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Wednesday, 2 May 2012

(10.00 am)

(Delay in proceedings)

(10.23 am)

DR SIMON ROBERT HAYNES (called)

Questions from MS ANYADIKE-DANES

A. My full name is Dr Simon Robert Haynes.

MS ANYADIKE-DANES: Good morning. Before you give your evidence, I think it would be helpful if I explained what I have already explained to counsel as to the approach that I'm going to take with the expert witnesses in giving their evidence.

They have all provided reports, some of them a considerable number of reports. You have all had them. Those reports have been provided on the basis of witness statements that they've seen, information that they have seen and other expert reports that they have seen and considered. So you have that. I'm not proposing, unless something turns up that makes it relevant, to go through those reports, certainly not in any detail.

What they haven't had the benefit of is what the witnesses have said in their oral evidence. So, as I had explained before, my focus is on putting to the experts that evidence and seeking to have their response

1 to it and maybe having them explain certain other things
2 arising out of their report that maybe would be helpful
3 for people to have explained in this forum, rather than
4 just in the written report.

5 So that's my focus. You should all have received
6 some indication of the direction that I'm taking with
7 this witness, and you have in previous times with the
8 witnesses of fact, but this perhaps is more important
9 because we're talking about certain extracts out of the
10 transcripts. So you should have received that, and it's
11 going to be my practice to do that with all of the
12 experts.

13 THE CHAIRMAN: Just in relation to this expert, Dr Haynes,
14 the fact that Dr Taylor made significant additional
15 concessions in his oral evidence over two days, the week
16 before last, should make the giving of some of
17 Dr Haynes' evidence easier, because Dr Taylor has made
18 concessions, which he had not made at the time Dr Haynes
19 prepared his expert reports.

20 MS ANYADIKE-DANES: Yes, that's right, he had made
21 concessions that he hadn't made previously, that's
22 correct.

23 I should also say, just to finalise the
24 housekeeping, there have been some further documents
25 this morning, which you should all receive copies of.

1 There has been a witness statement from Dr Taylor and
2 along with it, although not, I think, exhibited to it,
3 has been a piece dealing with blood gas machines and the
4 use of heparin and its effects. There has also been
5 a report from Dr Taylor himself -- sorry, from
6 Dr Haynes, and with it is a protocol dealing with
7 brainstem death. So those are the further documents
8 that you will have, and I will be inviting Dr Haynes to
9 deal with those.

10 THE CHAIRMAN: Thank you. Sorry, Dr Haynes, I assume that
11 you have seen the transcript of the evidence that
12 Dr Taylor gave the week before last, have you?

13 A. Yes, thank you.

14 THE CHAIRMAN: Okay.

15 MS ANYADIKE-DANES: So then if we just, for everybody's
16 benefit, know what the reports are that Dr Haynes has
17 produced, and Dr Haynes, you can then formally adopt
18 them, subject to anything that you may wish to say
19 in the course of your oral evidence.

20 There's a report of 2 August 2011, reference
21 204-002-043.

22 7 October 2011, reference 204-004-143.

23 1 November 2011, reference 204-006-322.

24 20 February 2012, reference 204-008-353.

25 6 March 2012, reference 204-009-361.

1 There are two reports on 18 March, one dealing with
2 matters relating to the experts' meeting in Newcastle,
3 and the other dealing with, if you like, effectively
4 a closing and final report. The first is reference
5 204-012-378. The second is 204-013-389, and then the
6 most recent, which is dated 30 April 2012, the reference
7 for that is 204-014-001.

8 Just as I make reference to the fact that there is
9 a report from Dr Haynes dealing with matters in relation
10 to the Newcastle meetings, I should also say that, as
11 you know from the chairman's announcement,
12 Professor Kirkham's report is now subject to peer
13 review. I am not going to take any of the witnesses who
14 participated in the Newcastle meetings to any of the
15 views relating to Professor Kirkham. We will see what
16 happens as a result of the peer review process, and the
17 chairman will direct subsequently how we address
18 matters.

19 At present, I'm dealing with their evidence as it
20 was up until the publication of Professor Kirkham's
21 report on those issues, if I can put it that way.
22 Obviously they've got subsequent reports from that, but
23 dealing with the pre-Kirkham issues.

24 THE CHAIRMAN: Yes.

25 MS ANYADIKE-DANES: Thank you.

1 I wonder, Dr Haynes, do you have a copy of your CV
2 there? If we can call it up, it's 306-032-001.

3 We see your current position is as a consultant in
4 paediatric cardiothoracic anaesthesia and intense care
5 at the Freeman Hospital in Newcastle. You have held
6 that position since August 1994; is that correct?

7 A. That is correct.

8 Q. We see also that you have been a clinical director.
9 Can you just help, so that we can understand, what that
10 would have entailed?

11 A. The role of clinical director has evolved over the last
12 15 years or so in the National Health Service.
13 Hospitals are now divided into separate directorates,
14 usually the divisions occurring either along shared
15 infrastructure or specialities in common.

16 I was asked by my colleagues, both anaesthetic and
17 surgical, if I would consider becoming clinical director
18 of a newly identified directorate within the
19 Freeman Hospital in 2000, that being the directorate of
20 cardiothoracic services. That meant that I became the
21 clinical director of a group of approximately 30
22 consultants. Some were cardiac surgeons dealing with
23 adult cardiac surgery, some were thoracic surgeons
24 dealing with pulmonary surgery. A large number were
25 anaesthetists servicing this group.

1 Within that group was the paediatric cardiac group,
2 of which I was a member, and included the paediatric and
3 congenital cardiac surgeons and my immediate colleagues
4 in paediatric anaesthesia and paediatric intensive care.
5 It was very much an evolving role, which I kept for the
6 best part of six years, in addition to maintaining my
7 full-time clinical duties. Part of it was managerial,
8 in terms of overseeing the infrastructure, overseeing
9 the activity in terms of volume and type of work
10 undertaken by the group. I like to call it a group
11 rather than a directorate. But a large part of it was
12 dealing with what is now known as clinical governance,
13 which was a concept which was evolving in the late 1990s
14 and has become more developed latterly.

15 This meant that if there were problems within the
16 directorate, in terms of unexpected bad outcomes,
17 perceived problems with an individual's clinical
18 performance, outcomes, attitude to work, involvement
19 with patients, involvement with parents, involvement
20 with family, involvement with colleagues outside the
21 directorate, I was very much the first port of call.
22 Some of these issues were dealt with in a very
23 straightforward manner by informal, but usually minuted,
24 discussions between various individuals and their peers.

25 Items of a more serious nature, if I was unhappy

1 that they could be dealt with satisfactorily by myself
2 and my immediate peers, were referred to the medical
3 director and ultimately the trust board.

4 Q. Sorry, I wonder if I might just -- what would you
5 classify as an item of a more serious nature which would
6 lead to that consequence?

7 A. Something where perhaps an individual's outcomes were
8 less than expected, where there was perhaps a completely
9 unexpected death or inappropriate behaviour or
10 interaction with either patients or colleagues, that
11 kind of thing, a fairly wide range of problems, but it
12 meant that I knew from a large group of people
13 everything that was happening, good as well as bad.

14 Q. So can I put it in this way, when in your report
15 you have made observations or commented on how things
16 were organised in relation to the paediatric renal
17 service as it impacted on this particular case, is that
18 the sort of resource of experience and information that
19 you are drawing on?

20 A. Yes. I would emphasise that I'm now able to draw on
21 that now, but perhaps in 1995, when the events that
22 we're about to discuss took place, it was the beginning
23 of a learning process about that. But now I think my
24 experience gives me the ability to take a step back and
25 to take a complete retrospective view of events in any

1 situation.

2 Q. Thank you.

3 THE CHAIRMAN: Sorry, not only were you at the start of
4 a learning process, but so, I understand, was the
5 service in 1995 --

6 A. Yes.

7 THE CHAIRMAN: -- because governance now -- is it quite
8 different from what it was in 1995?

9 A. Yes. No one really knew what the term "clinical
10 governance" meant when it was first introduced, and it
11 has evolved into a much more structured phenomenon. In
12 1995, the term "clinical governance", people said, well,
13 it's what you look at when things aren't really going
14 terribly well, and that's about as good a starting point
15 as any, I think.

16 THE CHAIRMAN: Even in 1995, if things weren't going very
17 well, whether there was the term "clinical governance",
18 whether you had a structure, as you may do now,
19 something should have been done about things which
20 didn't go properly in 1995?

21 A. Yes. If I can give an example, without being too
22 specific. If one of my colleagues came to me and said,
23 "This individual, his last three patients haven't done
24 terribly well", I would have to appraise myself of the
25 situation, look at it as objectively as possible, make

1 my own mind up about the gravity or not of the
2 situation, if I had any doubts at all about the ability
3 to deal with it in-house, if you like, there and then,
4 I was responsible to the medical director of the trust,
5 who is responsible for the trust board.

6 THE CHAIRMAN: Sorry, when you're giving that example,
7 is that speaking as if you were in 1995?

8 A. Yes.

9 THE CHAIRMAN: Right, thank you.

10 A. I wasn't clinical director until 2000. But if the
11 clinical director in 1995 was made aware of a problem
12 that he thought was significant and he couldn't deal
13 with it himself, he was responsible to the medical
14 director, who in turn was responsible to the trust
15 board.

16 MS ANYADIKE-DANES: Thank you very much. I wonder, when you
17 were talking about your experiences of things that may
18 be of assistance to the chairman, in your sub-specialist
19 interests and expertise, you have indicated that you
20 were the author of the Freeman Hospital's PICU
21 guidelines for the provision of renal replacement
22 therapy. What are those guidelines exactly and what did
23 that entail?

24 A. If I can go back a little bit to my involvement in the
25 renal medicine aspect of my work.

1 Q. Yes.

2 A. Prior to taking up my consultant post, I was a senior
3 trainee in Newcastle, and it was felt by my future
4 colleagues at the Freeman Hospital that an incoming
5 consultant with added knowledge about renal problems
6 would be a valuable asset. So I was asked latterly,
7 just before I took up my consultant post, if I would
8 consider spending some time working in the paediatric
9 nephrology department, both to gain added knowledge and
10 also to form clinical links for future reference.

11 Q. Sorry, Dr Haynes, is that what we see over the page at
12 306-032-002? Just right up at the top there.

13 A. I haven't got it on my screen in front of me. I've
14 turned it on now.

15 Q. Is that what you see when you see in parentheses,
16 "(included 12 months paediatric anaesthesia training)"?

17 A. Right, if you look at the first paragraph:
18 "Senior registrar in anaesthesia northern
19 region, June 1992 to July 1994."
20 That included 12 months paediatric anaesthesia
21 training, some time which was spent in the Royal
22 Hospital for Sick Children in Glasgow, and one month in
23 a paediatric nephrology attachment at the Royal Victoria
24 Infirmary Newcastle-upon-Tyne. That's what I'm
25 referring to.

1 Q. Is it at that place where you met Dr Coulthard? I think
2 you have said that you worked with him before?

3 A. Yes.

4 Q. Thank you.

5 A. So that was one of the most valuable months of my
6 professional life. I subsequently took an active
7 interest in the development of renal support for acute
8 renal failure, which is different. It's a different
9 context. And latterly, in conjunction mainly with my
10 senior nursing colleagues, we've produced a manual,
11 which is really a how to do it guide to the management
12 of acute renal failure in the context of a mainly
13 cardiac intensive care setting.

14 THE CHAIRMAN: When you say latterly, when were the
15 guidelines produced?

16 A. A year ago.

17 THE CHAIRMAN: Okay.

18 MS ANYADIKE-DANES: Thank you. Your other paediatric
19 experience, I think one can see it there in your
20 previous positions on that page.

21 A. Yes. In addition to my training in paediatric
22 anaesthesia, I spent a total of a year in junior trainee
23 jobs in paediatrics in Scotland, during the 1980s.

24 Q. You also, starting at 306-032-003, have publications.
25 I'm not going to go through them in detail except to

1 invite you to say, are there any publications there that
2 you would draw our attention to that may be relevant to
3 these issues or the opinions that you've expressed in
4 your reports?

5 A. No. The main purpose of including my publication list
6 to the inquiry is really, I've had an enquiring mind,
7 always been keen to review the activity of my work.
8 It's something that our department encourages and it's
9 a demonstration of my commitment to my profession, if
10 you like.

11 Q. Thank you.

12 A. There are some publications with significant references
13 to children with a renal impairment, but it's as
14 a secondary involvement.

15 Q. Thank you. I wonder if I could now ask you, by way of
16 a preface to the evidence that you're going to give, to
17 go through, just in a summary way, a document that you
18 attached to one of your reports. If we can pull it up
19 now, 204-004-294.

20 There we are. That's an extract from a textbook,
21 isn't it? In fact, I think it was attached to your
22 second report of 7 October 2011?

23 A. That's correct, yes.

24 Q. I wonder if it's at all possible to increase the size of
25 that diagram. There. Now, can you help us by --

1 I think there are three or four diagrams that I think
2 you've indicated might help set the scene, if I can put
3 it that way, for the fluid management and particularly
4 in relation to sodium.

5 A. Yes. I thought it would be helpful with my -- with the
6 reference that I provided and for the benefit of those
7 listening, this is an undergraduate textbook in medical
8 physiology. This particular edition dates back to the
9 late 1970s or early 80s, I can't remember, but it's one
10 that I kept from my days as a medical student, and I've
11 enclosed a section from the opening chapter, which is
12 called "Introduction".

13 A lot of what is germane to the case that we're
14 discussing revolves around what the human body or how
15 the human body deals both with water and with sodium
16 ions. And before looking in depth at what did or didn't
17 happen in the case that we're discussing, I thought
18 it would be helpful perhaps just to show some
19 illustrations.

20 This diagram shows roughly how water is distributed
21 within the human body. Starting at the bottom, there's
22 a big block, which is labelled "Intracellular fluid, 40
23 per cent of body weight". What that is saying is that
24 for those of us in this room, say for the sake of
25 argument that there's a man weighing 100 kilograms,

1 about 40 kilograms of that weight will be water, which
2 is contained within the cells of his body. Okay?

3 Then the next block, it says "Interstitial fluid, 15
4 per cent of body weight". So for the same 100-kilogram
5 man, that would mean that about 15 kilograms of his body
6 weight is water, which is neither in his bloodstream, in
7 his circulation, nor contained within his cells but is
8 fluid that is within his tissues but not in either of
9 those compartments.

10 Then the top bar is the plasma component of blood.
11 Now, "plasma" is the term used to describe blood once
12 the cellular components have been removed. So once the
13 white blood cells, the red blood cells and the platelets
14 have been removed, you're left with a solution
15 containing various electrolytes and plasma proteins.
16 It is with the blood that the lungs interface for gas
17 exchange, that the kidneys interact with for fluid and
18 electrolyte regulation, and it is the blood by and large
19 with which the intestines communicate with to take both
20 fluid and nutrition on board within the body.

21 So we can see that the human body has a lot of water
22 in it, a lot of it is contained within cells, some of
23 it is between cells, and only a small amount is actually
24 in the bloodstream at any moment in time.

25 Q. Is there then another diagram, I think at 204-004-296,

1 which deals with -- well, in layman's terms -- where the
2 sodium is?

3 A. Yes. Could you blow up the diagram a bit, please?

4 Thank you.

5 This is another diagram taken from the same chapter
6 in the same textbook. It's looking at what the solutes,
7 ie the non-solvent, non-water constituents of the
8 various body fluid and compartments are.

9 Perhaps slightly obtusely, if we start on the right
10 with intracellular fluid, that is water that is
11 contained within the cells of the body. We can see that
12 it contains a lot of potassium, quite a lot of
13 magnesium, protein, phosphate and not very much sodium,
14 and the cells of the body pump sodium out and allow
15 potassium to stay within.

16 Next we move to the interstitial fluid, and again
17 we can see that within this fluid compartment there,
18 conversely, is a lot of sodium, not much potassium, and
19 quite a lot of chloride ions.

20 Then if we move to the plasma component of blood,
21 we can see again that it normally contains quite a lot
22 of -- well, a large concentration of sodium and chloride
23 ions and not much potassium.

24 Q. Then if we go perhaps to another diagram, maybe the
25 final diagram, unless there is another one you want to

1 call up, which is 204-004-298. We can look at this

2 process of osmosis, which is all about movement?

3 A. This is a wonderfully simple diagram, which I think is
4 particularly germane to the cases addressed by this
5 inquiry. It is demonstrating the phenomenon of osmotic
6 pressure. Now, osmosis refers to the movement of
7 solute -- sorry, solvent rather than solute, which is
8 what is dissolved in the solvent, if that makes sense.

9 Q. Yes.

10 A. So this diagram is composed of two parts, A and B. If
11 you look at the top part, diagram A, it's a very simple
12 diagram, which describes a U tube with a semi-permeable
13 membrane across which water can be transmitted or can
14 flow. And in the right-hand part of the U tube is
15 a solution, which could be any solution, but I think
16 they use glucose in this example. In the left-hand part
17 is just water.

18 So what happens by the time we move to part B of the
19 diagram is you can see that the water level -- or the
20 fluid level has risen in the right-hand part and
21 diminished in the left. That is because water has
22 travelled across the membrane, which is permeable to
23 water but not to a solute, into the solution until it
24 has reached the point where the hydrostatic pressure of
25 the column of fluid is balancing the Drago(?) solvent

1 into that solution. So we can see what happens when
2 a weak solution is mixed with a strong solution, how
3 water will flow across a semi-permeable membrane, such
4 as described, a cell membrane around the cells in our
5 body.

6 Q. Why do you say this series of three diagrams are so
7 important for the issues, certainly that you wish to
8 discuss in relation to this case and others that the
9 inquiry is dealing with?

10 A. Because I think a lot of people don't appreciate how
11 much of your body is water and how vitally important the
12 concentrations of various substances dissolved in it --
13 how vitally important it is to -- the maintenance of
14 structure and function, that these are regulated within
15 normal limits. Otherwise we can see, for example, that
16 if we were to say that this speckled part in diagram A
17 is a salt solution, that water will flow in to try and
18 balance the hydrostatic pressure against the osmotic
19 pressure. And we can see that if different amounts of
20 sodium are contained in that speckled part of the
21 diagram, then different volumes of water are going to
22 flow across a semi-permeable membrane.

23 Q. You prefaced all of that by saying that this was
24 a student textbook that you had from your student days,
25 which would have pre-dated the events of Adam's surgery,

1 and that these three diagrams come from the very
2 introduction to that.

3 A. That's correct.

4 Q. So in terms of what happened in relation to Adam's fluid
5 management, how do you categorise what Dr Taylor has
6 conceded were errors?

7 A. I think to put it into context, I think that some of the
8 things that occurred he believes to be errors, perhaps
9 he's revisited this chapter or a similar chapter and
10 thought about it along those lines.

11 Q. No, I don't mean that.

12 A. Sorry.

13 Q. Well, that is a helpful observation. But what I am
14 trying to find out is how basic are the errors, how
15 basic do you regard those errors to be?

16 A. Very basic.

17 Q. Well --

18 A. Can I elaborate on this?

19 Q. Yes.

20 A. I used this particular chapter to help my son with his
21 GCSE biology exam.

22 Q. Right. Well, I wonder if we can go, just to bring it
23 into the evidence that we have heard, to the transcript
24 of 19 April and go to page 29, starting at line 15.
25 There we have Dr Taylor going through the fluid

1 management charts, which were the comparative charts,
2 which make comparisons. I won't bring that chart up now
3 because we've seen it many times, and I think he goes on
4 to explain that his chart actually reflects his changed
5 position and not the position in 1995, when he was
6 formulating the plan for Adam's fluid management.

7 Are you able to understand how a consultant
8 paediatric anaesthetist could have made the statements
9 that he did in his witness statements? You have read
10 his witness statements.

11 A. Yes.

12 Q. You have read his statement under caution to the police.
13 Are you able to understand how he could make those
14 statements in relation to the matters that are of
15 concern to you as an anaesthetist?

16 A. I'm afraid it's beyond my comprehension how he was able
17 to make those statements.

18 THE CHAIRMAN: To be fair to Dr Taylor, he's also conceded
19 it's beyond his comprehension how he could make those
20 statements.

21 A. Yes, but referring to the original statements, that's my
22 view.

23 THE CHAIRMAN: Yes.

24 A. But subsequent to reading Dr Taylor's later and latest
25 statements, he now agrees.

1 THE CHAIRMAN: Yes.

2 MS ANYADIKE-DANES: Yes. I'm trying to approach it in
3 a slightly different way from you, from I think in the
4 way it has just been put to you, which is he does
5 concede that he made those errors. What I'm trying to
6 see if you can assist us with is, if those sorts of
7 errors were made in 1995, then what further information
8 would you as an anaesthetist require to have to enable
9 you to appreciate that you had made those errors?

10 A. I don't quite know how to begin this. This is quite
11 a large topic. It perhaps would lead us on to
12 a discussion of how to manage fluid therapy and fluid
13 balance in a major operation.

14 Q. Well, let me put it a different way. You have described
15 those -- taking just those three diagrams as a way to
16 try and encapsulate what is happening, and you have
17 described that as in the introduction of a student
18 textbook. You have said that I think you regard that as
19 fairly basic information. Is there anything different
20 between what you were writing in your reports as to
21 Adam's fluid management than was being written in
22 Dr Sumner's reports, or any of the other reports that
23 commented on the fluid management?

24 A. The theme of Dr Sumner's report was very similar to
25 mine. The stance adopted by Dr Coulthard is very

1 similar to mine. The stance adopted by Professor Gross
2 is very similar to mine. And the stance latterly
3 adopted by Dr Taylor, again, is not too dissimilar to
4 mine.

5 It may help to refer to a reference from my first
6 report, which is from a postgraduate textbook in
7 paediatric anaesthesia.

8 Q. Yes.

9 A. If you bear with me just a second, I can give you the
10 page number.

11 Q. Well, your report -- that first report starts in its
12 substance at 204-002-020. I'm not entirely sure which
13 is the reference you would wish us to call up.

14 A. I've quoted two textbooks of paediatric anaesthesia at
15 various times in my various reports. One dates from
16 1993 and one, a more recent one, edited or originally
17 edited by Professor Sumner.

18 Q. If we go to 204-002-040, it will be the list of the
19 references.

20 A. The reference starts 204-002-127.

21 Q. Is that the Philadelphia 1993?

22 A. Yes, that is The Practice of Anaesthesia for Infants and
23 Children, emanating basically from Harvard Medical
24 School. It was published in 1993 and it's the textbook
25 that I used when I was a trainee latterly.

1 Q. What about that textbook exposes the basic nature of the
2 task that faced Dr Taylor, if I can put it that way?

3 A. Right. Within this chapter, which I have included, if
4 we could perhaps turn to 204-002-131.

5 Q. Yes.

6 A. Look at the right-hand column, the heading
7 "Electrolytes", if I may read it out, the first
8 sentence:

9 "Although salt-free solutions such as 5 per cent
10 dextrose are available for fluid administration, these
11 solutions should not be used indiscriminately because
12 water intoxication and hyponatraemia may result."

13 Q. And that's 1993?

14 A. That's 1993 in a standard textbook of paediatric
15 anaesthesia.

16 Q. Thank you.

17 THE CHAIRMAN: And that wasn't breaking news in 1993? Was
18 that a repetition of what the knowledge was before, or
19 was that breaking news in 1993?

20 A. Can I be allowed to put a slightly historical context in
21 how things have evolved?

22 THE CHAIRMAN: Yes.

23 A. Which hopefully will help the inquiry. It's always been
24 the case that fluid management and electrolyte
25 management, you're trying to -- with the information

1 you have available -- restore the body as much as
2 possible towards a healthy situation such as described
3 in the diagrams I began my morning with.

4 Before I saw this textbook, I was taught verbally by
5 my senior colleagues when I was a trainee that fluid
6 replacement or intravenous fluid therapy, very broadly
7 speaking, had two components. One was to give what the
8 body would normally take in that wasn't being given for
9 whatever reason, so if you were fasting for a reason in
10 hospital, had to fast, this is what would be given to
11 maintain the status quo. The other component is to put
12 back what's been lost for whatever reason. And working
13 from that stance, the only time that one ever gave
14 hypotonic fluids really was to provide what was not
15 being provided because a person wasn't able to eat or
16 drink.

17 Now, historically -- and I think it was very
18 important to look at 1995 from 1995 -- if you like, the
19 use of hypotonic fluids was much more widespread in
20 paediatrics and in general hospital medicine in the
21 early 1990s. I think it would be a digression to talk
22 about the paper which generated all of that in 1958, but
23 the unfortunate extrapolation of that information
24 is that people have -- or clinicians have, with the best
25 of intentions, often assumed that fluid deficit can be

1 made up with hypotonic solutions of the variety normally
2 used to provide maintenance therapy as opposed to
3 replacement therapy.

4 Does that help? Does that make sense?

5 THE CHAIRMAN: It does.

6 A. I'm sure we'll come back to some of the questions,
7 but ...

8 MS ANYADIKE-DANES: But in terms of the development of the
9 condition of hyponatraemia in children by the
10 overadministration of low sodium fluids, I think what
11 the chairman's point was there was nothing new in that?

12 A. No, that was basic teaching from a very early stage. As
13 a junior houseman or senior house officer, you were
14 responsible, at the onset of your medical career, for
15 prescribing and overseeing intravenous fluid
16 administration. Some senior consultants took an avid
17 interest in getting it right, some were less interested,
18 but the theme was always there, that you had to take
19 into consideration the context of the patient, what
20 fluid was being lost, what electrolytes were being lost,
21 and try and give the appropriate volume and the
22 appropriate kind of fluid.

23 Q. Thank you.

24 A. It doesn't mean to say that we always got it right.

25 Q. No. Then just so that we have it, in terms of --

1 I think you're speaking generally about the use of
2 intravenous fluids. But Adam, of course, had a renal
3 condition. He had a renal disease. Now, was there
4 anything about that renal disease that changed the basic
5 premise as to the effects of overadministration of low
6 sodium fluids?

7 A. Yes. In health, or certainly in renal health, perhaps,
8 if we consider that, the kidney is very forgiving as to
9 what is ingested or given to the body. And usually,
10 barring unusual circumstances such as major illness or
11 injury, the kidney and the hormonal responses of the
12 body, which ultimately are enacted by the kidney, are
13 very good at sorting out whatever cocktail of fluid is
14 taken in by the patient or individual.

15 So, for example, if you were to drink more water
16 than you need to, for whatever reason, your kidneys
17 would sort it out for you.

18 Q. What do you mean by that? How would they respond to
19 that?

20 A. If you drank a lot of non-electrolyte containing fluid,
21 water, your kidneys would be able to shed as urine
22 a large volume of dilute urine not containing much in
23 the way of sodium. Likewise, if you took in an excess
24 of salt, your kidneys would be able to regulate the
25 amount of sodium and chloride that you retained in your

1 body.

2 Adam's kidneys, although they produced urine, were
3 not able to regulate either the volume of urine produced
4 in response to whatever he took in, nor were they able
5 to regulate the content as in concentration of various
6 substances dissolved in his urine. So that meant that
7 his kidneys were not able latterly, certainly in the
8 time he was dialysed, to be able to regulate in the same
9 way as a person with healthy renal function the water
10 and sodium content of his blood.

11 Q. What would the implications of that be for his fluid
12 management?

13 A. The implications of that were that the normal safety
14 buffer of healthy kidneys wasn't there. The people
15 looking after him, be that the medical staff or his
16 mother, as I understand, who undertook his dialysis,
17 would have to look at what went into him, what came out
18 of him, and periodically, particularly if he was unwell,
19 measure what was put out in terms of volume,
20 concentration and what went in and what is in his blood
21 by blood tests.

22 Q. So they're effectively doing the regulation?

23 A. Yes, but it's nowhere near as efficient as your own
24 kidneys looking after your own fluid and electrolyte
25 homeostasis.

