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Thursday, 26 April 2012

(9.30 am)

MR PATRICK KEANE (continued)

Questions from MS ANYADIKE-DANES (continued)

THE CHAIRMAN: Mr Keane, could I say before you start that I'm sorry about yesterday and I'm very grateful to you for allowing Dr O'Connor to come along.

A. Could I also say to you, Mr Chairman, that I now realise, having given oral evidence for two days, that I've written statements to the inquiry assuming you understood it from a surgeon's point of view and I can see I've caused confusion.

THE CHAIRMAN: Don't worry.

A. I apologise for that.

THE CHAIRMAN: I think we're getting closer to understanding.

MS ANYADIKE-DANES: Good morning, Mr Keane. It seems a long time ago since you were last giving evidence, but I think where we were was you had explained issues to do with the CVP and there were some matters that had been taken out of order with you. That may happen again as people feed me things they want to make sure are covered, but I'm trying to proceed in a chronological order for you.

A. Could I ask you to start from the very start of the

1 procedure again, if that helps you?

2 Q. Sorry?

3 A. Sorry, it's okay. I do apologise, sorry.

4 Q. I was going to go to the timing of the surgery, knife to  
5 skin. In your, I think it's your witness statement,  
6 006/3, page 12, in answer to question 22, I think, you  
7 are asked -- because you have previously been asked when  
8 the surgery, knife to skin, started. You have  
9 previously said approximately 7.15. So you're asked the  
10 basis of your claim that the surgery, knife to skin,  
11 took place at approximately 7.15. And you say:

12 "Having reflected on this, it would now appear that  
13 the surgery started at around 8 am."

14 What I want to ask you is what exactly you reflected  
15 on to change your view as to when knife to skin started.

16 A. Well, as I've tried to convey in the past, the CVP is  
17 the issue. He's a small child, we can't have an  
18 anaesthetist doing the CVP insertion procedure while I'm  
19 operating. So when I saw for the first time those  
20 truncated pictures, 17 years later, with 8 o'clock on  
21 it, it's an instant realisation -- for which I've just  
22 tried to explain -- to a surgeon that I couldn't have  
23 started at 8 because the first CVP reading, which is  
24 inherently the most important issue as I've tried to  
25 explain, took place at 8. It's unlikely that --

1 Q. Sorry, Mr Keane. I do beg your pardon interrupting but  
2 I didn't ask you about that. What I had asked you was:  
3 we had previously asked you when you started and you  
4 said you started at 7.15. This is knife to skin. So  
5 we were asking you why you thought it was 7.15 and your  
6 answer to that is you had reflected on matters and  
7 considered the evidence and you now thought, or it would  
8 now appear, that the surgery started at around 8. What  
9 you seem to be indicating is a reason for why it might  
10 not actually have started at 8 either. So the question  
11 was: why did you move or what was the evidence that you  
12 considered that moved your view from 7.15 to 8?

13 A. The first CVP reading.

14 Q. Well, let me help you with this. If I can pull up your  
15 deposition, which is 011-003-010.

16 This is actually better than your deposition, this  
17 is -- if you remember, you were asked if you would  
18 provide a statement. You provided -- this is your  
19 letter to Mrs Young, which then got turned into your  
20 deposition for the coroner. Do you remember that?

21 A. I do.

22 Q. If you look at that first line:

23 "I was asked to transplant this 4 year-old boy on  
24 Monday 27 November 1995. The operation started at  
25 7.30 am and was technically very difficult."

1           That is a statement that you are writing on  
2           11 December 1995, very proximate to the actual events.  
3           So we are trying to find out when the operation actually  
4           started. It seems that in your statement, your sixth  
5           statement, which is some considerable time after the  
6           events, you seem to be of the view that it's 8 o'clock  
7           and you now seem to be of the view that it might be even  
8           slightly later. So what I'm trying to find out is why,  
9           when you wrote a statement in your own words, very close  
10          to the event, you were able to put the operation  
11          starting at 7.30?

12   A. I don't have a watch on me, I'm trying to remember  
13          approximately. I stated in that an exact time. The  
14          reason -- so that is ... It's just an approximate  
15          memory because I don't have a -- I'm in theatre gear,  
16          I don't have my watch on me to say I --

17   Q. Is there a clock in theatre?

18   A. Yes, but I wouldn't necessarily look at it. It's an  
19          unimportant detail to a surgeon who's -- it just isn't  
20          anything that we would, as surgeons, think important,  
21          what time, because it doesn't make any difference as  
22          long as the patient is safely asleep.

