

1 Wednesday, 18 April 2012

2 (10.00 am)

3 (Delay in proceedings)

4 (10.12 am)

5 THE CHAIRMAN: Good morning.

6 PROFESSOR MAURICE SAVAGE (continued)

7 Questions from MS ANYADIKE-DANES (continued)

8 MS ANYADIKE-DANES: Good morning. Professor Savage, I'm

9 going to carry on roughly in chronological order, but

10 there were some issues that I have been asked to clarify

11 with you from yesterday, so I hope you'll forgive me if

12 I go back to some things that you think you have perhaps

13 answered a number of times.

14 The first one of those I would like to do relates to

15 something that you had said in relation to monitoring.

16 When I was taking you through about the importance of

17 monitoring a child like Adam in the immediate

18 pre-surgical period, going into his surgery and the

19 importance of monitoring and on the ward, his various

20 tests and results and so forth, I think you had said

21 that it was important to monitor a child like Adam very

22 carefully and I think you said that, in any paediatric

23 unit, the nurses are carefully monitoring, for example,

24 how much children are vomiting and if they are passing

25 urine, even if they're not necessarily weighing the

1 nappies and actually calculating it, but they are
2 nonetheless monitoring it. I just wanted to clarify
3 that I had not misunderstood; is that your position?

4 A. Yes.

5 Q. Thank you very much.

6 Then we are in this stage of still the management of
7 Adam from the time of the offer of the donor kidney to
8 surgery and there are a number of aspects there that
9 people just wanted to make sure that I clarified with
10 you.

11 First is that in your witness statement. 002/3,
12 page 5 -- can we bring that up? It's the answer to
13 2(a)(ii). It says in relation to the plan:

14 "The plan was formulated by myself in consultation
15 with the transplant surgeon on call and the consultant
16 anaesthetist on call."

17 So that's you with Mr Keane and Dr Taylor. The
18 first is: what exactly was the plan at that stage?

19 A. I don't know what stage this refers to. I don't have
20 the whole --

21 Q. Well, let's say the first time you were discussing how
22 the surgery would proceed, how Adam would be prepared
23 for it. So in those discussions on the evening of
24 26 November that you say you had with them on the
25 telephone.

1 A. Yes.

2 Q. It's your reference to a plan being formulated. So all
3 I'm trying to ask is what the plan was.

4 A. Yes. Well, when I say I wasn't quite sure when you
5 meant, obviously when Adam first was called to the
6 hospital and we decided that we would go ahead with the
7 transplant, if the cross-match was satisfactory, the
8 plan at that stage would have been that he went to
9 theatre as soon as that result was available, which
10 would have been early in the morning of the 27th. So
11 the plan at that time would have been to have him on
12 maintenance fluid and on a short period of peritoneal
13 dialysis. Obviously, that plan then changed
14 subsequently when the time of the transplant was
15 transferred to the following morning. And then the plan
16 was that he would have clear gastrostomy tube feeds
17 overnight until two hours prior to his surgical start
18 time, during which time the plan was, again, he would
19 have maintenance IV fluids at 75 ml per hour. But
20 of course, the venous access was lost --

21 Q. That's what I was going to ask you. Was there a sort of
22 mini change to that plan when that venous access was
23 lost? I think it was sometime around 1am or so in the
24 early hours of the morning. Was there a bit of revision
25 to that plan?

1 A. If you remember, he was planned to have 180 ml per hour
2 of gastrostomy feeds and because the IV access had been
3 lost, that was increased to 200 ml per hour.

4 Q. Were you involved in that revision of the plan?

5 A. I can't remember, but I seem to recollect that there was
6 a discussion between the anaesthetic registrar and
7 Dr Taylor. But I could have been, I don't remember
8 clearly.

9 Q. Would you expect to be informed of something like that?

10 A. Yes.

11 Q. Thank you.

12 A. I think if it happened at 1.30, if --

13 Q. You were still in the hospital at that stage?

14 A. I was still in the hospital, so I probably would have
15 been involved. It may be that that other phone call was
16 earlier in the morning when it was apparent that there
17 would be no access immediately prior to theatre. These
18 things are a bit hazy, obviously, after this time.

19 Q. I interrupted you. There would have been that mini
20 revision, then the next substantive change was really to
21 accommodate the fact that he's actually -- he was then
22 planned to have his surgery at 6. Ultimately, that was
23 put back for his surgery at 7. Were you involved in any
24 discussion as to his surgery being put back to 7?

25 A. It's not clear to me after this length of time why 6 or

1 7 was chosen, but I assume it was to do with the
2 arrangements internally in the theatre as to when the
3 best time to start was. I don't know.

4 Q. And I think you said yesterday, in fairness, that you
5 don't actually know when that happened.

6 A. No.

7 Q. So far as you're concerned, you're still in charge of
8 Adam, if I can put it that way, up until he's actually
9 delivered for his anaesthesia. Did the fact that this
10 went from 6 to 7 -- which I presume you would have been
11 told about at some stage -- did it make any difference
12 to anything you were doing for him?

13 A. Not really. As I said yesterday, the plan was he would
14 discontinue his gastrostomy feeds two hours prior to
15 surgery, so if it was at 7 o'clock, that would have been
16 at 5 o'clock; if it was 6 o'clock, it would have been
17 4 o'clock. But it obviously was decided to be 7 --

18 Q. Before you discontinued it for the 6 o'clock.

19 A. Yes.

20 Q. I understand.

21 Then another point that you had covered, which is to
22 do with who was involved in the decision to accept the
23 kidney when UK Transplant, if I may call them that,
24 contacted you -- because you're the person named on the
25 form -- to say that they had a potential kidney for Adam

1 and your view was that you thought that -- you discussed
2 that with Mr Keane, the surgeon, and that that was
3 a joint view and that would be your way of doing things,
4 and Mr Keane's view is he wasn't involved at that stage;
5 he was involved later on. But if I can just pick up
6 some points with you.

7 In fact, Mr Keane's view comes, just so we are clear
8 about it, in his witness statement, 006/3. I am not
9 going to go to that because we went to it yesterday.
10 What I wanted to ask you is: leaving aside what Mr Keane
11 feels, you are quite clear in your mind that the surgeon
12 had a role at that stage because it was -- and what I'm
13 trying to discover from you is: what are the sorts of
14 things that you felt you needed to find out from
15 UK Transplant so that you could convey that to the
16 surgeon and the surgeon could assist in the
17 decision-making as to whether or not you would accept
18 that kidney?

19 A. Well --

20 Q. We know you don't have the form, so what is it that
21 you're trying to find out?

22 A. I was going to say that you had the form yesterday and
23 the information that's on that form is exactly what they
24 read out to you over the phone.

25 Q. Okay.

1 A. As you know, the tissue match, the anatomy of the
2 kidney, when it was obtained and what the nature of the
3 diagnosis of the donor was or the key sorts of
4 information that you're interested in.

5 Q. If you're going to discuss that with the surgeon, do you
6 not also want to know any sort of anatomical details?

7 A. Sorry, have I left that out? Yes.

8 Q. So all that about how many arteries there were or
9 anything like that, you'd be wanting to know that? Not
10 necessarily because it makes any difference to you, but
11 you want to convey that to the surgeon so that the
12 surgeon can make an informed decision with you.

13 A. Mm-hm.

14 Q. Isn't that correct?

15 A. Correct.

16 Q. So that's what you'd be trying to get?

17 A. Yes.

18 Q. And I know it's at some very great remove now, but so
19 far as you're concerned, is that what you did on that
20 evening, sought to get the information that would be on
21 the phone?

22 A. Yes, that's what my usual practice was. I thought about
23 what Mr Keane has said and it's possible that I accepted
24 the kidney and then spoke to him and, if he had no
25 objection, that went ahead. Obviously, if he had had an

1 objection I would have gone back and said, "Sorry, we're
2 not taking the kidney". You remember I said yesterday
3 that usually what I did was provisionally accept the
4 kidney, check that we had the facility to carry out the
5 transplant and that everyone involved was happy with
6 that. And then go to the parents and confirm at that
7 point with UK Transplant all systems go.

8 Q. Yes. Except Mr Keane says he actually wasn't involved
9 in a discussion with you about the kidney until after
10 the tissue match. If that's the case, then the kidney's
11 already in Belfast.

12 A. Yes.

13 Q. So --

14 MR MILLAR: Can I say that Mr Keane does not take any issue
15 at all with what Professor Savage is saying in this
16 particular issue. There was a discussion yesterday
17 about what "not involved" meant in terms of the process.
18 There's no issue about this.

19 THE CHAIRMAN: So the professor's evidence yesterday was
20 that, in effect, before he takes a provisional booking
21 of the kidney, he then speaks to Mr Keane, he then
22 speaks to the mother and, only after that is done and
23 he's confirmed the theatre and the anaesthetist and so
24 on, only after that is done, do you go back and confirm
25 the kidney is accepted and then it's put on the plane.

1 A. That's my memory of what happened. It may not be
2 totally accurate, but that would be the type of sequence
3 of events.

4 THE CHAIRMAN: Does Mr Keane accept now, just to avoid any
5 ambiguity, that before the kidney was put on the plane,
6 he had spoken to Professor Savage and they had discussed
7 whatever necessary detail there was?

8 MR MILLAR: Yes.

9 THE CHAIRMAN: Thank you very much, that's helpful.

10 MS ANYADIKE-DANES: That is helpful. Thank you very much
11 indeed.

12 A. It's helpful to me as well.

13 Q. The other slightly revisionist point relates to the
14 X-ray. We had gone through the medical notes and
15 records where you're doing your checklist, if I can call
16 it that, and you're ticking off the things that relate
17 to the protocol.

18 MR FORTUNE: Sir, I hesitate to rise, but how much
19 revisiting of matters raised yesterday are we to have,
20 bearing in mind the pressure of time and the need to get
21 on with the evidence?

22 THE CHAIRMAN: Well, I understand, Mr Fortune, that what --
23 I gather from the last recapping is that she's raising
24 issues which have been raised with her by other counsel
25 overnight; is that correct?

1 MS ANYADIKE-DANES: Yes.

2 THE CHAIRMAN: If this can be done easily through
3 Ms Anyadike-Danes as inquiry counsel, then it's better
4 for these points to be tidied up now in light of
5 representations which have been made to her to clarify
6 these matters. I understand it's only going to take
7 a few minutes. The slower way to do it, of course, is
8 for a whole lot of consecutive barristers to stand up
9 and cover these points. If it can be done more
10 logically and quickly by Ms Anyadike-Danes, then so it
11 should be done, and that is the purpose of
12 communications between other counsel and inquiry
13 counsel. I accept entirely there's a pressure of time,
14 but this seems to me to be a fairly speedy way to go
15 through things.

16 MS ANYADIKE-DANES: Thank you very much, Mr Chairman. It is
17 not going to take very long.

18 Sorry, you had gone through that checklist and you
19 had ticked the X-ray bit and "all X-rays"?

20 A. Yes.

21 Q. I think what you were saying is that what you were
22 really doing was you were looking at your protocol and
23 making sure that all those things that the protocol
24 required to have happened were actually done. I had put
25 to you the fact that there's a bit of an issue

1 in relation to that because DLS seems to have
2 a different view as to whether an X-ray was actually
3 ever taken and, at that stage, I wasn't able to put to
4 you the correspondence that relates to that so that you
5 could see what they had said and you could comment on
6 it. And I know --

7 A. I know what they have said.

8 Q. If I just call it up quickly. It's 301-118-650.

9 I think it's the first paragraph, Professor Savage. It
10 says:

11 "A form to request a pre-treatment chest X-ray was
12 completed by Dr O'Neill on 26 November. It is filed in
13 the patient's record."

14 No issue about that:

15 "Its presence in the medical records and the fact
16 that the reverse of the form has not been completed by
17 a radiographer indicates it was not submitted to
18 Radiology and that therefore no X-ray was performed.
19 There is no Kv and mas or radiographer's initials
20 written on the back of the form and, under the Ionising
21 Radiation Regulations, an examination would not have
22 been performed without an appropriately completed
23 request form, which would have been retained by the
24 department. I am instructed that the trust can find no
25 record of Dr Savage requesting a chest X-ray prior to

1 transplant."

2 One of the things that you did say is it is
3 sometimes the case that a request is sent and, at some
4 period of remove, one doesn't find the X-ray, and
5 I think you indicated that some X-rays and some other
6 documents in relation to Adam's medical notes and
7 records had popped up considerably after his case. And
8 so I think that is fine. I think the issue is
9 the suggestion is there was something in relation to the
10 completion of the form which somehow indicates that it
11 wouldn't have generated an X-ray. Have you any comment
12 to make on what is being said in that first paragraph to
13 assist?

14 A. As I keep saying, I hesitate to speculate about these
15 things. But if you take the situation at midnight or 1
16 in the morning, an SHO fills in a form requesting
17 a chest X-ray, he phones the radiographer, who's on call
18 and possibly doing things in the Accident & Emergency
19 department. She then takes a X-ray or he takes a X-ray,
20 and the correct procedure is laid down here. But this
21 is the middle of the night, so I think the contention
22 from the trust is that because no one signed the back of
23 the form, et cetera, et cetera, it wasn't carried out.
24 I don't know that you can argue that. It could well
25 have been carried out. I don't know. I expected that

1 it was carried out.

2 Q. Yes.

3 A. And my feeling was that it was carried out. But

4 I couldn't prove that. Neither could they prove it was

5 not carried out.

6 Q. And I wonder if I could put it this way: in your

7 considerable experience at the paediatric renal

8 transplant providing the paediatric renal transplant

9 services, is it sometimes the case that these forms

10 aren't always completely filled?

11 A. It might be filled in the next day and, of course, the

12 next day was a pretty unusual day.

13 Q. Yes. Thank you very much indeed.

14 THE CHAIRMAN: Just before you move from that, the last

15 sentence is that there's no record of you requesting

16 a chest X-ray.

17 A. It's not true. There is a request form that we have.

18 I didn't request it; it was the SHO.

19 THE CHAIRMAN: So if Dr O'Neill requested it, that is in

20 effect you requesting it, isn't it?

21 A. Yes.

22 THE CHAIRMAN: So it would be ridiculous for Dr O'Neill to

23 request a chest X-ray and for you also to request

24 a chest X-ray because you're duplicating?

25 A. Yes, you would end up with two.

1 THE CHAIRMAN: Thank you.

2 MS ANYADIKE-DANES: Is it not the case that your SHO
3 requesting it is the equivalent of the consultant
4 requesting it?

5 A. Yes.

6 Q. Thank you. Then I wonder if we can move to the issue of
7 cold ischaemic time. We looked at the transplant form,
8 which showed when the time would have started to run, if
9 I can put it that way, Professor Savage. Do you happen
10 to know why it took from 1.42 in the morning of
11 26 November until whenever it was in the early evening,
12 I think you thought it was, that you were being
13 contacted? Do you know what caused that delay?

14 A. I don't know. I had suggested that the UK Transplant
15 Service could tell you that.

16 Q. Well, okay.

17 A. I suspect it had gone to another centre. There was an
18 unsatisfactory cross-match and it was then offered to
19 us.

20 Q. Thank you.

21 A. That would be the normal reason for that length of
22 delay.

23 Q. Thank you. Something I wonder if we might tidy up: can
24 we look at your PSNI statement of 093-006-016? (Pause).
25 Let's try again with an alternative reference. One

1 more time and then I'll just tell you what it says.
2 093-006-014. Let's try that.

3 THE CHAIRMAN: That was the one that came up the first time
4 or didn't come up first time. (Pause).

5 MS ANYADIKE-DANES: Now that you've got that up, could you
6 please try and move it on to 016? Thank you.

7 I think it's the second last line, Professor Savage.
8 This is you explaining the number of hours after the
9 kidney had been donated.

10 A. Yes.

11 Q. It's the second last line where we see it was 16 hours
12 after the kidney had been donated.

13 A. It's incorrect.

14 Q. And that's, at that time, what you thought was the cold
15 ischaemic time, I think. And I think you have
16 subsequently said that that's incorrect. Can I ask you
17 to clarify it in this way for us, Professor Savage? Was
18 it incorrect and you were under a misunderstanding when
19 you made the statement or were you under
20 a misunderstanding when you initially received the
21 information from UK Transplant?

22 A. No, I was under a misunderstanding when I made the
23 statement and I think I said this yesterday as well.

24 Q. Yes, I'm just clarifying that. In other words, when you
25 received the information from UK Transplant you were

1 aware of the correct, at that time, cold ischaemic time?

2 A. Yes.

3 Q. Thank you very much. Then I think you had gone on to
4 say in a statement that the optimal time to commence the
5 surgery is normally as soon as possible and within
6 24 hours if you can. And that would have meant, bearing
7 in mind the tissue match, some time around 1, 1.42 or so
8 on the 27th and I think you said that the decision not
9 to do it then was really an operational decision by the
10 anaesthetists and the surgeons because of them -- in
11 ease of them, really, because they're going to have to
12 be carrying it out. Can I ask: if when you were
13 providing the information to them that you had, from
14 UK Transplant, and you would have provided them the
15 ischaemic time as it was at that stage, was there any
16 discussion between you and the surgeon and latterly,
17 I think, when you would have been contacting Dr Taylor,
18 you and Dr Taylor, about the ischaemic time and the
19 effect of that so far as you were concerned?

20 A. Yes, I think that I deferred to their decision to wait
21 until the following morning, although we all knew that
22 in terms of cold ischaemic time alone, 1 o'clock or
23 2 o'clock in the morning would have been preferable, but
24 they thought from the point of view of safety of the
25 patient and success of the transplant that to start

1 fresh in the morning was better. That's my recollection
2 and my recollection is, yes, we did discuss those
3 issues.

4 Q. Yes. Can I ask then how the arrangements are made?
5 Because what I think you were saying yesterday was that
6 essentially just because of the clinicians that are
7 available to you, you're really seeking to have people
8 who are on call -- apart from the situation of Mr Keane,
9 the actual transplant surgeon, that might be slightly
10 different, there may be a situation where there can't be
11 anybody on call with that particular expertise. But
12 generally, you're looking at people who are on call,
13 I think you were saying.

14 So given that if you're involved in a cadaveric
15 transplant, you have no control over when you'll be told
16 that there is a kidney available, how often was the
17 situation -- I know there hadn't actually been that many
18 at the time of Adam's surgery, but how often was the
19 situation arising that you had to do something in the
20 evening and think about the safety of the patient in
21 terms of the clinicians who were going to perform it?
22 How often did that happen?

23 A. That would be a common situation with any transplant and
24 it may well be that there were only nine in the
25 Children's Hospital, but of course -- I can't remember

1 the exact numbers, but probably 30, 40, 50 already
2 in the City Hospital and the same problems would arise
3 and, indeed, with the adult transplants. Kidneys, as
4 you say, appear when they're offered to you and you have
5 no control over that.

6 Q. I was just wondering -- this may be something that is
7 better dealt with under the governance section of the
8 hearing. But I'm just wondering what thought was given
9 to how you would actually structure the availability of
10 expertise to you, given that that is a situation which
11 you have just said could happen quite often and then, as
12 it happened, you may well have had enough on the cold
13 ischaemic time clock, if you like, for it to be carried
14 out at 7 o'clock without too much danger to the survival
15 of the graft. But it may be that you wouldn't be
16 in that happy situation. So I was wondering if that was
17 something that was actually discussed in terms of how
18 you would provide that service. If you think it's
19 something that you prefer not to deal with from
20 a clinical point of view, then we can take it up under
21 governance, but I wondered that, since we were raising
22 it, if you had some views.

23 A. I'm sure you will take it up under governance, but the
24 practical situation -- currently and for many years --
25 is if I were to contact the transplant surgeon and we

1 knew in advance that it would be 30 hours, we would
2 probably say, no, let's leave it this time. That wasn't
3 the situation that pertained --

4 Q. No, no, that happened.

5 A. So it is something that's within our reckoning. I don't
6 know -- of course, the phrase "governance" didn't exist
7 in 1995.

8 Q. No, and I'm using it as a shorthand term because it's
9 become a bit of a term of art within the inquiry and
10 I recognise it didn't exist then. But the sorts of
11 things that it covers, those activities and
12 considerations, existed, but that's -- I use it, as I
13 say, as a shorthand term.

14 A. In assessing any of these things, what we try and decide
15 between the key members of the team is what is the best
16 solution for that individual patient.

17 Q. Of course and, so far as you are concerned, on this
18 particular issue as to timing, I think you've said that
19 the people who had the definitive decision on that are
20 the surgeon and the anaesthetist who are actually going
21 to carry out the procedure.

22 A. Yes.

23 Q. There is one other thing in this area just to tie up,
24 it's in your witness statement 002/3, page 22. It's
25 question 20(f). It may just be a use of language but

1 when asked, you say:

2 "Had the transplant proceeded on the evening of the
3 26th as initially agreed ..."

4 Does that mean you had initially agreed that
5 it would and then, on later reflections, others have
6 thought maybe that's not just a good idea, and if there
7 was that kind of agreement who would have been involved
8 in it?

9 A. Well, I think the initial arrangement -- I think the
10 evening of the 26th isn't quite right; it was the early
11 morning of the 27th, obviously. But that's splitting
12 hairs a little bit. I think the initial plan was
13 we would get the -- I feel that I'm repeating myself
14 recurrently -- that we would accept, that we would go
15 ahead as soon as we had a satisfactory cross-match.

16 Q. No, sorry, it's not so much you're repeating yourself;
17 I'm trying to clarify this point that is in your
18 statement, which is: what do you mean by saying:

19 "Had the transplant proceeded on the evening of the
20 26th as initially agreed"?

21 Because that suggests that you and some other had
22 actually agreed that the transplant would occur in some
23 way and that agreement had been reached on the 26th.
24 That is all I'm trying to clarify. It may be just a use
25 of wording and it's no different to what you were saying

1 yesterday.

2 A. There is no difference. The plan is we would go ahead
3 with the transplant as soon as we had a satisfactory
4 cross-match, which was likely to be midnight, 1 am, and
5 subsequently it was changed to start early in the
6 morning.

7 Q. Yes, but to be accurate, as I said, there was never an
8 agreement that the transplant would actually take place
9 on the evening of 26 November.

10 A. No.

11 Q. Thank you.

12 A. The agreement was that it would be when the transplant
13 cross-match came through.

14 Q. Thank you. I wonder if we might move to the issue of
15 consent now. In your witness statement at 002/3 at
16 page 27, you say that the consent form was probably
17 signed between midnight and 2 am.

18 Then, in that same witness statement, but a little
19 later on, at page 31 -- sorry, stay at page 27. In
20 fairness, let me pick this up at question 23(b). You
21 say:

22 "In 1995, it was not uncommon for initial consent to
23 be obtained by someone other than the surgeon carrying
24 out the procedure."

25 Then you say:

1 "Generally, the surgeon and anaesthetist would speak
2 with the parents immediately prior to surgery to confirm
3 that they understood the detail."

4 And that you contrast that with the current
5 procedures. Am I to understand from that, just as
6 a matter of language, it meant that surgeons also did
7 take consent, although sometimes it happened that it
8 wasn't the surgeon who was taking consent? Because you
9 say it wasn't uncommon.

10 A. No, surgeons sometimes would take the consent
11 themselves.

12 Q. Then you go on to say that, irrespective of any of that,
13 generally the surgeon and anaesthetist would speak with
14 the parents immediately prior to surgery and confirm
15 that they understood the detail. What exactly is the
16 detail that you had in mind that they would be
17 confirming?

18 A. Well, I think that my experience is that surgeons would
19 come along shortly prior to the surgery and say, "You've
20 signed consent with Professor Savage or Dr Savage,
21 do you feel you have all the information you need, is
22 there anything else you want to ask me?", and satisfy
23 themselves that the consent was fine. I think that's
24 what happened in those days. Today, we have much more
25 detailed consent forms in keeping with current

1 governance procedures, which require you to list the
2 potential hazards of any surgery, whether they're
3 common, uncommon, life-threatening, and that was not the
4 case in those days.

5 Q. We'll then go on to where I was going to take you to,
6 which is page 31 in this same witness statement.
7 Question 29, the answer to that. I think it's four
8 lines down from that.

9 A. I think that was the right place.

10 Q. "I would expect the surgeon and the anaesthetist would
11 meet with the parents, examine the child and that the
12 surgeon would confirm that the appropriate instruments
13 were available and, after examination, assure himself
14 that the kidney was suitable for transplant into that
15 child."

16 But the bit that you had added there which you
17 hadn't addressed earlier is that the surgeon and
18 anaesthetist would meet and they would -- not
19 necessarily together -- the child would be examined.
20 That's your experience, is it? That's what you say.

21 A. Yes.

22 Q. If I can take you to --

23 A. I think certainly the anaesthetist usually comes along
24 and makes sure the child is fit for anaesthesia.

25 Q. I understand that, but the point that I am at at the

1 moment is that so far as you are concerned, you've
2 referred to the surgeon -- an examination of the child.
3 Are you saying that that doesn't actually refer to the
4 surgeon doing that, that's a reference to the
5 anaesthetist?