- 1 Q. From a point of view of an anaesthetist, is that itself
2 a difficult concept, that if you're dealing with a child
3 who has end-stage kidney failure, that you have to pay
4 attention to that and apply very carefully the
5 principles of fluid management in terms of the
6 consequences of low sodium? Solutions?
- 7 A. Yes. Because Adam's kidneys weren't, first of all, able
8 to regulate the volume of fluid lost, there would have
9 to be attention paid to the total amount of fluid in his
10 body, in particular in his circulation.
- 11 Q. Sorry, I didn't explain myself. What I meant is: is
12 there anything new for an anaesthetist in recognising
13 that that's what he has to do?
- 14 A. No. You have to be able to assimilate the information
15 available to you and guide and synthesise it in your own
16 mind so you have some idea of what Adam or the patient
17 such as Adam is going to need in terms of fluid
18 replacement for whatever circumstance you're dealing
19 with.
- 20 Q. But does the principle change, that an
21 overadministration of low sodium fluid is going to
22 produce adverse consequences?
- 23 A. The same principle applies, but more so.
- 24 Q. More so?
- 25 A. Yes.

1 Q. And is the anaesthetist supposed to appreciate that?

2 A. Yes.

3 Q. In 1995?

4 A. Very much so.

5 Q. So then, a final question I want to ask you in this
6 section is, we know from Dr Taylor's CV that he had
7 a teaching position and he had quite a lot of contact
8 with students. Is there any concern that you have?

9 A. Well, I don't know exactly what he taught and how he
10 presented it.

11 MR UBEROI: Can I rise to pick up on that observation?
12 There wasn't really any direct evidence taken as to
13 Dr Taylor's precise teaching, and I'm concerned with the
14 generality of the question.

15 MS ANYADIKE-DANES: It was a very general question and
16 I apologise for that. I didn't mean it be quite as
17 general as it came out.

18 What I'm trying to get at is, you have explained how
19 you think all of this that you have been explaining to
20 the chairman and to everybody else is fairly basic
21 stuff. What I'm trying to find out is if there are any
22 concerns that you would have that somebody who is
23 in that position and engaging in teaching medical
24 students could make those sort of errors and not
25 recognise they had made those sorts of errors for about

1 17 years.

2 A. The short answer to that is yes.

3 Q. You would have concerns?

4 A. Yes. But I would have to add a caveat that I do not
5 know what he was teaching.

6 Q. Yes. That I understand. But I hadn't put it in quite
7 that way. It's the fact of making that sort of error
8 and not apparently being able to appreciate, recognise
9 or acknowledge that those sort of errors had been made
10 for so long. That's the issue that I had really put to
11 you.

12 A. I think that is an issue.

13 Q. Of concern?

14 A. Yes.

15 Q. Thank you. I wonder if we could go to -- staying with
16 the transcript of 19 April and go to page 101.
17 If we start with line 7, and we can go over the page in
18 a minute.

19 The transcript here is dealing with Dr Taylor's
20 evidence in relation to the renal protocol, transplant
21 protocol. He essentially, if I may summarise him,
22 somebody correct me if I've misrepresented him, says he
23 doesn't recall seeing it or really knowing about the
24 renal transplant protocol, I believe, at the time.

25 He says:

1 "I can't remember if there was one."

2 At line 14.

3 Then in line 24:

4 "I can't recall. I can't recall having made
5 reference to it, which would confirm that I hadn't seen
6 it, so without making reference to it, I can't
7 speculate. I just can't recall seeing it before his
8 [Adam's] inquest."

9 Then at line 11 he deals with whether he actually
10 asked about one.

11 He says:

12 "I didn't keep a record of the telephone call so
13 I can't say if I asked: was there a protocol?"

14 What I want to ask you is: would you expect to
15 either see or know about a transplant protocol?

16 A. I think there's two -- there's a slightly broader issue
17 here about the development of a service.

18 MR UBEROI: The generality of the question, I would be
19 concerned that the witness doesn't answer it under the
20 mistaken impression that there's a transplant protocol
21 that was, as it were, a tablet of stone which everyone
22 should know about. If it could be contextualised.
23 Perhaps if he could be shown it and asked specifically
24 what it is that would be useful to an anaesthetist from
25 it, and also reminded of Professor Savage's evidence

1 that it was effectively an aide-memoire for him, the
2 nephrologist.

3 MS ANYADIKE-DANES: I'm sure you have seen it yourself.

4 It's 002/2, page 52. There it is. Dr Savage did give
5 evidence that he had developed it out of his own
6 experience as an aide-memoire. He had recorded
7 effectively the sort of things he would have told junior
8 doctors and so forth and then developed it in this way,
9 and, as you know, it has been revised.

10 MR FORTUNE: Sir, can I rise at this stage to give the
11 reference for that. It's the transcript of 17 April.

12 It's at page 25. The questioning starts at line 11:

13 "Am I right in saying that you devised that
14 protocol?"

15 THE CHAIRMAN: Thank you.

16 MS ANYADIKE-DANES: Yes. Shall we look at that? Line 11:

17 "Am I right in saying that you devised that
18 protocol?"

19 "Answer: Yes.

20 "Question: When you did, what was your purpose in
21 doing so?"

22 "Answer: The purpose of the protocol was so that if
23 any child came into hospital for a renal transplant,
24 that whether you were a nurse or a junior doctor or
25 indeed myself or anyone else involved that they could

1 look at the protocol and say: this is the standard way
2 that we proceed with the transplant, these are the tests
3 that need to be done when the child comes to the ward,
4 this is the information that we need in terms of
5 biochemistry, blood tests, X-rays, before we proceed to
6 theatre. It also lays down, for instance, for the
7 junior doctor what bloods they need to take."

8 And so on.

9 He did go on to say that it was not necessarily set
10 in stone, if I can put it that way, it was a guidance.
11 But in any event, what he is highlighting there is what
12 its purpose was. So bearing in mind that that is the --
13 shall we go over the page?

14 MR FORTUNE: Over the page to page 26, line 25.

15 MS ANYADIKE-DANES: Thank you. There we are:

16 "Well, in a way it's a ..."

17 Let's just go to the question:

18 "Can you take us through though what it is that you
19 are requiring to happen from this page and who the
20 target is for these activities?

21 "Answer: Well, in a way it's an aide-memoire for me
22 but more importantly, it is for the junior doctor to
23 know when he's taking the history, writing the notes,
24 examining the child and organising the investigations,
25 what I expect to be done. I would have regarded it as

1 my responsibility then to go through and check that all
2 those things had been done."

3 And so on.

4 THE CHAIRMAN: I think the point of the interventions,
5 Dr Haynes, is that it's not entirely clear from
6 Professor Savage's evidence that this protocol or
7 aide-memoire or guide was for Dr Taylor.

8 A. If I could perhaps make one or two comments,
9 Mr Chairman. I think it's important that one
10 differentiates between the word "protocol"
11 and "guidelines". Protocol is something that has to be
12 strictly adhered to, A follows B follows C. Guidelines
13 are more an aide-memoire, these are the kind of things
14 that should be taken into consideration when such
15 a patient presents for such-and-such an operation.

16 It's also very important to compare and contrast the
17 situation in 1995 with the current decade, where any
18 guideline or protocol can be rapidly called up on
19 a computer screen, such as that in front of me, whereas
20 protocols and guidelines may accumulate, occasionally
21 looked for in dusty folders in the corner of a ward
22 office.

23 MS ANYADIKE-DANES: Yes. I was actually going to come to
24 that. That was my next point before you explained that.
25 Dr Savage's evidence is that this guideline, protocol,

1 document, maybe that's a neutral way, was on Adam's
2 medical notes and records. Now, having heard what its
3 purpose was and that it was on his medical notes and
4 records, is it something that you would expect the
5 paediatric anaesthetist who was coming in to do the
6 transplant and who was reading Adam's medical notes and
7 records to be aware of?

8 A. Yes. If it had been displayed in an accessible,
9 prominent position, then very much so. If it, for
10 example, was buried under a pile of other paperwork in
11 a shelf in a corner of the ward office, then I can quite
12 see how any individual can fail to be made -- or can
13 make himself availed of such a document.

14 Q. Yes, but if you're a consultant paediatric anaesthetist
15 coming in to perform anaesthesia in the paediatric renal
16 transplant unit, would you expect to ask whether there
17 were any protocols, even if you didn't happen to see it
18 on his medical notes and records when you checked that?

19 A. Yes. Maybe we've talked or we will at some juncture
20 talk about what may or may not have been said between
21 Doctors Taylor and Savage, but an appropriate question
22 which I can envisage and have asked myself in various
23 situations is: have you got anything written down to
24 help me with this?

25 Q. Yes.

1 MR FORTUNE: Can we be sure we're talking about 1995 because
2 it's very easy to slip into 2012 and what is now
3 expected.

4 THE CHAIRMAN: I accept that.

5 I understand, Dr Haynes, it's now much more
6 prevalent for there to be protocols on a whole lot of
7 issues, not just about renal transplants. Is that
8 right?

9 A. Yes. Because of the ease of access, because of
10 electronic versions. In 1995 it was quite hard
11 sometimes, unless it was presented in front of your nose
12 by somebody saying, "Please read this" --

13 THE CHAIRMAN: Right.

14 A. -- to even be aware that there may have been a protocol.

15 THE CHAIRMAN: And if it wasn't put under your nose, would
16 you necessarily go looking for it or in those days would
17 you think -- you wouldn't assume that there would be
18 something to go looking for, would you?

19 A. You wouldn't assume, but I think looking back at times
20 in my professional life when I've been asked something
21 a little unusual, I have asked senior colleagues, "Have
22 you anything written?" The very question, "Have you
23 anything written down that I can follow or have you
24 anything written down that may be of help to me?"

25 MS ANYADIKE-DANES: Thank you.

1 MR FORTUNE: Sir, I rise again, based on that last answer.
2 Bearing in mind Dr Haynes' speciality or sub-speciality,
3 cardiothoracic anaesthesia, when asked to do something
4 unusual, this, in relation to Dr Taylor, was
5 a paediatric renal transplant anaesthesia well within
6 the competence of a paediatric consultant anaesthetist.
7 That's the evidence we're going to hear from Dr Haynes.
8 THE CHAIRMAN: Yes, but that doesn't mean it's not unusual.
9 The fact that it's well within his competence doesn't
10 mean -- it doesn't follow from the fact that it is
11 within his competence that it isn't something which is
12 also unusual.
13 MR FORTUNE: Well, perhaps we can clarify --
14 THE CHAIRMAN: There's a judgment call to be made. The
15 evidence has been that this was a -- I think Dr Savage
16 and Mr Keane have both said that this operation was
17 within the competence of a consultant paediatric
18 anaesthetist.
19 A. They have, and I have in my report as well.
20 THE CHAIRMAN: Yes. Would that mean that it wasn't unusual?
21 A. It was unusual in terms of the numbers carried out that
22 any one consultant may not have seen any or a small
23 number. But if you look at what is encompassed by the
24 term "paediatric anaesthesia", a consultant paediatric
25 anaesthetist, at regular intervals throughout his

1 working life, will be presented with things he's never
2 specifically seen before but which should lie within his
3 competence.

4 THE CHAIRMAN: And then the intervention by Mr Fortune was,
5 in that scenario do you go looking for or make a query
6 about whether there's anything written down or not?

7 A. The answer to that is yes.

8 THE CHAIRMAN: That's an option rather than a must.

9 (11.21 am)

10 (A short break due to a technical failure)

11 (11.26 am)

12 MS ANYADIKE-DANES: Dr Haynes, I wonder if I can deal with
13 matters in this way. If we can go to witness statement
14 008/6, page 2. This is the witness statement of
15 Dr Taylor of 1 February 2012.

16 There you see the second paragraph:

17 "Adam was the first renal transplant that I was
18 asked to anaesthetise since my appointment as
19 a consultant anaesthetist in February 1991."

20 So if we bear that in mind.

21 Then if we go to the transcript of
22 Professor Savage's evidence, which was 17 April 2012,
23 page 26, line 19. There he is answering my question,
24 which perhaps, in fairness, I should put:

25 "Can you just take us through, firstly, was it

1 a guide, did you really expect to people to follow this?

2 "Answer: Both.

3 "Question: Well, how important did you regard it

4 that people actually carried this out?

5 "Answer: I think it was important, yes."

6 And if we move on to page 41, line 1:

7 "Was a copy of it placed on Adam's file?

8 "Answer: Yes.

9 "Question: When would that have happened?

10 "Answer: As soon as he was admitted. Every child

11 who's admitted would have a copy of that provided with

12 their notes.

13 "Question: So it's not when he goes on to the

14 register?

15 "Answer: No, no, no. In the ward, we would have

16 a renal file and in it would be a transplant protocol.

17 So when someone comes in for a transplant, you would

18 take a copy of the protocol and have it available with

19 the notes or at the nursing station for everyone

20 involved to have a look at."

21 Now, I'm not going to parse all the way through

22 Professor Savage's evidence and pick up every time he

23 refers to the protocol and his various views on it, but

24 you heard right at the beginning the context of it was

25 it was supposed to inform people as to what he really

1 expected to happen in relation to paediatric renal
2 transplant. That was the first thing.

3 The second thing, he says that it was placed on the
4 file. So it was there and intended to be there to help
5 people.

6 The third thing is that Dr Taylor has conceded
7 himself that he was not and nobody would regard him as
8 an experienced paediatric anaesthetist in renal
9 transplants. He hadn't done very many and he'd actually
10 only done one as a consultant. Nobody had done very
11 many at that stage in the Children's Hospital. So
12 that's the third thing to bear in mind.

13 It's in that context that I ask you, to what extent
14 would you have expected, in 1995, the anaesthetist to
15 have asked whether there was any guidance, anything in
16 writing, I think is your term, in relation to what
17 happens?

18 A. I thought I answered that previously, but I'll say it
19 again. If I was going along in the 1990s to
20 anaesthetise something that's not straightforward but
21 within my capabilities, there is a senior colleague of
22 another speciality there involved in the patient.
23 Again, putting it in the context, it's out of hours, at
24 the end of what could have been a long weekend for
25 Dr Taylor. The obvious thing to say: have you anything

1 written down to help me? Or words to that effect.

2 Q. Thank you. I wonder if I could ask you a question
3 that --

4 MR FORTUNE: Sir, I hesitate to intervene, but the way this
5 topic has now been left leaves hanging in the air what
6 exactly Dr Haynes would expect to see. Because these
7 questions have been tailored, if you'll excuse the pun,
8 directly to the protocol that was in existence at the
9 time. If Dr Haynes had been in the place of Dr Taylor
10 and had asked, "Is there anything in writing?" and
11 he was then presented with the protocol -- and perhaps
12 that can come back on screen, it's witness statement
13 002/2, page 52.

14 If you had asked and been presented with that
15 document --

16 THE CHAIRMAN: How much benefit would it have been?

17 MR FORTUNE: Absolutely.

18 THE CHAIRMAN: Let's ask Dr Haynes that.

19 Doctor, it is up on screen in front of you and
20 I think that it's page 52, and possibly if you put up
21 page 53 because they might ... Okay? Because page 54
22 goes on to post-operative management.

23 So if we look at pages 52 and 53, if you had asked
24 Dr Savage for that, had you been in the Royal in 1995,
25 and you had been given that, what would that have

1 informed you of to help your operation?

2 A. The first line, residual renal function and urine
3 output. Type of dialysis. Drug therapy, state of
4 nutrition and hydration. Blood pressure. Height and
5 weight. The expectation that contemporaneous blood
6 tests would be made available, some of which are
7 specifically related to the care of the transplant and
8 some of which are specifically related to the
9 anaesthesia and operative process. Consent is something
10 different, which I suspect I'll be asked about at
11 another time.

12 Assess degree of fluid restriction. Aide-memoire
13 for people organising it. Intraoperative fluids.
14 A fairly general statement saying that continuous
15 ambulatory peritoneal dialysis patients may be
16 relatively hypovolemic and hypoalbuminaemic. A reminder
17 that blood, plasma or half-strength saline may be
18 required before unclogging the artery, which is dealt
19 with in much greater detail in the two plus -- the
20 Newcastle protocols --

21 THE CHAIRMAN: Yes.

22 A. -- that you have available.

23 MS ANYADIKE-DANES: I think the question is directed at, if
24 you may forgive me, Mr Fortune, if you had asked "Is
25 there anything in writing?", as you said you would, and

1 you'd be presented with that, is that a helpful document
2 to you?

3 A. Yes, it would certainly make you think about the things
4 that one would hope would have been thought about.

5 THE CHAIRMAN: But the first section under "Note", is that
6 not information which you would have from the notes and
7 records which are going to be made available to you
8 before you anaesthetise Adam?

9 A. Which I understand were 10 volumes.

10 THE CHAIRMAN: Well, yes, but --

11 A. If someone was able to give you a concise summary of the
12 state, in this case, of Adam's urine output, renal
13 function, in a short period of time or one paragraph of
14 writing, that would be very helpful indeed.

15 MS ANYADIKE-DANES: Can I just follow up on that. If you
16 saw that, would it convey to you that somebody might
17 have actually summarised those matters from his medical
18 notes and records?

19 A. If I saw that, I would expect to either have it
20 presented concisely, single-page bullet points, or if
21 I couldn't untangle information, it would be perfectly
22 appropriate to pick up the telephone and, on this
23 occasion, speak to Dr Savage and ask --

24 Q. And just run through that protocol and say, "What's the
25 position on this --

1 A. Because there's no such question as a daft question if
2 you don't know the answer.

3 THE CHAIRMAN: This leads really into the slightly separate
4 issue of multi-disciplinary meetings in advance of the
5 transplant, doesn't it?

6 A. Yes, it does, but there's still ... Perfectly
7 reasonable, and I have done it and continue to do it, if
8 I'm faced, as I said before we adjourned, with something
9 you're not too familiar with but you should be able to
10 do, the easiest thing is to pick up the telephone or
11 speak to someone face to face and say, "Can you just
12 remind me of the things I need to remember here?"

13 MS ANYADIKE-DANES: I beg your pardon, Mr Fortune, just one
14 last -- and this could have provided a checklist for
15 doing those things?

16 A. Yes, whether it's a checklist or whether it's the kind
17 of things you need to think about and maybe "I don't
18 know the answer to that, perhaps I should ask somebody
19 or perhaps I should look in the notes to find that out".

20 MR FORTUNE: Sir, it comes back to the question of: what
21 would this document tell you? To the proposed operation
22 comes an experienced paediatric consultant anaesthetist.
23 No doubt Dr Haynes will confirm that when he would have
24 approached a situation like this in 1995, he would
25 already have in his mind a mental checklist: what do

1 I need to know about the proposed operation?

2 What does he actually learn from this document that
3 Dr Haynes, as an experienced paediatric consultant
4 anaesthetist, doesn't already have in his mind?

5 THE CHAIRMAN: Okay. Do you get that point?

6 A. I think -- can I just check that I'm understanding this
7 correctly? The question you are asking is: should I not
8 be thinking these things and seeking the answers before
9 I read a document?

10 THE CHAIRMAN: Or without a document. I think the point is,
11 without this document, would you not have been asking,
12 thinking of these issues and asking yourself these
13 questions in any event?

14 A. Yes.

15 THE CHAIRMAN: So that the document does not add to that?

16 A. Yes. I think that's probably a fair appraisal of my
17 interpretation of it. If you -- if you run through the
18 scenario and you as an anaesthetist say, "I'm going to
19 be presented with this patient, step A is this, step B
20 is that, the surgeon's going to do that, the patient's
21 underlying condition is this. I'm not too sure what
22 that is, perhaps I'd better find out", you should be
23 able to run through a mental checklist of what you're
24 going to be faced with, and if you can't answer the
25 questions in your mind before you start --

1 MS ANYADIKE-DANES: Mr Chairman, I think that Dr Haynes is
2 answering a slightly different question. If Mr Fortune
3 will forgive me, I think there's a bit of a submission
4 creeping into his question.

5 MR FORTUNE: Sir, I make it plain, there is no submission.
6 I'm just trying to tease out through the chairman what
7 it is that this document would have told Dr Haynes in
8 1995 over and above the mental checklist that he's
9 already referred to. He comes to an operation,
10 Dr Haynes is an experienced consultant anaesthetist. He
11 knows what he wants to elicit. How he elicits it is
12 a matter for him, whether he talks to Professor Savage,
13 looks at records or a combination of both. What exactly
14 does this document add to the knowledge of the mind of
15 an experienced paediatric consultant anaesthetist?

16 MS ANYADIKE-DANES: If Mr Fortune will forgive, I think that
17 Dr Haynes has actually answered that in part. Firstly,
18 he said this is an operation that could be considered to
19 be out of the ordinary for Dr Taylor, not necessarily
20 out of his ability to carry out, but out of the
21 ordinary. And in those circumstances, he has said at
22 least three times now, if the transcript can be checked,
23 that in those circumstances you would routinely ask: is
24 there anything in writing? That's the first thing.

25 The second thing he said, this is coming, as I think

1 he posited, at the end of perhaps a very busy weekend.
2 It would be useful to have a document you just run
3 through.

4 And the third thing he said, if you look at the fact
5 and under history on admission and examination on
6 admission, there is notes, it may suggest to him, if
7 he had this, that somebody had helpfully put together
8 that information for him, and that would enable him to
9 ask: where is that? Instead of having to plough through
10 the 10 volumes, or whatever it was, of Adam's medical
11 notes and records. So I think Dr Haynes is answering
12 the question and I think has answered the question, and
13 I wonder if I might move on.

14 THE CHAIRMAN: I have got the point.

15 Can I just ask you one more thing about this. This
16 is described as a protocol. Actually in terms of what
17 Dr Taylor was to do, is it actually a protocol?

18 A. No.

19 THE CHAIRMAN: It is in effect an aide-memoire, isn't it?

20 A. Yes.

21 THE CHAIRMAN: Thank you. Sorry, and that's not to diminish
22 the value of an aide-memoire, but this is not a protocol
23 which says: you must do one, you must do two, you must
24 do three.

25 A. Can I refer you to one of my references?

1 THE CHAIRMAN: Yes.

2 A. Bear with me a minute, I'll get you the page number.

3 The reference starting 204-002-066.

4 MS ANYADIKE-DANES: Yes, we have that. Do you want to take

5 us to something?

6 A. Right. The point of differentiating between an

7 aide-memoire, protocol and guidelines is that this

8 document, which comes from Stanford University in

9 California, came, I think, from the early 2000s, so it's

10 not quite contemporaneous, but it spells out in very

11 simple sentences what to look for and what to do. That

12 is called a guideline, but it's a clear guideline.

13 A protocol is more than a guideline. A guideline is

14 if you have condition A, you do action B. A guideline

15 is: these are the things you should be thinking of, but

16 core guidelines here, it's pretty didactic as to what

17 should be done. I don't know if that helps.

18 Q. Yes, it does, and we don't need to go over

19 Professor Savage's evidence to know what he expected

20 should be done in the ordinary course of events

21 in relation to whatever we're now going to call that

22 document. Thank you very much, we can move on to the

23 issue of multidisciplinary meetings. That's something

24 that the chairman had just raised, and I think maybe

25 this is the appropriate place to deal with it.

1 If we can go to 204-004-154, which is in your second
2 report. You, I think, state that questions raised
3 suggest a failing of the system, and it could be
4 predicted that Adam's transplant procedure would be
5 difficult for both the anaesthetist and the surgeon:

6 "A planned multidisciplinary meeting shortly after
7 he [Adam] was placed on the transplant waiting list with
8 representation at consultant level from nephrology,
9 transplant surgery and paediatric anaesthesia should
10 have been scheduled. Adam's history and likely
11 difficulties at the time of transplant would then have
12 been identified in the cold light of day, well in
13 advance. An entry could have been made in a prominent
14 place in his medical records to be read by whichever
15 consultants were rostered when he presented for his
16 transplant operation."

17 Now, you're not the only expert who has advocated
18 that as a way of most efficaciously dealing with
19 paediatric transplants. But what I wanted to ask you
20 is, one can see the wisdom of that, and it has been
21 accepted by Professor Savage and, I think, also
22 Dr Taylor, and Mr Keane even, but in 1995, were there
23 multidisciplinary meetings in your experience?

24 A. The simple answer is yes, but if I could elaborate on
25 that. I think it's very important that we don't mix

1 1995 up with 2012.

2 THE CHAIRMAN: Yes.

3 MS ANYADIKE-DANES: Yes. We all agree with that.

4 A. I really want to make that extremely clear. In 2012 the
5 expectation is that these minutes are a standard of care
6 by which a service is monitored. If you don't have
7 them, you're not providing the service properly, subject
8 to external peer review. They are now minuted and it's
9 documented who attends them, and I'm talking about
10 a wide range of specialities here. I learned about this
11 from my time as clinical director when I interacted with
12 other departments more.

13 Then going back to 1995, yes, these meetings
14 happened, but they were much less formal. Sometimes
15 minuted, sometimes not. But --

16 Q. What happened at them?

17 A. Right. There were either timetabled events or
18 a particular problem patient arose and an appropriate
19 group of individuals would be invited, arranged to sit
20 down in an orderly fashion with a chairman, go over the
21 details and discuss the options available for that
22 patient. It's a long-established way of working in
23 cancer services. It was also clearly evident as a way
24 of working in the paediatric nephrology department when
25 I spent my month as a trainee there. And it's long been

1 the way of practice in congenital cardiology and cardiac
2 surgery.

3 So the straightforward, or straightforward as I can
4 make it, answer is, yes, there are many examples in 1995
5 when multidisciplinary meetings were held, but they were
6 not held invariably with the same rigour and expectation
7 as they are nowadays.

8 Q. I understand. Can I go back to one point when you said
9 it was well-established. From your CV at 306-032-002,
10 you have identified the time when you did spend your
11 month in paediatric nephrology, and I think that
12 straddles 1992 to 1994, and I think you had just said
13 during that period of time, and maybe also during the
14 period of time that you spent in paediatrics, that that
15 was a well-established practice.

16 Did you get any impression of how long they'd been
17 doing that?

18 A. It's an impression. I don't have the specific
19 information.

20 Q. Yes.

21 A. But years rather than months.

22 Q. I understand. Can I go back to, just so that we're
23 clear -- I know that you said sometimes in -- 1995
24 we are concerned with. Sometimes they would be minuted,
25 sometimes they wouldn't, depending on where you were

1 they may have more or less structure. But what was
2 actually the purpose of them and what was going on in
3 those meetings, in 1995?

4 A. It may be more helpful to take an example from
5 a completely different area of medicine. Let's say
6 you have a patient who presents with lung cancer.
7 At the meeting would be thoracic surgeons, oncologists,
8 respiratory physician, non-medical staff involved in the
9 patient's care, radiologists. Nowadays, but not in
10 95 --

11 Q. Let's stick with 1995, otherwise we'll get ourselves
12 confused. Let's stick with 1995.

13 A. Okay. That would be your type of patient attending,
14 both -- kinds of people attending, both at consultant
15 level and at trainee level. Somebody would be asked,
16 usually a trainee, to present a patient or a patient in
17 turn, at which time, in 1995 -- mostly variable but with
18 some visual aid a presentation would be made of the
19 patient's signs, symptoms and investigations, and the
20 various treatment options would be presented. The
21 radiologist may wish to comment in more detail on the
22 investigations presented, and then there may be -- well,
23 no, no may, there would be a general discussion as to
24 what would be the best course of action for that
25 patient, taking into account all the information given

1 by people approaching the same condition from a slightly
2 different angle.

3 Q. If I go back to the part of your report that I read out,
4 are you saying in 1995 that is the sort of thing that
5 you think could have been happening with Adam?

6 A. Yes. I think it is -- you have used the word "could",
7 and I think that is the correct word to use because
8 I don't know if it did happen. But it could have
9 happened to the benefit of Adam and other patients
10 in the service.

11 MR FORTUNE: There's no dispute because it did happen. If
12 you go to the transcript of Professor Savage of
13 17 April, page 108, line 18 --

14 MS ANYADIKE-DANES: Sorry, if Mr Fortune will just forgive
15 me. Sometimes I'm actually going to come on to deal
16 with these points.

17 The point I'm going to make is that Professor Savage
18 said there were multidisciplinary meetings, but they did
19 not, other than by special appointment, involve the
20 surgeons. So the force of what I was going to ask is --
21 because you have got in your passage a reference to the
22 surgeons, so the point that I want to ask you is: when
23 you talk about the multidisciplinary meetings
24 in relation to paediatric renal transplants, are you
25 saying that you were expected, not by special

1 arrangement but expected the surgeons to be part of
2 those meetings?