23   Q. So you were going on to say when you thought the surgery  
24          had actually started, which seemed to be perhaps a shift  
25          in your position from your last statement.

1 A. Yes. I think I've tried to indicate why this might be  
2 so, but if you look at these documents and you say, as  
3 a surgeon: the first CVP reading is at 8, I couldn't  
4 possibly have started, I needed to scrub, I needed to  
5 talk to people, I can't put a minute on it but -- I need  
6 to prep the patient, put the drapes on. A nurse has to  
7 come with all the instruments, the diathermy,  
8 everything, set everything up and then everybody finally  
9 has to agree. That's knife to skin, but that -- if you  
10 estimate it, if you grant me that the first CVP reading  
11 was 8, and I don't know exactly because those records  
12 are compressed -- you'd have to expand them to see  
13 whether it was 8.03, 8.04 -- then I would give you  
14 a start time of five minutes to scrub and another five  
15 minutes to do the things -- prep Adam, wash him with  
16 antiseptic, put the drapes on. My best possible  
17 estimate for you is a start time of 8.10.

18 Q. Thank you. At that time, so when the CVP line is in and  
19 you've had your discussion with Dr Taylor at the monitor  
20 and told him what you expect in terms of CVP and then  
21 you have scrubbed and cleaned Adam and you're ready to  
22 commence, if I can put it that way, who's in the  
23 operating theatre?

24 A. My assistant.

25 Q. Mr Brown?

1 A. Mr Brown, sorry. My assistant, Mr Brown. A scrub nurse  
2 whose name I would not necessarily expect to remember.

3 Q. Mm-hm.

4 A. At the top of the table is the anaesthetic team, who are  
5 dynamic, so whether both were there at the very start  
6 or ... But there would be an anaesthetist. I've spoken  
7 to both of them prior to this scrubbing procedure.

8 Q. Sorry, did you mean you had spoken to both  
9 anaesthetists?

10 A. Well, if they were there, but I had given -- my evidence  
11 is that I had given clear instructions as to the  
12 conduct.

13 Q. What I'm trying to get at is: I'd heard before that you  
14 had spoken to Dr Taylor; I hadn't heard that you would  
15 have spoken to both of them if they were there.

16 A. See, unfortunately I wouldn't remember whether I was  
17 speaking to Dr Taylor and his assistant or just  
18 Dr Taylor.

19 Q. I understand.

20 A. I would have given instruction to -- it would have to be  
21 the consultant. You just know that.

22 THE CHAIRMAN: But if Dr Montague was there, you would not  
23 exclude him from that discussion; he would be included.

24 A. As I understood his role, he was in a teaching --  
25 I would expect him to be listening. I can't -- I don't

1 know whether he was there.

2 THE CHAIRMAN: I understand.

3 MR UBEROI: In fairness to the witness, I only rise to ask  
4 for clarification of the type of evidence he's giving as  
5 to whether he's giving evidence as to what he, in fact,  
6 recalls or whether he recalls what his standard practice  
7 would have been in order to re-piece together what might  
8 have happened.

9 MS ANYADIKE-DANES: Yes.

10 A. The latter.

11 Q. You're trying to piece together what might have  
12 happened?

13 A. In real time with you now, yes.

14 Q. Okay. Well, it is something that we do invite you to  
15 do, so I couldn't possibly be critical of it. But what  
16 would be very helpful is if you could indicate when  
17 you have moved in to, "This is what I think must have  
18 happened", as opposed to, "This is what I recall  
19 happened".

20 A. Unfortunately, I suspect I'm never going to come away  
21 from that position exactly. But if I have a --

22 THE CHAIRMAN: I know from your evidence of a few days ago  
23 that there are some things you remember.

24 A. At the points I can tell you that I specifically said  
25 something --

1 THE CHAIRMAN: If you do that and if you say, "I recall this  
2 and this is what happened", or if you don't recall it,  
3 just say, "I don't recall, but what I expect would have  
4 happened would be such-and-such."  
5 A. That would help you?  
6 THE CHAIRMAN: It would.  
7 MS ANYADIKE-DANES: The anaesthetist, the scrub nurse, two  
8 nurses maybe. Who else would be there?  
9 A. There's -- there would always be present, in an  
10 operating theatre, a nurse who is called a runner, but  
11 that's not quite ...  
12 Q. Circulating nurse?  
13 A. A circulating nurse, yes. And almost certainly -- but  
14 because I can't remember -- there would be an auxiliary  
15 nurse in and around the complex, coming in and out from  
16 these wash preparation rooms to -- in and out. But  
17 whether she was there at the very start, I couldn't  
18 confirm that because they have ... Outside the  
19 theatre -- and I have absolutely no recollection from  
20 the pictures of ... Outside a normal operating theatre,  
21 there is a space where the preparation that had gone on  
22 in the half hour, hour, before that the nurses were  
23 doing, the trolleys are laid out in some room with  
24 sterile covers on them as they check their instruments  
25 and count everything.