6 A. He may examine the child, I'm saying that what often
7 happened or what I expect usually happened is that the
8 surgeon and the anaesthetist would come along and
9 confirm that they were perfectly happy with the child's
10 state of health and so on in preparedness for surgery,
11 yes.

12 Q. Can I then take you to how Mr Keane puts it, which is at
13 witness statement 006/3, page 22. It's in answer to
14 question 40. The third sentence:

15 "There was nothing to gain by me physically seeing
16 Adam as I was capable of dealing with any surgical issue
17 in transplantation. Everything I needed to know was in
18 Adam's medical notes and I had extensive discussions
19 about Adam with Dr Savage. Finally, no surgical
20 complications occurred."

21 So what Mr Keane is saying is that he didn't
22 actually see that there was any purpose in him actually
23 seeing Adam and, of course, seeing Adam would give him
24 the opportunity of seeing his mother. But what did you
25 expect would happen? Irrespective of that, what did you

1 think was going to happen? You had taken the consent,
2 as we say, and then I think shortly after 2 o'clock
3 I think you might have gone home.

4 A. Yes.

5 Q. Quite understandably. But what did you think would
6 happen then?

7 A. 17 years ago ... I mean, what I see happening today
8 is that the surgeon would usually come along and say,
9 "Hello, I'm Mr Keane, I'll be doing the surgery and
10 Professor Savage has told me about your son. He
11 obviously is very well at the minute and are there any
12 questions you want to ask me?"

13 Whether or not he examines the child would be
14 something for him, but I mean, I don't think it's
15 essential that he sees and examines the child. It's
16 probably good practice for people to know who's
17 operating on them and meet them.

18 Q. Yes, thank you.

19 THE CHAIRMAN: Sorry, just to make it clear: that's what
20 you're saying you would expect to happen today?

21 A. Today, yes.

22 THE CHAIRMAN: I think the question is really focused on, if
23 you can recall, what you would have expected in 1995.

24 Is what you would have expected then different to what
25 you would expect now?

1 A. I don't think so, but it's hard to remember.

2 THE CHAIRMAN: Thank you.

3 MS ANYADIKE-DANES: Thank you very much, Professor Savage.

4 Mr Keane also thinks, or has expressed the view,
5 that at the time it was the practice that you would take
6 consent, but I think you've expressed the view that
7 sometimes that would happen and sometimes the surgeon
8 would do it; is that correct?

9 A. Yes. Although generally, I would probably have taken
10 the consent in those days, and I think you have asked
11 Dr Coulthard about this --

12 Q. Yes.

13 A. -- and he agrees that that was common practice and
14 normal practice because a paediatric nephrologist who
15 has looked after a child all his life would know that
16 child better and the risks to him of the transplant
17 better or as much as the transplant surgeon, and
18 therefore it was thought, in those days, that that was
19 acceptable. Today, I think it is required that the
20 surgeon performing the procedure takes the consent. So
21 there has been a change in practice.

22 Q. Yes. But just so that we put what Dr Coulthard has said
23 in context, he puts that in the context of his very firm
24 view that at the outset when the child is put on the
25 transplant register, a transplant surgeon sees the child

1 then and there is a discussion with the parents, and
2 it's on that basis that he doesn't consider it necessary
3 for the surgeon to be part of the taking of consent
4 because there has already been a discussion about
5 surgical matters, if I can put it that way, with the
6 parents. So yes, he does say that but only in that
7 context. And I'm going to put to you some of the views
8 expressed by Dr Haynes, who has a slightly different
9 view.

10 He says that it is not appropriate for
11 a nephrologist to take a written consent for
12 a transplant operation. And I think that
13 Messrs Forsythe and Rigg, who are surgeons, are of
14 a similar view, that the surgeon should be involved. So
15 there is a difference there. And they are referring to
16 the practice in 1995, so far as they were concerned.

17 Now --

18 A. Can you remind me what Dr Haynes' expertise is?

19 Q. I'll find his reference for you.

20 A. He is a consultant ...

21 Q. Anaesthetist.

22 A. Anaesthetist, so not a nephrologist or surgeon.

23 Q. No. But then I have told you the context in which

24 Dr Coulthard made his statement.

25 A. Yes.

1 Q. Can I ask about this, though: the purpose of taking the
2 consent, so far as you were concerned, in 1995, was
3 what?

4 A. The purpose of taking the consent?

5 Q. Yes.

6 A. The purpose of taking the consent was to be sure that
7 the individual signing the consent understood the nature
8 of the surgery, the possible risks of the surgery and
9 also to be sure that they were happy for that surgery to
10 proceed.

11 Q. Are you saying -- well, you have said there is a change
12 between what happened in 1995 and what happens now, and
13 what happens now is that typically a surgeon would be
14 doing that and there may also be an anaesthetist as well
15 now. Are you able to express a view as to why that has
16 changed?

17 A. It has changed to ensure that there is true informed
18 consent and that it is recorded. I think in 1995, we
19 did believe that we practised informed consent, but we
20 didn't record the detail that is required on modern
21 consent forms. But remember, I would not be taking
22 consent any longer.

23 Q. No, no, I appreciate that. But leaving aside a form
24 which would enable you to record details that complied
25 with what, nowadays, is considered to be appropriate,

1 that's a slightly different question. In terms of the
2 person doing it and the person doing it now, as
3 I understood you to say, is typically or almost
4 exclusively the surgeon or the anaesthetist, and what
5 I was asking you is: why is it that nowadays one
6 involves the clinicians who are actually going to be
7 involved in the anaesthesia and performing the
8 procedure? And I think you were helping me with that by
9 saying it is to make sure that it's fully informed;
10 is that right?

11 A. Yes.

12 Q. Does that mean that there is a recognition that the
13 nephrologist may not be the best person to communicate
14 the details and potential risks involved in the surgical
15 procedure and/or the anaesthesia?

16 A. I don't think the people that drew up modern consent
17 forms were thinking of nephrologists.

18 Q. Sorry --

19 A. This is a broad base --

20 Q. Some other person other than those who are going to be
21 directly involved.

22 A. I think these have been regulations drawn up as best
23 practice.

24 Q. And the best practice is that those who are actually
25 going to be involved in the procedure --

1 A. Should sign the consent.

2 Q. Before we get into the signing of the consent. Should
3 be the people explaining whatever has to be explained so
4 that informed consent can result; is that correct?

5 A. Yes, and they sign the form as well, of course. I don't
6 think there's any contention on that.

7 Q. No. Mr Keane has said that he had a conversation with
8 you to -- let's pull it up. Witness statement 006/3,
9 page 21, I think it is. Yes. It's right down at the
10 bottom at (g) there, Professor Savage. I think it goes
11 over the page as well. The question is:

12 "State whether you believe you fulfilled your duty
13 as a surgeon to warn Mrs Slavin of the risks inherent in
14 the transplant procedure to enable her to make an
15 informed decision as to whether or not to consent to the
16 procedure."

17 Then he goes on to deal with terms of practice in
18 1995 and he says that:

19 "Dr Savage was better equipped than I was to take
20 consent. He knew all the common complications of
21 transplantation and the results of transplantation in
22 children. More importantly, he is an expert in the
23 medical care and management of immunosuppression in
24 children of which I had little knowledge. I played no
25 part in recommending or selecting Adam for the

1 transplant. Dr Savage did that, and he was ideally
2 placed to take consent for the procedure as he knew
3 Adam, his medical history and his family intimately.
4 Dr Savage was more than competent to explain the common
5 surgical problems to Adam's mother. Further, I asked
6 Dr Savage if Adam's mum wished to speak to me and he
7 confirmed that all had been explained, consent taken and
8 Adam's mum was not looking to speak to me."

9 So if we flip back again --

10 A. And finally:

11 "There were no surgical --

12 Q. Yes, yes, sorry:

13 "Finally, there were no surgical complications."

14 But we're dealing with a stage where he wouldn't
15 have known whether there were any surgical complications
16 because we're talking about the consent and he couldn't
17 have known that when he was making the decision as to
18 whether he was going to go and speak to the mother or
19 not.

20 In terms of what he says earlier in the start of
21 this answer, when he says that you knew all the common
22 complications of transplantation and the results of
23 transplantation in children, and you had that knowledge
24 of immunosuppression, and then you -- can we pause with
25 that? -- and you were ideally placed to take consent for

1 the procedure. Do you accept all of that, that he says
2 to you?

3 A. I think it's probably true, yes.

4 Q. He then goes on to say that he specifically asked you if
5 Adam's mother wished to speak to him, and you said that
6 that wasn't necessary; do you recall that?

7 A. I don't recall that, but it's perfectly possible.

8 Q. If we go to page 22, "Adam's mother wasn't looking to
9 speak to him". Is that because you had offered that to
10 her and she said, no, that's fine, I'm happy with what
11 you've said, or whatever?

12 A. I don't remember. I don't remember that detail.

13 Q. Would you have offered that to her?

14 A. I don't know. Probably. I would have expected that
15 shortly prior to surgery -- he was coming in any case.
16 I think perhaps that discussion was whether he should
17 come in at midnight and talk to her prior to 6 am, but
18 I don't remember that detail.

19 Q. I understand.

20 A. And of course, furthermore, I think Patrick Keane and
21 I probably thought there was not a major risk in this
22 surgery to Adam.

23 Q. Why?

24 A. Because the risk of a transplant to a child's life was
25 probably only 1 per cent and that would have been the

1 sort of information that I would have communicated that
2 there was a risk, but it was not a bigger risk for Adam
3 than for other children going for a transplant.

4 Q. Don't you also discuss the risk or success of the
5 procedure?

6 A. Yes, and the possibility of rejection.

7 Q. She certainly recalls you discussing the possibility of
8 rejection, but lets stick with the risks or the success
9 of the procedure. Are you saying that you were as
10 equipped to discuss the risks of success or failure of
11 the procedure as Mr Keane would have been?

12 A. In general terms, I think so, yes.

13 Q. And --

14 A. And I think if you remember, I think Debbie Strain has
15 said that she believes I did go over all these things
16 with her. I think she said that in her statement.

17 Q. We'll come to what she says in a minute.

18 A. Because I don't remember exactly what I said to her.

19 Q. We can certainly turn to what she does say now that you
20 raise her. I'm trying to see if I can collect it all in
21 one happy place, if I can put it that way. I think if
22 we go to 001 and then 2, page 9. It's question 47,
23 I think -- (a) I think it is. Sorry, that's in
24 reference -- can we go back to the full page again?
25 I think in this page she's generally dealing with what

1 she was told.

2 THE CHAIRMAN: It might be the previous page.

3 MS ANYADIKE-DANES: If we go to the immediate previous page,
4 yes. Thank you, Mr Chairman. There we are. Then if
5 one's dealing with the surgical anaesthetic risks of the
6 procedure, she deals with what -- the questions are
7 posed and I think the bits underlined are Adam's
8 mother's answers. So we ask about the age and size she
9 says:

10 "I was told Adam's size was of benefit to him
11 because of his current state of well-being."

12 His previous procedures, that she wasn't told
13 anything about those being a feature, if I can put it
14 that way, until the surgery was actually underway when
15 Dr O'Connor came out and told her that his previous
16 procedures were making surgery more complicated. Then
17 in relation to his polyuric condition, she wasn't told
18 anything about that. His propensity for low sodium --
19 this is all in the context of surgical anaesthetic risk.
20 I'm not suggesting that she is saying that she didn't
21 know that he had a propensity of low sodium. She says
22 she wasn't told anything about that producing a risk.

23 If we go on down:

24 "In relation to the donor kidney, please explain if
25 you were told at any time -- and if so, by whom and

1 when -- about the implications of the following for the
2 success of the transplant kidney."

3 And then if we start with the first one, which is
4 the fact that it was half-matched and go over the page
5 and I think we'll have the run of her answers there,
6 "No":

7 "The fact that the kidney was from a 16 year-old and
8 was therefore almost adult sized. No. How long it had
9 been since the kidney was removed from the donor. No.
10 The fact that the kidney had two arteries instead of the
11 usual one [I think that should say]. No. The fact that
12 those arteries were widely separated. No. The
13 implications of each of those factors. No. The likely
14 success of the transplant given the factors above. No."

15 And then she goes on to say what she was told about
16 the transplant team and about Mr Brown, which we've
17 already heard.

18 THE CHAIRMAN: Could you also go back for one moment to the
19 previous page because I think question 43 is the
20 introduction? She says:

21 "What information did you expect to receive before
22 Adam's transplant surgery?"

23 And her answer is:

24 "I would have expected to have been told about any
25 important possible complications and risks."

1 And then the following questions are breaking down
2 particular specific information, which we have now.

3 MS ANYADIKE-DANES: Yes.

4 THE CHAIRMAN: I think, professor, to be entirely fair to
5 you, this really started at question 43. Is it your
6 position that you did tell her about important possible
7 complications and risks?

8 A. As you're probably aware, Debbie Strain and I had a very
9 close working relationship.

10 THE CHAIRMAN: Yes.

11 A. And of course, I was very close to her son, Adam, as
12 well. So I think when you're talking to parents in
13 these situations, some of them will demand or expect to
14 know every minute detail. I think there are other
15 parents who know you very well and trust you to tell
16 them if there are any major or different risks and they
17 don't want to know the minute details or they don't
18 expect to be told them.

19 I don't know the exact situation with Debbie then,
20 but I do know that I trusted her care of Adam and she
21 trusted mine. Therefore, the information that I gave
22 her would have been in that --

23 MS ANYADIKE-DANES: Professor Savage, I can help you with
24 that --

25 A. -- mutually trusting situation. And when you go on to

1 ask Debbie very specific questions and she says no,
2 I accept that that is her memory. But I would have told
3 her anything that I thought was a worry to us on that
4 evening.

5 Q. I can help you with that because you've been good enough
6 to set that out in some of your witness statements. It
7 actually starts with your deposition for the coroner,
8 011-015-111. What we're looking for is:

9 "We discussed the operation in detail with his
10 mother the day before."

11 A. At the bottom of the page.

12 Q. Thank you very much indeed. Four lines up:

13 "We discussed the operation in detail with his
14 mother the day before. Also, I discussed it with
15 Dr Taylor."

16 Which is not relevant for present purposes. Can
17 I ask you who the "we" is?

18 A. I suppose "I", it should be.

19 Q. Because we've had this issue as to who else might have
20 been speaking to her. Okay. If we move on, that's --
21 because it's at the inquest, it's fairly soon after the
22 events. If we go to your witness statement, 002/2, at
23 page 12. Then I think it's in answer to question 6(b).
24 It's in those bullet points:

25 "What information you gave her about the surgery,

1 its risks and the source of those risks and when you
2 provided her with that information and her response."

3 You say that:

4 "I alerted Adam's mother to the offer of the kidney
5 when I had received this information. I asked her to
6 bring Adam in ..."

7 And then going on a little bit:

8 "I would have informed her that it was an adult
9 kidney which the transplant surgeon planned to use.
10 It is likely I informed her that a paediatric surgeon
11 would also be involved in the surgery who had knowledge
12 of Adam's previous surgery, who would therefore be
13 available instantly during the transplantation
14 procedure. I would have explained that we needed to
15 cross-match several units of blood because of the risk
16 of blood loss during surgery so that this could be
17 replaced if necessary. I would have explained the need
18 for the change in his normal overnight feeds. I do not
19 remember in what detail I discussed the risk to Adam's
20 life. I believe we both understood that there was such
21 a risk and hoped and expected he would come through the
22 procedure successfully."

23 Then if we go to a subsequent witness statement of
24 yours where you develop that a little bit because you're
25 asked to, witness statement 002/3, page 5. It's

1 question 2(a)(iv):

2 "What Adam's mother was told about it prior to his
3 transplant surgery. The exact detail of what Adam's
4 mother was told prior to his transplant surgery is not
5 recorded, but the suitability of the kidney in terms of
6 tissue match, the age of the donor, the process of going
7 to theatre, the potential length of time in theatre,
8 detail of the anaesthetic and analgesia to be provided
9 would have been discussed. Prior to signing the consent
10 form, the likelihood of success of the transplant, the
11 potential risk of such major surgery and the need for
12 intensive care management post-operatively would also
13 have been discussed. It is likely that she was informed
14 of the name of the transplant surgeon and the consultant
15 anaesthetist."

16 It is really in response to those details as to what
17 you believe that you were telling Adam's mother that we
18 sought her most recent witness statement. So it wasn't
19 simply that we put a whole lot of things to her and
20 said, "What do you think about this?", it's because
21 we were putting to her what you understood that you had
22 conveyed to her and to see what her response to that
23 was, and that is what I have taken you to. Her response
24 was in relation to any number of those things, which
25 I presume you yourself had considered to be important

1 and noteworthy, otherwise you wouldn't be troubling her
2 with it at a time like that. In her view, she wasn't
3 told those things or at least not all of the things you
4 think you told her. So that really was the reason for
5 raising it with you.

6 A. I don't think the list that you had up matches the
7 statement in this paragraph, does it?

8 Q. I think in large part, but we can do a compare and
9 contrast.

10 A. Can we look at it again?

11 Q. Yes. Let's go to --

12 THE CHAIRMAN: 001/2, wasn't it, page 8?

13 MS ANYADIKE-DANES: There are a number of them. If you go
14 to -- I think where we started was 001/1, page 7,
15 question 43, I think was where we started. No.

16 THE CHAIRMAN: Go on to the next page, I think. The one
17 that you were at a moment ago with the specific
18 questions was 001/2, pages 8 and page 9.

19 MS ANYADIKE-DANES: Yes, sorry.

20 THE CHAIRMAN: I think the professor -- the exchange between
21 you and the professor is whether -- if you go on to
22 question 46 running in from page 8 into page 9. The
23 professor is querying whether each of the specific
24 points which he was asked, which Mrs Slavin was asked,
25 are --

1 MS ANYADIKE-DANES: I understand that and I will over the
2 break, which I presume we'll have shortly, do a compare
3 and contrast, rather than takes up hearing time now.
4 But I've understood he's raised the point.

5 A. I should like to look at the next page if you don't
6 mind.

7 Q. Yes. "The kidney was half-matched", is where it starts.
8 Go to 9:

9 "No. The fact that the kidney was from a 16
10 year-old and therefore almost adult-sized."

11 I think you had said you raised the issue of adult
12 sized with her, "No".

13 Then the fact that it had two arteries, no. Widely
14 separated, no. Implications of each of those factors,
15 no. The likely session of the transplant given the
16 factors above, no.

17 A. So I believe I did communicate that this was almost an
18 adult kidney and, of course, I was quite keen to get
19 a kidney from a healthy 16 year-old who had died from
20 a subarachnoid haemorrhage, but I wouldn't have told her
21 that detail.

22 Q. That's one of the things she says she doesn't recall
23 hearing from you.

24 A. No, because I probably said it was an adult-sized
25 kidney, which you have pointed out before is virtually

1 the case in someone who's 16.

2 Q. Well, it says that:

3 "The fact that the donor kidney was from a 16
4 year-old and was therefore almost adult-sized."

5 And she is saying that she doesn't recall you giving
6 her that information. So whether it's 16 or whether
7 it's adult size, they're both in there and she doesn't
8 recall that. In any event, I think given --

9 A. Again, the business of how long it had been removed from
10 the donor, obviously I would have discussed that with
11 Debra when we moved from 1 am to 6 am because I would
12 have explained to her that this was a problem in terms
13 of how long we were waiting and she would have been
14 aware of that.

15 Q. That's one of the things she says she doesn't recall you
16 telling her.

17 A. I know. And the other thing about the arteries -- that
18 anatomical detail is not usually something that we might
19 discuss with parents in that detail, but I think, in
20 general, I tried to tell her the best information
21 in that circumstance. But to ask her specific questions
22 about arteries and so on, obviously I accept that she
23 would say no.

24 MR FORTUNE: Sir, can I assist you to this extent because in
25 fact Professor Savage deals with this matter --

1 MS ANYADIKE-DANES: I was just going to take him to that.

2 It is in his witness statement, 002, page 24, question
3 20(k) where you deal precisely with that question of
4 whether you think you discussed the arteries on the
5 patch with her.

6 MR FORTUNE: I was going to suggest witness statement 002/3,
7 pages 5, 6 and 7. And whilst I'm on my feet, to assist
8 my learned friend, so far as Dr Haynes is concerned, the
9 reference is 204-004-160, and his disagreement with
10 Professor Koffman on the issue of consent.

11 MS ANYADIKE-DANES: Thank you very much indeed. That's very
12 kind of you.

13 Can we go, just in the exercise of being complete
14 about it, to that statement 002/3, page 24. I think
15 it's question 20(k), and I'm conscious of the time, but
16 I may be able to do this quickly:

17 "State when you discussed with Adam's mother prior
18 to her providing consent to the transplant the
19 implications of: proceeding with the transplant surgery
20 in all the circumstances, including the cold ischaemic
21 time, the widely separated arteries on one patch, and
22 the other factors that are listed above."

23 Sorry, perhaps we need to pull up the page to see
24 these other factors, in fairness. Okay, I think that
25 probably helps to say with it there.

1 There, you say:

2 "I am not certain that I discussed the possibility
3 of not proceeding with the transplant with Mrs Slavin at
4 that time and I would have probably explained that the
5 surgeon felt that delaying the start time was the wisest
6 course of action."

7 And then just a little bit above that:

8 "I did discuss the delay in the transplant surgery
9 with Mrs Slavin, explained to her because it was the
10 surgeons felt it was wiser to start on such a major
11 operation after they had gained some sleep and were
12 fresh to the task. I do not recollect discussing the
13 two arteries on a patch, but may have done so."

14 She, of course, says she doesn't recollect you doing
15 so.

16 A. I accept that and I accept it's unlikely that I would
17 have gone into that anatomical detail with her. But
18 there is a statement from Mrs Slavin that I was hoping
19 you would pull up because I don't have the access to the
20 IT that you do, where I believe you do ask her:

21 "Was she satisfied with the information that I gave
22 her."

23 Something along those lines. And her reply was:

24 "Knowing the type of doctor that Dr Savage was,
25 I believe that he did discuss everything in detail with

1 me."

2 Q. Yes, and I'm going to find that for you over the break
3 so that we can start after the break with that.

4 A. Thank you.

5 THE CHAIRMAN: Can I just ask one point: you've said at
6 least once, professor, that if Debra Slavin says
7 something, you believe it's true or you accept that
8 she's being truthful?

9 A. I accept, of course, she's being truthful. I haven't
10 met Debbie Slavin in a long time, but I used to know her
11 extremely well and I had complete respect for her and
12 for the care she gave her little boy.

13 THE CHAIRMAN: My feeling at this stage is that she had
14 a similar relationship with you, she believed, she
15 trusted you and believed you --

16 A. I think so.

17 THE CHAIRMAN: But it is of course possible that two people
18 who are being absolutely truthful have slightly
19 different recollections of events.

20 A. Yes.

21 THE CHAIRMAN: Particularly if those events are stressful.

22 A. Very stressful for Debbie Strain. These were the worst
23 days of her life, remember, and I appreciate that.

24 THE CHAIRMAN: Yes.

25 MS ANYADIKE-DANES: I wonder, Mr Chairman, given the time

1 and the stenographer and the task I'm going to conduct
2 for Professor Savage, if this might be a convenient
3 moment.

4 THE CHAIRMAN: Okay. We'll start at 11.30.

5 (11.15 am)

6 (A short break)

7 (11.40 am)

8 MR FORTUNE: Sir, before my learned friend continues,

9 you will recall that Professor Savage was reminded of
10 a statement made by Debra Slavin, and he was looking for
11 the reference. The reference is witness statement
12 001/1, page 5. The question posed was as follows:

13 "Describe in as much detail as possible any concerns
14 that you had at the time about amount, quality and/or
15 timing of the information that you were given about
16 Adam's treatment at the Royal over the course of
17 26 November to 28 --

18 THE CHAIRMAN: Just pause one moment, Mr Fortune. Can we
19 bring that up, please?

20 MS ANYADIKE-DANES: I wonder, Mr Chairman -- that's actually
21 almost the last page of the statement. There are some
22 earlier comments that are made by Adam's mother about
23 what she was told, which I was going to take the witness
24 through so you get the sequence of it.

25 MR FORTUNE: I'm happy to leave it to my learned friend.

1 THE CHAIRMAN: Starting at what page, Ms Anyadike-Danes?

2 MS ANYADIKE-DANES: If we could go to witness statement

3 001/1, page 2. This is the first of Adam's mother's

4 witness statements for the inquiry. She's made two and

5 this was the first of them. If we are there, if you can

6 go, Mr Chairman, to the penultimate paragraph. That's

7 where I wanted to start. It's not the first in time of

8 these things, but it's the first of these statements.

9 She says:

10 "Dr Savage and Dr O'Connor were very good at keeping

11 me informed of their understanding of the progress of

12 the surgery."