3 A. Yes, I would expect --

4 Q. And how important is that, so far as you understand it?

5 A. In a patient such as Adam, who has had extensive
6 previous surgery, who has, as it turned out, presented
7 at the end with what could have been a busy weekend for
8 the surgeon, to have had an appraisal, a precis of the
9 relevant background information would be very
10 productive.

11 Q. Thank you. Now, I want to move on to something else in
12 the transcript.

13 If I may go to the second day of Dr Taylor's
14 evidence, which is 20 April, and go to page 103 at
15 line 25, and moving on to 104. Sorry, I think that must
16 be an incorrect reference.

17 Sorry, let me take you to a different -- sorry,
18 that's an incorrect reference. Perhaps if we go to 108.

19 I don't know why some of these references are out of
20 sequence. Let me put the point to you in any event.

21 The point that I want to ask you is in a case such
22 as this, your comment on the amount of time that
23 somebody -- not somebody, that the anaesthetist, who is
24 going to be the consultant anaesthetist, should really
25 have to consider the medical notes and records.

1 We understand from Dr Taylor's evidence that he left
2 the house at 5.15 for an operation that he thought was
3 going to happen at 6.

4 THE CHAIRMAN: I'm not entirely sure about that.

5 MR UBEROI: Quite. It's unclear when --

6 THE CHAIRMAN: It's unclear and I'm not sure that when
7 Dr Taylor was giving his evidence that he -- whatever
8 else he conceded, whether he did not make a concession
9 which may not have been correct on that. I got the
10 impression from trying to interpret his evidence as
11 a whole that if he did leave the house at 5.15, it can't
12 possibly have been on the basis that the operation was
13 going to be at 6.

14 MR UBEROI: I think if I may say, sir, that's very fair and
15 that's my assessment of his evidence as well, having
16 re-read it.

17 MS ANYADIKE-DANES: If we start with the witness statement
18 and then we'll go into the evidence and try and
19 understand the concession. The point --

20 MR UBEROI: If I may make my last observation on it in
21 support of the chairman's observation. I think he was
22 taken into it through the witness statement. There was
23 then some confusion, which the chairman has alluded to,
24 as to what was in fact conceded. But leaving that
25 aside, the key point is that it certainly wasn't

1 established that he was leaving at 5.15 for an operation
2 to start at 6, because it has never been established
3 when and how he was informed that the operation would in
4 fact start at 7.

5 THE CHAIRMAN: I think, Ms Anyadike-Danes, having heard
6 Dr Taylor's evidence and the other evidence, subject to
7 any other evidence which emerges, the view which
8 I formed is that if Dr Taylor is remembering correctly
9 and he left his home at about 5.15, that is almost
10 certainly on the basis that by then he knew that the
11 operation was at 7, not at 6. Because any other
12 interpretation has him arriving at the hospital only
13 a few minutes before the operation is due to start.
14 Whatever other criticisms there are of Dr Taylor, and
15 there are clearly many, I don't think he was quite that
16 cavalier in his arrival at the hospital.

17 MS ANYADIKE-DANES: Yes, I understand. Just because I've
18 referred to the transcript, what I had was the incorrect
19 date and I'm sorry about that. All the line references
20 are the same. Pardon me, Mr Fortune.

21 If you go to the transcript for 19 April and
22 page 103 that I referred you to, and line 25, I think
23 that works. It starts there -- well, in fact the
24 question is probably fairer:

25 "You get a phone call from Dr Savage in the evening.

1 I appreciate that the decision is: let's all go in fresh
2 first thing in the morning. If you're going to do that,
3 how much time were you going to allow yourself for the
4 purpose of going through his medical notes and records,
5 having any further discussion that you might want to
6 with Dr Savage and examining Adam?"

7 And the answer starts on line 25:

8 "I would have expected to give about an hour to
9 assess a patient before a transplant."

10 Then we start to work back from that. If you look
11 at line 8, you see:

12 "If you're going to start the surgery at 6 [because
13 at one stage that was when they were planning to start
14 the surgery], what does that mean in terms of when you
15 would need to get to the hospital to do all those
16 things?

17 "Answer: Well, it would mean I'd need to leave over
18 an hour to be in the hospital before the operation was
19 due to start."

20 Then if one finally goes through, and I think this
21 is the point the chairman was picking up on, to his line
22 25, he would say that if the operation was going to
23 start at 6, he would need to leave before 5.

24 And my learned friend Mr Uberoi is right, if one
25 goes over the page to 105, one sees then that is

1 juxtaposed with what he says in his witness statement,
2 which is 001 at page 2, and that's where I think it's
3 being put to him that leaving home, if you stay at 14:

4 "Leaving home at 5.15 to prepare the patient drugs
5 and before my pre-anaesthetic equipment check ..."

6 And you can see the point that is being made, that
7 that can't possibly work.

8 MR FORTUNE: The challenge comes on page 106. Firstly, the
9 chairman and then yourself. It starts at line 9.

10 MS ANYADIKE-DANES: Yes, that's correct. I don't think
11 I need to read all that out because we know where this
12 is going. Where this is going is that the chairman has
13 expressed himself as being not entirely clear on when
14 Dr Taylor left at 5.15, what he understood to be the
15 time of the surgery. And I think the chairman is
16 prepared to interpret that as meaning that if he was
17 doing that he must at that stage have known that the
18 surgery had already been put back to 7 o'clock. That is
19 what I understand the chairman to be construing from
20 that.

21 So the point that I wanted to -- it's a rather long
22 way of getting round to the point. I'm sorry about
23 that, Dr Taylor. The point that I wanted to put to you
24 is that whatever he was doing in terms of what he
25 thought the start time was, when he was asked how long

1 did he think he would need to review the medical notes
2 and records and consult, to speak to people, the other
3 things that he would need to do before he actually got
4 started on his anaesthetic work, he said an hour.

5 MR UBEROI: Over an hour.

6 MS ANYADIKE-DANES: Over an hour. Well, it changes, but
7 okay, we'll have now it's over an hour.

8 MR UBEROI: You're right, and he repeats it in order to add
9 clarity. What he repeats is over an hour.

10 MS ANYADIKE-DANES: Yes, well, there we are.

11 THE CHAIRMAN: Sorry, let's get the question for the
12 witness.

13 If he allowed himself over an hour, what observation
14 have you to make about the time which he allowed
15 himself?

16 A. My first comment is a rhetorical question, if you like.
17 Why didn't he come in and see Adam and his mother on the
18 eve of surgery?

19 MS ANYADIKE-DANES: Yes?

20 A. Because that would have saved a lot of time.

21 Q. In fairness to Dr Taylor, he doesn't know why he did
22 [sic], but he has regretted and that has conceded that
23 that was an error. So we don't know why he didn't do
24 it. But what is your view of not having done it?

25 THE CHAIRMAN: I take it your view is that he should have

1 done that?

2 A. Very much so.

3 THE CHAIRMAN: Because if he does that, that effectively

4 amounts to a lot of the preparation and saves -- eases

5 the pressure on him on the Monday morning.

6 A. That's correct. If he had come in the evening before,

7 yes, it would have been late at night, but he could have

8 stayed and spent as long as he felt he needed to

9 appraise himself of all the information he needed to

10 gather, to telephone Dr Savage if he so wished, to have

11 sat with Adam's mother and gone through just the things

12 that Adam would expect and she could expect.

13 THE CHAIRMAN: With less time pressure?

14 A. Yes. The only time pressure would be that it would be

15 late at night and he knew that he would have to get up

16 in the morning.

17 MS ANYADIKE-DANES: Can I ask you, how important is the

18 information that he would have gained from physically

19 being there to look at the medical notes and records,

20 which, of course, he could do in the morning? But more

21 to the point examining Adam, speaking to his mother, how

22 important is that information to his task in the

23 morning?

24 A. It's crucial.

25 Q. Why is that?

1 A. First of all, in the general sense, you have a child
2 who's coming for major surgery. It needn't necessarily
3 be a renal transplant. The information that you can
4 ascertain from a very brief, almost cursory examination
5 of the patient and discussion with the mother as to the
6 nature of his underlying condition, previous
7 experiences, good and bad, with surgery, a wealth of
8 information can be gleaned very rapidly. And anything
9 arising from that can be investigated not at leisure but
10 certainly without the time pressure of an impending
11 operation.

12 Q. And then having not done that, and assuming in
13 Dr Taylor's favour that he knew already that the
14 operation was going to start at 7 and he leaves at 5.15
15 and, in fairness to him, he said it wouldn't have taken
16 very many minutes to get to the hospital from where he
17 lived, what do you say about the amount of time he
18 allowed himself to do all that you consider was
19 necessary before he embarked on anaesthetising Adam?

20 A. He put himself under time pressure. He was under
21 pressure. My interpretation is that there was
22 significant pressure to proceed with the operation as
23 soon as feasible, that he -- if something had come up in
24 his appraisal of either the history, discussion with
25 Adam, his mother, Dr Savage, he had no time to resolve

1 any questions which had been raised. The fact that --
2 perhaps we'll come on to talk about preoperative blood
3 tests, the fact that they hadn't been done when it was
4 now too late to do them. He put himself, colloquially
5 speaking, on the back foot by not having been in the
6 night before to collate all these pieces of information.

7 THE CHAIRMAN: Okay.

8 MS ANYADIKE-DANES: Thank you. Then I want to ask you
9 about -- you have referred to it as possibly being
10 a busy weekend. In fairness to Dr Taylor, he says, in
11 I think it's almost his first inquiry witness statement,
12 that it was a busy weekend. So we know that he was on
13 duty from Friday, on call through Friday evening, he's
14 on duty Saturday, on call through the evening, on duty
15 on Sunday, and on call through Sunday evening. That's,
16 of course, when he gets the call from Professor Savage.

17 Once he's got all of that, we know also that he got
18 an early morning call or some time many hours after
19 midnight, I think Dr Montague phrases it, a call about
20 inability to insert the IV cannula into Adam, which is
21 something that he has to deal with, and then we know
22 he's leaving his house, having got ready and one thing
23 and another, at 5.15.

24 The whole purpose of putting the operation back to 6
25 and then 7 o'clock, according to Professor Savage, and

1 indeed Mr Keane, was to enable the transplant team to be
2 fresh, I think they put it. Have you any comment to
3 make as to the extent to which Dr Taylor was able to be
4 fresh in that way, given those facts?

5 A. Well, I have not been presented with information as to
6 how busy he was or wasn't, but I understand he was on
7 call both for the anaesthetic component of his duties
8 and the intensive care component.

9 Q. Well, if I can help you so we know what the reference
10 is --

11 THE CHAIRMAN: Sorry, let's deal with it this way. In these
12 terms, for an anaesthetist who's been on call over the
13 weekend and is then starting an operation early on
14 Monday morning, "fresh" is a relative term, isn't it?

15 A. Relative. Very relative.

16 THE CHAIRMAN: I presume you've been in this scenario many
17 times.

18 A. Frequently.

19 THE CHAIRMAN: And Dr Taylor before and since will have been
20 in this situation many times.

21 A. I'm sure.

22 THE CHAIRMAN: When we say "fresh", we're not actually
23 talking about somebody who's well rested and has
24 necessarily had the sleep he needs. We're talking about
25 somebody who has been on duty, and if you're on duty and

1 on call over a weekend and then you're coming in early
2 on Monday morning, in real terms you're not fresh,
3 though by the terms of your job it might not be the
4 least fresh you've been?

5 A. Yes, that is true. "Fresh" is a relative term. I think
6 the purpose would be to ensure that those involved had
7 at least had some sleep and were able to perform their
8 duties safely.

9 THE CHAIRMAN: Okay, thank you.

10 MS ANYADIKE-DANES: Yes. What I was trying to ascertain
11 from you is whether you thought that if that was the
12 purpose of it, the slightly disturbed night that
13 Dr Taylor had, did you regard that as significant or
14 not?

15 A. Yes, I think it's significant.

16 Q. Thank you. In what way?

17 A. It is significant because even though he may have gone
18 to bed, I'm sure that he would have been running through
19 events the following morning. The fact that his sleep
20 was disturbed, and I don't know how much sleep he had or
21 hadn't had over the preceding two nights, the likelihood
22 is that when he woke, at whatever time he woke, he would
23 have not have had more than a few hours' sleep. And,
24 yes, he was starting a difficult procedure under less
25 than ideal circumstances in terms of personal rest and

1 preparation.

2 Q. And on the back foot, as you've described it?

3 A. Yes.

4 Q. How significant is the combination of those factors?

5 A. I think they add together or multiply together to be
6 very significant.

7 Q. Dr Taylor, in fact, gave evidence to say -- I'm not
8 going to take you to it, but just to refer to it to get
9 your comments. It's 19 April at page 63. It starts at
10 line 19 and goes on to 13.

11 He talks about the fact that at the hospital, they
12 have considered that circumstance of a consultant having
13 a busy on call weekend and then having to come in in the
14 morning and carry out his normal duties and then on
15 through the week, as it were. He says that they are
16 working towards splitting the consultant's rota as
17 between intensive care and surgery.

18 In your experience as a clinical director, how was
19 that managed?

20 A. There's two issues which we have resolved in my
21 experience. First of all, right from the point of my
22 consultant appointment, if you had a disturbed night you
23 went home and someone else appeared the following
24 morning, and if it meant cancelling an operation, it
25 meant cancelling an operation.

1 Q. Was that your experience in 1995?

2 A. 1994 onwards. We did not encourage or allow people to
3 carry out operations in a sleep deprived, unsafe state.
4 So that's the first point.

5 I think it would have been quite reasonable, had he
6 embarked on this, to have been expected to be relieved
7 of any duties from roughly 9 o'clock onwards by
8 a colleague, even if that meant cancelling a surgical
9 list.

10 The second part, when he refers to being responsible
11 both for the intensive care unit and the operating
12 theatre anaesthesia, that is something that we as
13 a department, in my personal experience, have
14 addressed such that, barring illness and extreme
15 circumstances, one individual is no longer asked to take
16 responsibility for both areas.

17 Q. When would that change have happened?

18 A. That is within the last decade. From what Dr Taylor
19 says and what you have read out to me, it appears to me
20 as if it's something that they were thinking of and
21 looking towards developing as a safer way of functioning
22 as a group of clinicians.

23 Q. Yes. I wonder if I may now move on to the issue of
24 consent. Dr Taylor has said that it was his normal
25 practice to go and see the patient and the patient's

1 mother or parent beforehand, partly to impart
2 information to the -- if the patient was old enough to
3 understand it, to the patient, but if not to the
4 patient's family. But if we're dealing with consent and
5 not just the provision of information, what are your
6 views in 1995 as to who should have been involved in
7 taking consent as between the nephrologist and the
8 surgeon, in your experience?

9 A. In my experience, looking back to the mid-1990s, both as
10 a trainee and as a junior consultant, consent was very
11 much a topical issue during the 1990s, and in the latter
12 part of my training and in my early part of my
13 experience as a consultant, there's a lot of effort went
14 into improving the consent process for medical and
15 surgical care.

16 When I began as a doctor in the early 1980s, the
17 consent procedure basically involved getting the patient
18 to sign the form. Some clinicians are more caring and
19 would explain in more detail what is involved, others
20 less so.

21 During my training and in subsequent seminars
22 organised by my hospital, which I attended as a junior
23 consultant, it was made abundantly clear that consent is
24 not just signing a consent form, it involves engaging
25 with the patient, having a discussion of the options,

1 telling the patient what you anticipate doing to them,
2 telling them of what -- the likelihood of success,
3 likelihood of failure, likelihood of misadventure.

4 Q. If I just pause you there. You said seminars that you
5 attended as a junior consultant. Now, you became
6 a consultant in 1994; is that right?

7 A. Yes.

8 Q. I know that we're going to have the question posed if
9 I don't clarify it with you. What you're saying now,
10 does that relate to 1995 or some time thereafter?

11 A. What I'm saying now relates to the early 1990s onwards.

12 Q. Right. Okay.

13 MR FORTUNE: Can we be clear in this line of questioning
14 what consent is being sought for? Because the practice
15 has changed in terms of whether it's for the operation
16 or for the anaesthesia.

17 MS ANYADIKE-DANES: I had not addressed the anaesthetic --
18 I was going to deal separately with the anaesthesia.
19 But in terms of the operation, because that's what
20 we have discussed consent with in this context, and
21 that is why I juxtaposed the two options of the
22 nephrologist and surgeon. But let us be very clear
23 about that.

24 The consent I'm asking you about is the practice
25 in relation to the consent for the renal transplant

1 surgery. So with that in mind -- and we can deal
2 separately with whether you think in 1995 it would have
3 been necessary to take consent from Adam's mother
4 in relation to the anaesthetic element of the surgery.
5 We can deal with that separately. Let's focus on the
6 transplant itself.

7 MR MILLAR: In relation to the transplant itself, it's
8 certainly my understanding from the experts' reports, or
9 the three specialisms that we have expert evidence from,
10 anaesthesia, nephrology and surgery, there's no question
11 of the anaesthetist being involved in the consent taking
12 process. And I wonder whether this issue is not one
13 better explored with the nephrologist and the surgeons,
14 who seemed to be the two areas where the consent
15 process -- they seem to be the two areas of expertise
16 who might be involved in the consent process. There
17 doesn't seem to be any suggestion that an anaesthetist
18 was involved.

19 MR UBEROI: If I might, I would echo that concern as
20 expressed by my learned friend.

21 MS ANYADIKE-DANES: I understand that. You have -- and this
22 is why I'm taking you to it because clarifications were
23 sought, it's a direct response to that. In your report
24 of 204-002-037, you refer to it being inappropriate that
25 written consent was taken by the nephrologist.

1 So you have given your expert view about that.
2 People may want subsequently to comment as to what the
3 weight of your expert view as a consultant paediatric
4 anaesthetist is on that topic, but that is the expert
5 view that you have provided. And where I was going to
6 take you to is, out of your own experience, what your
7 view was on the difference between or at least whether
8 or not the nephrologist should take the consent or the
9 surgeon could take the consent. And then, just to
10 pre-empt any risings, I was going to take you to the two
11 reports which have addressed that, one from
12 a nephrologist -- sorry, one from the nephrologist who
13 is Dr Coulthard, the expert, and the other from
14 a surgeon, Professor Koffman.

15 So if we can stick with you and the first question
16 I asked you. Out of your experience, in 1995,
17 paediatric renal transplant, was it the nephrologist or
18 the surgeon who was taking consent for the surgical
19 elements of the transplant?

20 THE CHAIRMAN: Mr Millar.

21 MR MILLAR: My learned friend has referred to Dr Haynes'
22 experience, I'm sure it's vast, but would it not be
23 appropriate, sir, to ask what his experience has been of
24 being physically present when consent is being taken for
25 a transplant procedure? If he's never been there, if he

1 doesn't know who's there, if he doesn't know what the
2 dynamics are, then, really, it doesn't seem to be
3 an issue on which he can assist the inquiry. If,
4 of course, he has been there lots of times and he can
5 say that he knows, from his own personal experience, who
6 does it, then that's a different --

7 MS ANYADIKE-DANES: Let's ask him what his experience is.

8 THE CHAIRMAN: Sorry, there are two different points. One
9 is, what is Dr Haynes' view about who should take
10 consent? And, secondly, why is that his view? And he
11 doesn't have to be present when consent is taken to
12 express an informed view. I will then decide at a later
13 stage what weight I attach to his view compared to the
14 views of others, including the views of those who have
15 already given evidence, such as your client and those
16 who were also directly involved in the operation.

17 He has something relevant to say. How weighty it is
18 is a matter to be decided later, Mr Millar.

19 MS ANYADIKE-DANES: Thank you.

20 Could you answer the question, in your experience?

21 A. In my experience, if I can preface it by saying that
22 we're talking about consent really for three different
23 areas here. One is, as has been pointed out, the
24 consent for the process of transplantation and all that
25 will mean for the patient. The second is the consent,

1 the actual process of the surgery. And the third is the
2 consent, or otherwise, that it was appropriate for an
3 anaesthetist to obtain from a patient and parents, next
4 of kin, regarding the interventions that he was going to
5 make.

6 Q. Yes.

7 A. And the teaching that very much evolved during the
8 1990s, from the early 1990s onwards, was to take consent
9 for something, you had to be capable of doing that
10 yourself. So it would be inappropriate for a surgeon to
11 go to a child's parents and say, "Do you consent to
12 anaesthesia? There's no problems involved". When
13 I might go along and say, "Actually anaesthesia
14 comprises A, B, C and D. I envisage a particular
15 problem with this aspect of your care. Do you consent
16 to a blood transfusion? Do you consent to receiving an
17 epidural? Do you consent to having a central venous
18 line inserted in your neck?"

19 Those are things which I am able to seek consent
20 for.

21 The surgeon is able to explain and have a two-way
22 exchange with the patient or parents about what he is
23 able to do or not do for that patient. And, likewise,
24 the physician or nephrologist is able to have an
25 exchange of views and sharing of information about what

1 is involved in the overall impact in this case for
2 transplantation.

3 THE CHAIRMAN: Thank you.

4 A. Can I conclude what I would like to say about this?

5 MS ANYADIKE-DANES: Yes.

6 A. Consent for anaesthesia is approached differently in
7 different institutions. Right from the 1990s, some
8 trusts, authorities, have taken it upon themselves to
9 insist that written consent is obtained for intervention
10 by an anaesthetist. Others do not make this a mandatory
11 requirement of the way of operating. And in others,
12 there's an expectation that the anaesthetist will do
13 what I've said, share information, make sure, for
14 example, that a patient has no objections to receiving
15 a blood transfusion.

16 And the consent process is a sharing of information,
17 answering of questions, explaining what is going to
18 happen, explaining what the likely outcome or otherwise
19 may or may not be. And the consent for any particular
20 part of -- well, the current phrase is the "patient's
21 journey", has to be worked through by an individual
22 who's capable of delivering that part of the patient's
23 care. That goes back to the early 1990s and onwards.

24 MS ANYADIKE-DANES: I understand that. Now, I think that
25 Professor Savage and others have described the informing

1 of the patient or the patient's family, if they're too
2 young to understand themselves, which is the prelude to
3 actually taking the consent, as a process that can take
4 place over quite some time and which, in the case of
5 Adam, culminated in the actual signing of a document.
6 We can see that at 058-039-185.

7 Now, that is the actual document that was signed by
8 Debra Slavin, and we see exactly what it is that she is
9 signing to. That she as a parent:

10 "... concepts to submission of her child to the
11 operation of kidney transplantation, the nature and
12 purpose of which have been explained to me by Dr Savage.
13 I also consent to such further or alternative operative
14 measures as may be found to be necessary during the
15 course of the operation and to the administration of
16 a general, local or other anaesthetic for any of these
17 purposes."

18 Then there is a note that there's no assurance that
19 you'll get the particular surgeon that you wish.

20 And then she signs it, and underneath that,
21 Dr Savage, as he was then, says:

22 "I confirm that I have explained to the child's
23 parent the nature and purpose of this operation."

24 So that is the consent that Debra Slavin signed for
25 Adam's operation on the 27th, the morning of the

1 operation itself.

2 You have told us about three stages, and you've also
3 been asked specifically to focus on the surgery as the
4 transplant operation. Just so that we're clear about
5 it, given that in this form there seems only to be one
6 space for one person to sign, on this kind of form,
7 taking consent from Adam's mother for his transplant
8 surgery, what is your view as to whether, out of your
9 experience, that is something that should have been
10 taken by the nephrologist or by the surgeon?

11 A. My view, unshakenly, is that this would have been better
12 taken by the surgeon doing the operation.

13 Q. Thank you. What I was going to put to you is your
14 observations on two other experts who have a slightly
15 different views. One can be explained and the other
16 will give his evidence about it.

17 If we take Dr Coulthard, who's also a nephrologist,
18 a consultant nephrologist, like Professor Savage,
19 200-022-264. He says that it was acceptable and
20 appropriate that consent was taken by Dr Savage, but
21 then he goes on to say that, in their system, they have
22 already involved the transplant surgeon. So it's
23 in that context that he appears to be saying that the
24 nephrologist can take the consent right at the final
25 stage, if I can put it that way.

1 Now, we know that in Adam's case the transplant
2 surgeon had not been involved previously. If we go to
3 Professor Koffman's report, he's at 094-007-031. There
4 we are. It's at paragraph 3.1, I believe.

5 He says:

6 "It appears from the records that consent for the
7 operation was not performed by the surgeons but probably
8 by the paediatric nephrologist, Dr Savage, and this
9 would be normal acceptable practice for the mid-1990s.
10 It would be important to view the consent form and, if
11 possible, review the topics that were discussed with
12 Adam's mother, including the risk of death and serious
13 adverse events from the procedure."

14 Which sounds -- there's a slight caveat. Whether
15 it is or not, we'll find out when he gives his evidence.
16 But that's not what I'm putting to you.

17 He has said what he thinks ought to happen. In
18 fact, indeed what he thought was normal, acceptable
19 practice in the mid-1990s. Dr Coulthard has said what
20 he thinks is the position.

21 What is your comment about certainly Professor
22 Koffman's view?

23 A. There's two parts. First of all, in my previous
24 discussion a few minutes ago about the subject, I said
25 that when I first began medicine consent was about

1 getting a form signed and it has evolved from the 1990s
2 onwards to being an information sharing, explaining
3 exercise, of which the form signing is only a part
4 thereof.

5 My initial reaction, when I read this, is that this
6 approach perhaps belongs more to a decade earlier, that
7 it's a senior surgeon who is used to working in an
8 environment where one of his trainees, possibly more
9 experienced, or one of his other colleagues, who knew
10 the family better, would deal with the formal signing of
11 the piece of paper.

12 Reading the second part of what has been written,
13 the last three lines:

14 "If possible review the topics that were discussed
15 with Adam's mother."

16 Well, I'm not entirely sure -- I have no information
17 to tell me what topics were discussed with Adam's
18 mother, including the risk of death and serious adverse
19 events from the procedure. From the surgical procedure,
20 that is.

21 Q. In fairness to Professor Savage, he has provided witness
22 statements which set out what he discussed, and during
23 the break perhaps we can provide that to you and you can
24 refresh your memory on that.

25 A. Okay.

1 Q. But sorry, I interrupted you. I just wanted to make
2 that point.

3 A. I can understand how Professor Koffman can make that
4 comment, but equally, at the time we're talking about,
5 the middle of the 1990s, the process of consent had
6 moved on and it was very clear where I was working that
7 consent for anything that was done had to be done by
8 someone who understood and was able to explain and do
9 that procedure themselves.

10 THE CHAIRMAN: I think, doctor, in fact it is quite clear
11 that it was also moving on in Northern Ireland. Because
12 there was a circular about consent issued just a month
13 before Adam's operation, October 1995. But it appears
14 that it hadn't filtered down into actual practice.
15 We'll maybe hear more about that at a later stage in the
16 inquiry. But there were developments in the mechanism
17 by which consent was taken, which were happening at that
18 time.

19 Professor Koffman's report is talking about what was
20 acceptable in the mid-1990s. One interpretation of this
21 is in fact things were changing in the mid-1990s.

22 Now, you had said this evolved during the early
23 1990s and onwards. It does appear that they were
24 changing in Northern Ireland as well in the mid-1990s,
25 round about 1995. So could it be that Adam's operation

1 was at a time when things were changing or on the cusp
2 of change?

3 A. Yes, I think that is a very fair comment. But I've
4 looked at this and thought about this long and hard, and
5 thought about not just major operations but operations
6 involving children I've been involved in, major and
7 minor, and at that time, in the environment in which
8 I worked, this was customary for consultant surgeons to
9 directly deal with this issue themselves.

10 THE CHAIRMAN: Okay, thank you.

11 MR FORTUNE: Sir, I rise at this stage -- without getting
12 into a discussion about the respective ages of the
13 experts and which decade they represent, given the lack
14 of unanimity on this topic of consent, if Dr Haynes is
15 correct that there should in theory, and perhaps in
16 practice, have been three discrete consents, one for the
17 transplantation, one for the anaesthesia, one for the
18 surgery, given that there was only one standard consent
19 form, whether it be in the United Kingdom or
20 specifically in Northern Ireland at the time, how would
21 the three specific consents be evidenced in writing?
22 Because we have only one consent form here and that was
23 signed by Professor Savage.

