and had given a donation and had been tested and
9 been found to be Hepatitis C positive, then it would be
10 possible to pinpoint the source of the infection but
11 that has not been possible.

12 The second is in relation to the 1979 transfusion,
13 which you will recall, was hysterectomy surgery. Again,
14 the extract from the letter appears in italics and then
15 Mrs O'Hara was transfused with one unit of whole blood
16 and one unit of packed cells on 28 November 1979. The
17 donors of these units have been identified. The B
18 negative unit, 142610, was donated at Coatbridge on
19 20 November 1979 and issued 27 November. No record of
20 this donor being Hepatitis C tested. The unit of packed
21 cells was donated at East Kilbride on 19 November 1979
22 and issued to Stobhill on 27 November. No record of
23 that donor being tested either.

24 Turning the page, 1985 -- and you may recall, sir,
25 that this is a situation in which five packs of

1 concentrated red cells were identified -- the answer is
2 that Mrs O'Hara was transfused with five units of
3 concentrated red cells on 5 June 1985.

4 Actually, I think from examination that we carried
5 out, the actual transfusion, that was, as it were, the
6 reservation of the material rather than the actual
7 transfusion because the surgery was 7 June. Anyway, no
8 matter:

9 "The donors of these units have not been identified
10 because the pack numbers of these units quoted above are
11 numbers allocated by Glasgow Royal Infirmary. Previous
12 enquiries to GRI have shown they are unable to provide a
13 cross-reference from their numbers to the SNBTS pack
14 numbers. Without such cross-reference, we are unable to
15 trace the donors."

16 The next answer relates to HPPF. No batch number
17 was recorded. There is some information which is
18 perhaps more familiar to us, that human PPF is an
19 albumin product prepared from a large batch of plasma:
20 All human plasma protein fractions prepared according to
21 the monograph contained in the British Pharmacopeia,
22 which includes pasteurisation. Ten hours at 60 degrees.

23 Then there is a possible transfusion with a unit of
24 plasma:

25 "No batch number was recorded and the donor of that

1 unit can't be identified."

2 In 1991 the catheter studies in a transoesophageal
3 echocardiogram, and the Inquiry says:

4 "We would assume these products would not have
5 involved a transfusion. We would appreciate if this
6 could be confirmed."

7 And I did actually ask Dr Dunn about this and he
8 said not in the ordinary course of events, he wouldn't
9 expect there to be transfusion.

10 Then 24 July 1991, which is associated with the
11 angiogram and ventriculogram, Dr Dunn said you wouldn't
12 normally expect a transfusion of products. So there
13 must have been some particular reason for it and the
14 donation has been tested and found to be Hepatitis C
15 negative.

16 And then the answer on that:

17 "24 July 1991. With one unit of fresh frozen
18 plasma. This unit was first tested at the time of
19 collection, 11 July, and was Hepatitis C negative."

20 In fact, there has been further testing in 2008 and
21 then there is further research but I would suggest, sir,
22 that as we get further on, on to the 1990s, these
23 results are really not relevant because all the evidence
24 suggests that the 1990 test was a false negative.

25 After that some more questions were posed. I don't

1 think we need to look at it but for the record, the
2 email in which further questions were posed is
3 [\[PEN0020762\]](#), and there is a supplementary response
4 which is [\[PEN0020760\]](#). This is February 2011. We do
5 need to look at that.

6 This is back to 1985 and the Glasgow Royal Infirmary
7 pack numbers. The Inquiry asked to be provided with
8 more information on why Glasgow Royal Infirmary couldn't
9 provide a cross-reference. And indeed, also suggested
10 another mode of enquiry which would be to follow up the
11 fact that Mrs O'Hara had a relatively rare blood type, B
12 negative. We are told again that the donors of the five
13 units of blood couldn't be identified because of the
14 inability to cross-reference the Glasgow Royal Infirmary
15 numbering system and the SNBTS number.

16 Then this suggestion of using the blood group didn't
17 work either. It was before the introduction of
18 a computerised system known as LABLAN and the paper
19 records from that period don't still exist.