13 She goes on, but I don't think we need to go on

14 about that. Then if we go to witness statement 001/1,

15 page 3, the next page, and then again the penultimate

16 paragraph, you can see:

17 "At this stage, Adam was in PICU and, to a large

18 degree, he was back under the care of Dr Savage, with

19 whom I have no concerns at all."

20 Then if you go to witness statement 001/1, page 6.

21 MR FORTUNE: Page 4 before you jump ahead.

22 MS ANYADIKE-DANES: I beg your pardon, page 4.

23 MR FORTUNE: The second and third paragraphs.

24 MS ANYADIKE-DANES: Yes:

25 "Describe the information given to you by the

1 medical staff at the Royal and please identify those
2 concerned."

3 And there are a series of occasions when that is
4 being sought. Then she says:

5 "My memory of this is poor, but knowing the kind of
6 doctor Dr Savage is, I am sure that he talked me through
7 the surgery. I was aware of risks associated with
8 surgery, but I know I was completely unaware of the
9 dangers of fluid mismanagement until after Adam's death.
10 Nothing would have prepared me for the catastrophic
11 events which unfolded during Adam's operation. As
12 outlined above, Dr Savage and Dr O'Connor were very good
13 at keeping me informed of what they understood was
14 happening in theatre."

15 Then if we go to --

16 THE CHAIRMAN: If you pause there.

17 Professor, would it occur to you -- going back to
18 1995. If you can't answer this, please tell me. Would
19 it have occurred to you to warn Debra Slavin about the
20 dangers of fluid mismanagement?

21 A. No, I didn't expect there would be any problems with his
22 fluids.

23 THE CHAIRMAN: Okay, thank you.

24 Sorry, please continue.

25 MS ANYADIKE-DANES: Thank you, Mr Chairman. I'm going to

1 come back to that issue of fluids and potential risks in
2 his surgery. But if we go to witness statement -- the
3 same one, page 6.

4 MR FORTUNE: Page 5, please.

5 MS ANYADIKE-DANES: Sorry, I beg your pardon, mine is on
6 both sides. Page 5:

7 "I did not have any concerns [then this is in
8 capital letters] AT THE TIME about information given to
9 me before, during and after Adam's operation. When
10 confronted with Adam's grave condition, my mind was not
11 occupied with assessing the quality of information I was
12 getting. My focus was simply on what could be done to
13 save Adam. My expectation was that the doctors and
14 nurses were thinking in exactly the same way. Adam had
15 undergone surgery at the Royal many times since he was
16 three months old. It would never have occurred to me
17 that there could be anything sinister going on. It was
18 only when the initial shock had worn off in the months
19 after Adam's death that I started to realise how little
20 I had been told. In retrospect, as soon as I saw Adam
21 after surgery, no one was giving me a proper explanation
22 as to what had happened. Dr Taylor's comment that it
23 was 'a one-in-a-million thing' indicated that he had at
24 least some knowledge of what had happened to Adam, but
25 did not explain it to me."

1 And then if we go over to page 6, which is under
2 a general heading that one has in these witness
3 statements, "Other points you wish to make".

4 Second paragraph:

5 "I feel doctors at the Royal were responsible for
6 Adam's death. But I am still grateful to other doctors,
7 namely Dr Savage and the staff at Musgrave Ward for the
8 expert care and attention that they gave Adam throughout
9 his life. I know they felt a genuine sense of loss
10 following Adam's death."

11 Then, if we go to witness statement 001/2, at
12 page 10, which I think will be an answer to question 49.

13 The question itself is:

14 "Please explain, if you had received the information
15 referred to [that's all the information I think that
16 we were looking at before the break], whether any of the
17 following would have made a difference to your giving
18 consent to Adam's transplant and why."

19 First up is:

20 "Surgical anaesthetic risks of the procedure and the
21 factors concerning the donor kidney, the identity and
22 experience of the transplant team involved, the factors
23 relating to the surgery itself. If I had been told the
24 full details about the kidney and
25 the team, I would not have consented at that time."

1 And then the question is:

2 "Were you given the opportunity not to go ahead with

3 surgery? No."

4 THE CHAIRMAN: Okay.

5 MS ANYADIKE-DANES: Then just because I think --

6 THE CHAIRMAN: Sorry, Ms Anyadike-Danes, the answer to

7 question 50, "Were you given the opportunity not to go

8 ahead?", and the answer is -- there's "No". That has to

9 be read in the context of Professor Savage saying that

10 you spoke to her on the afternoon of the 26th and then

11 Mrs Slavin signed the consent form some time around

12 midnight and 2 am on the 27th; isn't that right? It

13 depends what we mean by "the opportunity".

14 MS ANYADIKE-DANES: There are a number of opportunities,

15 I suppose. The first time it's mentioned to you and

16 you're told there's a possibility, I suppose you could

17 say, no, you don't want it. Then there's the time of

18 the consent form and then, I think later on, when the

19 surgeon has a better appreciation -- because at that

20 stage, of course, the surgeon hasn't seen the kidney, so

21 it may be that closer to -- in fact, I think there was

22 a discussion closer to the actual induction of

23 anaesthesia. I suppose at any time prior to actually

24 the surgery --

25 THE CHAIRMAN: But that can't be interpreted to mean that

1 Mrs Slavin was not given any opportunity not to go
2 ahead. The question is at a later stage, about 6 am or
3 7 am perhaps.

4 MS ANYADIKE-DANES: Well, I think because the question is
5 not formed quite in that way, it's probably better that
6 I actually first put that to Professor Savage and then
7 ask --

8 THE CHAIRMAN: I don't think you need to because
9 Professor Savage on his evidence already has said that
10 there were at least two opportunities for her not to go
11 ahead with the surgery. The first was the afternoon of
12 the 26th and the second was when Mrs Slavin signed the
13 consent form.

14 MS ANYADIKE-DANES: What I was actually going to ask him is
15 whether he put to her in terms: look, we don't have to
16 go ahead with this. You might have given her your
17 recommendations as to: this is how I see it and this is
18 what I think, whether it would be in the best interests
19 of Adam, but ultimately it is a matter for you. That's
20 actually the question I'm putting to you. Could you
21 have conveyed to her that whatever your feelings might
22 have been about the advisability of going ahead with it
23 for Adam, nonetheless she had a choice to make and she
24 didn't have to do it?

25 A. I don't know that I'd put it to her at 6 o'clock in the

1 morning in those terms. But I think it's important for
2 everyone to understand that if you're a paediatrician
3 and a paediatric nephrologist in the situation that
4 there is an opportunity to transplant a child, that at
5 some level you think to yourself: if this was my child,
6 would I go ahead? I would have gone ahead if it was my
7 child because we were close enough to Adam that he was
8 almost part of us. So I don't know if I ever said to
9 her, "Are you sure you really want to go ahead?" I felt
10 that it was the best --

11 Q. I understand.

12 A. -- course for Adam and his best chance, and as you've
13 asked me before, did I anticipate that there would be
14 a problem with his fluids? No. Did I anticipate there
15 would be a problem with the transplant? No. And there
16 was no problem with his transplant. In reality there
17 was no risk to his life from the transplant. So when
18 I'm taking consent, I'm saying there is a risk this
19 kidney may not work, we know from the figures that out
20 of the 44 initial kidney transplants we did, 38 of them
21 worked immediately. So I didn't have a major worry
22 about that.

23 Was there a risk that it might reject? Yes, and
24 I think we would have talked about that. Was there
25 a risk to Adam's life? I thought that risk was pretty

1 small. Only the risk of any major surgery. And I think
2 in taking consent, that would have been my mindset.

3 Q. I understand.

4 A. In terms of getting into the minutiae of two arteries
5 and so on, you know, there is a question of how much you
6 worry people. Part of my role as a nephrologist is to
7 support families and parents through these difficult
8 times of their life, these worrying times when their
9 child is having major surgery. So you might say that's
10 slightly paternalistic, but that's how I try to support
11 families and did in those days.

12 Q. I understand. I think you have actually answered the
13 question we started with about the opportunity of going
14 ahead. There's one thing maybe I should point out
15 in that list. It comes at 52(c) and it says -- it
16 probably starts at 52(b):

17 "If you had been told that Mr Keane was to assist in
18 Adam's surgery, what would you have done? In
19 particular, would you have still given consent to the
20 surgery? If I had known about Mr Keane's relative lack
21 of experience in child transplants, I would have been
22 concerned and may not have given consent."

23 And then the (c) question:

24 "Please state whether your answer to the question
25 above would have changed if you had been told that

1 Mr Keane [so she's pre-empted it really] was the only
2 surgeon available in Belfast on 27 November 1995 who was
3 capable of performing the transplant. I may have
4 decided to wait."

5 THE CHAIRMAN: Did Mrs Slavin know when she was answering
6 that question that Mr Keane had done a transplant 10
7 days before?

8 MS ANYADIKE-DANES: I think at that stage we had the --
9 I will certainly find the answer to that. But I think
10 we had the information as to what transplants had been
11 done.

12 THE CHAIRMAN: Sorry, we had the information, but
13 Mr McBrien, Mr Hunter, do you know when your client
14 answered that question? Did she know?

15 MR McBRIEN: No, Mr Chairman, I believe not.

16 THE CHAIRMAN: At that time? Okay, thank you.

17 MS ANYADIKE-DANES: Thank you very much.

18 I had said that I would put to you some of the
19 inquiry's experts' positions in relation to consent and
20 I don't have to my hand the references for that.
21 I apologise for that. If I may just quickly go through
22 that. You had mentioned Professor Koffman, and it is
23 correct that Professor Koffman in his report for the
24 PSNI of 5 July 2006, he says:

25 "It appears from the records that consent for the

1 operation was not performed by the surgeons but probably
2 by the paediatric nephrologist, Dr Savage, and this
3 would be normal accepted practice for the mid-1990s."

4 The reference for that is 094-007-031, and then he
5 goes on to state:

6 "It would be important to view the consent form and,
7 if possible, the topics that were discussed with Adam's
8 mother, including the risk of death and serious adverse
9 events from the procedure."

10 The reference for that is 094-007-031.

11 I don't think we've got a comment back from him yet
12 as to what he thinks in the light of having seen the
13 consent form. Then you did mention Dr Coulthard and he
14 expressed the view that, in 1995, it was common for the
15 final written consent for a child's kidney transplant to
16 be undertaken by the consultant paediatric nephrologist.
17 The reference for that is 200-007-117. However, as
18 I had put to you, but I didn't have the reference to
19 give you. It's put in the context of:

20 "A surgeon having been previously involved,
21 explaining that in our local arrangements, the parents
22 will always have met a transplant surgeon in advance of
23 the surgery and will have covered the relevant issues
24 then."

25 The reference for that is 200-007-117.

1 And then you asked -- I had given you Dr Haynes and
2 the reference for him is -- Dr Haynes considered it. In
3 fact he called it inappropriate for the written consent
4 for Adam's transplant surgery to have been taken by
5 a nephrologist. As he put it in his report of
6 2 August 2011:

7 "This should have been taken by a member of the
8 surgical team. It is generally the case that consent is
9 taken by an individual capable of carrying out
10 a procedure or operation himself or herself."

11 The reference for that is 202-002-037 and he also
12 goes on to say in his report of October last year that
13 he disagreed with Mr Koffman and claims that the taking
14 of consent by someone other than the surgeon is not now
15 and was not then considered to be good practice. That
16 reference is 204-004-160. And then because you had
17 asked me or to confirm whether Dr Haynes was the
18 anaesthetist and not the surgeon, I did that but I also
19 said the surgeons had expressed a view, and they had,
20 and in their report -- this is Messrs Forsythe and Rigg
21 in their report of June 2011 -- noted that consent was
22 taken by you, who were not capable of carrying out the
23 transplant operation. They express the very firm view
24 that:

25 "It is the role of the transplant surgeon to gain

1 consent from a paediatric patient's parents and this was
2 the case in 1995 as well as now."

3 Their reference for that is 203-002-032.

4 THE CHAIRMAN: And your position, professor, is that you
5 accept that it is not now the position of the
6 nephrologist to take consent, but at that time you
7 contend that it was reasonable and relatively common?

8 A. I think it was relatively common. There are various
9 things in those statements that I would pick out. For
10 instance, Dr Coulthard says "the local practice", he
11 doesn't say the national practice. And of course,
12 Mr Koffman is the senior transplant surgeon,
13 I understand, in this country. He has done probably
14 more paediatric transplants than anyone else. So
15 there's a slight difference in what people believe was
16 standard practice in 1995, and I do not think it was
17 probably consistent across the country, and I think
18 what was happening in Belfast was probably similar to
19 what happened in other areas.

20 And of course, outside nephrology it was often
21 junior doctors who took consent. Those days have
22 changed and moved on.

23 THE CHAIRMAN: Yes.

24 MS ANYADIKE-DANES: Yes, and the reasons for that is the
25 concern that the patient wasn't receiving adequate

1 information to give an informed consent. It wasn't
2 entirely a bureaucratic form filling exercise; it was
3 a real concern that the patients were not being able to
4 give informed consent because whoever was giving them
5 the information may not be sufficiently alive to all the
6 issues to be conveyed to the patient or the patient's
7 family; isn't that correct?

8 A. That's correct, and when I was a junior doctor it would
9 not even have been common for surgeons to explain what
10 the risks of an operation were. These are long days ago
11 that we're talking about.

12 THE CHAIRMAN: Is there also an element that what is
13 understood by consent has changed? And now, on the new
14 arrangement, you have to explain all the risks
15 effectively as you said earlier, no matter how small?

16 A. The original form does say: I give consent for this and
17 the name of the operation was there. The modern forms
18 list the potential risks and hazards and you have to
19 note them down, and it has to be signed by the surgeon
20 undertaking the operation.

21 THE CHAIRMAN: I don't want to interrupt for more than
22 a moment, but for instance on the new form, if there was
23 a transplant tomorrow, would you put down the risk of
24 fluid mismanagement? Or if you did, would that mean
25 you'd have to put that down in every surgery?

1 A. You possibly would.

2 THE CHAIRMAN: Sorry, when you retired last year, did the
3 consent forms refer to fluid mismanagement?

4 A. They tend to refer to complications of the surgery, not
5 of the fluid and anaesthetics. I think that's the
6 fairest way to put it. But you may need to ask those
7 questions of one of the surgeons that will appear before
8 the inquiry.

9 THE CHAIRMAN: Thank you.

10 MS ANYADIKE-DANES: Just to pick up one point -- forgive me
11 if I've already referred to this -- slightly off-track
12 as I was addressing some of the other matters. And
13 that is the statement by Mr Keane when he says that:

14 "Dr Savage would have more knowledge of the risks of
15 paediatric transplantation than I."

16 We can pick that up. That's in witness statement
17 006/3 at page 20. It's (c)(ii) towards the bottom.
18 When he was addressing the issue of the risks of the
19 transplant being unsuccessful. So this is not a risk to
20 his life, this is the risk to the transplant itself
21 being successful, which I would put to you is something
22 intimately bound up with the surgical procedure itself.
23 He says, effectively: the risks of the transplant being
24 unsuccessful are standard and Dr Savage would have more
25 knowledge of the risks of paediatric transplantation

1 than I.

2 Since he's answering the question of the risks of
3 transplantation being unsuccessful, are you comfortable
4 in agreeing that you would have more knowledge than the
5 transplant surgeon of the risks of the transplant being
6 unsuccessful?

7 A. It's possible that I would have more experience of the
8 complications of a transplant in a child.

9 Q. The surgical aspects --

10 A. Not the surgical aspects.

11 Q. Sorry, that's the point. The point is the risks of the
12 transplant -- that's the surgery -- being unsuccessful

13 A. I'm trying to read where it says that in the question.

14 MR MILLAR: Sir, I think actually it doesn't say that in the
15 question. That's the difficulty. It says, "The risks
16 of paediatric --

17 THE CHAIRMAN: Is this (ii)?

18 MS ANYADIKE-DANES: "The risks of the transplant being
19 unsuccessful" is the question:

20 "State what information you provided to Dr Savage
21 for the purpose of obtaining formal consent from Adam's
22 mother about [three things]"

23 One is:

24 "How the transplant surgery was going to be
25 conducted. Two, the risks of the transplant being

1 unsuccessful. Three, the risk to Adam."

2 In answer to 2 he says:

3 "These are standard."

4 I presume that means the risk of the transplant
5 being unsuccessful:

6 "And Dr Savage would have more knowledge of the
7 risks of paediatric transplantation than I did."

8 Would you expect that to be the case? You have
9 referred to Mr Keane as being very experienced, albeit
10 he hadn't conducted an awful lot of paediatric
11 transplants or ones as young as Adam, but certainly
12 yesterday when you were describing him, you said he was
13 very experienced, he had written a section in a book
14 edited by Mary McGeown. Would it surprise you to hear
15 him say that he actually thought you might have more
16 knowledge of the risks of paediatric transplantation?

17 A. I think there's a danger of reading more into these
18 statements than were meant. If I give you one example,
19 for instance. Children very frequently, following and
20 during transplantation, have trouble with their blood
21 pressure. If my blood pressure is 160 today and it
22 should be 120 --

23 THE CHAIRMAN: Why?

24 A. It is not doing me any harm -- just at the minute,
25 anyway -- but if a child's blood pressure was 160,

1 it would be quite hazardous to it. So from that point
2 of view, I would be more aware of the hazards to a child
3 as opposed to an adult. So there are particular
4 paediatric aspects of the management of children with
5 renal transplants that I would have more experience of
6 than an adult transplant surgeon. But the actual
7 technique of the surgery is something that a surgeon has
8 expertise in.

9 So I think you need to ask Patrick Keane what he
10 meant by that when the day comes. I think there is
11 a danger that you believe he's saying that I knew more
12 about surgery than he did, which, as you can imagine, is
13 highly unlikely, but I might know more about paediatrics
14 than he did, which is highly likely.

15 THE CHAIRMAN: He knows more about surgery than you, but you
16 have been involved -- or had you been involved in all
17 the 40-plus paediatric transplantations which had taken
18 place up to November 1995?

19 A. Yes.

20 THE CHAIRMAN: Okay.

21 MS ANYADIKE-DANES: I wasn't seeking to over analyse it.

22 I think it's a rather surprising answer myself, but
23 anyway, I was simply asking you to express a view. And
24 of course, the context of the whole thing is that the
25 context is this is Mr Keane explaining why he didn't

1 think it was necessary for him to be either part of the
2 consent-taking process, if I can call it that, or
3 speaking to Adam's mother before surgery. That's the
4 context in which all this is being asked.

5 A. I accept that, yes.

6 Q. I think the chairman was trying to tease out the
7 differences between consent then and consent now.
8 I think you were asked whether you were aware of any
9 protocols or guidance for gaining consent. If we go to
10 your witness statement, 002/3, page 11. I think it's
11 going to be an answer to question 4(f). Yes:

12 "State if you were aware at the time of Adam's
13 transplant surgery of any protocol, guidance or
14 procedure on the gaining of consent generally and
15 specifically in relation to renal transplantation. If
16 so identify it."

17 And so on. Then you say:

18 "I am not aware, at the time of Adam's transplant
19 surgery, that there was a protocol or guidance for
20 gaining consent generally or specifically in relation to
21 renal transplantation."

22 A. I tried to identify a document that I could quote, but
23 I was unable to identify one.

24 Q. Well, maybe it's unfair to raise it here because it's
25 going to be a governance issue, but I'm simply going to

1 ask if you were aware of a particular document.
2 Unfortunately, we don't have the people here with ...
3 Were you made aware from the hospital of a letter from
4 the management executive office of the chief executive
5 that was dated 6 October 1995, which is a month before
6 Adam's surgery, which specifically addressed patient
7 consent to examination or treatment and attached to it
8 a guide to consent? And it dealt in particular with
9 taking consent from the parents of paediatric patients.
10 Were you aware of that?

11 A. I wasn't aware --

12 MR FORTUNE: He ought to be shown the document before he
13 answers that question.

14 MS ANYADIKE-DANES: The reason I hesitated is I'm not
15 sure -- it's one of those helpful documents we got from
16 the DLS.

17 A. I should say I requested this document from the DLS and
18 never received it.

19 Q. Sorry?

20 A. I did request sight of this document from the DLS, but
21 was not provided with it. In answer to your question, I
22 would say --

23 THE CHAIRMAN: Sorry, professor, when did you ask?

24 A. I can't remember precisely. Around the time that I was
25 trying to answer this question. But I would say that

1 I had not seen that document to the best of my knowledge
2 in November 1995.

3 MS ANYADIKE-DANES: Thank you.

4 A. And of course, the fact that it is dated October doesn't
5 mean that it reached people like me in October.

6 Q. I understand. That's why it's going to be one of those
7 issues. At this stage, I simply sought to clarify the
8 point as to whether you had received it or not or had
9 not been made aware of it. I think your clear answer
10 is, no, you hadn't and, no, you weren't.

11 A. No.

12 Q. Thank you very much.

13 I would like to move now to the monitoring of Adam
14 perioperatively. So we have dealt with consent and,
15 over this whole evening of the 26th right up until
16 7 o'clock, really, or just before then, I suspect, when
17 he gets taken to the operating theatre, it's all
18 a period of monitoring and a period in which, really,
19 he's in your care, and also governed by the protocol.

20 I think you say that in your -- I'm not going to
21 call it up every time you say something, but you say it
22 in your witness statement, 002/3, page 38, that:

23 "The standard nursing practice was to record Adam's
24 fluid balance, his input and output on fluid balance
25 sheets and that his urine output would therefore have

1 been measured, if possible, and his weight -- pre and
2 post dialysis -- recorded."

3 Do you want to see that? I can pull that up.

4 A. No, I'm happy with that.

5 Q. And you say you would have checked on Adam's dialysis
6 overnight, but we can't find a dialysis record sheet
7 in the clinical notes. This is one of the things
8 actually I was asked to recap with you. Is the upshot
9 of what you were saying yesterday that the parent -- in
10 this case, of course, it was Debbie Slavin -- maintains
11 the booklet -- and we've seen she's attached that to her
12 second witness statement, with all the records that she
13 makes of his dialysis at home, and that when Adam, or
14 any child who has a parent this that position, comes to
15 the hospital, they bring -- or should bring -- that
16 booklet with them and they add whatever results happen
17 while they're in hospital and then they -- to maintain
18 a continuous record. Is that essentially what you were
19 saying?

20 A. I think that was what happened, but again --

21 Q. Sorry, does that mean therefore that the hospital itself
22 did not have its own records of dialysis?

23 A. We do not have any records of his dialysis that night.

24 Q. Sorry, that's a slightly different question. Does the
25 hospital itself keep dialysis records of the children or

1 are those records solely in the records that the parents
2 keep?

3 A. It's 17 years ago and I don't remember accurately. But
4 my belief is that we kept all the records in the one
5 diary.

6 Q. The one that was maintained by the family?

7 A. By Debra, yes.

8 Q. So if, at any given time, Debra wasn't in the hospital
9 with Adam or in the hospital with her books, there was
10 no way for anybody finding out in the hospital what his
11 dialysis history was, if I can put it that way?

12 A. No, it was in those books and, as you know from seeing
13 the books that she's kept, they're meticulously kept.

14 Q. Yes. I think that's a different issue, as I'm sure
15 you're aware.

16 A. Well, they're the records that I would have depended on
17 when I saw him in outpatients or when he came to see
18 me --

19 Q. I understand that, but it's still one thing for a parent
20 to be keeping records and another thing for the hospital
21 to have its own independent records for people to check.

22 A. I agree.

23 Q. I've been asked to deal with this and you may actually
24 have given an answer and I couldn't remember when I was
25 asked, but did you say that that is not the situation

1 now? Nowadays, the hospital would have its own records?

2 A. Nowadays, we keep our own independent records if someone

3 is an inpatient, yes.

4 Q. And can you recall when that happened, roughly?

5 A. No. A long time ago.

6 Q. Okay. Could it have had anything to do with Adam's

7 case?

8 A. No, I don't think we were particularly concerned with

9 his dialysis record at that time.

10 Q. No, I mean the fact that -- could Adam's case and the

11 fact that when one goes back to look at records, you

12 recognised that the hospital doesn't self-maintain its

13 own, could that have led to a change in practice? That

14 is what, I suppose, I'm asking.

15 A. Possible, but I think we just gradually improved our

16 practice anyway so that we did have independent records.

17 Q. Thank you.

18 A. And we probably had new and -- a newly trained renal

19 nursing staff, who brought in modern practice that was

20 consistent throughout the country.

21 Q. Thank you very much.

22 THE CHAIRMAN: Sorry, this is going a bit off track. When

23 you referred to newly trained renal nursing staff, are

24 you talking soon after?

25 A. No, as time goes by --

1 THE CHAIRMAN: Just gradually?

2 A. Yes. Our nursing staff would change, people would
3 leave, we would have nurses, younger nurses who go on
4 a nursing renal training course and come back with new
5 ideas and with better ideas, and we would adopt them.