24 MR UBEROI: May I also add, I wasn't going quite so far as
25 to suggest there was a separate discrete process of

1 consent for the anaesthesia as in 1995.

2 MS ANYADIKE-DANES: I didn't think that either.

3 THE CHAIRMAN: I don't think that's been raised before. And
4 that wasn't an issue which was raised with Dr Taylor.
5 It hasn't, to my knowledge, been raised in the previous
6 reports, Mr Uberoi, which rather seems to suggest that
7 it would be difficult for me to be critical of any
8 anaesthetist for not having taken the separate consent
9 form when nobody has referred to a separate consent for
10 anaesthesia until today.

11 MR UBEROI: I'm grateful, sir. I think this is another area
12 where in fact, although there are areas of interest to
13 the inquiry that Dr Taylor is fundamental to, consent is
14 not one of them.

15 MS ANYADIKE-DANES: The transcript will reveal, but I'm not
16 sure that Dr Haynes was specifically saying that, that
17 a separate written consent was taken by an anaesthetist,
18 or should have been.

19 MR UBEROI: [Inaudible: no microphone].

20 MS ANYADIKE-DANES: Yes, exactly. I'm not sure he was going
21 as far as that. Anyway, he's here, so let him give his
22 evidence.

23 THE CHAIRMAN: What in fact you said was that consent for
24 anaesthesia is approached differently in different
25 institutions, and you said some require to be taken by

1 an anaesthetist and some don't.

2 A. Yes. That's correct.

3 THE CHAIRMAN: Whether it's taken by the anaesthetist or
4 whether it's taken by somebody else, is it a separate
5 form? And if so --

6 A. It depends where you work. If you go to some hospitals
7 in the United Kingdom, the anaesthetists are expected to
8 get a signature on a form for the process of
9 anaesthesia.

10 MS ANYADIKE-DANES: In 1995?

11 A. The minority in 1995. I still think it is probably
12 a minority, but when looking at the consent procedure,
13 it is more than just signing a piece of paper.

14 THE CHAIRMAN: Okay, thank you.

15 A. It's about a discussion and information sharing.

16 THE CHAIRMAN: Right.

17 MS ANYADIKE-DANES: Yes. And I had understood your evidence
18 to be that if you looked at the transplant procedure as
19 a whole, then the person that I think you were saying
20 should have been taking consent for that in 1995 was
21 actually the surgeon?

22 A. For the surgical transplant procedure, yes.

23 Q. Thank you.

24 A. But for the concept of renal transplantation, that would
25 have been approached on many occasions, I'm sure, by the

1 nephrologist and the family.

2 THE CHAIRMAN: Is that at the earlier stage when there's

3 a discussion which leads to Adam going on to the

4 register for transplant? It's hardly the night before.

5 A. That will go back weeks or months.

6 THE CHAIRMAN: Yes.

7 A. Yes.

8 MR FORTUNE: That's not consent in the topic that my learned

9 friend is --

10 THE CHAIRMAN: I understand, because it can't -- it's

11 a discussion which leads to Adam going on to the

12 transplant register, right?

13 A. Yes.

14 THE CHAIRMAN: But that isn't actually -- I mean, as

15 Mr Fortune emphasises, that's not a consent that in six

16 months or a year's time there's consent to the

17 transplant when a kidney becomes available. That's

18 quite a different thing.

19 A. Yes. But, equally, it goes back to the concept of

20 assessment of the patient by more than one person --

21 THE CHAIRMAN: Okay.

22 A. -- in that if a surgeon had been involved at

23 an outpatient preliminary stage, the discussion could

24 have been had then of what actually having the operation

25 involves.

1 THE CHAIRMAN: Okay. That just reminds me, Mr Fortune, you
2 made a point a few minutes ago about multidisciplinary
3 and the evidence that in fact there were
4 multidisciplinary meetings. I can check the record,
5 but, as I understand it, they involved people like
6 Professor Savage, renal nurses, psychologist. These
7 aren't multidisciplinary meetings involving an
8 anaesthetist and a surgeon; isn't that right?

9 MR FORTUNE: That's correct. Those were the meetings that
10 were held at the time. We then had the evidence from
11 Mr Keane -- and I'll be forgiven for not having to hand
12 the reference. I'm just looking at my learned friend.
13 But quite seriously, Mr Keane, so that Dr Haynes should
14 be clear, came from the City Hospital, a different site,
15 a different trust.

16 THE CHAIRMAN: Yes.

17 MR FORTUNE: And it would be by special arrangement that the
18 surgeon would attend. The anaesthetist, as we
19 understood it, did not regularly attend those meetings.

20 THE CHAIRMAN: Okay, thank you. I just wanted to make sure
21 we weren't talking about different multidisciplinary
22 meetings. Thank you. Let's move on.

23 MS ANYADIKE-DANES: Can we look at the anaesthetic record,
24 which starts at 058-003-003. I think if we go to
25 058-003-007, there we are. You'll see this is referred

1 to as a preoperative record.

2 Then you see another title down, "preoperative
3 Assessment". Then there's an assessment of that.

4 And then ultimately, right down at the bottom, there
5 is a series of boxes for times. And then there is
6 a place for the anaesthetist to sign.

7 But in any event, above all of that is this part of
8 the form which is recording matters taken
9 preoperatively, including the assessment.

10 Now, Dr Taylor's evidence, which I think is still in
11 19 April. I think it starts at 116. Dr Taylor's --
12 page 116, I should have said. I'm so sorry. I think
13 line 9 probably.

14 I have asked him some questions about -- what I'm
15 really asking him about is whether he had physically
16 examined Adam, and I'm asking him some questions about
17 that, and he is looking at this form.

18 He said he's not entirely sure when he examined
19 Adam, but I think ultimately what it comes down to is he
20 believes that he could have done it when Adam was
21 already anaesthetised. Because --

22 MR UBEROI: I'm not sure that's right. Again, on a fair
23 reading of the evidence in its totality -- I recognise
24 the passage my learned friend is referring to, but
25 I think it's plain that what Dr Taylor was doing was

1 bending over backwards to put forward circumstances
2 where it might not be conducted pre the anaesthesia, but
3 his actual evidence was he couldn't remember when it was
4 done, and he was taken to the fact that he had ticked
5 these boxes in the pre-anaesthesia chart. So I think
6 that's rather cherry-picking an extract that I don't
7 think reflects the totality of this passage of evidence.

8 MR FORTUNE: 113.

9 MS ANYADIKE-DANES: I was just going to 117, but let's have
10 them all. 113?

11 MR FORTUNE: At line 6. If we can have the anaesthetic
12 record up on the screen at the same time.

13 MS ANYADIKE-DANES: So he's explaining, when we see that
14 part of the anaesthetic record -- do you see that?
15 There's "ASA classification" and 3 is ringed. He's
16 explaining what that means. Number 1 is a healthy
17 patient and so on, until you get to number 3, which is
18 ringed for Adam:

19 "A patient with a systemic illness but who's
20 controlled, and I classified that to be Adam."

21 Then he goes on and he's asked about his writing,
22 and that he signed off on the anaesthetist's signature.
23 And he explains what "HO" means and so on.

24 Then if we move on, the place where I had taken you
25 to was 116, which my learned friend was concerned may

1 have indicated a rather partial view, or at least not
2 his entire view but his attempt to assist.

3 If one goes on to page 117, at line 2:

4 "I can't tell by this sheet when that physical exam
5 was completed. I can't remember. The usual practice is
6 to do it before the patient goes to sleep."

7 So then he's asked:

8 "Do you mean that it might have been done after you
9 had anaesthetised him?"

10 "Answer: Well, as we go on, you will see or we'll
11 find that Adam was upset on arriving in theatre, which
12 may have -- could have made an examination very
13 difficult. So it's possible that the examination was
14 done after he went to sleep."

15 And so the chairman then intervenes and says:

16 "If I may take an example."

17 Then I ask him about the purpose of the physical
18 examination.

19 We go over the page and, as we carry on down with
20 the hypothesis that -- well, let's go to line 16:

21 "I can't remember. But it is unlikely that he would
22 have been examined if he was crying."

23 Pausing there, the sheet is signed by Dr Taylor as
24 Adam coming into theatre crying. That is one of the
25 things that we do appear to know:

1 "But it's unlikely that he would have been examined
2 if he was crying. It's unlikely I would have got the
3 detail of the examination that I required if he was
4 being asleep, but I can't remember.

5 "Question: I understand that."

6 So I ask him:

7 "If it is not happening then, it means that
8 you are relying on the adequacy of the note
9 that was made of the examination of Adam on
10 26 November; is that correct?"

11 And he answers:

12 "That would be correct."

13 That, I hope, is a survey through it. And the
14 chairman, ultimately, will give what weight as to what
15 actually was happening.

16 MR UBEROI: I'm grateful. If I may suggest, this is a way
17 through it. Rather than a proposition from that passage
18 of evidence being put -- rather than a singular
19 proposition being put to the witness, if my learned
20 friend is about to ask, well, for the witness's views on
21 a set of circumstances where the examination was carried
22 out pre-anaesthesia, and then for his view on a set of
23 circumstances where it was carried out post-anaesthesia,
24 then perhaps that's a sensible way through it.

25 MS ANYADIKE-DANES: Well, thank you. I was going to do

1 that.

2 So assuming that there is no difficulty with the
3 crying child, in your view, when should the physical
4 examination of the child take place?

5 A. Before the patient leaves the ward.

6 Q. Before the patient leaves the ward?

7 A. Yes.

8 Q. And what should that physical examination entail?

9 A. It's not just a physical examination, it's an appraisal
10 of the underlying medical condition and fact gathering,
11 as I've alluded to earlier, of all pertinent facts
12 regarding that medical condition.

13 From a purely anaesthetic point of view, approaching
14 a child for an operation such as this, where you know
15 there may be significant blood loss, you know that the
16 child has had several previous operations, has had
17 numerous central venous lines inserted, has been in
18 hospital an awful lot of his life, you would want to --
19 or I would want to look through the tasks that are part
20 of delivering an anaesthetic to this -- you know, to
21 a patient, in this case Adam.

22 First of all, the issues relating to anaesthetising
23 any child, most importantly what is -- do you anticipate
24 any airway difficulty in terms of limited mouth opening,
25 abnormal anatomy. Well, we know that Adam had been

1 anaesthetised several times, numerous times, countless
2 times almost during his life, without difficulty from
3 that point of view, and unless there was an acute
4 illness which had changed things, that can be put to one
5 side.

6 You would want to know if the child -- if the
7 patient had any other intercurrent illness, unrelated to
8 the actual planned surgery. The commonest things in
9 children are respiratory tract infections,
10 gastrointestinal upsets, which in Adam's case, when
11 we're talking about fluid balance, would be particularly
12 relevant. These can be ascertained both from
13 questioning and from looking at the patient.

14 In terms of a patient like Adam, where you are
15 concerned about his hydration status and fluid status,
16 I would want to make a direct physical examination of
17 Adam, which would involve looking inside his mouth,
18 assessing his skin turgor, feeling his peripheral pulses,
19 looking at his abdomen, looking at how dry or otherwise
20 his mouth was, whether his eyes were sunken as markers
21 of dehydration or otherwise. A very simple examination,
22 which takes minutes at most to do.

23 Then other things you might find out maybe not from
24 direct examination himself -- yourself, such as what's
25 his pulse? What's his blood pressure? What's his

1 temperature? These would normally be recorded at his
2 bedside.

3 A patient that was dialysed, I would want to know
4 what his weight is now, what it normally is, what
5 it normally is at the end of dialysis. What is the
6 estimated overall fluid balance at the time you visit
7 him. And again, if I had seen Adam on the eve of
8 surgery, I would have made that assessment again at the
9 end of his dialysis when he presented for surgery.

10 It's a very simple examination, fact gathering,
11 which will take a few minutes.

12 Q. Yes. Can we then pull up again 058-003-007. Right.
13 What you have described, does it involve more or less
14 than is indicated on that form?

15 A. Significant history is inadequate. When asked to go
16 over the information given to me, it became very quickly
17 evident that he had had multiple previous operations,
18 had spent significant periods of his time in hospital,
19 some of it with severe electrolyte imbalance. He'd had
20 numerous previous urological operations, and the
21 likelihood was that the operation of transplantation
22 would be rendered difficult surgically because of
23 adhesions, and there would be the potential for blood
24 loss.

25 The fact that he'd had numerous central lines

1 inserted would cause me to think at least about any
2 potential difficulties of venous access. There's
3 nothing there to say if there'd been any problems
4 directly related to anaesthesia after any of his
5 previous surgical interventions.

6 Q. Then if you look at the physical examination itself
7 through that tick box system, how does that compare with
8 what you have been describing that you would have wanted
9 to do, both in the previous evening and again after his
10 dialysis in the morning?

11 A. If we go through it --

12 THE CHAIRMAN: Sorry, can I just intervene for a moment.

13 I don't want to cut the witness off, but unless I'm
14 mistaken, Mr Uberoi, Dr Taylor accepted the criticisms
15 which were made of his preoperative examination, didn't
16 he? I have a note here that he was taken to Dr Haynes'
17 statement at 204-004-163 and he says:

18 "I accept what Dr Haynes says about the mistakes
19 made if there's inadequate preparation."

20 And at (iii), the list of what Dr Taylor should have
21 noted:

22 "I accept that this is a usual preoperative check.
23 I can't recall if I did all of those things. What
24 I would have done under normal circumstances -- there
25 was a pressure of the cold ischaemic time before it was

1 too late. I can't recall talk about how much time, but
2 no general impression of urgency to protect the child."

3 So he accepted that the preoperative -- well, he
4 accepted that what Dr Haynes said he should have
5 ascertained wasn't done and that the preoperative
6 preparation was inadequate.

7 MR UBEROI: He certainly accepts Dr Haynes' evidence on what
8 should have been done.

9 THE CHAIRMAN: Yes.

10 MR UBEROI: My reading of the evidence is, I think again, in
11 totality, I can entirely understand how it would be
12 characterised as you just have. As with many of the
13 incidents, he can't remember specifically what he did or
14 didn't do. What we have, in my submission, is -- it's
15 clear on a balance of probabilities or any test that
16 this was done pre the anaesthetic, but he can't add any
17 more detail than that. That's my recollection of his
18 evidence.

19 MS ANYADIKE-DANES: Well, there we are. What is clear on
20 the balance of probabilities, Mr Chairman, is obviously
21 a matter for you. If I can put it this way, if it is
22 the case that Dr Taylor accepts that he should have done
23 all these things, maybe we can cut to this, which
24 is: what, in your view, is the significance in terms of
25 the cause of Adam's anaesthetic management of not having

1 done all these things, in your view?

2 A. The significance principally is that Dr Taylor did not
3 form a correct appraisal of the fluid and electrolyte
4 requirements for Adam during the course of his surgery.
5 He's ticked on the form that there's a problem with the
6 renal system.

7 Q. Yes.

8 A. And it is because of this problem and because of the
9 fluid and electrolyte management during the course of
10 the operation that Adam died.

11 Q. Yes. So if I understand you correctly, when he goes
12 down his physical examination tick box, he's identified
13 polyuria as a problem, but there is no information as
14 to --

15 A. The full --

16 Q. -- what that is or how he's going to address it.

17 A. Yes. There's no detailed -- he may have thought about
18 it, but he hasn't documented it for public consumption
19 the actual implications and requirements for Adam during
20 the course of his surgery.

21 Q. Quickly moving to another point, that is that if since
22 Dr Taylor conceded that is it was a possibility, he
23 cannot remember, he cannot remember many things. This
24 is one he cannot remember. But he conceded it was
25 a possibility, and that's why I'm going to ask you about

1 it.

2 If he did not physically examine Adam before he
3 anaesthetised him but waited until he was quiet, having
4 anaesthetised him to physically examine him, and if,
5 therefore, prior to anaesthetising him he was relying on
6 the junior doctor's notes of the previous evening,
7 can you comment on that?

8 A. There would be a lot of information to be gleaned from
9 the junior doctor's notes the previous evening. But
10 I still feel that he put himself under some pressure by
11 not meeting Adam, even if he didn't formally examine him
12 at a time distant from the start of the anaesthetic.

13 Q. And how appropriate or not do you regard it to
14 anaesthetise without him having examined him?

15 A. If you do that often enough, you will make a mistake.

16 Q. In 1995?

17 A. Regardless of whenever.

18 Q. Okay.

19 A. If you -- it is a basic tenet of anaesthetic training
20 that you must appraise yourself as much as you can of
21 the patient's condition. If you omit to do that, at
22 some point in time you will make an avoidable error.

23 Q. If we go on to page 140 in the transcript of 19 April.

24 Then I think it starts ...

25 THE CHAIRMAN: Line 12?

1 MR FORTUNE: 16?

2 MS ANYADIKE-DANES: Yes, that's where I was trying to get
3 to. No, I was going to 12 to 24.

4 THE CHAIRMAN: I think it's really 12:

5 "Did that mean that you didn't necessarily carry out
6 all the investigations of the medical notes and records?

7 "Answer: I can't exactly when I did. I would have
8 ensured that the safety of his anaesthesia was not
9 compromised by a rush to theatre. What I tried to say
10 and indicate was that there should be no impediment or
11 time wasting, which can happen, that would delay
12 surgery."

13 MS ANYADIKE-DANES: And the particular point I was going to
14 ask you, is to pick up Dr Taylor at line 23, which is
15 where he says:

16 "I am not trying to imply that corners were cut to
17 try and rush a patient to theatre. That is not what I'm
18 trying to express, if you understand."

19 I'm just asking for your view. You have been going
20 through what happened and you have, I think, on a number
21 of occasions expressed the view that you think that
22 Dr Taylor put himself under some pressure of time.
23 Do you have an observation as to whether you think
24 corners were cut or not?

25 A. Yes, he didn't visit him in a timely manner. He didn't

1 give himself the chance to appraise himself of his
2 underlying medical condition. He didn't give himself
3 time to digest that and think things through properly,
4 because he put -- he was under pressure of time and
5 hadn't taken the opportunity on the eve of surgery to
6 address those issues.

7 Q. I wonder if I can move on to the subject of
8 communications. If we could start at page 16 of the
9 transcript of 20 April and start with line 5. We're
10 dealing with at this stage communications between
11 Dr Taylor and Professor Savage.

12 And he says that how he characterises it is that he
13 sees it that it is:

14 "[His] failure to act on the information that was
15 given by Professor Savage. [His] misinterpretation or
16 misapplication or miscalculation of that information on
17 [his] independent assessment of Adam."

18 So that's what he thinks is happening there. He's
19 not saying that he wasn't given the information, he had
20 the information but, for reasons which he can't explain,
21 he wasn't able to deal with it appropriately or
22 accurately.

23 Now, there are no full notes of the exchanges, or
24 maybe any, between Dr Taylor and Professor Savage. In
25 fact, the issue of communication goes on in this

1 section. We can pick it up again at 23.

2 That's the chairman's intervention:

3 "Professor Savage told me everything I needed to
4 know on the Sunday night and then maybe again on the
5 Monday morning."

6 And it goes on over the page up to and including
7 line 17 where I ask:

8 "Is there a record of the information that you
9 sought from Professor Savage and Professor Savage gave
10 to you?"

11 "Answer: No."

12 And then if we go over the page to 18, one can pick
13 it up at 3:

14 "I think, following Adam's death, my own personal
15 practice has improved and that's something I've taken
16 from my experience of Adam. I pay more attention to the
17 comments and requirements and orders given to me,
18 instructions given to me by the patient's paediatrician,
19 nephrologist or surgeon."

20 He concedes that.

21 And then if one picks him up again towards the
22 bottom of the page, line 24:

23 "What I do now is what I have admitted I ought to
24 have done then, which was to make myself available
25 for [a physical examination]."

1 And then we go on:

2 "If you had done that, would you have recorded the
3 information you were given during that face-to-face
4 meeting?"

5 "Answer: I would."

6 And then I go on:

7 "Had you had such a face-to-face meeting in 1995,
8 would you have recorded the information that you
9 received during it."

10 And he says ...

11 THE CHAIRMAN: He ended up saying that:

12 "Had I had a meeting I would have recorded the
13 information [on 058-003-007]."

14 MS ANYADIKE-DANES: Yes.

15 Over the page to 20, we deal just very briefly with
16 notes of the information. Then he refers to himself as
17 speculating.

18 If I pause there, before getting too much into the
19 recording of it, what I'm wanting to ask you, because it
20 has arisen, is the quality of the communications. So
21 far as you can tell, because you're at a remove, you
22 weren't there at the time, there are no notes of it so
23 all one can see is the evidence of what happened, and
24 one has very fairly said that he acknowledges errors.
25 But so far as you can tell, the quality of the

1 information exchange process between Dr Savage and
2 Dr Taylor --

3 MR FORTUNE: Before the witness answers, I rise on this
4 basis. This must be a question inviting speculation.
5 There can be no alternative answer.

6 MS ANYADIKE-DANES: Then let me rephrase that.

7 Do you see the evidence of the kind of information
8 exchange you would have expected to see in 1995 between
9 the patient's nephrologist and his anaesthetist?

10 MR FORTUNE: What does my learned friend mean here by
11 evidence?

12 MS ANYADIKE-DANES: Written evidence. Recorded evidence.

13 MR FORTUNE: Well, my learned friend knows the answer.
14 There is no written note.

15 MS ANYADIKE-DANES: No.

16 THE CHAIRMAN: Let me tell you what my note is, and this is
17 trying to summarise the last few pages, Dr Haynes.

18 Dr Taylor said:

19 "I spoke to Professor Savage on the evening of the
20 26th and I think on the morning of the 27th. I felt
21 fully briefed by him."

22 It was then put to him that Dr Haynes says that
23 there wasn't enough discussion of Adam's fluid and
24 electrolyte management. Dr Taylor's response was to
25 exculpate Professor Savage.

1 He said:

2 "Professor Savage then and now is an excellent
3 communicator and was available to answer queries. The
4 problem isn't from Professor Savage to me but my
5 interpretation and understanding of what
6 Professor Savage told me."

7 He was then asked:

8 "Have you changed your practice?"

9 "Answer: Yes, it's improved. I take more notice of
10 what I'm told, directed and informed. What I do now is
11 what I agree I ought to have done then, make time for
12 the face-to-face meeting with the nephrologist and
13 surgeon and note what they say. Had I had the meeting,
14 I'd have recorded the information ..."

15 On the document that you were looking at a few
16 minutes ago, 058-003-007, which you said was an
17 inadequate note.

18 So he has said that in Dr Taylor's eyes, this wasn't
19 Professor Savage's fault for not giving him the
20 information, it was his fault for not interpreting and
21 understanding it. He hadn't noted it, he hadn't had
22 a face-to-face meeting with the nephrologist and the
23 surgeon, and he'd also previously said it would have
24 been better had he seen Adam beforehand.

25 I presume all of that you would agree with, that he

1 should have seen Adam beforehand, he should have noted
2 what was said to him, because if the information he was
3 given from Professor Savage was reliable, as he assumes
4 it was, then that would have put him in a position to
5 understand what he was going to do?

6 A. Yes. I agree with everything said in that.

7 MS ANYADIKE-DANES: Then can I rephrase that question then.

8 Or not that question, have another question, which is
9 this. Clearly Dr Taylor made errors. He's acknowledged
10 it. You have commented on it in your reports and others
11 have too. Do you consider -- well, what responsibility,
12 if any, do you think that Professor Savage had to ensure
13 that Dr Taylor properly understood Adam's condition and,
14 therefore, could not fall into the errors that he did
15 fall into?

16 MR FORTUNE: I object to that question. On what basis can
17 Dr Haynes answer for Professor Savage in those
18 circumstances? It is quite clear from the evidence of
19 Dr Taylor that he was given all the information that he
20 required for Adam, whether last thing at night or first
21 thing in the morning.

22 THE CHAIRMAN: And he also said if there were any more
23 queries, Dr Savage would have been there to provide more
24 information.

25 MR FORTUNE: Absolutely, sir.

1 MS ANYADIKE-DANES: It's a different question that I've
2 asked. I understand, of course, that that is what
3 Dr Taylor has said. The question is different.

4 In your experience -- you, I presume, deal with
5 nephrologists. In your experience, does a nephrologist
6 have any obligation to satisfy himself that the
7 anaesthetist understands the information that he is
8 giving?

9 MR FORTUNE: Well, sir, once again I rise. Other than
10 Dr Haynes saying to the likes of Professor Savage, "Have
11 you told me everything? Is there anything else you feel
12 I should know?", how is Dr Haynes --

13 THE CHAIRMAN: Let me test it this way.

14 Can you answer that question? If you have
15 a discussion in a similar scenario with a nephrologist,
16 what do you ... He's given you the information which
17 you think you need. Would you regard him as being under
18 a continuing obligation to be assured that you have the
19 information, you have gathered it? In the absence of
20 any indication from you as the anaesthetist that you
21 didn't have all the information?

22 A. I think the answer has to be, yes, there has to be some
23 recall.

24 THE CHAIRMAN: Sorry, I'm not sure what you mean by recall.

25 A. If we go back to my introductory session where I showed

1 the diagrams, by recall I might say to you, Mr Chairman,
2 "Do you understand that?" and you might say, "Well, I'm
3 not too sure Dr Haynes, can you go over that bit again?"
4 That's what I mean by recall.

5 So I think it wouldn't have been unreasonable -- and
6 again we're moving from objective to subjective
7 appraisal of a situation, which is why I'm hesitating.
8 But I think it would have been reasonable for
9 Professor Savage to have asked Dr Taylor something along
10 the lines of "This is really important, can you just --
11 I'm sorry to bother you, but can you just go over this
12 again with me?"

13 THE CHAIRMAN: But if Professor Savage had no reason to
14 think that Dr Taylor wasn't following or understanding
15 what he said -- I'm just teasing it out -- would it be
16 a bit cheeky, almost, for him to say, "Have you got
17 that? Do you understand what I'm saying to you?"

18 A. It may have seemed cheeky, but it would have been in the
19 patient's best interests.

20 THE CHAIRMAN: Do I understand it then that it's something
21 that he could possibly have done, but you wouldn't go so
22 far as to say that he failed in any way, or would you?

23 A. Perhaps if I could use a slightly different analogy. If
24 I'm teaching a trainee something and I am a little
25 worried about the condition of the patient and the

1 trainee's interpretation of what I've said, I will say
2 to that trainee, "Remind me what I've just told you.
3 Show me what you're going to do. Tell me about it".
4 MR FORTUNE: Sir, this is not a training situation.
5 THE CHAIRMAN: I've got it. I don't think you suggest
6 that's the direct analogy.
7 A. No, I'm not, but I'm just saying how it wouldn't be
8 entirely inappropriate.
9 THE CHAIRMAN: I think that's about --
10 MS ANYADIKE-DANES: Mr Chairman --
11 A. I think that's about as far as I can go on that.
12 MS ANYADIKE-DANES: I'm looking at the clock. Can I leave
13 it in this way --
14 THE CHAIRMAN: I've got the point. Sorry, the last answer
15 was it wouldn't be entirely inappropriate. Okay?
16 MS ANYADIKE-DANES: But I wanted to put it this way, if
17 I may, Mr Chairman.
18 Dr Haynes has actually expressed a view on this in
19 one of his reports. Regrettably, I can't find the
20 reference to it. What I was going to say is, given the
21 time, it may be better if you will permit us to rise at
22 this stage, and then we can find that and that
23 particular report can be put to Dr Taylor. He has made
24 that --
25 MR FORTUNE: Dr Haynes.

1 MS ANYADIKE-DANES: Sorry, to Dr Haynes. He has made
2 a reference to that. He has also commented in terms on
3 the communications between the various members of the
4 team, and I would like an opportunity to find that
5 reference so instead of speculating about things,
6 Dr Haynes is having put to him what he had said in his
7 report. Because these two particular issues are things
8 that have been raised with me that people would like
9 some clarification on. They would like to know the
10 basis of Dr Haynes' view. And that was part of the
11 reason why I was going down this line, although some
12 have risen about it. But that is what I would like to
13 do.