20 Then the plasma. Again, there is a problem with not
21 being able to recognise the number.

22 THE CHAIRMAN: So what are we to understand, and no doubt
23 Mr Anderson will help us understand it fully in due
24 course? We have SNBTS number as part of a coherent
25 system covering the blood transfusion system as a whole.

1 Blood is delivered to the hospital blood bank, and in
2 this case Glasgow Royal Infirmary abandons the
3 inheritance and puts on new numbers that cannot be
4 traced back to source. So there is a significant break
5 in the chain.

6 MS DUNLOP: Well, there is more.

7 THE CHAIRMAN: There is more?

8 MS DUNLOP: Yes.

9 THE CHAIRMAN: In the same direction or is it going into
10 reverse at any stage?

11 MS DUNLOP: I don't know what direction you would call it.

12 I think it is a complete standstill but it
13 represents another attempt. The document we have just
14 been looking at also covers, on the other page, the 1991
15 products, which again was a bit of a dead end. It
16 didn't give us an answer, but, as we said earlier, it is
17 perhaps not really relevant.

18 Then we should look at [\[OHA0012676\]](#). This letter
19 has not been written specifically for this Inquiry but
20 it relates to October 1991. In the second paragraph it
21 says:

22 "There are records dating back to 1985 which
23 indicate we issued five unit of red cells. It was in
24 Ward 66. we don't have records to tell us ..."

25 In fact, the medical records seem to suggest they

1 were all used. So this letter from Dr Tait doesn't
2 really take us any further, but finally, in
3 [\[PEN0100074\]](#), there having been, I suppose, a rather
4 insistent focus on the 1985 episode. Can we look at
5 page 2? Just to explain. It is perhaps obvious but
6 this is a copy of the original letter from
7 10 December 2010 with answers interlined in it. If we
8 look at the second page, there is an explanation which
9 is:

10 "It certainly looks as if all five of these units
11 were transfused. At the time, Glasgow Royal Infirmary
12 blood bank used a mini Apple PC which did not recognise
13 SNBTS barcode donation numbers, hence we generated our
14 own. We think these GRI barcode numbers could be tied
15 in with SNBTS numbers by looking at either the original
16 request form or possibly ledgers completed for blood
17 issue on a daily basis. However, a summary of data held
18 by GRI blood banks suggests we only have request forms
19 from 1988 onwards and we only have ledgers from 1968 to
20 1984."

21 That, I suspect, sir, represents the end of that
22 particular enquiry, that it is really a two-part answer;
23 that there was an incompatibility of computer systems at
24 the time and the matching-up, the keying across of one
25 numbering system to the other might have been possible

1 at one time from other records but the other records no
2 longer exist.

3 It is more than 25 years ago.

4 There is some further discussion for 1991 procedures
5 but perhaps we could just leave that for people to read
6 for their own interest because I don't think the
7 evidence really points to anything in 1991.

8 THE CHAIRMAN: Well, Mr Anderson, I think that you might
9 take note that accountability is a matter in which
10 I have some interest in this Inquiry, and I seem to have
11 a hazy recollection of a report by Dr Wallace in the
12 1970s lauding the effectiveness of Glasgow's system of
13 tracing blood as collected, issued and used on patients
14 by use of punched paper tape, computerisation, which you
15 won't remember but which I do as a young auditor trying
16 to audit advanced companies' books. So if there had
17 been a comprehensive system that broke down, I would
18 like to know about that. Indeed, I would like to know
19 all about the systems of recording which appear, at the
20 moment at least, perhaps to have some holes in them.

21 MR ANDERSON: No doubt that will be looked into.

22 THE CHAIRMAN: Thank you very much.

23 MR ANDERSON: Very thoroughly.

24 THE CHAIRMAN: Ms Dunlop, is that the end of today's --

25 MS DUNLOP: There is no further evidence to present in

1 relation --

2 THE CHAIRMAN: I think we can reasonably adjourn until

3 tomorrow. Thank you all very much.

4 (4.17 pm)

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

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7 MRS ROSELEEN KENNEDY (sworn)1

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