6 THE CHAIRMAN: Okay, thank you.

7 A. And of course, nowadays there's continuing professional
8 training within nursing and within medicine.

9 THE CHAIRMAN: Which is more developed than it was 15-plus
10 years ago?

11 A. Yes.

12 MS ANYADIKE-DANES: Yes. Can I take you to reference
13 057-015-021, please? That's the paediatric peritoneal
14 dialysis prescription. Is that a document from
15 paediatric intensive care?

16 A. I believe so, yes.

17 Q. That seems to record a number of details as to his
18 dialysis, apart from anything else, the dialysate, the
19 volume cycle, the duration, the number of cycles and
20 then it's signed off. Was there an equivalent form to
21 that at the clinic or otherwise in the Children's
22 Hospital?

23 A. We did have forms like this obviously, and as you can
24 see, it is our form and it's signed by Dr O'Connor.
25 This is a form we used for acute dialysis. So there are

1 different forms of dialysis. That form has been filled
2 in like that on that occasion. I don't recollect when
3 we introduced that form, but it was obviously there on
4 the 27th of the 11th, 1995.

5 Q. Yes. What I'm trying to find out is -- I understand
6 this is for acute dialysis. This seems to be -- or
7 maybe you can help me. Is this something that was
8 filled in while he was in --

9 A. Intensive care.

10 Q. So this could be an intensive care form, if I can put it
11 that way?

12 A. Yes, it's a form used in intensive care where --

13 Q. What I'm trying to find out is: is there an equivalent
14 of that otherwise than in the hospital? As you will
15 know, as attends his dialysis clinics -- which aren't
16 obviously in intensive care -- there are changes made to
17 his duration cycle. We know that is changed from 10 and
18 8 and 15 and so forth. So over the time when he was on
19 dialysis from some time in September 1994 to this period
20 of time, his dialysis prescription, if I can call it
21 that, did change?

22 A. Yes.

23 Q. What I'm seeking to ask you is whether you had some
24 form, whether it be the clinic or the rest of the
25 Children's Hospital, to record those changes, leaving

1 aside the actual details of it at any particular cycle
2 that he happened to be in hospital for.

3 A. If we were changing his dialysis prescription for his
4 home dialysis, we would have arranged that with his
5 mother.

6 Q. But would there have been a form in which it was
7 recorded?

8 A. No, there wouldn't have been a form in which it was
9 recorded. We probably would have changed what was
10 written in the dialysis diary, and I should point out
11 that the management of his home dialysis, although it
12 was performed by Debbie Strain, we did have a renal
13 nurse who linked constantly with the parents, did home
14 visits, monitored how their dialysis was done and was
15 available 24 hours a day on call, on the telephone.

16 Q. I understand that. But I'm --

17 A. But there was no specific form where we would
18 record: we have changed the dialysis prescription today
19 to this.

20 Q. Or that it is any given thing?

21 A. What the prescription actually is?

22 Q. Yes.

23 A. Well, we would include that in his clinical notes,
24 I think.

25 Q. Okay.

1 A. And I think there are records where we have changed
2 things in his clinical notes.

3 Q. Yes.

4 A. But as always in those days, the clinical notes are not
5 quite in the detail that you might keep them today.

6 Q. I'm sure that's true, although his did run to about 10
7 files -- I think we have them somewhere and they're
8 going to come in at some stage -- and his did run to
9 some quantity. In fact, here they are, literally
10 (indicating).

11 They've been brought in because I think some of the
12 clinicians would like to look at the originals to get an
13 appreciation of the volume of material one is talking
14 about when one discusses looking through his notes.
15 There they are in that box but it's nothing I need to
16 take you to at the moment, Professor Savage, unless
17 there's some reason why you want to look at a note in
18 particular.

19 There are a number of things that are discussed and
20 commented on by the inquiry's experts in relation to
21 monitoring as well as in relation to the actual fluids.
22 What I want to do because I want to be -- you haven't
23 actually had an opportunity to say whether you agree
24 with what they say or what they don't say. That's why
25 I've been putting things to you to give you that

1 opportunity, since some of it comments on things that
2 are directly related to you.

3 In this particular area, one of the issues that has
4 arisen is the information that would have been available
5 to Robert Taylor in relation to Adam's urinary sodium
6 and creatinine.

7 Malcolm Coulthard says that -- sorry, I can tell you
8 where he says that. The reference is 200-020-254. He
9 says that:

10 "Robert Taylor assumed that the sodium concentration
11 of urine was likely to be as low as it had been when
12 measured in the past [that is when Adam was about
13 2 years old], rather than since Adam had moved on to
14 develop end-stage renal failure."

15 And he says it is wrong to use historic sodium
16 concentrations to guide replacement therapy. He, in
17 fact, develops that. He goes on and he says that:

18 "Adam's kidney function was different back then.
19 He was not on dialysis. It would have been easy to
20 collect a sample on admission. Consequently,
21 Robert Taylor decided it would be best balanced by using
22 Solution No. 18."

23 And that means with about 31 millimoles of sodium,
24 and he said:

25 "That the best assumption is that the urine

1 concentration is likely to be close to 45 per cent
2 saline, which has a concentration of 77 millimoles."

3 Let me try and take you to some of that paragraph
4 rather than reading it all out. If we go to
5 200-022-069, if we start there.

6 MR FORTUNE: Is that a correct reference?

7 THE CHAIRMAN: We'll see in one moment.

8 MS ANYADIKE-DANES: 269. There we are. It starts off
9 in the second paragraph:

10 "His second error [which is Taylor] was to assume
11 that the sodium concentration of the urine was likely to
12 be as low as it had been when measured in the past,
13 rather than since Adam had moved on to develop end-stage
14 kidney failure."

15 Then:

16 "As a result, he judged it would be best balanced by
17 using Solution No. 18, which has a sodium concentration
18 of 31 millimoles. I have argued that it would be
19 sensible to measure the urinary sodium routinely in
20 children undergoing transplantation, who still have
21 a native urine output and the responsibility for not
22 doing that has to be shared with Dr Savage. In the
23 absence of that, the best assumption is that the urine
24 concentration is likely to be close to 0.45 per cent
25 saline, or half normal, which has a concentration of

1 77 millimoles."

2 And then he goes on:

3 "A third error was not to measure Adam's urine
4 output. My experience of kidney transplantation is that
5 it has always been routine to catheterise a child's
6 bladder at the beginning of the operation. Apart from
7 providing drainage and monitoring for the urine volume
8 during the operation, these children always have a
9 catheter inserted at some point anyway to drain the
10 urine and decompress a bladder after the operation when
11 the new kidney makes urine. This was an important
12 mistake."

13 You actually do discuss in the papers whether or not
14 Adam was going to be catheterised at some point. But
15 where this started off with is that the absence of the
16 measurements meant that Robert Taylor was left in
17 a situation where he was making assumptions and that is
18 what's being criticised. He shouldn't have had to make
19 an assumption; he should have had a figure or figures to
20 work from.

21 Then I think --

22 THE CHAIRMAN: I think if you stop. Are you putting to
23 Professor Savage what's in the second paragraph?

24 MS ANYADIKE-DANES: Yes.

25 THE CHAIRMAN: You see the second paragraph, professor,

1 where it is suggested that Dr Taylor was wrong, but the
2 responsibility for not doing that has to be shared with
3 you. Do you --

4 A. I accept that we had not measured his urine sodium since
5 1993, and if we had measured it closer to the time of
6 his operation or at the time of his admission, that that
7 would have been extremely useful information for
8 Bob Taylor. I think I have said that in later
9 statements.

10 THE CHAIRMAN: Yes.

11 MS ANYADIKE-DANES: I'm not sure that I actually put the
12 relevant passage to you from Dr Coulthard, but thank you
13 very much indeed for that.

14 A. I would also add that when we revised the transplant
15 protocol that we then added the requirement to measure
16 urinary sodium into that.

17 Q. That was a revision that you did in 1996?

18 A. It was a lesson that we learned, yes.

19 Q. Thank you. There is another issue that's -- can you
20 help with that third error point? Obviously -- well,
21 I presume you're not the person who actually inserts the
22 catheter. But there is a discussion there as to whether
23 his urine output should have been measured. I think you
24 had started that matter yesterday, saying that it could
25 have been if you'd measured the wet and the dry nappies

1 and compared the weight, you could have got some
2 appreciation of what his urine output was.

3 I don't think we had moved on to the suggestion as
4 to whether you had expressed a view as to whether he
5 should actually have a catheter inserted, and that would
6 have been a helpful thing for the purposes of his fluid
7 management in theatre. Had you discussed that at all
8 with Dr Taylor?

9 A. No, I don't think the question of whether he had an
10 urinary catheter placed or not in theatre was part of my
11 responsibility.

12 Q. I understand. You understand, I'm not suggesting it
13 was; I'm simply asking if you had discussed it with him.

14 A. I don't think so.

15 Q. Do you recall if he discussed it with you?

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

17 Q. Thank you.

18 A. I would have thought that was for discussion between the
19 anaesthetist and the surgeon rather than with the
20 nephrologist.

21 Q. Thank you. Another issue that has arisen is to whether
22 anybody conducted any kind of post-dialysis assessment
23 of Adam, and if they did, what that involved. Can you
24 help with that?

25 A. I've tried to remember exactly what happened on that

1 morning and at what time I was back in the hospital.
2 But I have no clear recollection of that. I had
3 expected him to go to theatre at 7 o'clock. I think
4 I returned shortly before that. Normally, I would have
5 gone and seen a patient even though there was no need
6 for me to do so because I had prepared everything so
7 that if the plan was followed, he should be safe going
8 to theatre. But I would usually have gone and spoken to
9 the patient and the parents on the way to theatre and,
10 indeed, on some occasions accompanied them to theatre.
11 But I don't think I did that that morning because I have
12 no memory of it. So I suspect that by the time
13 I returned to the hospital, he was already either on his
14 way or in theatre.

15 I do know that in the anaesthetic note there is
16 a mention that he had a pre-anaesthetic assessment.

17 Q. Yes, I was going to ask you about that because I wasn't
18 entirely sure what that was.

19 A. Well, I'm not either. But when I was looking in
20 anticipation of this sort of question, just to see if he
21 was examined before theatre, I did note that that is
22 in the anaesthetic record.

23 Q. Yes, sorry, we can look at it actually. It's
24 058-003-004. That's the anaesthetic record itself.
25 Were you aware of any kind of assessment being done?

1 A. I don't think this is the appropriate record.

2 Q. I think this may not be the appropriate form, actually,
3 sorry. I'll come back to that.

4 A. However, it's really a question for the anaesthetic
5 team, not for me.

6 THE CHAIRMAN: But you don't know what's meant by
7 a reference to a pre-anaesthetic assessment anyway?

8 A. No.

9 THE CHAIRMAN: Okay.

10 MS ANYADIKE-DANES: It will pop up in due course.

11 What I was actually trying to get at, though, is
12 whether -- sorry, here we are. Got it now. I beg your
13 pardon. 058-003-007. Right. What I was asking you
14 about is whether you have any knowledge of this as an
15 assessment. There we are. It says:
16 "Preoperative assessment. ASA classification."
17 And then there's a range of them and "3" is circled.
18 Do you know what that is?

19 A. No, I don't, and I can't see it.

20 Q. Sorry.

21 A. Oh, yes, yes. I think I referred to that somewhere in
22 one of my statements because I had noticed that it was
23 there. I don't know what that means. I just noted it
24 because it --

25 Q. Because it's there.

1 A. Because he had a pre-anaesthetic assessment. I don't
2 know what it means.

3 Q. Yes. If he was having a preoperative assessment, that's
4 obviously happening necessarily at a time when he's
5 really in your charge. How would that work?

6 MR FORTUNE: Sir, I hesitate to intervene. These are
7 questions more appropriate to Dr Taylor because it's the
8 responsibility of the anaesthetist to ensure that the
9 patient is fit for anaesthesia, and therefore for
10 surgery. It would be our submission that this is not
11 a procedure over which Professor Savage would have any
12 control or input.

13 MS ANYADIKE-DANES: I'm very grateful to my learned friend.
14 I didn't actually mean that he would have any control or
15 input. What I'm trying to ascertain is whether he's
16 aware of when that would be happening. He's there
17 in the hospital until 2 am, he arrives slightly before
18 7, I think he was doing his best to recollect. And what
19 I'm trying to find out, Professor Savage -- and you may
20 simply not remember -- is if something of this nature
21 was happening, when would it happen? Or do you recall
22 any kind of assessment being carried out on Adam?

23 A. I wasn't there when it was carried out. I think you
24 need to ask Dr Taylor.

25 Q. Thank you very much indeed.

1 If I may ask you slightly differently about the
2 urine. Dr Taylor appears to have made the assumption
3 that Adam would pass around 200 ml per hour of dilute
4 urine. We can just see that very quickly. I don't want
5 to do him a disservice. I think it's at witness
6 statement 008/2, page 6.

7 THE CHAIRMAN: At (d).

8 MS ANYADIKE-DANES: So:

9 "Explain how that 'excess' suggested to you and to
10 Dr Montague that Adam capable of tolerating rates of
11 fluid in excess of normal amounts. I meant he could be
12 given in excess of 200 ml because he passed larger
13 volumes of dilute urine."

14 And I think there is another place where he says --
15 in fact, it starts at (b) really. We asked the
16 question:

17 "State how much you calculated that he had received
18 in excess of 200 ml."

19 So 200 ml is certainly a figure that he has as an
20 assumption for the amount of urine he passed. And
21 I think the other place where he says it is 008/3,
22 page 12.

23 Then if you look right down at the bottom,
24 Professor Savage, just above 35, it says:

25 "I did not know what his urine volume was during the

1 procedure. I knew that he was passing a large volume
2 dilute urine that I estimated to be 200 ml an hour."

3 What I was going to ask you is: you have said that
4 you had discussions with Dr Taylor and you discussed
5 Adam's condition and his clinical history and that sort
6 of thing. Do you know where the figure of 200 ml per
7 hour of dilute urine comes from?

8 A. No.

9 Q. Did you ever tell him that he passed that amount of
10 dilute urine?

11 A. No.

12 Q. In fact, let's go to what I undertake to be your view.
13 We can start with 002/3, page 39. I think it's in
14 answer to question 36(a):

15 "I am unable to identify an accurate measure of
16 Adam's urine output except for the record in the
17 intensive care unit on 27 November when he passed
18 1,363 ml of urine in a 21-hour period. While it is
19 possible that there was some output from the
20 transplanted kidney, these volumes are nevertheless [and
21 this is the point because that's what happens after
22 surgery] consistent with our estimate of urine output
23 from his native kidney of between 1,200 and 1,500 ml."

24 Was that your view at the time: that that was
25 roughly the order of his urine output?

1 A. I think my consistent view was that he had 2,100 volume
2 input each day and his output was therefore of the order
3 of 1,500 ml.

4 Q. Per day?

5 A. Per day. And if you remember, that is written in
6 a summary note, just shortly before the transplant note
7 by Dr O'Connor, who had just commenced her consultant
8 post and was engaged in looking at all the children and
9 writing summaries for her information. So it's quite
10 clearly written there that his output was -- I think she
11 has said 1 ml to 200 ml, but my understanding and what
12 I have said and what I believe I communicated to
13 Dr Taylor was that he got 2,100 ml per day and that
14 therefore, based on his insensible loss and so on, his
15 output was 1,500 ml a day. And if you divide that by
16 24, it certainly doesn't come to anything near 200 ml
17 an hour.

18 Q. Exactly. I wasn't going to take you through all the
19 statements that you've made where you've addressed it,
20 but just about in every witness statement that you've
21 made for the inquiry you have, and for the record,
22 that's witness statement 002/1, page 2. 002/3, page 15.
23 And so on. I will not go through them all. But they're
24 all much of a muchness. It's an assumption that you
25 make, obviously, because you're taking what is his daily

1 and then you work it out, what you think it is an hour.

2 A. It's actually on the page that's on the screen at the
3 minute.

4 Q. I hoped I had read it out from that page. If I hadn't,
5 I meant to do that. So if in fact he had been passing
6 200 ml of urine an hour, just very quickly for us, maths
7 not being my strong suit, what would that imply he was
8 taking on board?

9 A. You'd have to be drinking something like 5.5 litres
10 a day.

11 Q. And did you tell Robert Taylor what his daily input was?

12 A. Yes, because when we determined what fluids he would get
13 overnight, we obviously discussed that.

14 Q. Yes.

15 A. And if you --

16 MR UBEROI: [Inaudible] for the record, to point out that
17 Dr Taylor has accepted that the calculation was wrong.

18 THE CHAIRMAN: Thank you.

19 MS ANYADIKE-DANES: Yes, I understand that and I'm grateful
20 for learned counsel saying that. What I'm trying to
21 explain is how we could have got to the situation that
22 we got to.

23 THE CHAIRMAN: He accepts that he got it wrong.
24 Professor Savage said it didn't come from him. That
25 takes care of the point.

1 MS ANYADIKE-DANES: Yes, I think it does.

2 But if I ask you just one question about it,
3 though: when you discussed -- which I think you concede
4 you did -- the fluid arrangements for Adam's management,
5 did he ever mention to you that he was going to put that
6 in as one of the factors?

7 A. No.

8 Q. And can I just ask you, for the record: if he had told
9 you that, what would you have said?

10 A. I would have said it was too much.

11 Q. Thank you. I wonder if I can move on, now we've started
12 into that territory, with your discussions with
13 Dr Taylor. You make reference in a number of your
14 witness statements as to the fact that you did have
15 discussions with Dr Taylor. In fact, I think if we go
16 to your witness statement 002/3, page 32, I think that's
17 at least where it starts. That will be in answer to
18 question 30. I think you say you believe that you told
19 Dr Taylor that Adam was polyuric. I think we find that
20 at maybe (a)(i). The question is:

21 "Describe and explain what you told Dr Taylor or
22 believe that you would have told him if you cannot
23 actually remember what you said in relation to Adam's --

24 And in this case it's his diagnosis of polyuric
25 failure. And you say:

1 "I believe I would have told Dr Taylor that, despite
2 the fact that Adam had chronic renal failure and was
3 maintained on dialysis, because of his initial diagnosis
4 of obstructive uropathy, he had a polyuric type of renal
5 failure. And as I've stated in an earlier answer, Adam
6 required to have 2.1 litres of fluid daily."

7 So there it is:

8 "So that he could build a calculation of his basic
9 fluid requirements during the transplant surgery."

10 And then you are asked about what you told him about
11 his previous urological history, and you say:

12 "I would probably have given a brief summary of the
13 previous urological surgery, including re-implantation
14 of his ureters in infancy, which had required subsequent
15 revision so that one ureter [I think that's the T-shape
16 we were talking about yesterday] cross-drained to the
17 contralateral side so that he would be aware that the
18 transplant surgery might be complicated by the previous
19 bladder operations."

20 And then the multiple previous anaesthetics and
21 operations, you say:

22 "I would have reminded Dr Taylor of the multiple
23 previous operations which Adam had had, as he may have
24 wished to review the previous anaesthetic records,
25 although I was probably aware that Dr Taylor had

1 previously anaesthetised Adam."

2 And then when you talk about his feeds, so we get
3 a little bit more into the fluids and the:

4 "... Nutrison that made up his high volumes of
5 2.1 litres a day was fed through a gastrostomy bag."

6 You say that was discussed:

7 "About how much oral feed we could give Adam and
8 when it should be discontinued prior to surgery."

9 You explain about how it was slow to empty:

10 "I may have also indicated that the sodium content
11 of Nutrison is similar to that of 1/5 normal saline and
12 that I would emphasise that I don't exactly remember the
13 details."

14 A. Can I say that that last sentence I think is extremely
15 important? I felt that I was being pushed in this
16 question to say what I believed I would have said or
17 what I thought I would have said. I wasn't entirely
18 sure in answering this if this was an appropriate
19 question because it is in that area of speculation,
20 although I think it's as accurate as I can be. But
21 I would like to just say --

22 Q. In fairness let me read that sentence out:

23 "I would emphasise that I do not exactly remember
24 the details of the discussion between myself and
25 Dr Taylor and that these comments are, as you have

1 requested, what I believe I would have told him."

2 A. Yes. I think that's important.

3 THE CHAIRMAN: Thank you.

4 MS ANYADIKE-DANES: I know it is still in that sort of realm
5 of speculation, but is that because you think these were
6 the important things that should have been conveyed to
7 him?

8 A. Yes, I think so and, for instance, I know that Dr Taylor
9 used fifth normal saline, and if I did say to him, for
10 instance, as I speculate here, that I said to him that
11 Nutrison is similar to fifth normal saline, that may
12 have influenced his decision. And of course,
13 historically, the use of fifth normal saline, which, as
14 you know, was standard practice in those days, was based
15 on the fact that the sodium content was similar to
16 breast milk and that was the historic reason it had been
17 chosen. And Nutrison, being an infant feed or a
18 childhood feed, was also designed in the same way to
19 have a similar sodium content. So I have tried to be as
20 honest as I can in this statement of what I would have
21 been likely to have told him.

22 Q. I understand and, for that reason, it is actually very
23 helpful because it indicates what you, as his consultant
24 nephrologist, thought were the important things that
25 ought to be conveyed to the anaesthetist going into

1 his -- him going into his surgery.

2 Can I just ask you one quick question though: were
3 you aware of the fact that Robert Taylor hadn't
4 anaesthetised a child for a renal transplant as
5 a consultant before?

6 A. No, I think my understanding was that he had been
7 involved in renal transplant anaesthetics during his
8 training.

9 Q. I understand. Dr Coulthard deals with what he thinks
10 are the matters that ought to have been raised or
11 discussed with Dr Taylor, and he deals with them at
12 reference 200-007-115. It should start with "case
13 background". That may be the wrong page. We'll get the
14 right page.

15 But in his report, what he lists are the things
16 that -- well, I don't think he's setting it out
17 necessarily as a comprehensive list, but the sorts of
18 things he believed ought to be believed in that
19 discussion. One is the case background, previous
20 anaesthetic problems, venous access difficulties.

21 MR FORTUNE: Try 116.

22 MS ANYADIKE-DANES: Actually, I think it might be 124, but
23 I'm happy to try 116.

24 MR FORTUNE: It's the heading, "Managing the child's
25 preoperative fluids ".

1 MS ANYADIKE-DANES: Thank you very much.

2 He says:

3 "It is the role of the paediatric nephrologist to
4 deliver the child to the operating theatre in an
5 appropriate condition. One of the ways of doing that is
6 to ensure that they have an adequate quantity of fluid
7 in their body; ideally, a slight excess over normal for
8 the procedure and that the biochemistry concentrations
9 are all safe and appropriate. The latter would include
10 ensuring that the plasma sodium was in or close to the
11 normal range."

12 Would you have any difference with him over that?

13 A. No.

14 Q. And then he goes on to say that how you would actually
15 achieve that would differ from child to child. Anyway,
16 I'll find the precise reference that I'm looking for.
17 It's not entirely there. One of the things he thinks
18 you might have discussed with him is venous access
19 difficulties. Were you aware there might be any venous
20 access difficulties?

21 A. Well, I mean, overnight there had been two separate
22 attempts to insert a peripheral venous line, and that
23 had failed, and my recollection is that the paediatric
24 anaesthetic registrar had spoken to Dr Taylor about
25 that. So he certainly knew there were difficulties in

1 terms of peripheral access, although Bob Taylor was
2 immediately able to obtain that in theatre, and that's
3 part of a consultant anaesthetist's skill, of course,
4 that they develop. If we're stuck in difficulty
5 obtaining venous access, it's usually an anaesthetist
6 that will rescue the situation.

7 I have no clear knowledge of how detailed
8 Dr Taylor's understanding was in regards to central
9 venous access, except that I was aware that he had been
10 involved in an anaesthetic to place a previous central
11 line. And I think that's true.

12 Q. Adam, of course, had had a number of central lines
13 placed, which you would have been aware of. When you
14 said that you would have been discussing his previous
15 surgical history, would your discussion have
16 condescended to that level of detail?

17 A. Condescended?

18 Q. Got down to.

19 A. It might have done. I don't know. We would often
20 discuss, if there was a problem with venous access, yes,
21 and again, you may need to ask Dr Taylor if he had some
22 particular concern about that, knowing that he had had
23 previous central lines. But of course it's true to say
24 that many of the children that we look after who are
25 chronically ill in the renal unit have had multiple

1 lines before and, yesterday, we did discuss the idea
2 that perhaps he should have had ultrasound examination
3 of his neck in advance. I accept that that is something
4 that we would do now and is probably a wise precaution.

5 Q. I think you said that you would do a Doppler scan now.

6 A. A Doppler scan now.

7 Q. But in terms of ... Going back then, so far as you
8 can -- and it may just be one of those sort of things
9 that you can't remember --

10 A. I don't remember that we discussed the detail.

11 Q. That you discussed central lines?

12 A. No. I would have discussed, of course, that we needed
13 a central line, a triple-lumen central line. But again
14 I suspect that Dr Taylor would have known that anyway.

15 Q. Did he discuss with you what he wanted in terms of
16 Adam's fluid balance coming to the operation and what
17 he was proposing to do about his fluid management of
18 Adam during the operation?