14 MR UBEROI: I only rise to assist and certainly not to
15 express any submission or view on this particular
16 debate, but I'm fairly sure, if it assists, the page
17 reference is 204-013-393.

18 MS ANYADIKE-DANES: Thank you.

19 THE CHAIRMAN: Thank you very much.

20 MR FORTUNE: Having had time to reflect on this matter, and
21 if my learned friend as leading counsel is going to
22 return to this issue, when the questions were asked, if
23 Dr Haynes can pause just in case objections wing in from
24 the right or the left.

25 MS ANYADIKE-DANES: I can discuss it with you during the

1 break.

2 MR FORTUNE: Absolutely.

3 THE CHAIRMAN: I take it that your concern on behalf of
4 Professor Savage is whether it's within the -- well, (a)
5 what the established facts are and, secondly, whether
6 it's within the remit of Dr Haynes to comment on the
7 adequacy of communication from Professor Savage to
8 Dr Taylor in circumstances where there isn't actually
9 a record that we can look at to see what precisely the
10 communication was.

11 MR FORTUNE: Yes, and also given the evidence of Dr Taylor
12 to date on that matter.

13 THE CHAIRMAN: Okay, thank you very much. This might take
14 a -- let's sit at -- can we do 2 o'clock or do you want
15 2.10?

16 MS ANYADIKE-DANES: I'm entirely in your hands, Mr Chairman.

17 THE CHAIRMAN: I want you to get a break, but I'm just
18 looking at the note. I think we're coming towards the
19 end of page 1 of three and a half.

20 MS ANYADIKE-DANES: We're not, we are fairly further
21 advanced than that.

22 THE CHAIRMAN: Oh great. Let's do 2.10. You can sort out
23 your issues, and Mr McBrien, Mr Hunter, you can speak to
24 your client over lunch about any particular points which
25 have emerged from this morning so far. Thank you very

1 much indeed.

2 (1.15 pm)

3 (The Short Adjournment)

4 (2.10 pm)

5 MS ANYADIKE-DANES: Just to give a reference that you, sir,
6 were looking for in relation to the letter that went
7 round with a guidance on consent. The reference is
8 305-002-003. It's a letter of 6 October, and then
9 behind that, 004, 005. There we are, that's the guide
10 to consent for examination or treatment.

11 I'm not proposing to take you to it now, I mention
12 it simply because the chairman had raised it. In that
13 guide, towards the back, are some specimen consent forms
14 and we did look, during the evidence of
15 Professor Savage, at a comparison between the consent
16 form that Adam's mother signed and those specimen
17 consent forms, at least the relevant one for surgery.

18 MR FORTUNE: I stand to say that there was no evidence that
19 that guide had in fact been cascaded down through the
20 trust.

21 THE CHAIRMAN: I know that, and I made that point this
22 morning. The point I was making to Dr Haynes this
23 morning was that would indicate that what you had said
24 was happening from the early 1990s onwards in England,
25 that you were familiar with, was also happening in late

1 1995 in Northern Ireland.

2 A. Yes.

3 THE CHAIRMAN: That's the only point. So if we were behind,
4 we weren't far behind.

5 It's just perhaps a bit unfortunate that the
6 cascading down hadn't happened, but I guess cascading
7 down inevitably doesn't happen overnight?

8 A. I think the cascading of this document probably would
9 follow considerable discussion in fairly wide circles
10 about the issue.

11 MS ANYADIKE-DANES: Thank you. This is your report,
12 Dr Haynes, 204-013-393. This, I apologise, is the
13 report that I was looking for unsuccessfully before we
14 broke.

15 If we can go to the first paragraph:

16 "However there were two significant failures on
17 Dr Taylor's part."

18 The first is one that has already been addressed:

19 "Secondly, he did not gain a clear understanding of
20 Adam's clinical condition -- with especial reference to
21 his renal function, fluid and electrolyte balance and to
22 the history of central venous cannulation. A more
23 ordered [and this is the force of what I was putting to
24 you] discussion with Dr Savage could have better
25 appraised him of Adam's fluid and electrolyte needs.

1 Equally, it is my opinion that Dr Savage might have been
2 more forceful in his discussions with Dr Taylor
3 regarding Adam's fluid management."

4 The question is, firstly, what did you mean by that
5 last reference to Dr Savage? And, secondly, where is
6 the evidence from which you formed that view?

7 A. The evidence I formed that view is that it's quite clear
8 that Dr Taylor did not appreciate or was not able to put
9 into practice the correct understanding of fluids and
10 electrolytes in terms of Adam's renal condition. Having
11 reflected a little bit further over it in the last
12 little while, I do think it was incumbent upon
13 Professor Savage to ensure that his understanding of the
14 condition had been imparted with Dr Taylor.

15 I look back and reflect on my career and I can look
16 back on times as a consultant when I have been put
17 in the same position as Dr Taylor by consultant
18 colleagues and asked if I actually understand the
19 implications of what I am being told. Again, we're
20 moving slightly away from objective towards subjective,
21 but my impression is that this did not take place.

22 MR FORTUNE: Sir, I rise at this stage because once again
23 this is highly speculative. When you hear the words "my
24 impression", you know it's not based on fact.

25 THE CHAIRMAN: I've got the point. Thank you.

1 MR FORTUNE: Thank you, sir.

2 MS ANYADIKE-DANES: What is it that you think specifically
3 Professor Savage should have ensured that Dr Taylor
4 understood in terms of what was important in relation to
5 the fluid management, given his polyuric condition?
6 What is it?

7 A. Two things. One that Adam was not able to regulate
8 sodium losses, nor was he able to regulate water, volume
9 losses, and that he required particular attention to --
10 I use the word carefully -- balance aspects of his fluid
11 and electrolyte balance management during the period of
12 disruption during surgery.

13 MR FORTUNE: I regret to say, I come back to my feet because
14 this is an unfair criticism of Professor Savage, because
15 it is criticism. The basis is highly speculative. If
16 Dr Taylor, for whatever reason, made a miscalculation,
17 and we've all heard the evidence of Dr Taylor, the fault
18 is Dr Taylor's. It cannot be attributed to
19 Professor Savage in these circumstances. And you are
20 effectively being asked to draw an adverse inference
21 from the answers just given by this witness. It's
22 wrong, it's unfair, in our submission.

23 THE CHAIRMAN: Well, I've only got one minor caveat on that,
24 which is the fact that Dr Taylor exculpates Dr Savage
25 doesn't mean that he properly exculpates Dr Savage. But

1 I've got the force of your point, which is that
2 Dr Taylor has taken responsibility for this. He has
3 said: if I had needed more information, Dr Savage would
4 have been there to answer my queries. And he has not
5 tried to blame Dr Savage. In fact, on the contrary, he
6 has accepted it was his responsibility. And I do take
7 the point that this evidence which Dr Haynes is giving
8 is his impression of what happened and his impression of
9 what Dr Savage should have done, which I will consider
10 with some degree of caution, in light of the state of
11 the other factual evidence to date.

12 MR FORTUNE: Thank you, sir.

13 MS ANYADIKE-DANES: Thank you.

14 In these things, Dr Haynes, I'm seeking to see if
15 you can explain the basis of certain views that you have
16 expressed in your report, which aren't immediately
17 obvious to those who read your report. This is one, and
18 there is a slightly similar one coming up, if I may give
19 the reference, 204-004-161. I think it's the last
20 paragraph where it says -- literally I think it's the
21 last sentence in the last paragraph:

22 "I get the impression ..."

23 Perhaps it's better to put the context:

24 "The operation was scheduled to start early in the
25 morning and some discussions were held with Dr Savage on

1 the eve of the surgery. Had Dr Taylor visited Adam and
2 his mother on the eve of surgery and even briefly
3 discussed Adam's past medical history, I think that he
4 would have realised how susceptible Adam was to either
5 water overload or inadequate sodium replacement and
6 formulated his fluid replacement plan more
7 appropriately."

8 This is the point that I want to get you to explain:

9 "I get the impression that everything was hurried,
10 that tensions had developed between the surgeon and
11 anaesthetist, and that there was no adequate dialogue
12 between those involved."

13 Now, you are asked to expand on that, so I want you
14 to bear that in mind and the answer that you give, when
15 you're asked to expand on it, which is to be found at
16 204-006-334. If one sees right up at the top of the
17 page, that very sentence that I quoted is taken, is
18 extracted, and you're asked:

19 "Explain the basis of your impression that tensions
20 had developed between the surgeon and anaesthetist."

21 And then in your response, over a number of bullets,
22 you seek to do that.

23 The question is, what is the evidence, the actual
24 evidence, that you have seen that has allowed you to
25 express the view that tensions had developed between the

1 anaesthetist and the surgeon?

2 A. The answer is that it is inevitable that some tension
3 will have developed because of the length of the cold
4 ischaemic time of this kidney. It is ... And again,
5 drawing the line between what is objective and what is
6 subjective, that I think Dr Taylor had made himself time
7 pressured by not visiting Adam the previous evening. He
8 put himself under pressure by not thinking through the
9 circumstances of: what if I have a problem with
10 such-and-such? And I'm sure we'll go on to discuss the
11 central line.

12 There is little evidence of dialogue in any of the
13 documents I've been given to read between --

14 Q. If we pause there for the moment. What evidence of
15 dialogue would you expect to see?

16 A. There may be some sentences that "We discussed and it
17 was agreed that --

18 Q. Where would that --

19 A. They would appear in the statements of either Mr Keane
20 or Dr Taylor, somewhere along the line.

21 Q. Sorry, you don't mean contemporaneous evidence, you mean
22 you don't see any of that in their witness statements?

23 A. Yes, that's correct.

24 Q. Is there any contemporaneous evidence that you would
25 expect to see?

1 A. Are you referring to the transcripts from the recent --
2 Q. No, no, by contemporaneous I mean in 1995, from 1995.
3 A. Um ... In terms of hard, objective fact, it is very
4 difficult, but being given the documents I have been and
5 being asked to read through it and look back at the
6 events that happened, I would have expected some
7 indication somewhere in the text of one or more than one
8 statement of a collaborative approach to the whole
9 thing, and I have not seen this. We have not been able
10 to ascertain when the operation was actually scheduled
11 to start, why it started at 7 rather than 6, who
12 discussed it with whom, and there is conflict in the
13 statements between the interpretation of Mr Keane and
14 Dr Taylor on the amount of blood lost during the
15 operation, for example.
16 Q. Sorry, how do you interpret that?
17 A. Well, that they didn't communicate effectively with one
18 another about what was actually happening.
19 Q. I understand.
20 A. And likewise, I've put down in the fourth bullet point
21 that begins "Paragraph 35", Dr Taylor would have spent
22 a considerable amount of time getting a central venous
23 catheter into Adam, but there's no evidence that it was
24 discussed with Mr Keane that he was having problems.
25 The time pressure was still there. There was no note

1 that the problem was discussed or an agreement as to how
2 best to proceed.

3 And I would like to draw attention to the fact,
4 in the next bullet point, in which I conclude:

5 "This may be a misconception, but it is my
6 perception."

7 And I stand by that statement.

8 THE CHAIRMAN: Sorry, Dr Haynes, in the original statement
9 that you were asked to expand on there, "I got the
10 impression that everything was hurried". And there's
11 clearly evidence of that, "and that there wasn't
12 adequate dialogue". Well, there's certainly question
13 marks about the extent of dialogue.

14 The question about tensions developing, if
15 I replaced "tensions had developed" and said, "pressures
16 had developed involving the surgeon and the
17 anaesthetist", is that much different? Tensions
18 suggests some degree of --

19 A. Antagonism.

20 THE CHAIRMAN: Antagonism or dispute, which is more
21 subjective and perhaps more speculative. If we replaced
22 "tensions" with "pressures had developed" --

23 A. I'd be happy for that to be --

24 THE CHAIRMAN: Thank you.

25 MS ANYADIKE-DANES: I'd like to move on to the question of

1 urine output of the native kidneys during the operation.
2 That is something that had been discussed or raised by
3 Dr Coulthard during, I believe, the experts' meeting on
4 9 March. The possibility -- in fact, let's go to it.
5 307-008-193.

6 I think it's at lines 1 to 3. If we start there:

7 "Their kidneys [this is children] are functioning on
8 a real knife edge and anything, almost anything that
9 happens to that child, is capable of just switching
10 their kidneys off because they are so dependent and just
11 not robust at all. Giving a child an anaesthetic very
12 commonly makes them oliguric and makes them pass very,
13 very little urine for a while. Then it often picks up
14 afterwards and that is a very common event. I therefore
15 find it extremely plausible that the only recorded
16 volume that we have of 47 ml is true because that's the
17 sort of volume that you would expect commonly to happen.
18 For that reason..."

19 And then he goes on to say that he has recalculated
20 the figures.

21 In fact, if we look at the perioperative fluid
22 balance chart, which reflects that, which I think is
23 200-020-237, there you see urine output, and then you
24 can see, if you will recall, Mr Chairman, these are
25 stages and phases during the surgical period, those

1 numbers represent those, in fact there are a number of
2 sheets that each of the clinicians and the experts
3 involved filled in.

4 But if one looks at the urine output, you can see
5 that although there is urine output for the first four,
6 there is nothing thereafter --

7 THE CHAIRMAN: Okay.

8 MS ANYADIKE-DANES: -- in Dr Coulthard's calculation. So if
9 one then goes to the transcript for 20 April at page 39,
10 starting at line 16 with the question. I put to
11 Dr Taylor:

12 "Dr Coulthard has suggested that it's quite
13 possible, as a nephrologist, that when the surgery
14 starts, that the kidneys can respond -- or the native
15 kidneys can respond to that by actually shutting down
16 and not producing any urine at all. You'll have seen
17 that."

18 And I put to him the fluid balance sheet, and I took
19 him to that. I asked him about that possibility.

20 Then if one goes over the page, starting at line 1:

21 "What I want to ask you is: when you were discussing
22 Adam's condition and what that would mean for what you
23 were trying to do with him, which is to provide an
24 appropriate fluid management regime, did you have any
25 kind of discussion with Professor Savage about that

1 possibility."

2 Being the fact that his kidneys could respond by
3 simply shutting down.

4 Then the answer comes back at line 6:

5 "No. I hadn't heard of that theory before."

6 And I asked him again to make sure I'd understood
7 it, and he said, no, he hadn't.

8 So the question I put to you is: do you have any
9 comment to make, did that surprise you that that was his
10 response?

11 A. Dr Taylor's response?

12 Q. Yes.

13 A. Yes.

14 Q. Why?

15 A. Because under the circumstances of Adam, his urinary
16 output would have been very dependent on his blood
17 pressure. It would not have been directly -- well, the
18 kidneys would have not have changed in function in
19 direct response to any of the anaesthetic drugs given,
20 but they would be very blood pressure dependent. And if
21 by the fact that he was anaesthetised, his blood
22 pressure decreased from its normal, then it is quite
23 likely, as Dr Coulthard has said, that the volume of
24 urine produced would have diminished or even
25 disappeared.

1 Q. Yes. I think Dr Coulthard explained the mechanism.
2 What I was asking you is: is that something that in 1995
3 you would have expected a consultant paediatric
4 anaesthetist or, for that matter, Dr Taylor, more to the
5 point, to have known about and to have potentially
6 raised with Dr Savage?

7 A. Certainly it would -- I would have expected a consultant
8 paediatric anaesthetist carrying out a major operation
9 in a child such as Adam to have known that the blood
10 pressure of a child such as Adam would have influenced
11 the volume of urine produced by the child during the
12 operation.

13 Q. Influenced so that the kidneys could produce no urine at
14 all?

15 A. None less, none or less, or perhaps the same if the
16 blood pressure didn't change.

17 Q. Thank you. While you're just on that point, if he had
18 appreciated that, is that something that you feel should
19 have been factored into his fluid management
20 calculations or plan?

21 A. Yes. It should have, could have been. I mean, the --

22 Q. Hang on, they're two different things. Should and could
23 are two different things. Obviously it could have been.
24 Is it something that you think should have been?

25 A. It should have been and it was an unknown. At the start

1 of the operation, Dr Taylor, or any other anaesthetist,
2 would not have known what Adam's urine output would have
3 been over the next few hours.

4 Q. What are the implications for that, then, as to how he
5 should establish, if it can be done, what his urine
6 output is or even identify whether the function has
7 ceased altogether?

8 A. Right. The implication of my statement just there is
9 that going back, we've said on several occasions that
10 Adam's electrolyte and water regulating mechanisms were
11 not able to be carried out by his kidneys. Therefore,
12 care and precision was required by those attending him
13 to make sure that the water and the electrolyte balance
14 was taken care of for him.

15 Now, if you are going to put something into
16 a patient, you need to have information as best as
17 possible, knowing what is coming out of that patient.
18 And to know what is coming out of a patient such as
19 Adam, there were various fluid losses during the
20 operation, one of which was, or might not have been, the
21 volume of urine produced during the operation at various
22 stages.

23 There are other mechanisms of fluid loss, which are
24 included in the table we have here, which we've all been
25 asked to complete. These would be evaporative losses

1 from the wound, insensible losses from his respiration,
2 blood loss, and the fact that his blood vessels would
3 have relaxed and vasodilate, and his circulating blood
4 volume may have increased during the time of surgery,
5 and may needed to have been kept replete, which leads us
6 to the whole question of central venous pressure
7 measuring.

8 Q. Just so that we understand, because this is part of --
9 well, it has come after your views on discussion with --
10 may or may not or should or should not have taken place
11 between Dr Taylor and Dr Savage, as he was then. You,
12 I think, have said that this is something -- the fact
13 that the kidneys could do that is something that
14 Dr Taylor should have been alive to and given some
15 consideration to in formulating his plan.

16 Is it something that should have been raised with
17 Dr Savage in part of the discussion they might have as
18 to the likelihood of that happening, or is that
19 something that Dr Taylor should have been expected to
20 know by himself and made his own independent decision as
21 to how he addresses that?

22 A. I think it would have been reasonable for it -- no, I'll
23 rephrase that. It should have been discussed between
24 Dr Taylor and Professor Savage. Attention should have
25 been drawn to the fact, emphasising the fact that Adam

1 was not able to regulate, compensate for changes in
2 fluid and electrolyte loss or administration in the same
3 way as someone with normally functioning kidneys could
4 and, therefore, full attention, scrupulous attention to
5 detail in terms of fluid and electrolyte balance, as
6 much as possible, by whatever means was appropriate
7 should have been carried out by Dr Taylor during the
8 procedure.

9 Q. Yes. This had started off on a slightly different place
10 from that. That is a general statement that you have
11 made a number of times that you think that scrupulous
12 attention should have been paid to that management of
13 Adam's fluid levels for all the reasons that you say.
14 But the question was slightly different, and that is the
15 possibility that Adam's kidneys could actually shut
16 down.

17 What I was asking you is, is that something that you
18 think Dr Taylor should have addressed by himself, he
19 didn't need any further discussion about it, he would
20 appreciate the implications of it, or is that one of
21 those things that you think should have been discussed
22 with --

23 MR FORTUNE: Sir, I rise again. This is going back to the
24 same topic, if it includes Professor Savage. You have
25 already indicated Dr Taylor's acceptance.

1 MS ANYADIKE-DANES: I'm sorry, this is getting at what the
2 topics are that should have been addressed. That's what
3 this is for. This is a line of questioning that
4 emanated from the experts' own discussion about
5 a function or lack of function of the kidneys.

6 So I am putting to this witness, in the shoes of
7 a paediatric anaesthetist, what he independently should
8 have understood about that possibility, or whether it's
9 something that he can be expected not to have understood
10 entirely by himself and should have raised with
11 Dr Savage. That's the question I've put to him, and
12 I think he's answering that. Or answered it, in fact.

13 THE CHAIRMAN: If you think he has answered it --

14 MS ANYADIKE-DANES: Yes, sir, I was moving on.

15 THE CHAIRMAN: I've got your point, Mr Fortune.

16 MS ANYADIKE-DANES: I'm sorry, sir, I may have been
17 presumptuous there. You may not think he has answered
18 that question or that it's inappropriate of him to be
19 answering it. I apologise for that, I may have been
20 presumptuous.

21 THE CHAIRMAN: No, your position, as I understand it,
22 is that this should have been discussed between
23 Dr Savage and Dr Taylor but that leads us back into the
24 earlier debate. Dr Taylor is accepting that he
25 understood everything that he -- he was given all the

1 information he needed to have. The question is whether
2 he understood and interpreted it properly. And that
3 then leads you back to your suggestion that it might
4 have been prudent for Dr Savage to say to him something
5 along the lines of: are you sure you've got that, or
6 is that clear or whatever?

7 A. Yes, that is my answer.

8 THE CHAIRMAN: I've got that.

9 MS ANYADIKE-DANES: Thank you very much, Mr Chairman. The
10 problem, of course, is that Dr Taylor has said that he
11 didn't know that the kidneys could have that
12 possibility, but that's a different question.

13 I wonder if I could take you then to, on the
14 19 April transcript, to page 42 at line 15. It's
15 a small point to ask you, and that is -- this is all
16 part of this dialogue.

17 The previous point that I had put to you is
18 something that Dr Taylor very fairly said, "I didn't
19 know the kidneys could do that".

20 In this case, this is a slightly different issue.
21 If we start maybe at line 3, in fairness, I asked
22 a question:

23 "Why you thought Adam could pass 200 ml an hour of
24 dilute urine."

25 Then Dr Taylor embarks on trying to explain that.

1 And I think at line 8 he says:

2 "I truly can't explain it. I understood
3 Professor Savage did tell me that he had a fixed urine
4 output. That's what I was told. I made my own
5 independent assessment of Adam and I miscalculated his
6 urine output and that led me to give the wrong amount of
7 fluid."

8 And then it goes on:

9 "You've just said that Dr Savage, now
10 Professor Savage, had told you that Adam had a fixed
11 urine output, is that correct; is that what you're
12 saying?

13 "Answer: I believe he did and I've read his
14 evidence that he did."

15 It's a small point, really, but one that has
16 interested somebody, and that is, the issue of whether
17 Adam did or did not have fixed urine output, in fact
18 I think the expert evidence is, and Dr Savage certainly
19 says it is, that he had a fixed urine output.

20 So the question is this, is that something that
21 a consultant paediatric anaesthetist ought to be seeking
22 to have from the nephrologist, or is that something he
23 should know as an incidence of the renal disease that
24 Adam had?

25 A. I'm certain in my opinion that anaesthetists should, if

1 he's unsure, ask and get a clear answer on that.

2 Q. I know that, sorry, but that's not the question. The
3 question is whether it's something he should know, that
4 Adam's chronic renal failure meant that his kidneys had
5 a fixed urine output. Is that something that he, as
6 a consultant paediatric anaesthetist, should know or
7 is that something that he could and should be
8 legitimately seeking information from Dr Savage about?

9 A. The latter is the answer. He should have sought
10 confirmation or explanation from Professor Savage about
11 Adam's urine output and likely urine output during the
12 operation.

13 Q. He's conceded that in fact he got the information, he
14 just misinterpreted it. What I was seeking from you is
15 whether he should have been relying on Dr Savage or
16 whether he should have understood sufficiently about the
17 consequences of renal failure to have known that that
18 would mean that the kidneys would have a fixed urine
19 output.

20 A. No, I think it is unfair to expect Dr Taylor or any
21 other paediatric anaesthetist to have a complete
22 in-depth knowledge of paediatric renal medicine, and it
23 was quite appropriate and correct that the anaesthetist
24 should seek advice, information, fact, from the
25 nephrologist in charge of Adam's case.

1 Q. And the evidence is he was given it, he just
2 misinterpreted it.

3 A. That's my understanding.

4 THE CHAIRMAN: Is it inevitable that there's a fixed urine
5 output, or is that -- sorry, I will keep it short. Is
6 it inevitable that there's a fixed urine output?

7 A. In end-stage renal failure like this?

8 THE CHAIRMAN: Yes.

9 A. My answer to that is that you would be better to get
10 a definitive answer from a paediatric nephrologist on
11 that.

12 THE CHAIRMAN: Okay, thank you.

13 MS ANYADIKE-DANES: If we then start to get into the issue
14 of fluids and the total volume that was administered to
15 Adam. I think that issue starts, still on 19 April, at
16 page 49. Sorry, actually, it starts -- in order to put
17 it in its context, it starts at page 48.

18 This is Dr Taylor explaining about formulating his
19 fluid management plan for Adam and, in doing that,
20 trying to get a sense of what his hourly urine output
21 was. You can see that the question is starting -- or
22 the information is being given to him starting at
23 line 6.

24 Then it's being put to him how he came about the
25 figure that he actually used. And at 12:

1 "Did it occur to you whether that could possibly be
2 correct? If that was his hourly urine output ..."

3 That's 200 ml an hour:

4 " ... What would that actually mean in terms of his
5 input, his daily input? Did it occur to you to sort of
6 cross-check yourself in that way."

7 Then Dr Taylor says he's not going to speculate any
8 more. He has said he can't explain where he got the
9 number 200 from, and he's not going to speculate about
10 that.

11 Then he's pressed a little more as to whether he
12 could possibly, if you like, have thought that that was
13 the right answer or a correct figure.

14 If we go over to page 49, it's put to him:

15 "That would amount to about 4.8 litres a day on that
16 basis."

17 And I asked him about that, and he agreed that
18 it would. He's also agreed that you wouldn't find
19 a figure like that anywhere in the notes.

20 Then the chairman intervenes to say:

21 "And that would be extraordinary at that level,
22 wouldn't it, 4.8 litres?"

23 And the answer to that is:

24 "I don't know."

25 And then I ask him about that, how can he not know

1 whether it would be extraordinary for a four-year-old
2 child of 20 kilos to be administered 4.8 litres of fluid
3 a day. And the answer to that is:

4 "I'm not prepared to speculate."

5 And so that we have the whole thing in context
6 without partial extractions, if one goes over the page
7 to 50, we see that after putting all those propositions,
8 Dr Taylor ends up with accepting that it's a very large
9 number for any child to take in, in a day. Then we move
10 on to another point.

11 What I wanted to ask you is your observation on that
12 exchange in relation to Dr Taylor's response to the
13 administration of 4.8 litres to a four-year-old child of
14 20 kilograms in a day.

15 A. My initial reaction was one of amazement when I read
16 that. To give 4.8 litres of fluid to anyone of any size
17 is a lot. I was very surprised that the simple
18 arithmetic didn't strike him as being extremely unusual
19 and well beyond what could normally be expected,
20 certainly for a 20-kilogram boy.

21 Q. I wonder then if we can move into the issue of fluid
22 deficit. If we go into the next day's evidence of
23 20 April and go to page 27. It really starts at
24 line 20. What Dr Taylor's being asked about here is his
25 view in relation to Adam having a fluid deficit as he

1 arrived for his surgery.

2 So he says:

3 "I believe my view at that time [that's obviously
4 1995] was that there was a fluid deficit because he had
5 been denied -- he had been fasted, he had been denied
6 fluids for two hours."

7 And then if we just pause there for the moment.
8 What is your comment on that, that he had a fluid
9 deficit on that basis alone?

10 MR UBEROI: Sir, I rise to -- it's perhaps a question that
11 needs the added context of the debate of --

12 MS ANYADIKE-DANES: Well --

13 MR UBEROI: -- dialysis and the duration of dialysis.

14 MS ANYADIKE-DANES: Sorry, well, I was simply going to ask
15 him that, but that's fine, we'll try and take it in
16 bite-size chunks, but we'll move on.

17 So that's what he says there. I then ask him about
18 the effect of peritoneal dialysis. And if we go over
19 the page to 28, he says that he's going to -- the effect
20 of that, he's going to defer to the experts. And I am
21 seeking his view.

22 And then that's what he starts to give at line 8:

23 "My understanding is that peritoneal dialysis
24 equilibrates, equalises the sodium and other electrolyte
25 contents and fluids."

1 Then I ask him:

2 "So why did you think, since he'd had his dialysis,
3 he was in deficit?"

4 And the answer he gives is:

5 "My understanding for Adam was that the dialysis
6 didn't allow fluid to be taken up into his body or that
7 there was little to be taken off his body, but I didn't
8 have the access to his dialysis records."

9 Pausing there, that's an issue all on its own:

10 "And I believe that was my thinking at the time."

11 And then he goes on:

12 "When you told me before that you'd got all the
13 information you thought you needed, have you identified
14 now when we start to look at this in more detail, an
15 aspect of information that you didn't have?"

16 And he says he believed he had the information
17 verbally, that's on dialysis.

18 And if one goes over the page and the question is
19 put:

20 "So in some way you gained the impression that
21 although he had undergone peritoneal dialysis, for
22 various reasons that had not been ..."

23 I think that's an error in the transcript. I think
24 it's "able":

25 "... to have the effect which you thought it should

1 normally have, which is to equalise both the sodium
2 content and the fluids. Is that what you're saying,
3 essentially?"

4 To which he says:

5 "I think the dialysis is to be considered over the
6 24-hour period, as Professor Savage outlined, from 8 am
7 on the previous morning to 8 am. It's a 24-hour fluid
8 balance cycle that I was using. So therefore, Adam
9 normally had 1,500 ml of fluid overnight during his
10 dialysis, which would tend to equilibrate his fluid and
11 sodium, and then two boluses of feed during the daytime,
12 two 300 ml of boluses, and that made his daily
13 requirements ..."

14 And then he goes on:

15 "So my understanding, if one looked at the 24-hour
16 period at which Adam was coming towards the end of, at
17 7 am, that his fluid balance for that 24-hour period
18 would have been in deficit by an amount between 300 and
19 500 ml. That was my understanding."

20 Now, your expert evidence has been that he wasn't in
21 deficit. What is your view of his explanation for why
22 he thought what Adam went into that surgery with
23 a deficit of somewhere between 300 and 500 ml?

24 A. I have looked at this and I find it difficult to make an
25 awful lot of -- I find it hard to understand his train

1 of thought. I find it much easier to approach it
2 knowing what I do know about renal medicine and the
3 effects of peritoneal dialysis. But what I find
4 difficult to understand is Adam had an abbreviated
5 period of dialysis on the eve of his transplant, and
6 you've mentioned the fact that -- or highlighted the
7 fact that dialysis records, in particular his weight and
8 fluid balance, weren't kept perhaps as well as they
9 might have been, and that has been addressed by one of
10 the other experts. I cannot see how Dr Taylor came to
11 the conclusion that Adam was short of fluid to that
12 extent, no matter how I look at this, I find it very
13 hard to draw that conclusion.

14 Q. To be fair to Dr Taylor, it's not only, I think,
15 Dr Taylor who reached that view, I think so too did
16 Dr Savage. He also thought that he was in deficit.

17 MR UBEROI: I think my recollection of the evidence was in
18 fact that that was a passage where Dr Taylor was trying
19 to explain it, but in fact his previous evidence had
20 been that he would have received that information from
21 Professor Savage.

22 MS ANYADIKE-DANES: Yes, and if one looks at the comparative
23 sheet, although I think -- yes. The comparative table
24 of Adam's perioperative fluid balances, which is
25 reference 300-077-145, maybe that can be called up.

1 Actually, sorry, let's start with the beginning, sorry.

2 300-077-141. There we are. That shows you the
3 daily 24-hour period. Then if one goes to 300-077-142,
4 one sees the time between ward admission and start of
5 perioperative fasting. You'll see along the top there's
6 you, Professor Gross, Dr Coulthard, Dr Taylor and
7 Dr Savage, all with your respective calculations.

8 Then the time between the start of the perioperative
9 fasting and anaesthesia, which is 5 to 7. If you look
10 along the line that says "Cumulative fluid losses", you
11 can see the figure, cumulative fluid input and
12 cumulative -- or estimated cumulative fluid excess.

13 And then if one sees -- and we'll go over the page:

14 "Time between the induction of anaesthesia and the
15 start of surgery."

16 And then on through all the various phases that
17 we have identified through his surgery.

18 So can you explain, just so that people have it, by
19 reference to this, and tell me if this isn't helpful to
20 you for that purpose, why you came to the view that Adam
21 was not in deficit? That's one task I would like you to
22 do, and when you have done that, we'll move to the
23 difference between the 24-hour cycle he took and the
24 cycle from admission.

25 A. Right. If we could perhaps go back to the first --

1 Q. Yes, the very first page of the daily, the 24-hour
2 period?

3 A. No, the part that shows 2200 to 0500 hours. The
4 previous page.

5 Q. Yes, that's 300-077-142.

6 A. Yes. Would you like me to take you through the
7 calculations?

8 Q. Well, I think so, because there is a difference and
9 I think that it would be helpful if you explained how
10 you arrived at your figures and why you say he wasn't in
11 fluid deficit.

12 A. Okay. If we look at row (a) where I've put "Insensible
13 losses", insensible losses are water that is lost either
14 through transpiration in your exhaled breath,
15 perspiration or as a component of faeces. There are
16 various formulae for calculating this, but they all come
17 up with a fairly similar answer. If we look at the
18 formula I have used, that I use in my clinical work,
19 it is that the insensible losses for an afebrile patient
20 are 400 ml per metre squared of body surface area per
21 day. And you can see that the other experts have come
22 up with similar but not identical calculations.

23 Q. Yes. We can see the difference it makes. You're at
24 403, Professor Gross is at 392, Dr Coulthard's at 434,
25 Dr Taylor is at 547, the largest, I think, and then

1 Professor Savage is at 434.

2 A. That's looking at the urine output as a consequence of
3 insensible losses. So if you look at row (a) first, the
4 calculation I have arrived at using the formula that
5 I use in daily practice is that during the seven-hour
6 period overnight, Adam would have lost 93 ml of water
7 through insensible losses. Professor Gross came out
8 with a slightly larger figure. Dr Coulthard, a slightly
9 smaller figure. Dr Taylor, the same as Dr Coulthard.
10 And Professor Savage, by a different formula but the
11 same figure as the other two.

12 Q. Mm-hm.

13 A. So they're pretty much of a muchness. Professor Gross'
14 is a little bit larger, but I don't think it would make
15 any difference to the overall management.

16 And then row (b), on the basis that everything has
17 to add up, the urine output would be what would go in
18 during that period less the calculated insensible
19 losses. Okay?

20 Q. Mm-hm.

21 A. So we can see that the calculation is to work out what
22 we expect Adam's urinary losses would have been during
23 that seven-hour period.

24 Q. Okay.

25 A. So using my formula, I came up with a calculation that

1 Adam would have lost 403 ml of fluid during that
2 seven-hour period. Professor Gross came out with
3 392 ml; pretty similar. Dr Coulthard, very similar.
4 Dr Taylor, larger but, from a practical point of view,
5 wouldn't have made a significant difference. And
6 Professor Savage came up with the same as Dr Coulthard.

7 Then there's the slightly uncertain row, row (c).
8 Adam received eight of his usual 15 peritoneal dialysis
9 cycles, and the figures derived here can only be a best
10 guess, since there was no actual measurement. However,
11 what I think is interesting is that by slightly
12 different means, and I chose to use the fact that he had
13 eight instead of 15, so I multiplied what one would
14 expect his dialysis losses to have been, by eight over
15 15, that everyone, except Dr Taylor, has entered
16 a fairly similar prediction.

17 THE CHAIRMAN: Dr Savage's is a wide-ranging one, from 50 to
18 250?

19 A. I think because mine was an arithmetical calculation,
20 I just did the sum and put down a final figure.
21 Dr Savage has put a range, which is what he would
22 anticipate, knowing the effects of peritoneal dialysis
23 in a patient such as Adam, what it's likely to have
24 been. And it's within the same range as myself,
25 Professor Gross and Dr Coulthard.

1 THE CHAIRMAN: Well, sorry, it's beyond everybody's maximum
2 and not quite as low as Dr Taylor at zero. It's a very
3 wide range. Because his top of the range at 250 is
4 larger than you or Messrs Gross or Coulthard, and his
5 bottom of 50 is substantially less than all three of
6 you, and not far off Dr Taylor.

7 A. Yes, but if you were to take the biggest discrepancy, if
8 you were to take Professor Savage's lower estimate of
9 50 ml and my estimate of 213 ml, that will put an error
10 of 163 ml into the fluid balance calculation, and as
11 we'll see further down the chart, that is much smaller
12 than the volumes we're talking about.

13 THE CHAIRMAN: Okay.

14 A. Likewise, if you take the other extreme, if you take
15 Professor Savage's 250 ml estimate and take Dr Taylor's
16 estimate of zero, again that's the biggest discrepancy's
17 going to be 250 ml when it comes to overall fluid
18 balance calculation, and we'll see that that represents
19 a small fraction of the volume of fluids we are talking
20 about.

21 So for practical purposes I put it to you that
22 there's no significant difference in the calculations to
23 date, as far as the end of row (c).

24 THE CHAIRMAN: Okay.

25 A. The line below that is -- just for easy of reading, I'll

1 go over this -- that for the time period there's
2 a number and then in brackets is a summation of the
3 total fluid losses from 2200 hours to the end of the
4 point being discussed. So for this first page, the two
5 numbers are going to be identical.

6 THE CHAIRMAN: Yes.

7 A. So if we proceed down to the row that begins "Estimated
8 (cumulative) fluid excess", which is derived by
9 subtracting the input from the output, we can see that
10 the range is the lowest from Dr Coulthard, an estimate
11 of fluid excess at 0500 hours of 248 ml, and Dr Taylor's
12 excess of 353 ml, but I would put it to you that
13 although they're slightly different, in the greater
14 scheme of things the differences, at this point, are
15 insignificant.

16 THE CHAIRMAN: Does that mean that -- just to bring this to
17 a head because obviously everybody has been asked to do
18 their separate calculations, and Dr Taylor's estimate
19 that Adam's fluid deficit was between 300 and 500 ml, in
20 the train of what happened how significant is that?

21 A. In the train of what happened, that is a very small
22 number.

23 THE CHAIRMAN: Yes, that's what I thought.

24 A. If you place that as the numerator over the fractions
25 we're talking about.

1 THE CHAIRMAN: In other words, if he'd got his other
2 calculations and assessments right, the fact that he was
3 out at the start perhaps by 300 or 500 ml would have
4 made no difference at all?

5 A. No difference at all.

6 THE CHAIRMAN: So this is perhaps instructive about his
7 understanding of the starting point, but it is not the
8 fundamental problem of what went wrong during Adam's
9 operation?

10 A. No. It shows that whenever Dr Taylor compiled his
11 column of this chart, by whatever route he took to
12 derive it, it's not that dissimilar from what everyone
13 else has said.

14 THE CHAIRMAN: Thank you.

15 MS ANYADIKE-DANES: I probably should mention, Mr Chairman,
16 that when Dr Taylor was giving his evidence, I believe
17 he said -- and I will stand corrected -- that this chart
18 was compiled with matters as he knew them to be now and
19 not from what he actually did in 1995.

20 THE CHAIRMAN: Yes.

21 MS ANYADIKE-DANES: Now, he knew or appreciated that Adam
22 had a fixed urine output but not of the sort that he had
23 understood it to be, if I can put it that way. So this
24 chart doesn't actually reflect the calculation, as
25 I understand it, that he made in 1995.

1 MR UBEROI: Yes, that's correct.

2 MS ANYADIKE-DANES: Thank you.

3 A. That is why I phrased my answer to the last question the
4 way I did.

5 Q. Now, what I was asking you to help with is the route
6 that Dr Savage and, with him, Dr Taylor, I understand,
7 got to thinking that Adam had a deficit going into his
8 surgery, was that whilst Dr Savage and, for that matter,
9 Dr Taylor appreciated the equalising effects of
10 peritoneal dialysis, if I can put it that way, the view
11 they took, I think Dr Savage was leading in this,
12 is that you need to apply that over a 24-hour period.
13 And if you apply it over a 24-hour period, you actually
14 end up with a deficit of somewhere between 300 and
15 500 ml. Whereas if you apply that principle of
16 equalising to the position from when he was admitted to
17 hospital until he presented for his operation, he's not
18 in deficit at all. And that seems to be a difference
19 between you, Dr Coulthard and possibly Professor Gross
20 as well, and on the other side, Professor Savage and
21 Dr Taylor.

22 So what I wanted you to help us understand, and
23 maybe the better way is for you to just go straight to
24 that, is, in your view, what is the period of time over
25 which you are looking at the dialysis? Is it a 24-hour

1 cycle, or from his admission?

2 A. I think you need to look at it from both points. If you
3 take a step back and look at the way Adam's fluid
4 balance would have evolved over an average day, if you
5 take, for example, 8 o'clock in the morning as time
6 zero, as the start of Adam's day, from 8 o'clock in the
7 morning, he would have produced whatever volume of urine
8 he produced, and there's been some discussion as to
9 whether it's 58 ml an hour or less, but he would have
10 produced on average that amount per hour.

11 Q. Yes.

12 A. And he was mostly fed overnight. But because of the
13 ongoing steady loss of volume during the day, he was
14 also given supplementary feeds during the daytime to try
15 and even out this fluctuation. The insensible losses
16 would have fluctuated a little bit as well. If he was
17 more active he'd have lost a little more through
18 perspiration and transpiration in his exhaled breath.
19 But I think the simplest way of approaching it is that,
20 yes, there would have been fluctuations during the day
21 up to the point of dialysis. But when he was in health
22 and given the way his fluid intake was managed, those
23 fluctuations would not have been huge, and that is how
24 Professor Savage evolved his care, which was carried out
25 by his mother. Obviously very successfully and very

1 well because of the way in which he grew and thrived.

2 Then it's only when you start the overnight period
3 that you can perhaps look in detail at what is happening
4 hour by hour or time period, or epoch by epoch. And
5 whatever has to happen, if Adam stays the same weight at
6 8 o'clock the following morning compared to the previous
7 morning, the assumption is that his fluid balance is
8 neutral, he's neither gained nor lost fluid.

9 Now, in an ideal world that would almost never
10 happen, there'd always be a little bit of change from
11 day-to-day. But during that 24-hour period, there would
12 be times when he would be relatively fluid overloaded
13 and times when he might be a little bit short of fluid.
14 But one would imagine that -- no, I take that word out.
15 He would never be either dangerously overloaded or
16 dangerously dehydrated, assuming that he was otherwise
17 healthy and not losing fluid.

18 Q. Okay.

19 A. Does that make --

20 Q. It does. Maybe I can ask you this question then.

21 Ultimately, between all of you, it's somewhere in or
22 about 300 or 500 ml?

23 A. Yes.

24 Q. Ultimately. Lets just go to that. In terms of Adam
25 arriving at theatre -- let's assume Dr Savage was right

1 and let's take 300 or 500 -- how significant is that in
2 terms of his fluid balance, if he should arrive in the
3 theatre in that condition, leaving aside whether you
4 think he or he didn't?

5 A. If it's between 300 and 500 ml in a 20-kilogram child,
6 it is very unlikely to be of major significance whether
7 it is 300 ml of excess, 300 ml of deficit, because if
8 you look at a child, it is very hard clinically, when
9 you examine a patient, to say that a child is dehydrated
10 before they've become 5 per cent dehydrated, which would
11 be 5 per cent of body weight. So in Adam's case, he
12 would have had -- 5 per cent is 1/20, so he would have
13 had to have had a litre of variation in his fluid
14 balance before he was obviously dehydrated from the end
15 of the bed, and we're talking about between 300 and 500.

16 If you are examining a child you're doing very well
17 if you can say with certainty that someone is 2 or
18 3 per cent dehydrated.

19 Q. This leads directly into the plan to replace what was
20 perceived to be a deficit. Let's keep on with the theme
21 that there was one and it was of the order of magnitude
22 that Dr Savage and Dr Taylor thought it was, which was
23 somewhere between 300 and 500 ml. We have Dr Taylor's
24 evidence as to replacing that deficit. It's 20 April,
25 I believe it starts at page 36.

1 If one goes to line 12 -- well, line 10 is the
2 question, in fairness. So the question is put:

3 "How quickly did you think or at what rate did you
4 think you needed to recover that deficit?"

5 And the answer is:

6 "Well, it was in my plan to recover that very
7 quickly and I now recognise that that was an error
8 because I used fifth normal number 18 to correct the
9 deficit, and I shouldn't have."

10 Now, there are two things going on in that answer,
11 but -- sorry, I go on to say that. Just to make sure
12 that you have Dr Taylor's evidence fairly before you,
13 I say:

14 "Firstly, why was it in your plan to recover
15 a deficit of something between 300 to 500 ml very
16 quickly? Why did that have to be recovered very
17 quickly?"

18 And so the answer is:

19 "I can't remember, but I think there were multiple
20 reasons for that. Primarily, it was the fluid balance,
21 [the fast], the fact that he normally got 1,500 ml of
22 fluid overnight and the fluid balance sheet shows that
23 he got 970 ml of fluid prior to his transplant and
24 therefore a very simplistic calculation, I accept,
25 he was in deficit of approximately 500 ml."

1 And then we go on.

2 MR UBEROI: I think the word was intended to be "fast".

3 You said "the fact", but I think it was "the fast".

4 MS ANYADIKE-DANES: I beg your pardon. "Fast". And then to

5 line 8 when he's pressed about that, why he formed the

6 view that such a deficit needed to be removed very

7 quickly, and he says in answer at line 8:

8 "Because I felt that I had to prepare Adam in

9 a short time for the process of implanting a kidney."

10 And then he goes on to elaborate on that:

11 "It's a different process from any other operation

12 because it's a process where we deliberately expand the

13 patient's circulation and make sure that there are no

14 other fluid deficits going on."

15 And then I ask him:

16 "That being the case, how quickly did you think

17 a deficit of 300 to 500 ml had to, in the case of Adam,

18 be recovered and why."

19 And then he explains that he miscalculated Adam's

20 urinary losses and had assumed, for whatever reason,

21 that he was passing up to 200 ml. That was an error.

22 And therefore, he felt:

23 "I was now in a position [line 23] that I had to

24 make up the losses that I had miscalculated for his

25 urine losses and that was the reason I rapidly infused

1 the solution of what I thought to be the replacement for
2 his dilute urinary losses."

3 So if one unpacks that into two bits, first of all.
4 The first is that he thought that he had a deficit of
5 300 to 500 ml. Can I ask you just simply, how quickly
6 do you think such a deficit needs to be recovered?

7 A. A patient like Adam, where you know that there are going
8 to be ongoing fluid losses, blood loss from surgery, you
9 would want that replaced -- I would want that replaced
10 before the commencement of the surgery.

11 Q. Sorry, just what would that mean?

12 A. Between 15 to 30 minutes from when you got intravenous
13 access, so fairly quickly.

14 Q. So you'd want 500 ml to be replaced within in 15 --

15 A. If you decided that the deficit was 300 ml, which in
16 Adam's case is 15 ml per kilogram body weight, I would
17 be keen myself to ensure that that was replaced fairly
18 quickly within 10/15 minutes. I would be reluctant to
19 replace the whole 500 ml within that space of time
20 because you would know that your calculation might have
21 been wrong and you would want to have an assessment of
22 Adam's clinical state, and you wouldn't want to give him
23 too much fluid too quickly. Equally, you'd want to give
24 him the right amount.

25 Q. If we pause there. If the plan is we infuse him with

1 that and recover that -- say recover 300 over 15 to 20
2 minutes and then your going to assess him because you're
3 not sure whether in fact you need to recover ultimately
4 500, you don't know, what is the assessment you carry
5 out at that stage?

6 A. You can look at his peripheral perfusion, you can --

7 Q. Not what you can do. What does one do?

8 A. I'll rephrase that. You would look -- one looks at the
9 peripheral perfusion, and by that I mean the briskness
10 of capillary refill, the temperature gradient between
11 the core and the peripheries. You would -- I'm sure
12 we'll come to this presently -- look at clinical
13 examination of the venous system, in particular the
14 central venous system, as to whether there's an index
15 that is circulation, which, you have to remember, going
16 right back to the beginning of today, is only a small
17 percentage of total body water, but it is critically
18 important.

19 Q. I understand. So what you're trying to do is to satisfy
20 yourself that you haven't unbalanced anything by
21 infusing that amount in that period and, if you need
22 still to carry on addressing a deficit which may be
23 larger than 300 ml. Is that correct?

24 A. Absolutely.

25 Q. And all that is done before surgery?

1 A. That would be done in the case of Adam when you're
2 preparing for a lengthy major operation whilst you are
3 doing the other things that you --

4 Q. Would you tell the surgeon you'd done that?

5 A. Not unless he asked.

6 Q. Okay. So you do that. And then Dr Taylor had another
7 reason for wanting to infuse fluids. That other reason
8 was actually -- he's admitted it was an error, but for
9 the purposes of his thinking, as I understand it, he
10 thought that Adam passed 200 ml an hour. So that was
11 another reason. And, of course, he wanted to ensure
12 that there was a sufficient fluid because he was going
13 into -- or Adam was going into a renal transplant.
14 What's your observations on that and how quickly,
15 therefore, you would have had to be putting further
16 fluids in over and above that to correct the estimated
17 300 ml deficit?

18 A. If you say or if you make -- the assumption is made that
19 the urine losses were 200 ml per hour, regardless of
20 everything else, you would want to replace that volume
21 at a rate of 200 ml per hour plus any other losses that
22 you'd be allowing for.

23 Q. So assuming that, which we know he didn't, but say
24 he was right about all these figures, he's right about
25 the deficit, he's right about the urine output, what

1 does that mean, so far as you're concerned, about the
2 rate of infusion and the volume of fluids that should
3 have been going in in the first, say, half hour up to
4 hour and a half? We can look at the anaesthetic record.
5 I think that might help. I think it's 058-005-003.

6 There we are. We can see, if one looks by the
7 one-fifth saline solution row, what was actually put in.
8 So I'm just pulling this up to help you with your
9 explanation.

10 If Dr Taylor had been right about a deficit of
11 300 ml, he came in with, and he passed 200 ml an hour,
12 what would that imply as to what he should have been
13 administering?

14 A. If he came with a deficit of 300 ml and he passed 200 ml
15 per hour, that would mean that in the first hour,
16 regardless of any other fluid losses, you are looking at
17 a requirement for 500 ml of fluid to be given.

18 Q. In fact, 500 ml was given in the first half hour.

19 A. Yes.

20 MR UBEROI: Sir, I'm rising for accuracy. The deficit under
21 discussion was 300 to 500 and it's been alighted upon as
22 being 300.

23 MS ANYADIKE-DANES: Yes, sorry.

24 A. So if we say --

25 THE CHAIRMAN: Take it to the first hour then. If the

1 deficit is between 300 and 500 and there's an output of
2 200, then the input should be between 500 and 700 in the
3 first hour, when in fact the input was 1000?

4 A. Yes.

5 THE CHAIRMAN: Followed by another 500.

6 MS ANYADIKE-DANES: Yes. Now, in fact, Dr Taylor goes on to
7 explain the fluid that he infused and why.

8 If what he actually infused was hypotonic fluids,
9 the number 18 solution, if he hadn't, if he had infused,
10 say, isotonic, he'd done it at that volume and at that
11 rate over that period, but instead of the number 18 he'd
12 used isotonic fluids, what is the difference in what
13 would have happened to Adam?

14 A. If he'd had isotonic fluids administered, which would
15 have been either Hartmann's solution, which has a sodium
16 concentration of 132 millimoles of sodium per litre, or
17 normal saline, which is called normal, it would have
18 a sodium concentration of 150 millimoles per litre, the
19 sodium present in Adam's circulation would not have been
20 diluted so much.

21 Q. And what would that mean for Adam?

22 A. That would mean that had normal saline been used for
23 that 1000 ml of fluid given in the first two hours, that
24 it is unlikely that his -- that the sodium concentration
25 in his serum would have been diluted or would have

1 fallen.

2 Q. I appreciate that. Remembering the explanation you gave
3 as to how the fluid in the body, the water, changes from
4 high density to low density, I appreciate all of that,
5 but if you can just answer this. If that's what he had
6 done and, therefore, you say his sodium levels had not
7 been diluted in that way, what would have been the
8 effect for Adam?

9 A. Ultimately?

10 Q. Yes.

11 A. It is my opinion that he would probably have survived.

12 THE CHAIRMAN: So distinguishing between important factors,
13 the critical is the type of solution given?

14 A. Yes.

15 THE CHAIRMAN: Aggravated by the volume and the rate?

16 A. Yes. We've already seen that there's an evolving range
17 in terms of fluid balance.

18 If I could follow this through with a hypothetical
19 situation. If Adam had been given this volume of fluid
20 as either Hartmann's solution, 0.9 per cent saline, or
21 plasma protein solution, then if there'd been the
22 correct volume of fluid, then nothing would have
23 happened.

24 THE CHAIRMAN: By definition?

25 A. Yes. If it had been too much volume but of an

1 appropriate fluid, it is likely that he would have
2 developed pulmonary oedema, which would have been
3 manifest by difficulty oxygenating him whilst he was
4 being ventilated for the surgery, which at that point
5 would not have been fatal and could have been
6 reversible.

7 If it had been too little fluid of the right kind,
8 again there would have been difficulties with
9 maintaining blood pressure, particularly in the face of
10 general and epidural anaesthesia, and it would have been
11 clinically apparent that he needed more fluid. So the
12 worst that could have happened, had he been given this
13 volume of either Hartmann's or 0.9 per cent saline,
14 is that he could have developed an easily reversible
15 condition or a relatively easily reversible condition.

16 MS ANYADIKE-DANES: Thank you.

17 You started the explanation of the fluid chart by
18 explaining that you were making assumptions as to what
19 his actual urine output was. And we've heard a little
20 bit about his urine output and what it may or may not
21 have been and how it may or may not have been affected
22 by the surgery itself.

23 You also have expressed the view that Adam should
24 have had a urinary catheter inserted. Dr Taylor's
25 practice, he gave in evidence, was to request the

1 surgeon to insert a catheter. He said that in
2 Northern Ireland -- well, in his hospital, to be fair to
3 him, I think is what he said literally, the surgeon
4 would do that. That isn't what an anaesthetist would
5 do. And I think he indicated that you might feel more
6 comfortable doing that because of your cardiac practice.

7 MR FORTUNE: Sir, I hesitate to rise. Bearing in mind we've
8 been going for well over 1 hour and 20 minutes; is it
9 not time for a break for the stenographer?

10 THE CHAIRMAN: You're very kind. Let's do the urinary
11 catheter and then we'll take a break.

12 MS ANYADIKE-DANES: What is your view on that, that
13 somehow -- not that somehow, that you would feel more
14 comfortable or able to insert a urinary catheter as an
15 anaesthetist because of the particular nature of your
16 practice?

17 A. No, that's not the case. I think Dr Taylor, as we've
18 heard earlier, worked in the paediatric intensive care
19 unit, and implicit in paediatric intensive care is
20 careful assessment of fluid balance, which in
21 a ventilated child invariably requires urinary
22 catheterisation. And if he was a responsible consultant
23 for that, either he should have been able to do it or
24 should have been able to oversee others doing it. And
25 certainly in my non-cardiac practice, the urinary

1 catheter is put in children of all ages by anyone who is
2 competent to do it, and that may be myself, it may be
3 one of the surgical team or it may be a member of one of
4 the nursing team.

5 MR UBEROI: I'm just concerned that there's unintentionally
6 been a misquoting really of Dr Taylor's evidence.
7 I don't believe the sting of Dr Taylor's evidence on
8 this went to the capability of inserting the catheter.
9 Page 49, please.

10 MS ANYADIKE-DANES: Can we start at page 47, please,
11 line 10.

12 MR UBEROI: The evidence that Dr Taylor gave was that the
13 decision to insert a urinary catheter is a surgical
14 decision. But picking up on what the witness was being
15 asked to speak about there, on to 49, please. The
16 relevant extract starts at line 19 of page 49. What
17 he's saying --

18 MR MILLAR: I can't see -- I'm not sure what's happening.

19 THE CHAIRMAN: I think that's because we're still arguing
20 what page we're looking at. If you give us one moment,
21 Mr Millar, to let the argument subside.