19 MR UBEROI: I simply rise to say I certainly don't object to
20 the question, but it needs to be put always in the
21 context that this witness has already said he doesn't
22 remember the discussion.

23 THE CHAIRMAN: Let me read back in the question.

24 MS ANYADIKE-DANES: Can you remember it?

25 A. The discussion about his fluid balance?

1 Q. Yes.

2 A. Well, I certainly did have a discussion about his fluid
3 balance because you'll remember from some of my
4 statements that I said to Dr Taylor that I had a concern
5 that he might be behind in his fluids because in the
6 normal day he got 2.1 litres of fluid and, overnight, he
7 got 1,500 ml of fluid in the normal day. But on the
8 night of his transplant -- because he was going to
9 theatre early and had been getting a different fluid
10 regimen -- that he only had 970 ml overnight and
11 therefore I suggested to Dr Taylor that he might in fact
12 have been in some fluid deficit. I'm aware, of course,
13 that you have asked various experts to assess whether
14 he was in fluid deficit or in positive balance.

15 Q. Yes.

16 A. And most of them have said he was in positive fluid
17 balance. That is because, I believe, you have asked
18 them what the fluid balance was between his admission
19 and 7 am.

20 Q. Yes.

21 A. When I made that calculation, I have agreed with their
22 calculations to a large extent, except to put the rider
23 in that those calculations are related to the period
24 10 pm to 7 am, whereas normally we look at children's
25 fluid balance over a 24-hour period.

1 Q. And if you're doing that, what assumptions are you
2 making as to the starting point for your 24-hour period?

3 A. We usually count 8 am to 8 am.

4 Q. That's the period, but what assumptions do you make as
5 to their starting point in terms of fluid balance?

6 A. I don't follow.

7 THE CHAIRMAN: Do you assume that there is neither a deficit
8 nor a positive?

9 A. At the start of the 24 hours? Yes.

10 MS ANYADIKE-DANES: Why would you do that? Why would you
11 assume that he was necessarily zero at the starting of
12 your 24-hour period?

13 A. Because that's what we are trying to achieve day-to-day
14 in our patients.

15 Q. Yes, of course it is what you're trying to achieve, but
16 why would you assume he necessarily was? Do children's
17 fluid balances not vary from day-to-day? At any given
18 day in that eight-hour period he's not going to be
19 exactly the same one day as he is another day?

20 A. I think they are.

21 Q. Literally exactly the same?

22 A. If you bear in mind we were giving Adam Strain
23 2.1 litres of fluid every day and 1,500 ml overnight,
24 and his weights tended to be fairly steady -- there may
25 have been a slight variation, but not a gross variation.

1 Just the same as my weight every morning, unless I've
2 been out the night before, is much the same each morning
3 of the week. Is there something else you're trying
4 to --

5 Q. No, I'm just trying to establish that that's actually
6 what you're saying because obviously it's a thing that
7 we'll put to the expert, but I just want to be
8 absolutely clear that what you're saying is that it is
9 preferable to use the 24-hour period because you can
10 assume at the beginning that he's at zero.

11 A. Well, I'm not saying it's preferable one way or the
12 other. I'm just trying to explain the conversation --

13 Q. There's a difference, though, isn't there, that if you
14 do it over 24 hours you get a different result, assuming
15 that he's starting at zero, than if you do it over what
16 you actually know you put into him over that period of
17 his admission to just prior to his surgery, what you put
18 in and what he lost, if you like, and that gives a
19 different result. Depending on which way you do it, you
20 either get a deficit or you get a positive. So it is
21 significant which you decide to use as a way of
22 assessing it?

23 A. It is, but I don't think you asked any of the experts
24 about the 24-hour period.

25 Q. No, but we are going to ask them about that and we are

1 going to ask them about whether that's an appropriate
2 way to calculate his fluid position. Of course we're
3 going to ask --

4 A. However, I don't have any disagreement with the experts
5 to any extent. The situation is that you communicate to
6 the anaesthetist, who's going to be looking after the
7 patient in theatre, where you feel the fluid balance may
8 be. Then the CVP line, the pulse rate and the blood
9 pressure then gives you a guide as to whether that's
10 correct or false. So if he was 500 ml behind, let's
11 say, you'd expect a slightly lower CVP. If he was
12 500 ml in positive balance, you would expect it to be
13 slightly higher. That's the reason for using the CVP to
14 monitor where exactly you stand.

15 Q. I'm going to get to the CVP in a minute. Just picking
16 up on this point that I'm making -- and I appreciate the
17 time and maybe it's not something that one wants to
18 worry about just now. Perhaps if you could go to
19 witness statement 002/5, page 7. This is your fluid
20 balance sheet that was attached to your most recent
21 statement --

22 A. Yes.

23 Q. -- for the inquiry. Now, if you look under the second
24 column, which is the time between admission and start of
25 preoperative fasting, so that's really essentially his

1 time in hospital before his surgery, then the estimated
2 fluid excess is that -- what that column is supposed to
3 do. You've got round about a range of 200 to 400 ml
4 excess.

5 A. Yes.

6 Q. And then if you go over the page to 002/5, page 8,
7 there's a little section where you can see:

8 "Reasons why planned fluid infusion (content or
9 infusion rate) should change due to change in estimated
10 loss."

11 You say:

12 "At the time of going to theatre, Adam was in sodium
13 balance and bearing in mind his usual night feed was
14 1,500 ml, although in positive fluid balance from the
15 time of admission, he may have been in an overall
16 24-hour deficit of perhaps 300 ml compared to a normal
17 day."

18 So depending on which way you do it, he's either in
19 a slight positive balance of 200 to 400 or he's in
20 a slight deficit of about 300 ml, so that's the
21 significance of which you choose.

22 MR FORTUNE: And Professor Savage had flagged that up on
23 page 7 at the end of the first column for the period
24 22.00 to 05.00.

25 MS ANYADIKE-DANES: Yes, sorry. I'm not suggesting he

1 hasn't flagged it up, I'm just suggesting there is
2 a difference in what the result is if you do it one way
3 rather than the other. Obviously there will be an issue
4 as to what is the most appropriate way to do it for the
5 purposes of an anaesthetist calculating where the child
6 is before he starts his fluid regime.

7 A. If I could just say, the reason I have made these
8 statements and the most recent statement is that
9 I obviously have quite clearly stated that I indicated
10 to Dr Taylor that over the 24-hour period, I felt he was
11 in positive balance. We then had a series of experts
12 from all over the country coming back and saying he was
13 in deficit, and I was merely trying to point out that
14 the estimate I had made was on a 24-hour timescale and
15 theirs was on a 9-hour timescale. That's all I'm
16 saying, nothing else. I'm not trying to draw any
17 conclusion from that, just trying to explain why I had
18 made those statements and calculations.

19 Q. I'm grateful.

20 THE CHAIRMAN: To the extent that there is an area of
21 disagreement about whether he was in slight deficit or
22 slightly positive, to what extent do you think that that
23 impacts on what happened later?

24 A. I don't think it makes any major impact.

25 THE CHAIRMAN: When, by Dr Taylor's admission, he gave him

1 Ms Anyadike-Danes will finish her questioning of you.
2 So if we could break at about 3.30 -- we broke earlier
3 yesterday, at about 3.15, but if we could break at 3.30,
4 have a 15 minute break or so ...

5 I understand from discussions between counsel that
6 it's agreed that virtually everything you're going to be
7 asked will be asked by Ms Anyadike-Danes, but that there
8 may be some short questioning of you when we resume at
9 3.45. I think the hope is that the completion of
10 Professor Savage's questioning can be achieved this
11 afternoon. It may mean going a little bit beyond 4.30.
12 Is that the anticipation?

13 MR FORTUNE: I'm not party to this agreement.

14 THE CHAIRMAN: I'm not sure it's a -- it's an understanding
15 that's been communicated to me as to what is likely to
16 happen.

17 MR FORTUNE: All I am concerned about is that
18 Professor Savage is in a state fit to continue his
19 evidence. None of us should underestimate the strain,
20 sir. And speaking as somebody with experience of the
21 General Medical Council, chairmen are very reluctant to
22 press witnesses if they're tired.

23 THE CHAIRMAN: I can't think that Professor Savage isn't
24 tired and I know what it's like to be in the witness
25 box: it's not a place where you want to be sitting. On

1 the other hand, if we can, by sitting a few minutes
2 late, finish your evidence today in a way in which you
3 feel able to give it, that might be more of a relief to
4 you than having to come back tomorrow morning for some
5 final questioning.

6 Let's see if we can work on that basis in the hope
7 that Ms Anyadike-Danes will complete her questioning by
8 3.30. Okay?

9 MS ANYADIKE-DANES: I will try to. Very quickly though, in
10 one of the comments you made when I said I think
11 I wanted to check the transcript just before we rose for
12 lunch, you said that -- for those who are looking for
13 it, it starts at line 8:

14 "If I could just say the reason I have made these
15 statements and the most recent statement is that
16 I obviously had quite clearly stated that I indicated to
17 Dr Taylor that, over the 24-hour period, I felt he
18 [that is Adam] was in positive balance."

19 I think that might have been a slip.

20 A. Sorry, say that again. I thought you were going to put
21 it up on the screen.

22 THE CHAIRMAN: Sorry, you don't have ... Can we put
23 LiveNote on the screen?

24 MS ANYADIKE-DANES: "I obviously have quite clearly stated
25 that I indicated to Dr Taylor that, over the 24-hour

1 period, I felt he was in positive balance."

2 I think some clarification was sought as to whether
3 what you were saying is that you had told Dr Taylor that
4 you thought Adam was in positive balance.

5 A. No, negative balance.

6 Q. I thought it was a slip, but because it's on the
7 transcript I thought I'd better check it.

8 A. I think I needed my blood sugar raised.

9 THE CHAIRMAN: Okay.

10 MS ANYADIKE-DANES: Thank you.

11 MR UBEROI: I'm not sure if there's an issue with
12 Professor Savage's microphone, but it can be difficult
13 at the moment to hear. I just wanted to flag that up.

14 MS ANYADIKE-DANES: Professor Savage, I think I can move on
15 to some of the things I was going to ask you about urine
16 and all of that sort of thing because I think you've
17 made certain concessions or said what you think would be
18 the case now or what you think might have been
19 preferable to have been done then and so there's really
20 no point in going through all of that because you've
21 already said it. I'm not going to repeat that.

22 What I do want to try and address is exactly where
23 we are now, which is this issue of the deficit. I'd
24 like to firstly do that by way of asking you when you
25 saw, if you did in fact, a particular document.

1 I wonder if I could quickly call that up: 058-003-005.
2 This is part of the anaesthetic record showing his fluid
3 balances. It's a little bit sort of chopped off at the
4 top, but it says:
5 "Estimated blood volume: [I think that is] 1,600 ml.
6 Estimated fluid deficit of 300 ml and a calculated
7 intraoperative maintenance of 200 ml an hour."
8 What I would ask you is: when do you recollect first
9 seeing that document?
10 A. The first time I saw that document was obviously when
11 Adam was in intensive care.
12 Q. What did you make of the calculated intraoperative
13 maintenance at 200 an hour? Or maybe you --
14 A. I don't think I noticed it. When I was looking at it
15 when Adam returned to intensive care and we realised
16 just -- the critical situation, I think what I was doing
17 was adding up the volumes of fluid and realising that
18 they were quite excessive to my interpretation.
19 Q. I understand.
20 A. I don't know that I noticed the 200 ml per hour at
21 all --
22 Q. Thank you.
23 A. -- at that point.
24 Q. And if we stick with the idea of deficit, I wonder if
25 I could take you to witness statement 002/3, page 8.

1 Then I think it's in answer to question 2(i). Maybe
2 it's little L. Sorry, just give me one moment.

3 What you're saying --

4 MR FORTUNE: Do you mean "2 little L"?

5 MS ANYADIKE-DANES: Sorry, I corrected myself. I also
6 wasn't speaking into the microphone, sorry. Thank you:

7 "The oral fluid intake and fluid prescription which
8 I discussed on the night before surgery with the
9 consultant anaesthetist was affected by the fact that
10 the IV access was lost during the course of the night in
11 question. As a result, Adam got some 500 ml less fluid
12 than was originally planned and his total fluids
13 overnight were 970 ml."

14 Then if we move on to 19 in this same document.
15 I think it's question 11(e). Maybe it starts to go over
16 the page. No, sorry, this is not the same -- sorry.
17 002/2, page 19.

18 There we are. The query was in relation to
19 explaining the effect of Adam receiving the 952 ml of
20 clear fluid after admission instead of his normal
21 1.5 litres of Nutrison feed including -- and then
22 there's a whole series of things, and one of them was
23 whether this meant he was 550 ml in deficit.

24 And what you say to that is -- we start "at the
25 effect of", third paragraph from the bottom:

1 "The effect of receiving 952 ml of clear fluid after
2 admission rather than the usual 1.5 litres of Nutrison
3 feed and a small volume of intravenous fluids (58 ml)
4 meant that Adam was in relative deficit of 500 ml
5 compared to previous days. He would therefore have been
6 less well hydrated than usual and it is possible that
7 this may have resulted in some degree of
8 haemoconcentration which would have had the possible
9 effect of increasing his serum sodium concentration. In
10 normal circumstances, this deficit would have been
11 addressed by replacing the deficit by extending his tube
12 feed ..."

13 So there's a reference to you thinking he might have
14 been 500 ml in deficit. I think you have previously
15 said that both you and Dr Taylor thought that Adam was,
16 to a degree, in deficit, as he arrived for his
17 anaesthesia. If he was 500 ml in deficit, as you seem
18 to be indicating there, how quickly would you need to
19 address that deficit?

20 A. What I'm saying here was "possibly 500 ml in deficit",
21 his intake compared to previous days. That is obviously
22 an estimate because he had some peritoneal dialysis
23 overnight and that would tend to produce some resolution
24 of that.

25 Q. Yes.

1 A. So saying that he was 500 ml in deficit compared to
2 previous days was to give Dr Taylor a guide as to where
3 his fluid balance might be at that time. I think I said
4 before lunch that knowing that he might be in fluid
5 deficit, you would then be interested in the level of
6 his CVP when that was first measured because if he was
7 in significant deficit, then you would expect it to be
8 low.

9 Q. Forgive me, I will come to the CVP, but what I'm
10 interested in at the moment is how quickly you think
11 that it would have been appropriate to recover Adam from
12 that deficit.

13 A. That would depend on the CVP. If his CVP was normal,
14 you would not be rushing to replace it because it might
15 not be completely accurate. If it was high, you
16 wouldn't be giving him any extra fluid at all. If on
17 the other hand his CVP came back at 1 or 2, then you
18 would conclude he needs that 500 ml and give it to him
19 over the next two to three hours before the clamps are
20 released, so the whole fluid balance management in
21 theatre for a renal transplant is to ensure that the CVP
22 is running around 10 to 12 at the time that the clamps
23 come off. So you can't really separate the rate that
24 you would give it away from the measurement of the CVP
25 and that's why the CVP has been crucial to a lot of the

1 discussions in Adam's case.

2 Q. That's true, but in terms of the discussions you were
3 having with Dr Taylor, there's no record in particular
4 of those discussions being predicated by the CVP, is
5 there?

6 A. No.

7 Q. And in fact, I think in a couple of your witness
8 statements -- witness statement 002/3, page 40, and
9 I think it's the answer to question 38(a) you say:

10 "Addressing the deficit over 2 hours would be
11 reasonable."

12 I was going on to take you to that. In an earlier
13 statement, you thought that addressing that deficit over
14 two hours would be reasonable.

15 A. And if you go below that, it says:

16 "This is usually monitored by addressing the level
17 of the CVP."

18 You can't divorce the two things.

19 Q. No, I haven't tried to do that. What I'm trying to
20 address is your discussions with Dr Taylor and what I'm
21 saying is that, at the moment, what we have seen is that
22 you've had discussions with him about the fact that he's
23 in deficit and there are some indications of discussions
24 with him about how you might seek to address that
25 deficit. But I'm not sure that we have seen any record

1 anywhere of the fact that part of that was all
2 predicated on what he would find when he established the
3 CVP readings actually in theatre. Because some of this
4 is part of a plan that Dr Taylor is trying to put
5 together as to what his intentions will be. Obviously,
6 in something as unpredictable as the time to time of a
7 surgery [sic], that plan has to be adjusted, but
8 nonetheless there was a plan that he was discussing with
9 you as his approach, if I can put it that way.

10 If we now go to your witness statement -- I think
11 it's witness statement 002/3, page 39. Is it 37 (b)?:

12 "State the amount of fluid deficit which you
13 believed at the time was to be corrected by IV infusion.
14 The amount of fluid deficit which I believe was required
15 to be corrected by IV infusion during Adam's surgery was
16 approximately 500 ml."

17 Then I think maybe I was correct the first time that
18 there was a reference to the time period in the previous
19 page, 38. Sorry. Can we go back to 38?

20 What I'm looking for is where I think you suggest 1
21 to 2 hours.

22 A. I think I said 2 to 3 hours. However, that's a --

23 Q. Sorry, it's right at the top.

24 MR FORTUNE: It's also on page 40 as well.

25 THE CHAIRMAN: It's the last line above the letter (c).

1 MS ANYADIKE-DANES: Exactly:

2 "I believe that Dr Taylor then planned to make up
3 this deficit during the first 1 to 2 hours of the
4 surgical procedure."

5 So I understand what you're saying about the
6 significance of the CVP measurement. What I'm putting
7 to you is you were having these discussions with
8 Dr Taylor because he is trying to formulate his plan
9 going in, if you see what I mean, even if that
10 ultimately has to change. And it seems that you are
11 conceding that you were aware of the fact that Dr Taylor
12 was going to make up that deficit and the deficit that
13 we seem to be talking about is somewhere in or around
14 500 ml over a period of 1 to 2 hours; would you agree
15 with that?

16 A. Well, I don't know that I can agree with that. You've
17 just shown me a document from theatre which says that
18 Dr Taylor estimated the deficit was 300 ml. And I have
19 said in another statement that I thought it might be
20 replaced over 2 to 3 hours. So some of this is because
21 of the fact that, not only in the oral evidence, but
22 in the written evidence, if you keep asking the same
23 question recurrently, you don't always get an identical
24 answer.

25 When I say I believe that Dr Taylor planned to make

1 up this deficit during the first 1 to 2 hours, I don't
2 recollect that he ever told me that, therefore I can't
3 recollect why I've written "1 to 2 hours" there and "2
4 to 3 hours" somewhere else.

5 THE CHAIRMAN: If you just go four lines up. You say there:

6 "I wish to emphasise again that I do not remember
7 details and I can only state what I believe I would have
8 discussed."

9 A. Thank you.

10 THE CHAIRMAN: I understand this is your best effort to
11 piece together, some years afterwards, what you think
12 was happening, did happen, and what you would have
13 discussed.

14 A. Yes, and when I say I believe that Dr Taylor planned to
15 make up this deficit during the first 1 to 2 hours,
16 I may have formed that conclusion having seen
17 subsequently the fluid balance sheet in theatre where he
18 did indeed try to make up it over 1 to 2 hours. It may
19 not have been what I understood at the time. I'm sorry.

20 MS ANYADIKE-DANES: No, no, there's nothing to be sorry
21 about. We can only get the best evidence that we have.
22 There's nothing to apologise about.

23 Can I ask you a slightly different question, but
24 in the same area? I think, a number of times, that
25 you have said that getting Adam well or as well as he

1 could be got to the operating theatre for his
2 anaesthesia was your responsibility.

3 A. Yes.

4 Q. You and your team's, if I can put it that way, and you
5 are the consultant, so it is your responsibility; would
6 that be fair?

7 A. Yes.

8 Q. I think you have conceded -- conceded is the wrong word.
9 I think it would appear to be the case that you required
10 Adam to be in deficit, whether it's the 300 or 500,
11 you have put it variously. But whatever it was, you
12 seem, at that time, to have formed the view that he was
13 in deficit. So he wasn't entirely neutral, in other
14 words, optimum [sic], if I can put that way.

15 A. I was warning Dr Taylor that it was possible that he was
16 in deficit.

17 Q. Yes, I am coming to that. When you were doing that,
18 since your intention would actually have been to have
19 got him to Dr Taylor not in deficit -- that's not
20 a criticism, things happened over the course of the
21 evening and that's how it happened. But since your
22 intention would have been to get him to Dr Taylor not in
23 deficit, can I ask what was the conversation, so far as
24 you can recall, that you would have been having with
25 Dr Taylor about what you thought ought to happen?

1 Because you've now presented your patient to him not
2 quite as you would have liked to.

3 A. What I would have expected to happen was that the CVP
4 would be monitored and, prior to the clamps coming off,
5 that you would be sure that the CVP was running at 10 to
6 12. That would tell you he was now in the correct fluid
7 situation to fill an empty kidney. And that is the
8 responsibility of the people in theatre.

9 Q. That I understand. But your responsibility is to get
10 him to Dr Taylor, so far as it can be done in all the
11 circumstances, in an optimum position. And you have got
12 him to him slightly in deficit according to your belief
13 at the time. All I'm asking you is: having done that,
14 do you have a conversation about how quickly that could
15 or should be recovered or is your conversation confined
16 to: well, see what happens when you set up his CVP and
17 you get the values?

18 A. My conversation is that I give Dr Taylor or whoever the
19 anaesthetist is the best information I can give them,
20 and I hand Adam over to their care and I would expect
21 that they would then manage the situation in relation to
22 the CVP, blood pressure, et cetera. That's what
23 anaesthetists do day and daily.

24 Q. I'm not saying that. So, so far as you are concerned,
25 you wouldn't have been having a conversation with him --

1 A. I would not have been telling him --

2 Q. -- what he had to do about the deficit; you'd be simply
3 telling him that there was a deficit?

4 A. That there was a possible deficit. I wouldn't be
5 telling him how to manage that situation.

6 Q. Thank you. Something else that you were seeking to
7 assist us with, which was actually when you were in the
8 hospital and when you were having the conversations that
9 you had with people. And we know that you had telephone
10 conversations with Dr Taylor and Mr Keane in the evening
11 of 26 November and you have said that you thought your
12 best recollection is that you left the hospital around
13 about 2 o'clock, having taken the consent from Adam's
14 mother. Then you weren't entirely clear yesterday when
15 you might have come back, I think that would be fair to
16 say.

17 You also said that it would be very often your
18 practice to go with the child to theatre, but you
19 couldn't exactly remember whether you had done that with
20 Adam; is that fair?

21 You do, though, seem to indicate in your witness
22 statements that you had some conversations with
23 Dr Taylor on the way to the theatre. If I help you with
24 that, I think the first one is witness statement 002/2,
25 page 20. It's the answer to question 11(i):

1 "I further informed Dr Taylor, consultant
2 anaesthetist, of the difficulty with the intravenous
3 fluids overnight when we met at the time of Adam's
4 transfer to theatre."

5 Then you find, of course, that he's already had that
6 discussion with Dr Montague. So there seems to be an
7 indication from you that you met Dr Taylor at the time
8 of Adam's transfer to theatre. And there's another
9 witness statement where you say something rather
10 similar. You say in your witness statement at 002/3,
11 page 38, I think it's question 35 where you say:

12 "[You] believe at the time of transfer to theatre
13 that [you] and Robert Taylor discussed that there was
14 a fluid deficit of about 500."

15 I think it's the third substantive paragraph
16 under (d):

17 "While there is no clinical note in relation to
18 post-dialysis assessment, I would have been aware that
19 Adam had received 970 ml fluid overnight. Undoubtedly,
20 there was a discussion between myself and Dr Taylor that
21 he was some 500 ml in deficit since in the normal
22 evening Adam would receive --

23 MR UBEROI: May I rise again? Perhaps to add the context to
24 the answer at the top of the page, which is I think what
25 you quoted earlier:

1 "I wish to emphasise again I do not remember details
2 [et cetera]."

3 MS ANYADIKE-DANES: Thank you.

4 Then just in fairness to the --

5 THE CHAIRMAN: Sorry. Ms Anyadike-Danes, is it your point
6 that while the professor said in these statements
7 a number of times, "I can't remember exactly", he has
8 gone on to say things like -- in fact, in this extract
9 he says, "There undoubtedly was some discussion". So
10 it's not that you can't -- as I understand it,
11 professor, it's not that you can't -- that there wasn't
12 a discussion --

13 A. It's that I don't remember the precise detail.

14 THE CHAIRMAN: But there was, undoubtedly, a discussion.

15 A. Yes. And no matter what time I came back to the
16 hospital -- whether it was, you know, 6.40, 6.45,
17 6.50 -- what I certainly did was meet with
18 Professor Taylor in theatre shortly after Adam was
19 there.

20 MS ANYADIKE-DANES: Just in fairness, one quick point to put
21 the thing in the round. In your witness statement at
22 002/3, page 40 -- I think it starts at page 40. It may
23 actually go on to the next page. I think the answer
24 you're giving is that you don't believe you did discuss
25 the speed with which the deficit should be made up with

1 Dr Taylor or anyone.

2 A. Yes, I've already said that.

3 Q. For the purposes of the record, I'm identifying where
4 you have said that in your own statements.

5 THE CHAIRMAN: Thank you.

6 MS ANYADIKE-DANES: Only in fairness. Since there was
7 mention of 1 to 2 hours and all that sort of thing,
8 I thought it fair to put the places where you said you
9 didn't.

10 Can I ask you something else that's an issue, and
11 that's the effect of the peritoneal dialysis,
12 in relation to two things, really? One, the serum
13 sodium concentration and, secondly, his fluid balance.
14 In your view, what's the effect of it?

15 A. Well, obviously peritoneal dialysis, the entire design
16 of peritoneal dialysis and the nature of the fluid that
17 Baxter Healthcare have developed and that is used
18 throughout the world, indeed, is that the sodium content
19 of the fluid and the dextrose content of the fluid
20 produces a situation whereby it tends to normalise the
21 sodium and tends to normalise the fluid balance.
22 I think I've said that in a statement: that if you were
23 relatively fluid overloaded, the nature of that dialysis
24 fluid is that it removes fluid from the patient. If
25 they are relatively dehydrated then some fluid from the

1 peritoneal dialysis fluid tends to move to the patient,
2 or at least does not remove any fluid. And similarly,
3 with the sodium, the sodium across a semi-permeable
4 membrane, which is what the peritoneum is, tends to
5 equilibrate across that so that if you have a high
6 concentration on one side and low on the other, if you
7 continue the peritoneal dialysis for a sufficient time,
8 the two sodium levels will equilibrate, and the nature
9 of the fluid that Baxter have developed is such that it
10 should produce a sodium that is in the normal range or,
11 at least, at the lower limit of the normal range.

12 Q. Yes.

13 A. So my feeling is that, after peritoneal dialysis, it
14 should have helped balance his fluid and it should have
15 helped keep his sodium -- or should have made his sodium
16 normal. And I think I've said that in a statement.

17 Q. You have said that, but I was simply getting you to
18 articulate that in light of the fact that you thought
19 Adam might have been in deficit. I wonder, though, even
20 though you thought that that might be the effect, and
21 you were concerned that he was in deficit to whatever
22 degree, it's still the case, isn't it, that you wanted
23 his electrolytes to be tested?

24 A. Yes.

25 Q. You were quite clear about that. I think you had

1 understood the reason why they weren't done when you
2 thought they might be done, but I think, throughout your
3 statements, your continuing view is that they should be
4 done.

5 A. Well, I ordered them to be done.

6 Q. Yes, and in fact if we go to witness statement 002/3,
7 page 14, it's the answer to (b)(i):

8 "Attention was given to the need to maintain
9 a similar fluid and electrolyte input to that which Adam
10 normally received."

11 Okay:

12 "I was aware that Adam's sodium level was normal on
13 the evening of 26 November. When his transplant
14 anaesthetic team until the following morning, I made it
15 clear to Dr Taylor that it was important that his sodium
16 and electrolytes were checked immediately prior to
17 theatre."

18 Now, that can't be much clearer than that. Can you
19 help, though, with when you said that? It was obviously
20 going to be some time after you knew that the surgery
21 was delayed. Is that part and parcel of the
22 conversations that you might have been having on your
23 way with him to theatre?

24 A. On the way to theatre? No. I think that I had planned
25 that his electrolytes and urea would be checked prior to

1 him going to theatre, but we knew that his venous access
2 had gone and therefore I think what I'm trying to say
3 is that I was making it clear to Dr Taylor that once he
4 had got to theatre, we should then check his urea and
5 electrolytes then. When it says here:

6 "I made it clear to Dr Taylor that it was important
7 that his sodium and electrolytes were checked
8 immediately prior to theatre."

9 I don't have a clear memory that I said those very
10 words, but I've written it down at that time.

11 I certainly made it clear that it was important from my
12 point of view to have his sodium and electrolytes
13 checked, and that is why I ordered them and why I agreed
14 with Dr Taylor that them not having been done, that they
15 would be done shortly after he went to theatre.

16 I would say, of course, that I expected them to be
17 reasonably normal, but I wanted to be sure.

18 Q. Why was it important from your point of view? Because
19 at the time it's going to happen, he's just on the cusp
20 of passing from your care to Dr Taylor's care, so why
21 was it important for you?

22 A. Well, you've already said that my responsibility was to
23 make sure that he got to theatre in the best state
24 possible for this surgery, and therefore that was the
25 end of my responsibility so that I could be happy in my

1 own mind that his sodium was normal.

2 Q. Well, if that had happened at that stage, you wouldn't
3 be getting the result back at a time when you still had
4 care of him.

5 A. What's the --

6 Q. Because I think what you then --

7 MR FORTUNE: I'm not sure I understand the question because
8 it depends how the --

9 THE CHAIRMAN: Excuse me, Mr Fortune. I think your client
10 was asking for a clarification of the question, which
11 I assume Ms Anyadike-Danes was about to give.

12 MS ANYADIKE-DANES: Yes. What I thought you had said was
13 that why it was important for you is it was part of your
14 last part of handing over for you to satisfy yourself
15 that he was in the appropriate condition. Well, unless
16 those results were coming back instantaneously from the
17 laboratory, I think the final position on the testing
18 is that his bloods would be tested when he was in
19 theatre and he had got access to him because, of course,
20 he had been upset with lines and so on and so forth
21 earlier, which was the reason why they hadn't done it
22 before. So if it was happening then, then he's already
23 in the care of the transplant team and, in any event,
24 you wouldn't getting a result back in time for you to be
25 satisfying yourself about anything prior to care having

1 moved.

2 So once he was not going to have those electrolytes
3 carried out over the evening of the 26th or in the early
4 hours of the morning, but that was put back for various
5 reasons, which are discussed, to when he is in theatre
6 and is being anaesthetised and lines are being put in
7 and so forth, was it still important for you to know?

8 MR FORTUNE: Sir, this question is predicated on the basis
9 that the U&Es are going to be tested in the laboratory
10 and not in any machine close to theatre, in which case
11 there is a very different timescale.

12 MS ANYADIKE-DANES: We'll go to whether you thought they
13 were going to be tested in a laboratory or not.

14 A. Can I just say something?

15 Q. Yes.

16 A. If you're looking after a child and you feel it's
17 important for the electrolytes to be done, it's not
18 important that I personally know the result, but that
19 the person who has taken over his care has the result.
20 So the electrolytes would have been done. I would have
21 probably been interested to know what they were, but
22 also Dr Taylor would have been interested to know what
23 they were.

24 Q. Exactly, professor. That was precisely the point I was
25 trying to get at: that, in fact, at that stage, the true

1 benefit of those results is for Dr Taylor because it
2 should be assisting him in his fluid management; isn't
3 that right?

4 A. Yes.

5 Q. Thank you.

6 A. It's also true what Mr Fortune says: that you could have
7 had a sodium check both on the blood gas analyser and
8 in the central laboratory and had it fairly quickly.

9 Q. Yes, you could.

10 A. I thought --

11 Q. What did you think they were going to do?

12 A. I thought they would go to the laboratory.

13 Q. Yes, thank you. I thought you had said that earlier.

14 A. Yes.

15 Q. In fact, I don't think you include the laboratory part
16 of it, but in your witness statement at 002/3 at
17 page 39, I think you say that your understanding was
18 that once Dr Taylor had established IV access in
19 theatre, a blood sample would be drawn and that that is
20 what would be tested.

21 You have spoken about the importance of the CVP.
22 Once the central line is in and the CVP is being
23 measured, in terms of relative importance to Dr Taylor
24 at that time -- this is for the purposes of fluid
25 management, what was the continuing importance, if I can

1 put it that way, of the electrolyte result?

2 A. In relation to the CVP?

3 Q. When we were previously talking about how quickly he
4 might have to redress the deficit, you said the really
5 important thing is to get the central line in, get the
6 CVP readings coming and then you can take a sense of how
7 he is from there. But on the other hand you have
8 a different kind of measurement in terms of his serum
9 sodium measurement. What I am seeking to ask you is
10 that both of them, you have said, are important, but --

11 A. The time differential.

12 Q. Yes, exactly. Does one assume greater importance than
13 the other in trying to adequately manage Adam or is it
14 just something that you have to have both of them,
15 really?

16 A. You'd like to have both of them, but of course as soon
17 as Adam arrived in theatre, he was induced
18 intravenously, so Dr Taylor was able to get a peripheral
19 line in and, at that point, you could have sent a blood
20 test to the laboratory and then you would have moved on
21 to do the other things he was doing: getting the central
22 line in, which he had some difficulty doing, as we know,
23 and setting up the epidural and so on. So by the time
24 those things were complete, you would hope that you
25 would have had a result back from the lab.

1 Q. Yes. And at that time, I think you had previously said
2 that you thought there would be a turnaround time of
3 about an hour; is that right?

4 A. Mm.

5 Q. If you needed it sooner than that, in your experience,
6 could you get it? Could you make a phone call or ask
7 for a phone call? Could you get it sooner than an hour?

8 A. I certainly have had it sooner than an hour.

9 Q. Thank you.

10 A. But I think if Professor Savage phones up and says,
11 "I need this desperately", it might be slightly quicker
12 than if an SHO phoned up, it has to be said.

13 Q. Sorry, I was talking about from theatre.

14 A. From theatre? I would think that of someone in theatre
15 phoned up and said: we have this child in theatre, we
16 need his sodium urgently, you might have got it back
17 slightly quicker, yes.

18 Q. Yes. You have just reminded me about something I wanted
19 to ask you in relation to the electrolyte results. The
20 electrolyte results that come back from the blood that's
21 tested at 9 o'clock, I think it is, on the 26th. That's
22 the 139 millimoles, for which there is no blood
23 laboratory result in his notes and records. When you
24 were talking about the DLS sending things subsequently,
25 we have had a subsequent lab result, which relates to

1 a blood test, which was taken -- it's difficult to be
2 precise about it because you don't know, but some time
3 later, maybe 11 o'clock when he was being seen. It's
4 difficult to say. In any event, that result is
5 133 millimoles. So it's going down.

6 Do you recall whether that was -- whether you saw
7 that or were aware of it?

8 A. No, I don't. And in fact, of course, the 139 may have
9 been 134.

10 Q. Well, I think we have sought the witness evidence on
11 that, and I think that Dr O'Connor has -- no, Dr O'Neill
12 recorded it and I think Dr O'Connor has conceded in her
13 witness statement that she incorrectly transcribed that
14 on to the transplant form. She thought an open 9 was
15 a 4, if I can put it that way, but I think both she and
16 Dr O'Neill have conceded that the correct value is
17 139 millimoles. So we have 139 millimoles from bloods
18 roughly about 9 o'clock and we have 133 millimoles from
19 bloods taken some time much later on.

20 A. I have seen that.

21 Q. But you had not seen that. You have seen it since?

22 A. Yes.

23 Q. But you didn't see it at the time. Were you even aware
24 of it?

25 A. I don't think so. I don't know when that blood was

1 taken, but remember he had bloods taken when he arrived,
2 which went off to tissue typing and so on.

3 Subsequently, it is possible, and again I wasn't
4 directly involved, that somebody was trying to put an
5 intravenous line on him and may have obtained some blood
6 at that stage and it was sent off then.

7 Q. Yes.

8 A. I don't know what the time difference on those things
9 are. That line that was obtained subsequently in the
10 evening, if you remember. It only lasted a very short
11 period of time and he only got 18 ml. And I know
12 there's been a question of why there was no fluid
13 prescribed at that time, and it's possibly because the
14 drip tissued and therefore there was no point in
15 prescribing it.

16 Q. I was thinking more of the serum sodium result. Had you
17 known it was 133, would it have made any difference?

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

19 Q. Thank you. One other thing I was asked to pick up with
20 you, and that is -- I won't go through the whole thing
21 about Mr Brown and how he came to be in the team. It
22 rather seems as if he volunteered himself from one of
23 his witness statements. There is one point that I --

24 A. Can I make one point about Mr Brown? I just wanted to
25 say after all the questioning yesterday -- and I was

1 tired at the time -- there was nothing Machiavellian
2 about Mr Brown being involved in theatre. He's a senior
3 surgeon who's offering to help the transplant surgeon
4 rather than a registrar. It probably seemed to
5 everybody this was a good idea, and he also had, as
6 you know, previous experience of Adam. And I apologise
7 to Adam's mother that I apparently did not inform her of
8 that or get her permission, but it wouldn't generally
9 have been our habit to tell people who the assistant and
10 so on was. I can see, reading things now, that that
11 distressed her subsequently and I apologise for that.

12 Q. Thank you very much.

13 A. But I think it was -- I probably felt it was probably in
14 Adam's best interests to have a senior surgeon working
15 with the transplant surgeon and that was probably the
16 reason for it or the reason for my thinking about it.

17 Q. I think the general tenor of the questions were twofold:
18 one, how did he come to be in the team; and, secondly,
19 why she wasn't told about it? I think that was the
20 general drift of it. What I had been asked to make sure
21 I've clarified with you is: when you came out of
22 theatre -- I'm not entirely sure when you came out of
23 theatre; I'm going to ask you about that in a minute.
24 But whenever it was -- it doesn't matter -- you came out
25 of theatre, you were going to go to your university

1 duties and you spoke to Adam's mother and you gave her
2 a little bit of an update, if I can put it that way, as
3 to what was going on and reassure her, I presume. But
4 you told her then that Mr Brown was the assisting
5 surgeon and one of the points I'm asked to clarify
6 is: well, why did you?

7 A. I don't know. I possibly said to her, "We've got a good
8 team, we've got the transplant surgeon and one of the
9 senior consultants, Mr Brown helping", and then it
10 transpired, of course, that she wasn't particularly
11 happy about that. And that is why I say I'm sorry
12 I caused her that distress.

13 Q. I understand that. I do understand and I'm sure she
14 appreciates the way that you've put it, but what I'm
15 trying to understand is that if the purpose of telling
16 her that would be to give her some comfort: look, don't
17 worry, we've got a good team, one might think that the
18 time to do that is when somebody is either giving their
19 consent or they are being given there further
20 information. That's the time they need greatest
21 comfort, they're about to decide yes, no, and you might
22 think that would be the time that they would like to
23 know who their full team is going to be. You had
24 already said there was going to be a paediatric
25 consultant surgeon, but in any event, you're not sure

1 why you told her that at the time?

2 A. I'm not sure I told her one thing at one time ...

3 Q. Yes. If we just go now to the phase when you're in the

4 operating theatre. You did say a little while ago that

5 you were in the operating theatre at that early stage,

6 I think.

7 A. Mm.

8 Q. So you've had some conversation with Dr Taylor en route

9 to theatre and some time after Adam is in theatre,

10 you're in theatre.

11 A. Well, I think most likely I had that conversation --

12 Q. In theatre? I'm sorry. In theatre.

13 A. Do you remember? He went straight into theatre.

14 Q. He did. He didn't go into the anaesthetic room, no. If

15 you had that conversation with him in theatre, was Adam

16 there?

17 A. I would think so. I can't remember. I would think so,

18 yes. I know that Bob Taylor was there for an hour

19 beforehand going over his notes, making various

20 calculations and so on.

21 Q. Is that where he went over the notes, in theatre?

22 A. I don't know, but I've read that he says that he went

23 through the notes in detail before --

24 Q. Sorry, if you could help me with the bits that you do

25 remember. If you were in theatre then, so far as you're

1 concerned, was Dr Taylor going over his notes in
2 theatre?

3 A. I think when I saw Dr Taylor, Adam was already in
4 theatre.

5 Q. Right. That's what I thought. So Adam's already in
6 theatre. Is he anaesthetised at that stage?

7 A. I don't remember. I think as soon as Adam got to
8 theatre, he was anaesthetised because, of course, he had
9 unpleasant memories of being to theatre many times and
10 I'm sure that what happened is that Dr Taylor made sure
11 he was asleep as soon as possible so that he wasn't
12 there distressed.

13 Q. What had you gone in at that stage for?

14 A. I'd gone in just to liaise with Dr Taylor that he -- any
15 information he needed, he had available to him.

16 Q. Did he ask you for anything?

17 A. I don't think so. Not that I remember.

18 Q. Can you recall what was actually going on when you were
19 there?

20 A. No.

21 Q. Can you recall who else was there?

22 A. No.

23 Q. Can you recall how long you stayed, roughly?

24 A. I don't remember. I probably would have stayed for
25 15 minutes or so. But, obviously, at that stage for the

1 anaesthetist, he has a lot of work to do: he has
2 a central line to put in, he was talking about an
3 epidural so he didn't need someone ...

4 THE CHAIRMAN: Need you hanging around?

5 A. Yes. So having checked that he felt he had all the
6 information he needed, I would have withdrawn and let
7 him get on with the essential things that he had to do.
8 But I wouldn't have gone very far away.

9 MS ANYADIKE-DANES: Did you go back in again?

10 A. Yes, I was in and out, I think, during the next hour or
11 two.

12 Q. Dr Taylor actually says that he wouldn't have agreed to
13 do the procedure unless he had the full and experienced
14 team, including nephrologists all gowned up and
15 surrounding him. I will give you the quote for that.
16 I will draw that to your attention, Professor Savage.

17 A. I think you did ask me in the written evidence if it was
18 my normal practice to be gowned up and the answer to
19 that would be no.

20 Q. You did pop in and out --

21 A. I'd be in theatre blues and have a head covering on and
22 a mask probably.

23 Q. Yes. Do you recollect how many times you were in and
24 out?

25 A. I don't.

1 Q. A number?

2 A. Probably, yes.

3 Q. What were you going in and out to do?

4 A. Just to be available if anyone wanted to ask me anything
5 or wanted any information. And, primarily, so that
6 I could go back at some stage and say to Debra Strain,
7 "Things are moving ahead in theatre, Adam's fully
8 anaesthetised, he is fast asleep and they're about to
9 start the surgery", and again I don't remember whether
10 I spoke to the Strain family once or twice, but usually
11 I would speak to them once or twice in that sort of time
12 period. But really all I would be saying is, "Things
13 seem to be going ahead satisfactorily", which was the
14 information I was perceiving from my visits to theatre.
15 So it's a supportive role; it's not an active clinical
16 role.

17 Q. I understand that. I think Dr Coulthard has referred to
18 it as a holistic thing.

19 A. I think --

20 Q. I think he literally called it that, a holistic role.

21 A. And I think -- we have asked other centres: do they
22 spend time in theatre during transplants? And it would
23 appear that not all of them do or, indeed, visit the
24 theatre.

25 Q. Although I think that Dr O'Connor would say that that is

1 rather her practice now.

2 A. It is.

3 THE CHAIRMAN: Have there been times in previous operations
4 or transplants when you have been there and questions
5 have been asked of you about historical patterns and
6 traits in a particular child?

7 A. It's possible. I must say, the information's usually
8 the other way. That I'm going in and saying to the
9 transplant surgeon, "Is everything fine? Are you nearly
10 at the point of taking the clamps off? Has the kidney
11 pinked up?", and the other role is just to make sure
12 that the immunosuppression drugs you give at the time
13 the clamps come off are given.

14 THE CHAIRMAN: So when you're in, are you typically in for
15 just a minute or two, you're not there for 10 to
16 15 minutes?

17 A. You might be if you had nothing else to do. I would
18 often be there for 10 or 15 minutes, yes.

19 MS ANYADIKE-DANES: Who are you typically liaising with when
20 you're there?

21 A. Usually the anaesthetist and, occasionally, the surgeon.

22 Q. We have seen some photographs -- I think when I was
23 opening -- to see the layout of the operating theatre,
24 and the anaesthetist up with the equipment, the
25 machinery end. Is that where you would go over there

1 and have a word with the anaesthetist?

2 A. I think it was a Google picture.

3 Q. There were a number of those.

4 A. Yes. It's the same sort of set-up. Everybody's very

5 close.

6 Q. Yes. That's the point. Did you have a look at what was

7 going on as well as ask a few questions? I'm trying to

8 find out what your typical modus operandi would be, if

9 I can use that expression.

10 A. I might. You mean how nosey I am?

11 Q. From what you said, you're actually trying to get a

12 sense of [OVERSPEAKING] so you can convey that on to

13 the family.

14 A. Yes, if everything is going smoothly.

15 Q. That's the point.

16 A. And, actually, for my own benefit as well. I want to

17 know that everything is going well.

18 THE CHAIRMAN: Sorry, if there's cross-talking, the

19 stenographer can't record anything.

20 MS ANYADIKE-DANES: That was my fault, Professor Savage.

21 What I had put to you is -- I presume the point is

22 you're trying to get a sense of things so that you can

23 accurately convey information to the family.

24 A. Yes, I want to be happy that things are going along

25 relatively smoothly and -- both from my own point of

1 view and so I can say to the family, "Things are going
2 well". Obviously, when your child is in theatre for 3,
3 4, 5 hours, you're going to be worrying yourself sick.
4 So it's useful if someone comes along and says, "Things
5 seem to be going okay", or, "It's a bit slower than
6 usual, but we're getting there".

7 Q. But the other thing, of course, is that at the time of
8 Adam's renal transplant surgery, there hadn't been that
9 many of children of his age before him. Might there not
10 have been a professional interest as well to see what's
11 going on as well as your own concern for him as
12 a patient who's been in your care since he was about
13 3 months-old?

14 A. Yes. Well, there's a sort of idea that I might be more
15 interested in a 4 year-old than an 8 year-old, but ...

16 Q. No. I'm not certainly not saying that. I was putting
17 it to you in two ways: one, there weren't that many so
18 one takes the opportunity to see what's going on just
19 for scarcity; and, secondly, you had described him as
20 a little boy to whom you had affection for since -- I'm
21 not saying you don't for any of your others, but he'd
22 been in your care since he was about 3 months old,
23 wasn't he?

24 A. Yes.

25 Q. So that might have been another reason for wanting to

1 satisfying yourself, so far as you could, as to what was
2 actually going in in there. Would that be a fair way of
3 putting it?

4 A. Yes.

5 Q. What was your sense of what was going on?

6 A. Everything seemed to be fine. That's what I was told.

7 Q. Did you look at anything yourself?

8 A. Up until 9 o'clock, I didn't have any concerns that
9 there was any problem.

10 Q. Had you got any idea of what was happening at the fluid
11 administration end, if I can put it that way?

12 A. No, I didn't.

13 Q. If fluids had been administered at a rather speedier
14 rate than you would have expected, is there anything
15 that would enable you to detect that?

16 A. Not directly, unless someone told me. If someone said
17 to me, "We've given him a litre of fluid in the first
18 hour", then I would have probably thought I needed to
19 think about that, but that sort of communication didn't
20 happen.

21 Q. And given the significance that you had earlier
22 mentioned of the CVP, was there any indication from
23 anybody that the CVP recordings had proved a little
24 problematic and, in fact, weren't being relied upon at
25 all?

1 A. I don't remember being told that at all.

2 Q. Whilst you were there -- not literally, but all the
3 times you were there -- had you got any sense of the
4 actual personnel there: the people, how many they were
5 and what they were doing? Let me help you with that.
6 It's a very open question.

7 A. I'd have known there's a surgeon and his assistant and
8 anaesthetist, someone working with them.

9 Q. What about nurses?

10 A. And nurses. There would be a scrub nurse who was
11 totally engrossed in the thing and another nurse who
12 would be giving her instruments or whatever she needed
13 and doing swab counts and so on as they used swabs up.

14 Q. Could there have been a third nurse?

15 A. Are you going to ask me if there was an anaesthetist
16 nurse? I don't know.

17 Q. I wasn't going to put it that way because you'd have to
18 know that that is what that person was. I was simply
19 going to ask you: could there have been a third nurse?

20 A. I thought about that because I know that you've been
21 interested in it. I don't know why you're so interested
22 in it because I don't know that we designated people as
23 an anaesthetist nurse in those days. There are now
24 quite sophisticated anaesthetist nurses and anaesthetist
25 nurse practitioners, but I don't know that there were in

1 those days. Then, of course, I didn't work in theatre.

2 THE CHAIRMAN: Professor, we're interested in it because

3 we were told in some statements that there was an

4 anaesthetist nurse.

5 A. That there was?

6 THE CHAIRMAN: Yes. That's why we're interested. We are

7 not interested in it for fun. We are interested in it

8 because some statements we received said there was an

9 anaesthetic nurse and one of the queries we've had is

10 whether this is somebody using 2011 terminology

11 backwards or whether there was, in fact, a person who,

12 however described, was filling the role, which is now

13 described as anaesthetist nurse.

14 A. Who would have been an assistant to the anaesthetist,

15 you mean?

16 THE CHAIRMAN: Yes.

17 A. As opposed to working with the surgeons? I don't know

18 the answer to that.

19 THE CHAIRMAN: I'm just explaining. When you were saying

20 you don't know why we're interested in it, that's why

21 we're interested in it.

22 A. It was a bit unfair of me to say that. I think what

23 I meant was that the terminology "anaesthetist nurse"

24 may not have been in common use then.