22 MS ANYADIKE-DANES: Nobody's looking at it, Mr Millar. It's
23 the transcript of 20 April, page 49. And literally, it
24 starts at line 21 where, in answer, Dr Taylor is saying:
25 "I do not know if he has [that is you, Dr Haynes]

1 taken his practice in the paediatric surgical
2 anaesthesia department and maybe applied it to the
3 complexities of urological paediatric surgery and
4 perhaps -- you'll have to ask him. All I'm highlighting
5 is that he works in the paediatric cardiac surgical
6 unit, whose patients don't necessarily have paediatric
7 urological conditions, and he maybe is seeing his
8 practice where he inserts, clearly, urinary catheters as
9 part of the preparation of an infant and child for
10 cardiac surgery, where it is certainly important to
11 monitor the urinary output as a measure of cardiac
12 function during and after cardiac bypass and cardiac
13 procedures. I don't know if that's helpful but I just
14 wanted possibly to help the inquiry to see some
15 differences between experts."

16 That was what I was putting to you. I probably
17 incorrectly summarised it, but it was the nature of your
18 cardiac practice that allowed you to express the view
19 that you would do that, and what Dr Taylor was saying is
20 that's not what would happen in his hospital.

21 So I wonder if you can maybe comment, now that
22 you've had it read out and you've seen it, on how he has
23 put it, that you were able to make those comments about
24 inserting a urinary catheter because that's what you do
25 as part of your cardiac practice.

1 A. Maybe it means that I do it more frequently than
2 colleagues in other situations do, but I would still
3 hold by my view that Dr Taylor worked in the paediatric
4 intensive care unit where he would be called upon from
5 time to time to do that and should feel comfortable in
6 doing it.

7 THE CHAIRMAN: I think Mr Uberoi's intervention was that
8 Dr Taylor wasn't saying he couldn't do it, right? It
9 was he was saying it was his practice not to do it in
10 surgery, and that was a matter for the surgeon instead.
11 Is that right?

12 MR UBEROI: Yes, sir.

13 THE CHAIRMAN: So Dr Taylor is saying: yes, I could do it,
14 but typically in surgery I would leave it for the
15 surgeon to do.

16 A. I accept that. But there's times ... When there's an
17 indication for a urinary catheter, the importance
18 is that it's safely inserted by someone who's capable of
19 doing that, whoever that may be.

20 THE CHAIRMAN: If the surgeon doesn't want it, and Mr Keane
21 has said he didn't want to use it in this case, but if
22 Dr Taylor thought it was necessary, should he insist on
23 it?

24 A. In Adam's case, I think there is a strong indication,
25 but not an absolute indication, for urinary

1 catheterisation.

2 THE CHAIRMAN: Okay.

3 A. I think it would have been appropriate for Dr Taylor to
4 have made a simple annotation somewhere, along the lines
5 of "urinary catheter inserted" from the surgical team
6 decision, and not to insert it for surgical reasons, or
7 something like that.

8 THE CHAIRMAN: He says he now does make a note. His
9 subsequent practice has been, I'll be corrected if I am
10 wrong, that he does ask for it, and if the surgeon
11 chooses not to insert a urinary catheter, he notes the
12 fact that it was requested and the reason for it not
13 being inserted; isn't that right?

14 MR UBEROI: Yes.

15 MS ANYADIKE-DANES: Yes.

16 THE CHAIRMAN: So that's --

17 A. That seems perfectly reasonable, yes.

18 THE CHAIRMAN: But going back to 1995, you think there was
19 a strong but not absolute indication for it?

20 A. Yes. The indication for Adam for a urinary catheter was
21 twofold for the two different stages of the operation.
22 One was to monitor the volume of urine, fluid lost, and
23 the other was at the end of the operation to ensure that
24 the bladder was empty and that there was drainage of the
25 urine produced by the transplanted kidney. That need

1 not be by a urethral catheter, but it may well have been
2 by a suprapubic surgically inserted catheter during the
3 course of the actual transplant operation.

4 THE CHAIRMAN: Both one and two or just two for suprapubic?

5 A. Two.

6 THE CHAIRMAN: Just two. You're saying there were two
7 stages -- [OVERSPEAKING].

8 A. Yes. One is to know what Adam's -- or to have guidance
9 as to what Adam's fluid balance state was during the
10 first part of the procedure.

11 MS ANYADIKE-DANES: Which catheter achieves that?

12 A. Urethral.

13 Q. Thank you?

14 A. The second part is to ensure that there's urine drainage
15 from the bladder at the end of the transplant, whether
16 that is by pre-existing urethral catheter or
17 a suprapubic surgically inserted catheter.

18 Q. Yes, and in fact they did insert a suprapubic catheter
19 in Adam for that purpose?

20 A. Yes.

21 Q. So just because you mention it and you can have the
22 record of it, it's page 52, it starts at line 7, and
23 then it culminates in the part where he says:
24 "I would record the reason why ..."
25 That's at line 12:

1 "I would record the reason why if it wasn't
2 inserted."

3 That's what he says.

4 But what I'm seeking to address with you is
5 Dr Keane's evidence, from a surgical point of view, and
6 somebody I'm sure will correct me if I've misrepresented
7 him, was that he didn't think it was necessary.
8 Ultimately, he said he thought it was his decision, but
9 he didn't really think it was necessary. And the
10 reason, not only that, but he actually wanted to allow
11 the bladder to distend with the use of urine and so on
12 and so forth, although he did accept there are other
13 means by which you can achieve that.

14 He then went on to say that if Dr Taylor had asked
15 him for an urethral catheter, then a urethral catheter
16 could have, if Dr Taylor thought it was important, been
17 inserted. And I think his evidence was that Dr Taylor
18 didn't ask him that. Somebody will correct me if I'm
19 wrong. I think that's the tenor of it.

20 So where we are, if one cuts through all of that,
21 is that I think your view is that it was important,
22 although not absolutely mandatory, it was important to
23 have a means of monitoring how much urine, if any, Adam
24 was actually producing through his native kidneys for
25 the purposes of fluid management during the surgery?

1 A. Yes.

2 MR UBEROI: I only rise -- I don't wish to correct any of
3 the characterisation of Dr Keane's evidence. But so far
4 as the proper characterisation of Dr Taylor's evidence
5 goes, he can't remember whether he asked or not, but his
6 evidence was that it would have been his usual practice
7 to do so.

8 MS ANYADIKE-DANES: Sorry. There we are.

9 Anyway, that would be the purpose of it, and
10 I suppose what I'm trying to ask you is how important
11 was it, so far as you're concerned, that that was
12 addressed and recorded one way or another?

13 A. I think it would be important to either have had
14 a catheter inserted and no one would have thought to
15 return to the subject to examine it further, or if not
16 a simple annotation somewhere, either in the case notes
17 or the anaesthetic chart, saying: urinary catheter not
18 inserted because -- for whatever reason.

19 Q. Just so that we have your views on this, if we pick up
20 the discussion of the experts' meeting in Newcastle at
21 307-008-166. I think it starts at line 16 and 20. This
22 is you:

23 "Another issue which I would like to be documented
24 at this point is it would have been helpful if a urinary
25 catheter had been inserted as soon as Adam was

1 anaesthetised to give an index of urine volume that was
2 being produced. If it wasn't done for a good reason,
3 a brief comment in the medical notes should have been
4 made in my opinion."

5 So that is following on with your view that that is
6 something, as I take it, that you believed that the
7 anaesthetist should have inserted because he's the
8 person who's there as Adam is being anaesthetised?

9 A. Not necessarily the anaesthetist, but it should have
10 been --

11 Q. Sorry.

12 A. Whether he inserted it himself or he requested and
13 ensured its placement is his responsibility.

14 Q. I see.

15 A. The surgeon would have been present. He could have been
16 or maybe he was asked by Dr Taylor to insert one.
17 I don't know. But the responsibility is of the
18 anaesthetist to do the best he can for the patient in
19 terms of evaluating fluid balance, which means observing
20 hour by hour the volume of urine lost.

21 Q. One final question and then we leave the issue of
22 urinary catheters. I asked you to express a view as to
23 how significant it was to be able to do that. In
24 fairness, Dr Taylor has also expressed his view, which
25 is on that page 52, which I had referred you to,

1 Mr Chairman, at line 7:

2 "So although the catheter is important [which he's
3 acknowledging] I don't think in my experience since then
4 it would be a show-stopper."

5 And then he goes on in the way that I had indicate.
6 And by that, because that expression has been used
7 before, "show-stopper" means without it I don't think
8 the surgery should proceed. Can you comment on his view
9 there?

10 A. I think that that is a reasonable statement to make.

11 Q. Thank you.

12 THE CHAIRMAN: Okay.

13 MS ANYADIKE-DANES: I'm very, very conscious of the time,
14 Mr Chairman. There is one point I have been directed to
15 in terms of the catheter. Maybe we could leave that
16 until after the break.

17 THE CHAIRMAN: Okay. Could you liaise in the break about
18 how long we can continue for this afternoon and the
19 progress we have to make.

20 MS ANYADIKE-DANES: Yes, of course.

21 (3.41 pm)

22 (A short break)

23 (4.05 pm)

24 THE CHAIRMAN: I understand there's a consensus of
25 5 o'clock, is there?

1 MR MILLAR: The consensus was 4.30. I don't know how it
2 could have been conveyed as 5 o'clock.

3 THE CHAIRMAN: I understood there were different views. The
4 stenographer is available until 5.30. That's later than
5 I would want to go.

6 I'm anxious, Mr Millar, to get Dr Haynes finished by
7 lunchtime tomorrow. We've got Professor Risdon tomorrow
8 morning, who I understand is unlikely to take very long,
9 but it's essential to get Dr Haynes finished because,
10 with all due respect to him, we then have
11 Messrs Forsythe and Rigg to give evidence. If we can
12 get well into them tomorrow, through tomorrow afternoon,
13 it means that they will be finished on Friday.

14 MR MILLAR: I understand all that, sir, it's just that
15 I have clients who are from England I've put back until
16 5.30 in the reasonable expectation that I might be away
17 from here at, say, 4.45, and it just does get very, very
18 difficult. But I appreciate your difficulties.

19 THE CHAIRMAN: Let's see how far we can get by 4.45, okay?

20 MS ANYADIKE-DANES: Right. Thank you.

21 I didn't mean to convey it as a consensus, but
22 anyway I thank you for your views.

23 Can we quickly go to your most recent report,
24 Dr Haynes, which is 204-014-003. I just want to briefly
25 ask you to explain. We have been dealing with urinary

1 catheters from the point of view -- or you have been,
2 from the point of view of monitoring, measuring urine,
3 and so forth. You, I think, at this paragraph 2,
4 insertion of urinary catheter, seem to give
5 a different -- or not seem to, do give a different
6 reason for doing that.

7 Can you just briefly explain the significance of
8 this?

9 A. I presume you're referring to --

10 Q. The insertion of a urinary catheter in relation to an
11 epidural.

12 A. Yes. If epidural anaesthesia or analgesia is used to
13 provide pain relief into the post-operative period,
14 there's an element of uncertainty as to the extent of
15 the areas which will have sensation diminished or lost
16 altogether whilst the effect continues. An epidural
17 placed in the lumbar region would have targeted local
18 anaesthetic drug in the epidural space fairly precisely
19 to cover the site of Adam's surgical incision, which
20 would be innervated by the lower thoracic and upper
21 lumbar dermatomes.

22 However, there is inevitable spread of local
23 anaesthetic, both up and down the epidural space, and
24 it is particularly common for bladder sensation to be
25 either diminished or lost in the post-operative period

1 while an epidural infusion continues. And it is for
2 this reason that when an epidural catheter is utilised
3 to provide post-operative analgesia for either an
4 abdominal operation or a lower limb operation, that the
5 bladder is drained and catheterised.

6 Now, this correlates well with the need to provide
7 urinary drainage after a renal transplant.

8 Q. Yes. Can I just ask you a very quick question about
9 that. If you were inserting a urinary catheter like
10 that to, firstly, monitor the urine production, whatever
11 it may be, during the surgery, and also to provide
12 urinary drainage after the surgery, how long does
13 a catheter remain in for that purpose?

14 A. Post-operatively, there would be two possible reasons to
15 leave a urinary catheter in place. One is the need for
16 ongoing precision regarding hour-to-hour assessment of
17 fluid balance, which would be particularly relevant in
18 terms of looking at the function of a transplanted
19 kidney.

20 Secondly, if it is put in -- if you put the
21 operation of renal transplantation to one side, if
22 a urinary catheter is put in place because somebody has
23 had an abdominal operation for another reason, the
24 urinary catheter would be left in place as long as the
25 epidural analgesic is infused, which would be typically

1 approximately 48 hours following the operation.

2 Q. Would you need that post-operatively if you've already
3 got a suprapubic catheter in?

4 A. No.

5 Q. So in other words, that's a substitute for having the
6 suprapubic catheter, and the reason that you would be
7 advocating a urethral catheter for Adam would actually
8 be because you would want his urine output to be
9 monitored during surgery?

10 A. Correct.

11 Q. Thank you very much. If we then move on, I wonder if
12 we can just very quickly deal with an issue to do with
13 the minimum requirements of, let's call it the
14 anaesthetic team, if I can put it that way. In your
15 report of 204-004-147, you said that the anaesthetic
16 team required for a renal transplant:

17 "Is the same as for any major operation in a child.
18 Two people are required, a consultant anaesthetist and
19 a clearly identified, suitably skilled anaesthetic nurse
20 or ODP at all times."

21 Then I think you say:

22 "The anaesthetic assistant must not have other
23 concurrent duties. A trainee anaesthetist may be
24 present if available but it is not essential. In
25 practice, the anaesthetic nurse may have had suitable

1 in-house training."

2 And we don't need to go on with that.

3 What we're trying to actually identify is what you
4 think is the minimum size of the team and who they need
5 to be, and you will know that there is an issue in this
6 case as to the team that Dr Taylor had. We know he
7 started off with Dr Montague as an anaesthetic assistant
8 up until some point in time. We believe that there was
9 a medical technical officer, there was a scrub nurse,
10 a circulating nurse, and there is an issue as to whether
11 Dr Taylor also had available to him an anaesthetic nurse
12 and a replacement for Dr Montague in the form of an
13 anaesthetic trainee.

14 So if you can just help us, what do you think is the
15 minimum anaesthetic team, if you like, that should have
16 been there for Adam's transplant surgery?

17 A. The minimum absolute requirement is an anaesthetist of
18 suitable experience, and Dr Taylor certainly fulfils
19 that criterion. And the other absolute is there must be
20 a clearly identified assistant to the anaesthetist, not
21 a medical, not an anaesthetic trainee, but someone
22 appointed by the hospital to assist anaesthetists of
23 whatever grade.

24 Q. And could that be an anaesthetic nurse?

25 A. That could be a registered nurse who is employed as an

1 anaesthetic nurse. It could be an operating department
2 practitioner.

3 Q. Let's go back to 1995 when you say --

4 A. Yes, that's why I hesitated.

5 Q. I understand that. When you say an anaesthetic nurse,
6 let's just be careful about that because the evidence
7 we've had is there actually weren't people with that --
8 that was a function rather than a title, if I can put it
9 that way. So you have cast the anaesthetic nurse as
10 somebody who could have had in-house training and been
11 competent even though they hadn't completed either the
12 ENB 182 or a postgraduate course. So does that mean
13 anybody with experience in the operating theatre acting
14 as an assistant to the consultant paediatric
15 anaesthetist could have assisted Dr Taylor, and that
16 would have been sufficient?

17 A. Yes, but that person would have to have been identified
18 and nominated as such.

19 Q. What does that mean?

20 A. That would mean that your surgical nursing team would
21 comprise a minimum of two individuals. There'd be one
22 nurse who would be scrubbed wearing a sterile gown,
23 gloves and assisting with the --

24 Q. Surgeon?

25 A. Yes. And there would be another individual variously

1 called floor nurse, runner.

2 Q. We understand.

3 A. Whose duty it would be to perform the non-sterile tasks
4 while the operation was taking place.

5 Q. Yes.

6 A. And that person is there to assist the surgical team and
7 should have no role in terms of helping the anaesthetic
8 management of the patient.

9 Q. Yes.

10 A. There should be a third non-medical person present
11 in that operating theatre. In perhaps a slightly
12 idealised world that person would have one of the two
13 qualifications mentioned in my report. In a pragmatic
14 world, that person is very often a registered nurse,
15 member of the operating theatre staff, who either is
16 employed purely as an anaesthetic nurse or in some
17 hospitals they work on a rotational basis where one day
18 the same nurse may be a scrub nurse, but --

19 Q. Yes, I --

20 A. -- defined duties, and on the next day may be defined as
21 an anaesthetic nurse who is designated to help the
22 anaesthetist.

23 Q. I understand. Can I put it in this way: if Dr Montague
24 had stayed for the entire duration of the surgery, would
25 Dr Taylor have required his anaesthetic nurse?

1 A. Yes.

2 Q. He still would have?

3 A. Absolutely.

4 Q. Okay.

5 THE CHAIRMAN: But if Dr Montague was there to start and
6 left, then it was safe to continue with Dr Taylor and
7 a nurse who was identified as fulfilling the role of an
8 anaesthetic nurse?

9 A. Yes. Providing that nurse had no other distracting
10 duties.

11 THE CHAIRMAN: Sorry, I don't quite understand. If
12 Dr Montague had stayed and was filling the role of
13 assisting Dr Taylor, why would an anaesthetic nurse
14 still be required? Does that --

15 A. No, there's a very simple answer to that. The
16 anaesthetic assistant will help with preparation of
17 equipment, duties such as collecting blood from the
18 blood transfusion department, administrative duties such
19 as checking the patient into the operating theatre.
20 That anaesthetic assistant will know the infrastructure
21 or the microscopic infrastructure, if you like, of that
22 operating theatre suite, will know where things are
23 kept, will know what is meant when a certain item is
24 asked for.

25 THE CHAIRMAN: Whereas a registrar --

1 A. Whereas the registrar may have arrived yesterday and not
2 know what is kept where, how a hospital works.

3 THE CHAIRMAN: Okay. The evidence is a bit unsatisfactory,
4 but the gist of it seems to be that the nurses say they
5 wouldn't have done this without three nurses. The
6 trouble is there's a missing rota, it's a long time ago,
7 and we cannot say who the third nurse was, but the
8 nursing evidence is that there would have been a third
9 nurse. If there was a third nurse and if she was
10 assigned as the anaesthetic nurse, then her presence
11 with Dr Taylor, even after the departure of Dr Montague,
12 would have been satisfactory?

13 A. Yes, that's correct.

14 THE CHAIRMAN: Thank you.

15 MS ANYADIKE-DANES: Thank you.

16 You have referred to the ODP. I take it that's
17 different from the medical technical officer, which is
18 the MTO, and that was Peter Shaw?

19 A. Yes. I must admit that led to a little bit of confusion
20 when I was preparing my report. The term "medical
21 technical officer", in my understanding, referred to the
22 National Health Service pay scale on which a wide
23 variety of individuals were employed at this point in
24 time. At one end of it, you could have extremely
25 experienced and skilled individuals, and at the other

1 end of it, you could have people with minimal training
2 performing simple tasks.

3 When I prepared my initial report, I have to admit,
4 and I stated in my subsequent report, that I confused
5 the term with physiological measurement technician, who
6 is someone who would have been employed on the MTO
7 scale. That person would have a role in many operating
8 theatre departments in terms of maintaining, preparing,
9 monitoring equipment, helping perhaps with some of the
10 investigative procedures that are carried out in some
11 operating theatres, and I remain a little unsure as to
12 what the precise role of a medical technical officer was
13 in Belfast Children's Hospital.

14 Q. I understand. But you didn't have that kind of person
15 in your experience in England?

16 A. No.

17 Q. Right. That's --

18 A. We have worked in places where there's a physiological
19 measurement technician who was paid on that scale, but
20 it's not a -- I've had some difficulty in disentangling
21 exactly what the medical technical officer's duties
22 were.

23 Q. Understood. I wonder if we can move on to an issue
24 that's related to this question of the anaesthetic team.
25 That's the replacement of Dr Montague by the trainee

1 anaesthetist.

2 Dr Montague's evidence, as you probably know,
3 is that he didn't stay there for the entire operation,
4 he left at some stage, which is not entirely clear,
5 somewhere between maybe 9/9.15, somewhere around then.
6 The evidence is that -- at least coming back from
7 Dr Taylor as to how would you get a replacement.
8 Dr Taylor's evidence is absolutely clear. He would not
9 have allowed Dr Montague to leave unless he was
10 replaced. Now, he want actually remember who he was
11 replaced by but he's quite clear that he wouldn't have
12 allowed him to go unless there was a replacement.

13 In answer to how that would actually work, the
14 replacement, if one goes to the transcript of 20 April,
15 to page 66. The question starts for context at line 4:

16 "If there was going to be an anaesthetist other than
17 Dr Montague, how was that going to be arranged? If Dr
18 Montague is not to go stay for the duration of a
19 four-hour operation, or whatever it was assumed it would
20 be when you initially were speaking to him, what
21 arrangements were made as to who would replace him?

22 "Answer: Well, he would have to talk to one of the
23 other trainees coming on and say to them: I need to go
24 home, Dr Taylor will let me go home if you will come and
25 help."

1 So he agrees that the arrangement for the
2 replacement is something that Dr Montague would have to
3 handle.

4 What I'm inviting you to comment on is, if it's the
5 case that the assistant, for whatever reason, is not
6 able to stay for the length of the surgery, in your
7 experience how is that organised so that there is an
8 adequate replacement?

9 THE CHAIRMAN: Well, curiously, I think, you don't think
10 this is necessary at all?

11 A. I don't think it is necessary. My interpretation is --
12 and again, it is an interpretation --

13 MR UBEROI: Precisely because of your point, sir, we're
14 going into the witness being asked to comment on the
15 arrangement between Dr Taylor and Dr Montague and how it
16 worked with registrars at that hospital, when in fact
17 what he said is it doesn't matter if he was replaced.
18 But that's a slightly different issue. But in terms of
19 asking him to comment on this point, I'm not really sure
20 it's a matter for expert opinion.

21 MS ANYADIKE-DANES: Well, I think in terms of since he's in
22 charge of the anaesthetic team, the anaesthetist, it's
23 an issue as to how he ensures that he has whatever he
24 perceives is necessary. Now, as a matter of evidence,
25 this expert doesn't feel that actually Dr Montague

1 required to be replaced, which is interesting. But
2 clearly, Dr Taylor did think that. So what I'm putting
3 to him is --

4 MR UBEROI: No, if I may say, that's not what Dr Taylor's
5 position is. Dr Taylor's position has been his
6 consistent factual recollection as to whether or not in
7 fact Dr Montague was replaced.

8 MS ANYADIKE-DANES: No, I'm sorry, he gave evidence to say
9 that he would not have allowed Dr Montague to go home
10 unless he was going to be replaced, and we'll find it
11 in the transcript.

12 THE CHAIRMAN: Let me cut through this.

13 MR FORTUNE: The reference is page 65 at line 21.

14 THE CHAIRMAN: Could you put up page 65 alongside 66?

15 Thank you. Yes, thank you:

16 "It's not my practice to allow a trainee or to
17 dismiss a trainee even after a night's on call unless
18 there's a suitable replacement."

19 So in --

20 MS ANYADIKE-DANES: Sorry, sir, he pus it in stronger terms
21 he said:

22 "I would say only when there is a suitable
23 replacement."

24 It goes over the page.

25 THE CHAIRMAN: In a sense, you think this is some curious

1 twist, but you think this is something of a luxury for
2 Dr Taylor to insist on a replacement for the registrar,
3 even if he has an anaesthetic nurse?

4 A. I --

5 THE CHAIRMAN: That doesn't mean it's a bad thing obviously.

6 A. No. I wonder if Dr Taylor's need for a trainee
7 anaesthetist to be present reflects any possible
8 inadequacy of the ancillary support in terms of
9 anaesthetic nursing or operating department
10 practitioner -- [OVERSPEAKING].

11 MR UBEROI: I object to that comment, really. I'm not sure
12 if the witness has had a chance to read all the nursing
13 evidence or is up to speed with it. It's not matters
14 that have been dealt with with him. As earlier, when
15 the comment begins "I wonder", I think that's a wholly
16 inappropriate observation to stay on the record.

17 THE CHAIRMAN: I'm not sure that this issue needs to be
18 developed further than it has been. I'm content with
19 the evidence which I have to date.

20 MR UBEROI: I agree, I'm grateful, sir.

21 MS ANYADIKE-DANES: Then that issue actually goes into the
22 question of the theatre log. And if we could have
23 204-009-366.

24 I should just say, sir, it may well be that how
25 these things are arranged and whether they are best

1 arranged in the interests of the patient may well be
2 an issue that we revisit in governance, but I can see
3 the force of not putting those particular arrangements
4 of which Dr Haynes can have no knowledge to him now.

5 THE CHAIRMAN: We'll see. I'm beginning to get worried
6 about just how many issues are being put back to
7 governance, but we can look at that.

8 MS ANYADIKE-DANES: Yes, I appreciate that.

9 So what you were doing was actually producing
10 a theatre log from the relevant period so one can see
11 how the people in the theatre are identified to the
12 extent that they are. And what you say is:

13 "The name of the anaesthetic nurse is usually but
14 not reliably noted. In the example I've provided, the
15 anaesthetic nurse details often either initials or first
16 name are entered into the column labelled packs or
17 drains. Later logbooks include a column identifying
18 anaesthetic nurse involvement. I would not expect
19 a replacement trainee anaesthetist to be included in the
20 details of the logbook. It would be unusual therefore
21 for the name or for that of an anonymous trainee ..."

22 I think the name in the context was actually
23 Dr Campbell if she had come into the operating theatre:

24 "... or for that of the anonymous trainee to be
25 included in the theatre log for Adam's transplant."

1 Can I ask you just very briefly, what is the purpose
2 of the theatre log in terms of identifying people?

3 What's its purpose?

4 A. The theatre log's purpose is primarily to identify those
5 patients who are operated on, by whom, and by whom they
6 were anaesthetised for purposes such as this, for
7 looking retrospectively at events. It has become
8 helpful and convenient to identify all staff involved or
9 certainly the nursing staff and anaesthetic assistants
10 at the time, again, if a situation needs to be revisited
11 retrospectively.

12 Q. Yes. You started that with "It has become helpful", for
13 1995 purposes was it routine or common practice that
14 those who replaced the first identified individuals had
15 their names recorded as well?

16 A. No.

17 MR FORTUNE: Sir, there must also have been a prospective
18 use for the theatre log to tell people what is expected
19 to happen in any particular theatre on a chosen date and
20 who is to be staffing that particular theatre.

21 THE CHAIRMAN: Do you agree?

22 A. No. There's a little bit of confusion here. The
23 theatre log is a formally a bound ledger which sits
24 usually in the anaesthetic room in a prominent place,
25 which is filled in when the patient is in the operating

1 theatre. Other information is made available in terms
2 of operating lists or schedules for each operating
3 theatre, and separate to that are staffing allocations,
4 be they medical or nursing.

5 THE CHAIRMAN: Right. So the other documents are like
6 rotas? Who's due to be on?

7 A. Yes.

8 THE CHAIRMAN: One of the problems here is that it's
9 precisely the rota which we're missing.

10 A. Yes.

11 THE CHAIRMAN: Which makes it impossible for us to identify
12 who the third nurse was.

13 A. Yes.

14 THE CHAIRMAN: You don't draw a distinction with
15 Mr Fortune's point about the purpose of the theatre log
16 as opposed to the rotas and schedules?

17 A. Yes, they're two separate things.

18 THE CHAIRMAN: Thank you.

19 MS ANYADIKE-DANES: So the theatre log is historical, it's
20 telling you who was operated on by whom, where, what the
21 surgery was and so forth?

22 A. Yes, that is correct.

23 Q. I wonder if we could move to the question of the central
24 line placement. One finds that being dealt with in the
25 evidence on 20 April at page 87. It starts at line 8,

1 really, just to preface it.

2 Dr Taylor is dealing with the two types of central
3 line. This is all an issue, as I'm sure you'll know, as
4 to whether anybody should have appreciated, and indeed
5 whether it was the case, that an internal jugular had
6 been ligated, and then for the implications of that, if
7 that had been appreciated.

8 He goes on to describe two types of central line,
9 one of which retains its patency and another does not.

10 At 10 he says:

11 "The surgical line known as a Broviac line is often
12 a surgically placed line."