25 THE CHAIRMAN: There's a point about who, apart from

1 Dr Taylor, who was doing the anaesthetics. I think
2 that's the --

3 A. I can't answer.

4 MS ANYADIKE-DANES: That's rather why I put it as, "How many
5 nurses"?. I wasn't seeking to call them "anaesthetic"
6 or anything. I thought we would get round that problem
7 by seeing --

8 A. I apologise for pre-empting --

9 MR FORTUNE: Sir, there can be no suggestion that
10 Professor Savage was seeking to take the matter lightly,
11 but there is of course --

12 THE CHAIRMAN: I'm not accusing him of that, Mr Fortune.
13 You can relax. He seemed to be -- look, I will let it
14 go. I'm not accusing him of that.

15 MR FORTUNE: Thank you, sir.

16 A. And I wasn't taking it lightly.

17 THE CHAIRMAN: I understand.

18 MS ANYADIKE-DANES: In any event, I can't remember your
19 answer. Can you remember whether there was a third
20 nurse or not?

21 A. I don't and you'd better stop smiling at me, or I'll
22 be ...

23 THE CHAIRMAN: Okay. Let's move on.

24 A. No, I don't, I don't recollect this was a specific
25 anaesthetist nurse. I don't remember that.

1 MS ANYADIKE-DANES: Thank you.

2 Was there ever a time when you went into the
3 operating theatre and there was less than two
4 anaesthetists, so far as you can recall?

5 A. I couldn't answer that.

6 Q. These are your perceptions. I appreciate that I'm
7 asking for them considerably after the event. But so
8 far as you can help us, was there anything different
9 about the mood or the way the surgery was proceeding, so
10 far as you could tell, from anything that you would have
11 seen in any other time when you have been in an
12 operating theatre?

13 A. No.

14 Q. Thank you. You had your university duties and so you
15 weren't going to be able to stay for the entire period
16 of his surgery. When did you first know that? Sorry.
17 When did you first appreciate that that might be the
18 implications of when his surgery started?

19 A. Well, I know you have asked me this in the written
20 evidence as well. I always knew I was on call for the
21 weekend and I always knew that I would have work to do
22 in the university on Monday morning and I always knew
23 over that weekend period that Dr O'Connor would be
24 coming in at 9 o'clock.

25 Q. Can I ask you then: did that require a briefing to

1 Dr O'Connor from you?

2 A. Yes, Dr O'Connor and I would have discussed what had
3 happened the previous evening and what was happening
4 that morning in theatre when we talked to each other.
5 It's like so many things: we didn't record what we said
6 to each other.

7 Q. I understand that.

8 A. But of course, I wasn't far away. If you remember,
9 you have a map which shows where the laboratory is. My
10 university office is just beside that. It's not very
11 far away and I have a bleep and a telephone, so although
12 she was the person who's calling in and out of theatre
13 by that time, I was readily available if needed.
14 I would have dropped everything, as I did when
15 Dr O'Connor phoned me late in the morning and said that
16 there was a problem. I was back very quickly, as you
17 can imagine.

18 Q. I understand. There was a reference I couldn't find,
19 which my learned junior has now found. That's
20 093-038-126. This is Dr Taylor's PSNI statement under
21 caution and he says:

22 "In a long case lasting over 4 hours, it is not
23 possible to provide patient safety with a single
24 anaesthetist. I only agreed to provide general
25 anaesthesia for Adam if an experienced senior registrar,

1 Dr Montague, experienced theatre nursing staff and with
2 ready access to experienced surgeons and nephrologists
3 who were in theatre dress and present beside me in
4 theatre for large parts of the procedure."

5 If we just pause there. Please say if you don't
6 remember well enough to answer, but how would you
7 classify the amount of time that you were actually
8 spending as you went in and out to satisfy yourself as
9 to what was going on in terms of the requirement that
10 Robert Taylor has described?

11 A. Well, I wasn't in theatre constantly, but I was very
12 close to it, so if he had ever needed me, I could have
13 been there within the minute.

14 Q. I understand that, and please believe me, this is not
15 intended to be a criticism. I'm just trying to see
16 where the perceptions of two people are.

17 A. I'm just trying to tell you --

18 Q. He's put it that he wasn't going to do it unless -- if
19 I leave out everybody else --

20 "Nephrologists who were in theatre dress and present
21 beside me in theatre for large parts of the procedure."

22 I'm trying to get a sense --

23 MR UBEROI: He's also stated "ready access". Sorry to split
24 hairs, but I think it's important.

25 MS ANYADIKE-DANES: Yes, ready access. When you described

1 your pattern of going to check up on what's going on,
2 does that -- how does that equate to how Dr Taylor has
3 put it?

4 A. Well --

5 Q. That's all I'm trying to get a sense of.

6 THE CHAIRMAN: I think the professor is saying he's either
7 in the theatre or he is within a minute's call, so he's
8 either in the theatre or there's ready access.

9 MS ANYADIKE-DANES: It wasn't that. It was the duration of
10 time when you are in the theatre. That's what I'm
11 trying to get a sense of. I understand that you have
12 ready access, your office is close by. I'm trying to
13 get a sense of the periods of time when you do go in,
14 roughly, what sort of time are you staying there for?

15 A. I don't remember, but I would be there enough time to
16 make sure everything was fine and, in terms of being
17 gowned up, I don't remember anyone ever making the
18 request for me to be gowned up. Usually people are only
19 gowned up if they're actually involved in the operation.
20 I would have theatre gear on so I was sterile, but I
21 wouldn't have green gowns on.

22 Q. That may have been slightly different terminology.

23 A. I think it's just a matter of terminology.

24 Q. Yes. Did he ask you to be there at all or ask whether
25 you would be there or, if you were going to be there,

1 how long you would be there?

2 A. I don't think so, but I would imagine that Dr Taylor
3 expected that I would be doing what I did, that I would
4 be around all the time if he needed me.

5 Q. Thank you. Then if we come now to -- I think we were
6 just -- I was going to ask you about the handover to
7 Dr O'Connor. She knew she was going to have to cover
8 that for you because that's just the way the time fell,
9 if I can put it that way. What's the nature of the
10 handover you actually give her? What do you tell her?

11 A. I would have told her that we'd been offered a kidney
12 the previous day, what the tissue type was, the fact
13 that we had had to put the operation off for surgical or
14 anaesthetic reasons until later than would have been
15 optimal.

16 I would have told her we started the surgery at
17 7 o'clock, that he'd had overnight dialysis, that his
18 electrolytes and so on -- I would have gone over the
19 notes that were in his clinical chart with her and we
20 both would have been relatively satisfied that each of
21 us knew what was happening and what was going on.

22 Dr O'Connor then took over the same role as myself
23 of going in and out of the theatre and making sure there
24 were no problems that needed to be addressed from
25 a medical point of view and was also aware, of course,

1 that if there was something she didn't know, I was not
2 too far away to consult. Does that answer your
3 question?

4 Q. Well, yes. I'm simply trying to find out what the
5 handover to her would mean and I think you've tried to
6 answer that.

7 A. It's a verbal handover, so I would tell her exactly what
8 I've done overnight so she's aware of what has happened
9 and the stage we're at in the transplant.

10 Q. Nowadays, would you put anything in the notes?

11 A. I don't think so.

12 Q. Thank you.

13 THE CHAIRMAN: Is that because there was nothing to alarm
14 you at the time of the handover?

15 A. I think that's right.

16 MS ANYADIKE-DANES: Adam's mother says that you spoke to her
17 at 9.30 that morning and she is quite clear about that.
18 She explains why in her statement, why she is so sure
19 that was the time. She says that you informed her that
20 things were going well, an epidural was in place and
21 that Mr Brown was assisting Mr Keane.

22 Did you tell her anything else about what was
23 happening or is that the sense of what you would have
24 conveyed?

25 A. Yes, I think I probably told her everything that I was

1 aware of from my visits to theatre.

2 Q. Maybe you can help us with this: if you're seeing her at
3 9.30, do you come and see her immediately after you come
4 out of theatre so you can give her the most up-to-date
5 report?

6 A. Yes. So when Dr O'Connor took over from me, I went and
7 talked to Debbie Strain.

8 Q. Yes. So that means --

9 A. I had actually thought that possibly I'd seen her before
10 that, but apparently not.

11 Q. If you were seeing her at 9.30 and if the results --
12 where was she, sorry, in relation to the operating
13 theatre?

14 A. I think she was in Musgrave Ward.

15 Q. And when you were speaking to her, was anybody with her?

16 A. I can't remember. But I know that she had --

17 Q. I think she would say her sister was there.

18 A. Her sister was there.

19 Q. I think her sister's made a statement.

20 A. I don't remember if I spoke to just Debbie or Debbie and
21 her sister.

22 Q. I understand that. How long would it take you roughly
23 to get from the operating theatre to Musgrave Ward?

24 A. Two minutes. You walk there.

25 Q. So if you were seeing her at 9.30, is that a way of

1 benchmarking where you were likely to have been when the
2 results at 9.32 are coming in?

3 A. Possibly. You think the 9.30 is that accurate? I don't
4 know. It could have been 9.15.

5 Q. I have no idea. What I'm trying to ascertain is whether
6 you could have been in the operating theatre at about
7 the time when the events at 9.30, 9.32 were happening.

8 A. I didn't know that that sodium result came back.
9 I wasn't aware of it.

10 THE CHAIRMAN: Would that be a cause of alarm?

11 A. A sodium of 123? Yes.

12 THE CHAIRMAN: And if you had known about that, would you
13 have been able to reassure Adam's mother in the way that
14 you did?

15 A. No. If I'd known there was a sodium of 123, I would
16 have been wanting to get a result off to the lab and
17 find out if it was correct and form a plan as to what
18 we would do about it.

19 MS ANYADIKE-DANES: I know it's speculation and you don't
20 like to do it, but now that you have started that: if
21 you were in the operating theatre when that happened and
22 you appreciated that happened, what, in your role as
23 a nephrologist, would you have been wanting to do or
24 ensure happened?

25 A. I have thought about that quite a few times and it's

1 very difficult to know what I would have done as
2 a nephrologist because here's a child who's under
3 anaesthetic and I have no control or skill in that area.
4 So I think I would have had to defer to the consultant
5 anaesthetist as to what the actual steps we took were.
6 But certainly, I think if we had a sodium of 123, you'd
7 have stopped giving any fluid that was hypotonic, that
8 wasn't normal saline or plasma or blood. I think that
9 would certainly have triggered you to look at the CVP
10 and think perhaps we need to stop and find out if this
11 CVP really is right because sodium of 123 would make you
12 think that perhaps there's too much fluid aboard or
13 something like that.

14 Q. Would that be a serious thing, a serious development,
15 during a procedure of that sort, for that to happen?

16 A. Well, of course. I keep trying to say this is not an
17 area that I work in, but --

18 Q. I understand that. You do, from time to time, go into
19 operating theatres.

20 A. I do, but any child who has a sodium of 123 that you
21 know was 134 not so long ago, you'd be concerned that
22 that was quite a significant change. The trouble is
23 that I'm used to working with patients that are awake
24 and, if you have a child who has a sodium of 123 who is
25 sitting talking to you and perfectly well, then

1 obviously you wouldn't be quite as worried as you would
2 be if you had a child whose sodium was suddenly 123 and
3 they were unwell or having a seizure or something like
4 that.

5 Q. I suppose what I'm trying to get at, and it may not be
6 a very fair question to ask, is: if a result had come
7 through like that, what the likely consternation or not
8 would be in that operating theatre.

9 MR UBEROI: Sir, if I may perhaps rise. I appreciate the
10 way the question has been put, but you are hearing from
11 Dr Taylor tomorrow. You're subsequently hearing from
12 Dr Haynes, who's your expert anaesthetist. I just
13 wonder, picking up on the comments the witness himself
14 made, the extent to which this line of questioning
15 should be pursued now.

16 MS ANYADIKE-DANES: I will go no further then.

17 THE CHAIRMAN: Okay.

18 A. I would agree with that. I think I am getting out of my
19 depth.

20 MS ANYADIKE-DANES: I will take it no further.

21 Can I ask when was the first time you appreciated
22 what had actually happened in theatre: that there had
23 been a fall in his serum sodium of that sort, that
24 he had had high CVP values and that he was unable to
25 wake? When was the first time you realised that?

1 A. Dr O'Connor phoned me in my university office and said
2 that Adam couldn't be weaned off the ventilator,
3 he wasn't breathing spontaneously, she had looked at him
4 and he had fixed dilated pupils, and I don't know if she
5 told me at that point that she had looked at the fluid
6 balance, but I rapidly went to the intensive care unit
7 and reviewed the situation, with her and it was clear
8 that he did seem to have had, I think, with a rapid
9 calculation we thought he had had 1,500 ml of fluid more
10 in than out on a rough calculation, so at that stage
11 with a low sodium and subsequently with a lower sodium
12 coming back from the laboratory, I think Dr O'Connor and
13 I felt that there was a situation where his fluid
14 balance was excessive on the positive side. He had
15 a lot of fifth normal saline and we felt that he had
16 probably got cerebral oedema and coned. And it's
17 a moment that -- both the phone call and seeing Adam
18 lives with me forever. It's like a cold hand on your
19 heart. I knew that we were in a very difficult
20 situation.

21 Q. What was his appearance when you saw him?

22 A. I have seen the photographs and I --

23 Q. But from your recollection.

24 A. Well, having seen the photographs, they do influence
25 your recollection. But he was puffy, yes. He was more

1 swollen than -- his face was swollen, I think.

2 Q. You had seen him presumably after previous surgery?

3 A. I'd seen him the previous night.

4 Q. I know that, but you had also seen him after his

5 previous surgeries, I presume.

6 A. Yes.

7 Q. Had you ever seen him like that?

8 A. I don't think so.

9 Q. When did you first speak to his mother after that?

10 MR FORTUNE: Sir, can I just intervene? Is my learned

11 friend going to finish in ten minutes? Because if not,

12 I'm going to ask that Professor Savage have a proper

13 break at this stage. There's still quite a lot for my

14 learned friend to cover.

15 MS ANYADIKE-DANES: Yes, I am.

16 MR FORTUNE: You're going to finish in ten minutes?

17 MS ANYADIKE-DANES: Yes, I am. Well, nine.

18 THE CHAIRMAN: 12. All the time in the world.

19 MS ANYADIKE-DANES: When was the first time you spoke to

20 Adam's mother after you saw him like that?

21 A. I would need to look at the notes, but I think within

22 the half hour.

23 Q. And --

24 A. I think I came back at 12.30 and I spoke to her at

25 1 o'clock. You have access to the --

1 Q. Yes. I'm just trying to see if you give a time. We'll
2 check it if there is an actual time.

3 A. I think the counselling note from the nurse says
4 1 o'clock.

5 Q. Yes. Adam's mother says a number of things that she
6 wasn't told and maybe you can help us with that. She
7 says that at no time was she made aware of the problem
8 with Adam's serum sodium levels. She was just told that
9 Adam's condition was being treated aggressively and that
10 everything was being done. That's in a letter that she
11 wrote to the coroner and is part of the coroner's files,
12 a letter on 17 January 1996. The reference for that is
13 011-006-019. She says she wasn't told anything about
14 hyponatraemia and that's in her first witness statement
15 for the inquiry. She was told that Adam's brain was
16 swollen, but not why and she can't -- and that's in her
17 second witness statement for the inquiry.

18 She says she can't recall being informed that Adam
19 had been given too much fluid and she doesn't recall
20 being given any information to explain how Adam ended up
21 in such a critical condition.

22 Do you accept that she wasn't told those things? Or
23 do you have no recollection?

24 A. I think she was told some of those things.

25 Q. You think she was?

1 A. Yes.

2 Q. There isn't a record of it though.

3 A. I think if you look at the nurse counselling note, it
4 gives you some idea of what was said. But I'm very
5 aware that I was telling Debbie the worst news she had
6 ever heard and I've talked to people like that before,
7 and I've been in that situation with relatives before,
8 and you don't remember the detail of what people tell
9 you. There was certainly no intention that we were not
10 wishing to tell her what was happening and I think
11 probably Debra and I had discussions about how puffy
12 he was and that he had got too much fluid in theatre.

13 Q. Did you explain how it had happened?

14 A. I accept that I probably didn't go into the idea of
15 hyponatraemia. I think if you're telling people
16 terrible news, to try and get into a scientific
17 explanation of the mechanism of it would perhaps not
18 have been the best time.

19 Q. No, I didn't mean necessarily using the terminology.
20 But I don't know, maybe you have said it and I just
21 didn't hear you, whether you had explained that he
22 simply was given too much fluid.

23 A. I think I did say that, yes.

24 THE CHAIRMAN: Yes.

25 A. And certainly over the next day or so, when we were in

1 a terrible situation, we would have talked again.

2 MS ANYADIKE-DANES: At any time did you use the expression

3 "hyponatraemia"? I'm not talking about that day, but at

4 any time did you use that expression and explain

5 medically what had happened?

6 THE CHAIRMAN: Or do you know?

7 A. I do know, but I don't know when because I know that

8 I met with Debbie Strain several times afterwards and

9 I know she wrote to me and I wrote to her, and I believe

10 in that correspondence I've mentioned dilutional

11 hyponatraemia. But I do not wish to get into

12 a situation where Debbie believes that we didn't tell

13 her everything and that I'm contradicting that. I tried

14 to tell her what I thought -- explained to her what had

15 happened to Adam at the time.

16 MS ANYADIKE-DANES: I understand. Just two or three quick

17 points to make. One is that you were present, were you

18 not, at some point during the autopsy that was being

19 carried out by Dr Armour?

20 A. Yes, I think so. I know that I've written to the GP and

21 said that I was at the autopsy.

22 Q. Yes. I presume if you wrote to him saying you were

23 there it's because you were there. Why were you there?

24 A. I think throughout my professional career, dating back

25 to when I was a houseman with Professor Vallance Owen,

1 that he would always have said that your last
2 responsibility to your patient was to go to the
3 post-mortem. This is a patient you've looked after and
4 you owe them the respect of attending their post-mortem.
5 And I think that's something that I continue to practice
6 and the reason I went was because Adam was my patient
7 and I probably also felt that there should be someone
8 there that knew Adam, not just a cold autopsy room. And
9 that's the sort of reason that I went. But I also went
10 to see that, yes, indeed there was cerebral oedema and
11 that was the cause of his death.

12 Q. Did you have any discussion with Dr Armour while you
13 were there?

14 A. I can't remember. I actually have no memory of being
15 at the post-mortem. It may be that it was so upsetting
16 to me that I've wiped it from my memory, but I don't
17 remember being there, so I don't remember talking to
18 her. But I was only there, as I say, because Adam was
19 my patient and probably just to make sure that the
20 conclusions we had reached were correct.

21 Q. Slightly before that, which I should have asked you:
22 when you were speaking to Adam's mother and explaining
23 to her and conveying to her the worst news and that that
24 was going to have go -- those discussions, presumably,
25 were going to go on up until the time when a decision

1 was going to have to be made about switching off the
2 ventilator. You had some discussions with her with
3 Dr Taylor; isn't that right? He accompanied you.

4 A. He came with me on the first occasion, yes.

5 Q. Did a surgeon ever come?

6 A. I don't think so.

7 Q. Was it your anticipation that, at some point, a surgeon
8 would come and explain what happened in the theatre?

9 A. I don't think so. I probably thought that I had taken
10 that responsibility now. This was Adam, who I'd looked
11 after all his life, and I just took that responsibility
12 on my shoulders.

13 Q. I understand.

14 THE CHAIRMAN: I just want to get that clear. Are you in
15 effect saying, professor, that, in your eyes at least,
16 the fact that you took that responsibility meant that it
17 wasn't necessary for Mr Keane to speak to Debra Slavin?

18 A. I don't think I thought about it like that at all.
19 Everything in those next 48 hours was trying to get
20 through that desperate few days and help Debra Strain to
21 get through those terrible days. If you remember, this
22 is a woman who offered her child's organs for other
23 children. Enormously brave in that situation.

24 THE CHAIRMAN: I just ask you that because you said when
25 Ms Anyadike-Danes asked you whether at some point the

1 surgeon -- did you anticipate that at some point
2 a surgeon would come and explain and you said you didn't
3 anticipate that:

4 "I probably thought that I had taken that
5 responsibility."

6 I was just wondering. That suggests that you
7 thought that this was your task and therefore not
8 anybody else's.

9 A. Well, I don't know that I --

10 THE CHAIRMAN: Is that pushing it too far?

11 A. Yes. It would have been good if one of the surgeons had
12 come and spoken to them, but they didn't.

13 THE CHAIRMAN: Okay?

14 A. I suppose the other side of it is that Debbie didn't
15 know the surgeon, but she knew me.

16 MS ANYADIKE-DANES: Yes, I understand. There are then just
17 three points. I think there are only three to put to
18 you quickly. The first is Dr Taylor has made
19 a reference, and I will just call this up. 093-038-252.
20 This is a reference to him having certain discussions
21 with you outside the inquest or at least outside the
22 chamber where the inquest was going on. He says:

23 "They both [and that is you and Dr Sumner]
24 acknowledge that the cause of the papers on dilutional
25 hyponatraemia couldn't have happened [I think it should

1 be 'to'] Adam and yet, in court, they say it did."

2 This is really part of Dr Taylor's belief --
3 certainly at that time -- that Adam couldn't develop
4 dilutional hyponatraemia. And what he's suggesting here
5 is that he spoke to you and Dr Sumner and that you had
6 conceded that he was right about that. We can quickly
7 pull up witness statement 00 --

8 THE CHAIRMAN: Sorry, it's the next -- read down a few
9 lines. So Dr Taylor then says:

10 "So the sense of frustration was clearly evident in
11 my ... And there's obviously a misunderstanding, but my
12 reading of the literature [et cetera] Adam Strain cannot
13 get dilutional hyponatraemia."

14 And he's suggesting that's what you were agreeing
15 with.

16 MS ANYADIKE-DANES: Yes. I can help you with that in a bit
17 more detail, actually, because he then goes on to deal
18 with it in a witness statement: 008/2, page 40. Just to
19 help you with that. I think he says ...

20 A. 105.

21 Q. 105, yes. Just picking that up:

22 "I have spoken to Dr Sumner. Dr Savage is outside
23 the confines of the court. They both acknowledge that
24 the cause of the papers --

25 The very quote that I just read to you. And he's

1 asked:

2 "State precisely when and where this occurred. It
3 was during a lunch break during the coroners' inquest."

4 Do you recall that?

5 A. Well, I don't recall the conversation, but I can
6 understand what he's attempting to say. And that is --
7 and I think I've said it previously in my oral
8 communication with you that the Arieff paper blames
9 dilutional hyponatraemia in children undergoing minor
10 surgery on inappropriate secretion of antidiuretic
11 hormone. Adam's kidneys could not respond to
12 antidiuretic hormone, therefore that mechanism could not
13 have caused his dilutional hyponatraemia. The
14 dilutional hyponatraemia that occurred with Adam was
15 because of an excess in rapidly infused --

16 MS ANYADIKE-DANES: I understand that.

17 A. -- intravenous fluid, if we agree with the experts and
18 I certainly do. So I was not saying if this
19 conversation happened and I have no reason to believe it
20 didn't -- I would not have been saying he could not have
21 developed dilutional hyponatraemia; it's the mechanism
22 could not have been --

23 Q. Thank you very much. That's what I was trying to
24 clarify.

25 Then the last two points are: Professor Kirkham has

1 referred to certain developmental issues in relation to
2 Adam and, in her final report, she said he had an
3 expressive language delay out of proportion to receptive
4 language ability and she thought that that was
5 an important difference for Adam compared to other
6 children. That's at paragraph 62 of that final report
7 of hers.

8 Then she says:

9 "On the balance of probabilities, Adam had
10 a specific movement disorder affecting his sucking,
11 chewing and swallowing that's not seen in other children
12 with chronic renal failure."

13 And that's something she says at paragraph 63. Then
14 she said:

15 "[She thought] he had neurological difficulties,
16 including feeding, expressive language problems,
17 evidence of cardiac compromise and a limp."

18 What I want to ask you -- I'm not asking you to step
19 into the shoes of a neurologist, but in terms of how she
20 describes Adam, do you recognise any of those
21 descriptions in terms of expressive language delay and
22 the specific sucking and chewing and swallowing
23 mechanism?

24 MR FORTUNE: Before the professor answers that question,
25 he is entitled to have the report in front of him. You

1 quoted at least two paragraphs. In fairness to him.

2 Professor, do you want to see the report?

3 A. If it's easy, but what I would say is that I think
4 Professor Kirkham does not have the experience of
5 looking after children with chronic renal failure from
6 infancy and the changes she describes are commonly seen
7 in children who have had chronic renal disease from
8 infancy.

9 MS ANYADIKE-DANES: And did you see them in Adam?

10 A. Some of those things were present in Adam. He was,
11 remember, fed exclusively with the gastrostomy, so he
12 didn't use his mouth and children like that tend to have
13 speech difficulties and tend also to have hypersensitive
14 mouths -- if you put solid food in them, it will make
15 them gag -- and the same muscles and tongue movements
16 that you use to chew and eat are the ones that you talk
17 with. Therefore, in a renal patient who has that
18 situation, we frequently see those sort of developmental
19 problems and they are not related to neurological
20 damage; they're related to uraemia, and I think that is
21 quite clearly recorded in the nephrology literature.
22 I would take issue with Professor Kirkham very strongly
23 on that issue.

24 Q. And finally just on that point, you, of course, were
25 responsible for trying to get some assistance for Adam

1 and his mother in relation to that. But in your
2 correspondence, did you in any of your correspondence
3 indicate that this was actually par for the course, if
4 I can put it that way, of a child in his renal
5 situation?

6 A. I don't know. I don't remember the letters that I've
7 written, but of course we have a team that are used to
8 working with children with chronic renal problems within
9 the Children's Hospital and they would recognise that
10 themselves.

11 Q. Thank you. Then there is the one final thing, as
12 I said. Can we pull up reference 060-016-031? This is
13 a letter from Brangam Bagnall to George Murnaghan, who
14 was a director of medical administration of the Royal
15 Group. It's in relation to Adam:

16 "I reference to previous correspondence and would
17 advise you that the plaintiff's solicitors have spoken
18 to it me concerning this matter ... discussion entirely
19 without prejudice to liability. They would be prepared
20 to ..."

21 Then there's obviously stuff that's redacted because
22 we don't need to know that --

23 THE CHAIRMAN: Microphone.

24 MS ANYADIKE-DANES: Sorry:

25 "I believe from a liability point of view, this case

1 cannot be defended and this is based largely upon the
2 information given by one of the independent experts
3 retained by the coroner. Additionally, I believe
4 it would be unwise for the trust to engage in litigation
5 in this matter given the particularly tragic
6 circumstances of the death and the opportunity for the
7 exploration of any differences of opinion which might
8 exist between a number of the attending physicians."

9 And then I wonder if you could help, whether you
10 know the differences of opinion between the attending
11 physicians that is being referred to?

12 MR FORTUNE: Before the professor answers, I do not know --
13 I have not seen this document before. I do not know
14 whether Professor Savage has seen this document before.

15 THE CHAIRMAN: I don't think he has. Let me tell you two
16 things. First of all, as you see from this reference
17 number, this is a document which is in the files and
18 secondly, this was a letter sent by the solicitors for
19 the -- the then solicitors for the trust to
20 Dr Murnaghan. Dr Murnaghan then wrote a similarly, but
21 not identically, worded note to the individual
22 clinicians, including Professor Savage. We can turn to
23 that if Professor Savage needs it. But there is an
24 almost identically worded note from Dr Murnaghan to
25 Professor Savage to Dr Taylor, to Mr Keane, and to,

1 I think, one or two others.

2 MS ANYADIKE-DANES: Let's pull that up.

3 MR UBEROI: If I might add, perhaps along with Mr Fortune,
4 to the extent if the witness is going to be asked to
5 comment on a letter not written by him, I'm not sure
6 it's a proper question.

7 THE CHAIRMAN: It's a proper question because of this: the
8 witness is, in effect, going to be asked -- the letter
9 suggests --

10 MS ANYADIKE-DANES: If I may intervene, I think it's
11 060-010-019.

12 THE CHAIRMAN: Right. Let's wait one moment.

13 This is the follow-up note after Dr Murnaghan
14 received a letter from the trust solicitors. He sent
15 this follow-up note to a number of individuals,
16 including you, professor. And you will see it's in
17 similar terms and the last sentence in the second
18 paragraph is:

19 "It would not have been helpful for an opportunity
20 to be provided to lawyers to explore any differences of
21 opinion which might exist between various professional
22 witnesses who would have been called to give evidence."

23 And I think the question which is coming to you
24 is -- and the original letter referred to differences
25 between clinicians. To the extent that you were

1 involved, and you were involved in Adam's treatment and
2 on the day of 27 November 1995, and to the extent that
3 you were a witness at the inquest, what is your
4 understanding of the differences between the various
5 professional witnesses?

6 MR FORTUNE: Sir, I object to this question. I'm not sure
7 that it's a proper question for Professor Savage to be
8 asked.

9 THE CHAIRMAN: Why not? If he's not aware of them, he can
10 tell me. I would find it astonishing, Mr Fortune, if
11 Professor Savage had not had discussions with people
12 like Dr Taylor and Mr Keane and perhaps others about the
13 circumstances in which people came to die. And in the
14 circumstances in which Adam died, I would also find
15 it -- this letter hints strongly at differences between
16 professional witnesses in the same way as Mr Brangam's
17 letter hinted strongly at differences between
18 clinicians.

19 I'm not asking Professor Savage to speculate on
20 anything; I'm asking Professor Savage to tell this
21 inquiry what he knows about the differences between
22 professional witnesses and clinicians. What is wrong
23 with that?

24 MR FORTUNE: Sir, Professor Savage can speak certainly for
25 himself and can speak in relation to any conversation

1 that he had perhaps with Dr Taylor on the day or indeed
2 --

3 THE CHAIRMAN: Not just on the day. Not just on the day.
4 Because Adam's death was entirely unexpected, wasn't it?

5 A. Yes.

6 THE CHAIRMAN: And it's quite obvious to me that it was
7 a cause of great distress to you.

8 A. Yes.

9 THE CHAIRMAN: And you'd have been anxious to determine what
10 had happened to make sure that it never happened again.

11 A. Yes.

12 THE CHAIRMAN: And in the course of those discussions, if
13 there weren't -- let me put it this way, Mr Fortune: if
14 there weren't discussions between the doctors, it would
15 be outrageous, wouldn't it? Wouldn't it?

16 MR FORTUNE: Yes, I agree with that.

17 THE CHAIRMAN: Right. Then I'm asking the professor simply
18 to tell this inquiry, to the extent that he knows from
19 his own contribution and from his own discussions, what
20 those differences were. What is wrong with that?

21 MR FORTUNE: As I say, he is entitled to speak for himself.

22 THE CHAIRMAN: He is required for speak for himself. I'm
23 asking him the question. He's not entitled to speak for
24 himself; he is required to answer that question unless
25 you persuade me that there is anything remotely improper

1 about it.

2 MR FORTUNE: Sir, I have made my objection.

3 THE CHAIRMAN: I don't understand your objection. If he's
4 part of these discussions and he's aware of differences
5 between clinicians, he can tell this inquiry what those
6 differences were.

7 MR FORTUNE: He has given evidence as to what happened.

8 That is what I submit are the differences.

9 THE CHAIRMAN: Sorry, I have heard your objection. It
10 doesn't make sense and I reject it. Mr Millar?

11 MR MILLAR: I have no objection to the line of questioning,
12 but I do have an objection to the way the question was
13 put by Ms Anyadike-Danes, which is exactly what prompted
14 Mr Fortune to stand up. The question that she put,
15 having read that document, was:

16 "I wonder if you could help whether you know the
17 differences of opinion."

18 That letter does not refer to differences of opinion
19 that did exist. The word "might" is crucial.

20 The professor had been asked, first of all:

21 "Are you aware of any differences of opinion?"

22 That would have been a fair question. But the whole
23 implication of the question was that that letter reveals
24 that there were differences of opinion. It's quite
25 carefully worded to say "might".

1 THE CHAIRMAN: It hints very strongly that there were
2 differences of opinion because that was given as
3 a reason for settling the litigation. You're objecting
4 to an earlier question. So if I can take it on -- if
5 you don't mind, Ms Anyadike-Danes.

6 Professor, can I take it that you did discuss at
7 some length and in some detail with people like
8 Dr Taylor and Mr Keane and maybe others what had gone
9 wrong in Adam's case?

10 A. The first thing I would like to say is that I had not
11 seen the first letter, to my knowledge, that was put up
12 on the screen. I have seen this letter and when
13 I received this letter, it was the first time I knew
14 that there was a litigation procedure taking place.
15 That was the first I knew of it, after it had been
16 settled.

17 THE CHAIRMAN: Okay.

18 A. In terms of whether I am aware of differences between
19 clinicians, what I have always said is that I believe
20 that Adam Strain -- in fact, I think a better way to put
21 is that I have stated that I accepted the findings of
22 the coroner's inquest. I know that at least one of
23 other clinicians has had difficulty accepting that
24 in the past and I suspect that is the difference that
25 this letter refers to.

1 THE CHAIRMAN: Let me go back before that. When you say you
2 accept the findings of the inquest, is that because
3 that's what you expected the findings to be going into
4 the inquest?

5 A. Yes.

6 THE CHAIRMAN: And when you attended the autopsy conducted
7 by Dr Armour -- I think you said a few minutes ago to me
8 that you were there and you gave the very specific and
9 personal reasons for being there -- but you said that
10 you confirmed from your presence that it was cerebral
11 oedema.

12 A. Yes.

13 THE CHAIRMAN: I'm inferring from that, and correct me if
14 I'm wrong, that it was cerebral oedema due to him
15 receiving excessive fluid at a vast rate.

16 A. What the coroner said was due to dilutional
17 hyponatraemia, which amounts to the same thing.

18 THE CHAIRMAN: And that's what you had understood from the
19 autopsy, so the inquest confirmed it. To put it another
20 way: you would have been surprised if the inquest came
21 to any different finding?

22 A. I would, and I felt that the inquest was the time to
23 clearly determine the cause of death in Adam. I thought
24 that was the responsibility of a coroner's inquest and
25 I agreed with the findings.

1 THE CHAIRMAN: When you said "one clinician" -- let's be
2 blunt. This might be a bit uncomfortable, professor,
3 and I'm sorry, but that's the way it is. When you say
4 one clinician had difficulty in accepting the finding of
5 the inquiry, you're referring to Dr Taylor?

6 A. Yes.

7 THE CHAIRMAN: To your knowledge, did Mr Keane have any
8 difficulty in accepting the finding of the inquest?

9 A. Not to my knowledge.

10 THE CHAIRMAN: Do you know of any other person involved who
11 had difficulty in accepting the finding?

12 A. No.

13 THE CHAIRMAN: Ms Anyadike-Danes, do you have anything
14 further?

15 MS ANYADIKE-DANES: Sorry, I have just called for
16 a particular file. I just wanted one minute to look at
17 a certain document. Just while the professor was
18 speaking, I called for a particular file.

19 If it becomes relevant, I will raise it at some
20 other time.

21 THE CHAIRMAN: Thank you very much.

22 Is that the end of your questioning?

23 MS ANYADIKE-DANES: It is.

24 THE CHAIRMAN: Thank you very much. We nearly kept our
25 promise, professor.

1 to start?

2 Questions from MR HUNTER

3 MR HUNTER: Thank you, Mr Chairman.

4 First of all, professor, on behalf of Adam's mother,
5 Debra, she has asked me to state here that she does
6 thank you for all of the care that you gave to Adam up
7 until the time of his transplant operation. She wants
8 to make that very clear.

9 I want to ask you a few very short questions about
10 some matters. The first matter I want to deal with --
11 counsel to the inquiry has largely dealt with it, but
12 it's the issue of developmental delay in children with
13 renal failure and the issues of the problems with speech
14 and eating and so on that have been covered by counsel
15 and you have answered those questions. There's one more
16 I would like to put to you in that regard.

17 Professor Kirkham has referred to Adam having a limp
18 and she has taken that and put that into her theory of
19 what she says is one part of the reason why Adam died.
20 Debra says that Adam did not have a limp. He may have
21 fallen on some occasion and may have had a limp for
22 a little while, but throughout his life he did not have
23 a limp. You knew Adam his whole life, can I ask you the
24 very simple question: did Adam have a limp?

25 A. I have no memory whatsoever of Adam ever having a limp.

1 I also believe that although Adam was slightly delayed
2 in his speech and so on, that if he'd had a successful
3 transplant, that he would have recovered from that.
4 He was a very bright little boy.

5 Q. Indeed, and I'm sure you've looked at Dr Coulthard's --
6 sorry, it's not Dr Coulthard's report, I can tell you
7 may not have heard it, but there was the experts'
8 meeting, which happened in Newcastle. At that meeting,
9 Dr Coulthard -- again was very clear on these sort of
10 problems, that these children in renal failure have
11 these sorts of problems. In fact, he was saying
12 it would be actually quite unusual if they didn't have
13 some of these problems to some degree, that is problems
14 with their speech, eating and so on. I take it you
15 would agree with that?

16 A. I agree completely, yes. I did say that to counsel when
17 she asked me earlier.

18 Q. If I said to you that when the family saw
19 Professor Kirkham's report initially, it caused untold
20 distress to Debra, could you understand that?

21 A. I certainly can. I have made the same comment to
22 friends myself.

23 Q. Thank you, professor. I move on.

24 From the moment you were called back to the hospital
25 and, I think, right up until today, would be I right in

1 saying that your view is quite clearly that the cause --
2 why we are all here today is, basically, Adam ended up
3 being fluid overloaded?

4 A. Yes.

5 Q. And that the cause of his death is, as was stated in the
6 autopsy report, as in the coroner's findings, that he
7 died from cerebral oedema due to dilutional
8 hyponatraemia?

9 A. Yes.

10 Q. And you have never had a doubt about that?

11 A. No.

12 Q. Would that be fair to say?

13 A. That's true.

14 Q. So then really, I don't need to put what each of the
15 individual experts say because certainly Dr Coulthard,
16 Dr Haynes, Professor Gross, take that line. And you
17 would obviously agree with their conclusions, I take it?

18 A. Yes.

19 Q. Finally, professor, would it be fair to say that --
20 you have mentioned this in your evidence earlier --
21 I think yesterday. Were you the first paediatric
22 nephrologist in Northern Ireland?

23 A. Yes.

24 Q. And really the establishment of the service has been
25 down to yourself?

1 A. Yes.

2 Q. And that grew from a fledgling service. And would be it
3 fair to say that with any fledgling service there are
4 hiccups? There's going to be problems?

5 A. Yes.

6 Q. And there's going to be mistakes?

7 A. Unfortunately.

8 Q. Yes. Those mistakes are made and the service learns
9 from those mistakes. But of course, when mistakes are
10 made and it is your child, that's very difficult, and
11 I'm sure you can understand where Debra is on that.
12 It's obviously very, very difficult for her to live with
13 all of this.

14 A. I completely understand where Debra stands and comes
15 from. After Adam died, I did spend a considerable
16 length of time with her, trying to help her to get
17 through those terrible days.

18 Q. But you would accept that mistakes were made?

19 A. Yes.

20 Q. And lessons hopefully are being learned?

21 A. Yes.

22 MR HUNTER: Thank you very much, professor.

23 THE CHAIRMAN: Thank you, Mr Hunter.

24 Mr McAlinden, no questions from the trust, as
25 I understand and between the individual parties.

1 Mr Millar, do you have some point?

2 MR MILLAR: One question to ask, sir.

3 THE CHAIRMAN: Okay.

4 Questions from MR MILLAR

5 MR MILLAR: Dr Savage, you may know I represent Mr Keane,
6 who was the surgeon and who was obviously present
7 throughout the period of time in the operating theatre
8 when Adam was having his transplant surgery. And
9 I think your evidence has been that throughout the
10 period up until about 9 or 9.30 that you were in and out
11 from time to time.

12 A. Yes.

13 Q. And I wonder if the people up above could bring up --
14 I think it's Dr Haynes' second statement, page
15 204-004-161. Perhaps if the final sentence on that page
16 could be highlighted, you'll see, Dr Savage, that
17 Dr Haynes states:

18 "I get the impression that everything was hurried,
19 that tensions had developed between the surgeon and
20 anaesthetist, and that there was not adequate dialogue
21 between those involved."

22 Now, leaving aside Dr Haynes' perceptions for
23 a moment and turning to the facts, Dr Savage, based on
24 your visits to the operating theatre that morning, did
25 you detect any tension?

1 A. None whatsoever.

2 Q. Did you form any impression whatsoever that anything was
3 being rushed or hurried?

4 A. No.

5 Q. You may or may not have heard anything that was being
6 said between the surgeons and the anaesthetists, but in
7 general terms, Dr Savage, was there anything about the
8 position in that operating theatre that morning that
9 struck you as being in any way unusual or abnormal?

10 A. No. When I read the statement from Dr Haynes, I thought
11 it was ridiculous.

12 Q. You don't recognise that in any shape or form --

13 A. No.

14 Q. -- as being the position in the operating theatre that
15 morning?

16 A. No.

17 MR UBEROI: No questions on behalf of Dr Taylor, thank you.

18 Questions from MR CAMPBELL

19 MR CAMPBELL: I have a few short matters on behalf of
20 Nurse Murphy. Professor Savage, a number of issues that
21 I would like to raise with you, the first of which I
22 would categorise under the description "clear fluids".
23 The admission notes make reference to that substance
24 which was being fed to Adam through the gastrostomy tube
25 and the nursing expert who has reported to the tribunal

1 has described the use of that non-specific phrase "clear
2 fluids" as an omission in record keeping. However,
3 I note from your own statement to the tribunal, and
4 indeed your oral evidence yesterday and today, that
5 "clear fluids" is a phrase that you used yourself on
6 a routine basis.

7 A. Yes.

8 Q. It was perfectly proper for Nurse Murphy to make such an
9 entry in 1995, was it not?

10 A. I think so, yes. I think that the nursing expert does
11 go on to say that "clear fluids" mean any fluid through
12 which you can read print. So it's a very
13 non-specific --

14 Q. Yes, but in the context of 1995, in the Musgrave Ward,
15 being entered in that form in that context, anyone
16 reading the form would have known exactly what it meant?

17 A. Yes, I think so.

18 THE CHAIRMAN: Would it be any different today, as a matter
19 of interest?

20 A. I think today we would probably write "Dioralyte".

21 THE CHAIRMAN: But that's not a major change?

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

23 THE CHAIRMAN: Okay.

24 MR CAMPBELL: The next issue is that of urine output and
25 whether or not it should have been measured. You will

1 see from the records completed by Nurse Murphy that in
2 one of the columns there's reference to "PU" and "NPU",
3 which of course means --
4 A. "Passed urine" and "not passed urine".
5 Q. And that was the extent of the entry in that form?
6 A. Yes.
7 Q. You were asked this morning -- I think one of the first
8 questions was: was it your position that nurses were
9 required to carefully monitor if they are passing urine,
10 the "if" referring to the patients. Of course, that
11 entry, the "PU" or "NPU" covers that issue; isn't that
12 correct?
13 A. That sort of entry indicates that he is passing urine.
14 It doesn't, obviously, measure the urine, but I don't
15 think on that particular night, for that short length of
16 time, that I had told Nurse Murphy that I wanted his
17 urine measured accurately on that evening.
18 Q. You've made reference in your evidence today to once
19 upon a time there had been a practice with Adam to
20 measure the sodium in his urine.
21 A. Yes.
22 Q. How was that carried out?
23 A. A sample of his urine would have been sent to the
24 laboratory.
25 Q. Not by catheter, simply by sample taking?

1 A. I think most of them probably were when he did have
2 a catheter in because he wasn't the sort of child who
3 could pass urine if you asked him to.

4 Q. But your evidence at this stage, after much reflection
5 on all of the aspects of this case, is that on that
6 particular night you had not given a direction requiring
7 that the output of urine be measured?

8 A. I don't remember that I had given that instruction, no.

9 Q. And Nurse Murphy's recollection is that she was given no
10 such direction that night. I think in fairness, for
11 a complete answer from you, professor, I should alert
12 you to the fact in your statement, 002/3 at page 38 --
13 perhaps that could be brought up. You suggested that,
14 at, I think, the fourth paragraph:

15 "I would have directed that Adam's fluid balance
16 would have been carefully recorded in terms of both
17 input and output and a fluid balance chart during the
18 26th and 27th, this would have been standard nursing
19 practice. His urine output would therefore have been
20 measured, if possible, and his weight both pre and post
21 dialysis recorded."

22 The point that I would like to alert your attention
23 to is:

24 "I do not know the identity after this time of the
25 nurse responsible for looking after Adam that evening."

1 A. I do now.

2 Q. We know that Nurse Murphy was responsible for his
3 admission. It's fair to say, however, that in 1995 she
4 would not have been the most senior of the nurses on
5 the Musgrave Ward; isn't that correct?

6 A. I don't know who else was on duty that evening.

7 Q. Her estimation would be that she was perhaps one of
8 four. Does that sound reasonable?

9 A. It sounds reasonable, yes. You'll see I've said that
10 his urine output would therefore have been measured if
11 possible, and I have said that that was quite difficult
12 with Adam because --

13 Q. Given the timescales involved that night?

14 A. No, because he wore nappies.

15 Q. Another aspect that Miss Ramsay has made critical
16 comment about is the regular daily medication which was
17 noted in the admission record.

18 A. Yes.

19 Q. Which was recorded on the form. And Miss Ramsay was
20 critical of the nursing staff, namely Nurse Murphy, for
21 not having alerted the doctor to the need to consider
22 prescription of that medication. Is that a matter that
23 you think would have been proper for Nurse Murphy to
24 have done, to prompt clinical action from the medical
25 staff?

1 A. Well, I think it's irrelevant because he didn't get
2 medication during the night. And he was only there from
3 10 o'clock at night and went to theatre at 7 in the
4 morning, so there would have been no drugs that he was
5 regularly prescribed. We don't usually give children
6 medicine in the middle of the night. So there would
7 have been no reason for him to have drugs prescribed.

8 The next day, he was going to be in intensive care
9 and probably not able to take any oral medication, and
10 anything he got would have been written up on an
11 intensive care prescription sheet. So I don't think
12 there was any necessity to complete a prescription sheet
13 that night in that he was not due to receive any
14 medicines.

15 THE CHAIRMAN: So there may be times when you would expect
16 a nurse to prompt a doctor about drug prescription, but
17 this was not one of them?

18 A. No.

19 THE CHAIRMAN: Okay.

20 MR CAMPBELL: During her seven years in Musgrave Ward, was
21 Nurse Murphy a nurse across whose contact you came
22 often?

23 A. Yes.

24 Q. And did you regard her as a nurse who implemented
25 medical instructions correctly?

1 A. Her nursing practice and skills were of the highest
2 level. I had every confidence in Catherine Murphy.

3 MR CAMPBELL: Thank you.

4 THE CHAIRMAN: Mr Fortune, do you have any questions?

5 MR FORTUNE: No, sir, thank you.

6 THE CHAIRMAN: Okay. I think, professor, in the absence of
7 any other questions, as you finish, you have given
8 evidence for the last two days and I'm very grateful for
9 that. Is there anything more you want to say before you
10 leave the witness box?

11 A. I think the only thing I would like to say is that I'm
12 very concerned by the reporting of these proceedings and
13 its effect on children who are currently on dialysis and
14 awaiting transplants. If there are people from the
15 press here, I hope they will make it clear that we have
16 made considerable changes and advances in our management
17 of children with chronic renal failure and that we do
18 everything to make sure that their treatment is safe and
19 that our care for them continues to be of the highest
20 standard and they are children that are close to every
21 one of our hearts.

22 THE CHAIRMAN: Would you add to that the fact that before
23 Adam's death, the success rate which you had in
24 paediatric transplant was on a par with elsewhere in the
25 United Kingdom?

1 A. Yes, and continues to be, yes. But I do have concerns
2 about the effect of the hearings in causing worry to
3 current patients and their families, and I don't know
4 how we can mitigate that, but I'm sure Dr O'Connor will
5 take steps to do so in the hospital context.

6 THE CHAIRMAN: Thank you very much. Thank you for your
7 time, professor. If you want to sit back --

8 MS ANYADIKE-DANES: Formally for the record, right at the
9 beginning, you were asked by the chairman if you were
10 adopting all your previous statements and, for the
11 record, I think it's probably helpful just to have them
12 read in, if I could put it that way.

13 The first is your deposition to the coroner, which
14 was of 21 June 1996, and the reference is 011/015.
15 Then there is your first inquiry witness statement of
16 22 July 2005. The reference is 002/1. Then you have
17 a PSNI witness statement of 8 May 2006, 093/006. There
18 is a second inquiry witness statement of 14 April 2011,
19 002/2; a third inquiry witness statement of
20 28 September 2011, 002/3; a fourth inquiry witness
21 statement of 28 September 2011, 002/4; and a fifth
22 inquiry witness statement of 20 March of this year,
23 2012, and the reference for that is 002/5.

24 Thank you, Mr Chairman.

25 THE CHAIRMAN: Thank you, professor. Would you sit back for

1 a moment? Thank you.

2 Well, we'll resume tomorrow morning with Dr Taylor
3 at 10 o'clock. Mr Uberoi, unless I hear anything before
4 then, I will assume that Dr Taylor's starting position
5 is the statement which he volunteered to the inquiry
6 in February of this year.

7 MR UBEROI: Yes, precisely, sir.

8 THE CHAIRMAN: Thank you very much. 10 o'clock tomorrow
9 morning.

10 (4.30 pm)

11 (The hearing adjourned until 10.00 am the following day)

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