13 And he describes how that is dealt with.

14 Then that culminates in line 23 where he says:

15 "So that is -- that vessel is then often lost to
16 future patency, it loses its patency, it's blocked off."

17 Then over the page he says:

18 "But by and large, I would say the Broviac line,
19 when it's placed, causes the vessel to be lost to future
20 use at that point."

21 Then he distinguishes that from an anaesthetic line
22 or the line he says he would put in, a percutaneous
23 line, and he describes that. Then he ends up at line
24 14, saying:

25 "It's not always lost to future use."

1 And then he goes on to discuss the scar that he sees
2 on Adam's neck and says:

3 "If a patient has a scar on their neck and they've
4 had a history of Broviac line there, with a scar,
5 I would assume that at that point that vessel had been
6 ligated, tied off, and really it's unlikely that vessel
7 can be used again."

8 Then I put to him:

9 "Did you identify any of that in your examination of
10 Adam before you started?

11 "Answer: Yes.

12 "Question: Did you believe there were ligated
13 veins?

14 "Answer: That's right, at certain points in his
15 neck."

16 So the point that I wanted to put to you, because
17 I'm not sure that you have commented on it in quite that
18 way in your reports is: is your view as to the two forms
19 of central line placement and their implications for
20 patency -- what is your view of what Dr Taylor has said
21 there.

22 A. The implications for patency depends on various factors.
23 There are, broadly speaking, short-term means of central
24 venous access and longer-term. The longer-term variety,
25 Broviac or a Hickman line, is usually inserted in

1 children surgically by open dissection, visualisation of
2 the vessel, and it differs in that the entry point in
3 the skin is at some distance to where it enters the
4 circulation, thus providing a significant degree of
5 protection against infection or invasion of the
6 bloodstream by skin organisms.

7 This kind of line is inserted when it is known that
8 a patient is going to need long-term venous access.
9 Typically, this would be a patient who is receiving
10 chemotherapy, or Adam had one in place for a significant
11 period of time without incident to allow --

12 MS ANYADIKE-DANES: Can you just pause there, because there
13 has been some comment in the medical notes, and I think
14 some of the statements, as to the length of time that
15 last Broviac line was in Adam, since 1992 to 1995. Does
16 that surprise you?

17 A. No, that is quite a reasonable expectation. He was
18 perhaps luckier than some in that he was able to sustain
19 it without infection for that duration, but I think as
20 a testament to the quality of care that Adam received by
21 all looking after him that it did not become infected.

22 Q. What I'm seeking to ascertain from you is whether you
23 accept the patency consequences of using one in this
24 case, a Broviac line, as opposed to the other, which is
25 the percutaneous line.

1 A. Yes. There are two reasons why the patency of the
2 venous system, draining the head and neck, may be
3 compromised in the face of -- we'll call it a Broviac
4 line. It's a trade name, but it's well used. One is
5 the fact that you have an in-dwelling foreign object in
6 a vein for a period of time, which will cause an
7 abnormal pattern of flow and thus increase the
8 likelihood of thrombus or clot formation in that vein
9 around that line.

10 The other is the manner in which it is inserted.
11 And I've seen from the various pieces of evidence
12 presented to me that there is some discussion as to in
13 which vein Adam had his inserted.

14 Q. Mm-hm.

15 A. The Broviac line may be inserted -- or when a Broviac
16 line is inserted surgically, some surgeons may choose to
17 completely ligate or occlude the vein above the point of
18 insertion into the vein. Others may make a small
19 incision and insert it through that and tie a small
20 suture around it to seal the entry point. And the
21 dispute as far as -- or the uncertainty in Adam's case
22 is to in which vein Adam had this line inserted.

23 Q. But irrespective of the vein, if you do one rather than
24 the other, does that affect the issue of patency or it's
25 just a matter of approach?

1 A. If you insert a long-term tunnelled central venous
2 catheter, a Broviac line, and in the process of doing so
3 you ligate the vein draining into the point of
4 insertion, ie above it, then that vein is no longer
5 patent.

6 Q. If you make the insertion, as you described it, and you
7 put it through that and put in a suture, what's the
8 effect of that on patency?

9 A. Again, you have lost the smoothness of the vessel wall
10 and there's an increased likelihood of thrombus and
11 ultimate scarring of that vein.

12 Q. But --

13 A. In the longer term.

14 Q. But have you lost its use?

15 A. The extent to which it may be blocked or occluded is
16 unpredictable and variable. You may have lost its use.

17 Q. So not necessarily?

18 A. Not necessarily.

19 Q. Is it an important factor to know once you've identified
20 that there has been a central line put in, is it
21 important to know how it was put in so that you can try
22 and ascertain its likely effects?

23 A. Yes. Be it a temporary central line or a tunnelled
24 Broviac-type catheter, regardless of which, they are all
25 going to alter the pattern of blood flow in the vein,

1 and whether it's short term or particularly long term
2 there's an increased likelihood of narrowing or
3 abnormality of venous drainage in those veins, but it's
4 not an absolutely yes or no, there's various shades of
5 grey in between.

6 Q. I understand that. For completeness, as for the
7 percutaneous line, am I right in thinking that doesn't
8 necessarily affect patency?

9 A. It may.

10 Q. Oh, it may.

11 A. It may, because again you're inserting a foreign body,
12 a piece of plastic, into a patient's vein, which is
13 going to alter the pattern of flow of blood within that
14 vein, and in doing so increase the likelihood of
15 thrombus clot formation. Equally, if you are putting it
16 into a patient who is acutely unwell for any reason,
17 who, for example, has a bloodstream infection, that
18 patient's blood may be more likely to clot for a given
19 stimulus than a patient in good health.

20 Q. Thank you. Just one final question on that. Leaving
21 aside the situation where it's completely ligated and,
22 therefore, there's going to be no blood passing through
23 it at all, but in the other two scenarios that you
24 discussed, is a mere fact of having had a line in there
25 at all, once you take it out -- is it possible that the

1 body has responded in some way to that line having been
2 in there, which may affect the pattern of blood flow?

3 A. Yes.

4 Q. Thank you. I wonder if we can just move on to CVP
5 issues. If we can go to the transcript for the 19th and
6 go to page 82. It starts at line 1.

7 Here Dr Taylor is being asked as to what he should
8 have done now that he recognises that the CVP values
9 he was receiving are values that he shouldn't have
10 relied on. I think in fairness to him, he has accepted
11 that he shouldn't rely on them. And the issue is, well,
12 if he had reached that appreciation during the surgery,
13 or rather right at the beginning when he was setting it
14 up, the CVP monitor, then what should he have done.

15 The answer is in this. He says:

16 "This means I shouldn't have relied on that line at
17 all. And I thought about either replacing it in
18 a different site as one of the experts had said, using
19 the femoral veins, for instance, or discussing with the
20 nephrologist and the surgeon the possibility that Adam's
21 transplant should not proceed. In other words, this
22 potentially should have been a show-stopper."

23 Now, just to orientate you, at some point Dr Taylor
24 thought not that he could ever use a CVP measurement as
25 an absolute measure but he could use it for relative

1 change. He has since in his statement realised he
2 couldn't even use for that, it was just thoroughly
3 untrustworthy and he just shouldn't have used it.

4 And what he's really saying is that if he had got to
5 that stage, then he should have discussed it or could
6 have discussed it with a nephrologist and surgeon, and
7 depending on what the outcome of all that was, this
8 issue he regarded as sufficiently serious to constitute
9 what he called a show-stopper.

10 In your view, how serious was the fact that they did
11 not have a value for Adam's CVP?

12 A. I think what is more serious is that the value they had
13 was used -- was over-interpreted.

14 Q. I understand that. If we can put that point to one
15 side, because Dr Taylor is in a different place now.
16 He is saying, "I recognise I shouldn't have done it and
17 if I was there again and realised that, then I'd have
18 those discussions, and potentially it's so serious that
19 it might mean that we couldn't continue if it could not
20 be resolved", if I can put it that way. So I'm asking
21 you to comment on that observation of his.

22 A. I think that is a sensible observation to make.

23 Q. Do you agree with it?

24 A. Largely. It would certainly -- if I can elaborate on
25 that.

1 Q. Yes.

2 A. In my opinion, it should have provoked a discussion with
3 Mr Keane, the surgeon, saying, "I'm having a problem
4 here, what shall we do?" There's already pressure of
5 time and we've got the added pressure -- or Dr Taylor
6 had the added pressure of having difficulty getting
7 a meaningful central venous pressure and the correctly
8 placed central venous line. And at that point,
9 I believe that they were faced with the option of either
10 proceeding with the transplant without a central venous
11 line and no measure of pressure, no means of giving
12 drugs into the central venous compartment, or saying,
13 "This is a problem. We have to resolve it. How are we
14 going to solve it? Bearing in mind it would take
15 probably at least another 30 or 40 minutes to rectify
16 it."

17 Q. When you say rectify, what do you mean by that?

18 A. If you are talking about -- if the suggestion between
19 them at the time or conclusion was that the direction
20 they should follow is to do a surgical cutdown to insert
21 a central venous catheter, by the time the preparations
22 were made for that and it was carried out, that would
23 have taken another 30 minutes or so.

24 Q. Yes. So if that's -- there's another scenario, but if
25 that scenario is facing you, what is your observation on

1 Dr Taylor's comment?

2 A. I think it's a sensible comment.

3 Q. Now, the other thing he went on to say -- and this is
4 where I'm going to take you to now -- is that your
5 suggestion, if I can put it that way, in your report was
6 that you could have at that stage got a sense of where
7 Adam's central venous pressures were by performing what
8 I think he called a femoral cutdown.

9 Now, Dr Taylor has expressed the view that he would
10 be unhappy about doing that. We can find it in,
11 I think, two places. I'm going to see if we start with
12 the transcript from the 19th at page 93.

13 It starts at line 9, but just in fairness, so that
14 we have the context of it, if we go back to 91.
15 Dr Taylor's answer starts at line 7, and he is debating
16 this very point as to what he should have done in those
17 circumstances:

18 "I felt that the CVP in the state it was in and
19 reading the expert opinions should have made me discuss
20 in greater detail."

21 We've had that point. So he says:

22 "And caused me -- lead me to the question whether we
23 should continue. So in terms of donor kidney sitting
24 there, clearly there was -- I failed to, apparently,
25 have a discussion with the nephrologist and the surgeon

1 about whether we should proceed with the transplant at
2 all and went on because the donor kidney was -- well,
3 because of the cold ischaemic time."

4 Then he goes on at page 92. I say:

5 "What I'm going to ask you is: if you had taken that
6 option ..."

7 And that option is the femoral cutdown that I just
8 put to you, and this is me posing the question at line
9 14:

10 "... which you acknowledged yourself you could have
11 done, what would you have considered to have been the
12 delaying factor in doing that?

13 "Answer: Well, I have experience of doing femoral
14 central venous lines and they don't necessarily have to
15 be cut downs."

16 Then he goes on, and this is where I was really
17 starting with his point that I want you to address,
18 line 21:

19 "I understand that this was an option raised by one
20 of the experts, but I personally would not feel
21 a femoral line would give me a true reading of a central
22 venous pressure in a patient who's receiving abdominal
23 surgery because the tip of the femoral line will lie in
24 the iliac or inferior vena cava vessels and that could
25 be subject to some pressure by the intraabdominal

1 contents, particularly in this case with a large adult
2 kidney being placed ..."

3 Well, there is an issue, you know, as to whether
4 it's an adult or adolescent, but in any event:

5 "... with a large adult kidney being placed around
6 the area of an inferior vena cava."

7 Then he goes on to say:

8 "I don't know what the views of my colleagues would
9 you be, but my view at the time [that's 1995] and now
10 is that a femoral line, femoral access line -- and
11 I know this is probably the first time this has been
12 raised with the inquiry, but to me a femoral line would
13 not have provided a reliable central venous pressure in
14 a renal transplantation child."

15 Now, that's really the point that I want you to
16 address. Do you accept that, and if you don't accept
17 that, why not?

18 A. I agree broadly with all that he's said. But it would
19 have been a preferable option -- it -- what Dr Taylor is
20 elaborating on is that if the venous catheter is
21 inserted into the femoral vein, its tip, where the
22 pressure is being measured, is in the veins within the
23 abdominal cavity. And during any abdominal operation,
24 the pressure is going to vary, depending on what's been
25 done on the pathology, and it is not going to be as

1 reliable an indicator of the filling pressure over the
2 right atrium, which is what central venous pressure
3 ultimately aims to measure, is. So it is not going to
4 be as accurate as one placed with the tip more or less
5 in the right atrium as --

6 Q. Is it, nonetheless, useful to have if that's all you've
7 got?

8 A. It would be far preferable -- in my opinion, it was
9 a far preferable option to have pursued, rather than the
10 line which he quite correctly identified as giving an
11 unusual reading in a very unusual position.

12 Q. Ah, now that's a different position.

13 THE CHAIRMAN: As I understand it, you say that if there was
14 a femoral cut down he would have got a sense of Adam's
15 CVP. His concern is how reliable would that sense have
16 been. You say, "I understand that up to a point, but it
17 was better than what he continued to do instead"?

18 A. It was much better than what he continued to use
19 instead.

20 MS ANYADIKE-DANES: Is the deficiencies in that such that
21 the real option is just not to proceed?

22 A. There's these two options. If you were to ask me what
23 would I have done either in 1995 or in 2012 --

24 Q. Let's do 1995.

25 A. I would have proceeded with a femoral venous line.

1 Q. I see.

2 A. And I'd have said "This is the situation, please
3 interpret these figures with some caution. I will do
4 the best I can to utilise them to the best of my
5 abilities".

6 Q. Before you did that, would you have a discussion with
7 the surgeon and seek his input into that decision?

8 A. For this particular operation, very much so. The reason
9 being that I have already talked at some length about
10 a foreign body in the venous system promoting abnormal
11 flow and an increased tendency for blood to clot around
12 the tip of the plastic catheter. If you insert
13 a catheter into a femoral vein, its tip will lie in the
14 iliac vein. If you're going to do that, you have to, at
15 a minimum, ensure that it is not on the same side that
16 the transplanted kidney is going to be inserted because
17 there will -- or because transplanted kidneys -- and
18 a transplant surgeon will give you a better exposé of
19 this than I can, but one of the reasons why
20 a transplanted kidney may fail is because of failure
21 either of venous drainage or failure of arterial blood
22 supply. If you place the tip of a plastic catheter in
23 proximity to the same system as your transplanted
24 kidney, you are adding a risk factor to the procedure.

25 Q. Thank you. One final point I'd like to ask you about,

1 but not on that. I'm afraid I don't have the reference
2 number for this, but I think everybody has received it,
3 which is an article called "how to guides" and it deals
4 with blood gas analysis.

5 THE CHAIRMAN: It's given out this morning, I think,
6 306-037-001.

7 MS ANYADIKE-DANES: Thank you very much indeed, Mr Chairman.
8 I have a copy but I didn't have one with pagination.
9 Thank you.

10 Now, Dr Haynes, you've seen that, have you?

11 A. Yes.

12 Q. And you've also seen, just so that we have it, a witness
13 statement by David Wheeler, who's the critical care and
14 clinical chemistry business manager of Instrumentation
15 Laboratories, who provided or who manufacture the blood
16 gas machine. His statement is to be found at -- at
17 least the substantive part of it is 180/1, and the
18 relevant bit is page 3. If we have that bit first. Can
19 we call that up? Yes. If we just go to the top there:

20 "The likely effect of sodium heparin on the results
21 produced by the machine in 1995 for serum sodium levels
22 --

23 The machine we're talking about is the blood gas
24 analyser that was used to produce the serum sodium level
25 of 123 millimoles at 9.32 in Adam's surgery.

1 The answer is given below that, but if we just look
2 at the conclusion of it, which is (ii):

3 "IL [Instrumentation Laboratories] does not
4 recommend the use of sodium heparin as an anticoagulant
5 because doing so will increase sodium levels measured by
6 1 to 3 millimoles even in the presence of the correct
7 proportion of heparin and blood."

8 So in other words, one way of interpreting that is
9 that the level that you've got, the true serum sodium
10 level, might be taken, if one looks at it from that
11 point of view, as actually being lower than the value
12 you're receiving. That's one way of looking at it. In
13 other words, 123, the true value of that could actually
14 have been slightly lower than 123.

15 Then if one sees the article that has been provided,
16 the blood gas analysis, and this is an article that, so
17 far as I understand it, goes back to -- we can see it:

18 "Care of the Critically Ill. 1995."

19 I'm not entirely clear, this may also be
20 a manufacturer's piece, so we've got one manufacturer
21 giving evidence on another manufacturer's piece, I don't
22 know.

23 MR UBEROI: [Inaudible: no microphone]

24 THE CHAIRMAN: Sorry, I didn't catch that. What did you
25 say?

1 MR UBEROI: It was a bi-monthly journal.

2 MS ANYADIKE-DANES: Then if one looks under "anticoagulant"
3 and the effect -- you've had an opportunity to read
4 this, I take it?

5 A. Yes.

6 Q. It's indicated there just by the brackets. So what it's
7 really saying is that if you look at plasma as opposed
8 to the whole blood, if I can put it that way:

9 "Constituents which can easily pass into the red
10 blood cells such as carbon dioxide will be reduced by
11 about 5 per cent. However, since the dilution of the
12 plasma component will be about 9 per cent, plasma
13 constituents which do not enter red blood cells easily
14 will be more profoundly affected. Thus a normal plasma
15 sodium result of 140 millimoles will be reduced to 128
16 millimoles."

17 In other words, this article is positing the reverse
18 consequence. So if you have used the sodium heparin as
19 a way of flushing through your line, the effect of doing
20 that may be, when you receive your value, in fact it may
21 be showing you incorrectly too low a value. Quite the
22 reverse to what David Wheeler said.

23 Can you comment at all on the effect of the use of
24 sodium heparin in these lines and their effect on the
25 serum sodium values?

1 MR UBEROI: Just for completeness, so the witness's answer
2 is in full context, that Dr Taylor has accepted he
3 should have reacted to the result he got at 9.32. This
4 really is a question of whether it raises or lowers.

5 MS ANYADIKE-DANES: I apologise, I should have said that.
6 He has said that on a number of occasions in his
7 statement and during evidence, that he should have
8 responded to that.

9 A. Okay. Can I also refer the inquiry to a document I gave
10 as a reference, which begins at 204-004-230?

11 Q. Yes.

12 A. It really runs along very similar lines, but it's
13 slightly more extensive, and this is a manufacturer's
14 document. I think it's very important that before we go
15 on to the blood gas -- or the measurement, the
16 biochemical measurement at 9.32 that morning, that I can
17 share with you my knowledge of how to interpret
18 electrolyte measurements using a blood gas machine in
19 circumstances such as we're examining. So please
20 forgive me if I go on at some length.

21 The very first thing to say is that electrolytes are
22 measured by a blood gas machine or point of care testing
23 because, as time has gone by, they've become capable of
24 measuring it more and more -- they are not as accurate
25 as a serum level measured in a biochemistry laboratory.

1 The advantage is that in point of care testing, you will
2 receive an answer very quickly, within 2, 3, 5 minutes.

3 A laboratory specimen, by the time it is transported
4 there, analysed and reported back, a minimum of 20 or 30
5 minutes, more likely 40 minutes to 1 hour. And that
6 would be the same pretty much throughout any hospital in
7 Europe, I think. So the advantage of point of care
8 testing is immediacy of answer, first of all.

9 The second caveat of point of care testing is you're
10 not actually measuring the same thing as you are when
11 you measure serum sodium in the biochemistry laboratory.
12 The machine, because it doesn't take the time to
13 separate the cellular and plasma components, measures
14 sodium concentration in whole blood. And because of the
15 differing proportions in differing individuals because
16 of the relative proportion of the cellular components to
17 the fluid components of blood, this will have a slightly
18 variable effect.

19 I would like to bring something to the inquiry,
20 which I haven't done to date, which is a result of
21 something that has resulted of my curiosity being
22 aroused by the whole process, if I may, chairman.
23 Because this discussion has gone on over the last
24 several months, I undertook in the trust where I work,
25 in working with the point of care testing supervisor,

1 coordinator for the laboratory services, to examine this
2 very question. And to provide the answer concisely, we
3 looked at samples of blood that had been taken from
4 children, and the same sample had been divided into two,
5 for perfectly valid clinical reasons.

6 Part of the sample was sent to the laboratory for
7 formal biochemistry testing and the other part was
8 sent -- sorry, for serum electrolyte assay. The other
9 part was used to obtain the blood gases and other values
10 made available by the point of care testing equipment
11 in the intensive care unit. We looked at 100 samples
12 treated as such and the average difference between the
13 two was just under 4 millimoles per litre.

14 Q. Sorry, differences between the two groups?

15 A. Yes, the same sample looked at in different ways. The
16 point of care approach gave an average of -- I can't
17 remember the exact figure, but it was just under 4
18 difference. So the -- if a measurement --

19 Q. Higher or lower?

20 A. Lower. So say the measurement on the unit was 120, the
21 average difference would be 124 with the same sample
22 measured using serum in the lab, so there is
23 a difference. However, I would then wish to identify
24 the benefit of immediate point of care testing when it
25 comes to identifying a potentially dangerous trend. And

1 perhaps the easiest way to summarise the utility of this
2 is to look at two things: one is the blood gas or the
3 point of care testing result obtained by Dr Taylor on
4 27 November, which is 058-003-003. We'll see that the
5 sodium concentration there is 123 millimoles per litre.

6 Q. Yes.

7 A. Okay? If we then move to -- bring up page 057 --

8 Q. Would you like that alongside?

9 A. Please. 057-007-008.

10 Q. Can you increase that a little bit?

11 A. Yeah, blow that up a little bit.

12 Q. I don't think it's going to work. Maybe we'll show them
13 one after the other. Perhaps we can --

14 A. So that was a sample --

15 Q. There we are.

16 A. So the 123 was obtained at 9.30 in the morning. Now,
17 that is a low value by any index, whether it's 123 or
18 whether it's 127 or even 130. It is different from the
19 value obtained the previous night. And although Adam's
20 electrolyte concentration wasn't measured that morning,
21 it's significantly lower than the level that one would
22 have expected it to have been.

23 Q. Yes.

24 A. So I put it to you that the use of the point of care
25 testing in 1995 would have alerted those present to the

1 fact that something wasn't right, it needed attention.

2 Q. Mm-hm.

3 A. And so if we then look at the second reference, which
4 you've kindly brought up, this is a tabulation of
5 laboratory results from Adam when he was in the
6 intensive care unit following his surgery. And
7 if we look at the second one down, which is 27 November
8 at 1 pm.

9 Q. Yes.

10 A. Which would have been between one and two hours after he
11 completed his surgery. If we look at the third value
12 down, that says 119, I think.

13 Q. Yes, it does.

14 A. So that really highlights the fact that the sodium was
15 low. Quite how low one can assign a margin of error,
16 but when the subsequent sample at 1 pm was taken and
17 Adam returned to the intensive care unit, it was beyond
18 doubt very low. So I think that illustrates very well
19 the utility of point of care assay for giving you a
20 rapid indication that all may not be well and that you
21 need to take further corrective and investigative
22 action.

23 Q. Can I ask just one question about that because you have
24 said that even when you did your own study, you did it
25 in-house, so there was a range which you have said

1 averaged out at 4 millimoles. Can you use it for
2 trends? So could you do fairly regular point of care
3 just to see where you were going?

4 A. Yes.

5 Q. While you were waiting, if I can put it that way, for
6 your laboratory result to take its 40 minutes to one
7 hour?

8 A. Yes.

9 Q. Is it useful for that purpose?

10 A. Yes.

11 Q. And if it shows a trend in almost any direction, is that
12 a trend that you would put any reliance on?

13 A. Yes, very much so.

14 THE CHAIRMAN: Because it alerts you to whether there is
15 anything potentially adverse to which you need to react?

16 A. Yes. If you have a low sodium assay, as in the case in
17 this here, it would make the anaesthetist -- would make
18 me want to say, first of all, "Is this real?" And
19 it would only take another five minutes to get a similar
20 sample. And then the second thing to do is to accept
21 that it is real, that it is significantly different from
22 the measure a fairly short time previously, and
23 institute some therapeutic action.

24 THE CHAIRMAN: Okay. Thank you very much.

25 MS ANYADIKE-DANES: Mr Chairman, I have reached --

1 five minutes longer than I wanted to be and I apologise
2 for that, but I've reached roughly where I wanted to be.
3 Perhaps it might assist if I indicated the issues that
4 I would to take up tomorrow.

5 THE CHAIRMAN: Please do.

6 MS ANYADIKE-DANES: I would like Dr Haynes to address the
7 issue of atracurium; the lightening of anaesthesia; the
8 diagnosis of brainstem death; the time of brainstem
9 death; and one issue that somebody specifically wanted
10 me to address, and I haven't, so I might carry that
11 over, which is to do with blood loss, but it's a fairly
12 net point in relation to that. Then I might ask
13 Dr Haynes for an overview, once we have all his evidence
14 on those points, as to his position. Sir, although they
15 are significant issues, they're fairly well
16 circumscribed and they're all dealing with a very
17 similar area.

18 THE CHAIRMAN: That's very helpful because, if I may say so,
19 while Dr Haynes' evidence is important, I think it's
20 somewhat less controversial in light of the new line
21 taken by Dr Taylor the week before last. There is more
22 controversy, I think, potentially at least, about the
23 evidence of Messrs Forsythe and Rigg. The end result of
24 this will be that you know that we have Professor Risdon
25 by video link tomorrow morning. That line will be up

1 and checked from about 9.30, so the target is to start
2 with Professor Risdon at about 9.45 after we confirm
3 that the link is working. We'll do him. That should
4 certainly not take all of the morning. And in light of
5 what you've just said, Ms Anyadike-Danes, we should
6 fairly comfortably be able to finish Dr Haynes by
7 lunchtime tomorrow.

8 MS ANYADIKE-DANES: I would certainly hope to.

9 THE CHAIRMAN: I'd like to get well into the evidence of
10 Mr Forsythe and Mr Rigg. How will they give evidence?
11 Are they going to sit on each other's knee or something?

12 MS ANYADIKE-DANES: I hope that's not being recorded!

13 They're going to give evidence together with no
14 particular style being prescribed in the witness box.

15 THE CHAIRMAN: Is everyone content? They don't need to be
16 called consecutively. Are you content for them to be
17 called together?

18 MS ANYADIKE-DANES: I can help a little about that.

19 Mr Forsythe's practice was very much concerned with
20 paediatric renal transplants before and at the time of
21 Adam's transplant. Mr Rigg has continued to do those
22 and continues to do them to this day, whereas
23 Mr Forsythe has gone off -- his career path has gone
24 slightly differently. But the reason for having him is
25 because of the extent of his knowledge before and around

1 the time of Adam and we wanted to ensure that there was
2 somebody who was still carrying out to some degree
3 paediatric renal transplants now, in case, sir, it would
4 be helpful for you to have some contrast between the
5 1995 position and now. That's why they've produced
6 a joint report.

7 THE CHAIRMAN: So Mr Forsythe speaks primarily to what would
8 have been going on.

9 MS ANYADIKE-DANES: Yes.

10 THE CHAIRMAN: Or what he says should have been going on in
11 1995.

12 MS ANYADIKE-DANES: Yes. It may be that Mr Rigg can do the
13 same, but primarily it'll be Mr Forsythe for that
14 period.

15 THE CHAIRMAN: Okay.

16 Dr Haynes, thank you for today. We'll break until
17 about 9.45 tomorrow morning.

18 MS ANYADIKE-DANES: Mr Chairman, can I just ask that --
19 I recognise that everybody got the most recent
20 documents, Dr Haynes' report, very late, and also
21 Dr Taylor's statement. If there is anything that
22 anybody wants me to add or a particular way they want me
23 to look at those issues that I'm going to deal with, if
24 they could communicate with me and we'll try and do that
25 in a coordinated way.

1 THE CHAIRMAN: Yes. Thank you very much.

2 (5.10 pm)

3 (The hearing adjourned until 9.45 am the following day)

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I N D E X

DR SIMON ROBERT HAYNES (called)1
 Questions from MS ANYADIKE-DANES1