1           That is called a clean area. And normally, I don't  
2 know how that -- it's quite higgledy-piggledy over  
3 there, but in a normal operating room, you would  
4 normally have what they call a sluice room or a dirty  
5 area so people were not invited into there. They would  
6 understand not to come through the sluice area. If you  
7 wish to come to the theatre, you would come through the  
8 clean area or through the induction area where the  
9 anaesthetist would have put Adam asleep.

10 Q. Sorry, it is helpful, although we have some of those  
11 rooms marked on the site plan. What I was trying to  
12 ascertain from you is who was in the theatre. I think  
13 what you have said is there was a scrub nurse. That's  
14 the nurse that you would have your closest relationship  
15 with.

16 A. Mm-hm.

17 Q. Then I think you said there was a circulating nurse.

18 A. There would have to be.

19 Q. And then I think you said you thought there was an  
20 auxillary nurse who may have come in from time to time.

21 A. There would have been somebody there. That is the  
22 standard way the NHS think is safe to operate.

23 Q. So we are clear about this -- because you probably know  
24 there is a bit of an issue in relation to the nurses --  
25 does that mean there are three distinct nurses, even

1           though not all three are there all the time?

2    A.   Yes.

3    Q.   Thank you.  So the nurses.  Who else?

4    A.   At the very start, there's ...  Professor Savage would

5           have about in and out.  Now, can I recall he was there

6           as we just started or had he just left to come back?

7           There's a dynamic thing going on with Professor Savage

8           to my recollection that I recall him being there as

9           I stopped these episodes of concentration, but

10          I couldn't actually say that he was there when I started

11          the incision.

12   Q.   Is there a medical technical officer so far as you're

13          aware?

14   A.   No.  I have seen the confusion.  I would not expect

15          a medical technical officer to be in an operating

16          theatre unless there was an issue of the equipment being

17          faulty and therefore I can't imagine that I will have

18          started if there was some issue that there was a broken

19          piece of instrumentation that needed to be fixed.

20   Q.   Slightly different question.  Do you remember --

21   A.   No, I don't.  I do not remember.

22   Q.   Thank you.  Do you remember if Eleanor Donaghy was

23          there --

24   A.   No.

25   Q.   -- at the start?

1 A. At the start.

2 Q. And when the kidney arrives, which you say you either  
3 didn't bring it or have no recollection of how it got  
4 there, but obviously it did get there. And it comes  
5 with the transplant form.

6 A. Mm-hm.

7 Q. Dr O'Connor has given the evidence it's in some sort of  
8 plastic sheet, the transplant form. When do the details  
9 that the recipient centre have to complete -- when are  
10 they added?

11 A. After completion of the transplant procedure, some time.

12 Q. Ah. Just as we're on personnel -- so we don't have to,  
13 hopefully, revisit it -- I had been asking you about who  
14 the personnel were literally when you started.

15 A. Yes.

16 Q. And I think you had helped us by extending it and said,  
17 even past there, you do recall from time to time, as you  
18 drew breath from your concentration, if I can put it  
19 that way, that Professor Savage might be there.

20 A. That's correct.

21 Q. If we extend further and think about the duration of the  
22 surgery itself, can you help by who else you remember  
23 being in the operating theatre at any time, even if you  
24 can't particularly remember the actual time?

25 A. I have a recollection of Dr O'Connor, just her presence,

1           and I think -- I can't be certain -- that I have  
2           a recollection that at some stage the transplant  
3           coordinator was there, but I don't ... You know,  
4           I can't swear under oath to any of these things. I'm  
5           trying to remember. I think I have a memory of Eleanor  
6           just somewhere, not talking to her, but just being  
7           there, her presence.

8    Q. Thank you. I wonder then if we can move on to the issue  
9           of blood loss.

10   A. Yes.

11   Q. Dr Taylor in his deposition to the coroner -- we can  
12           look at it very briefly, 001-014-096 -- he says that  
13           there was substantial ongoing blood loss from the  
14           surgery.

15   A. Yes.

16   Q. So that's his position.

17   A. That's his position.

18   Q. If we look at witness statement 008/3, page 18, I think  
19           he says it's greater than 300 ml. There we are. That  
20           was his -- when we asked him about blood loss, he  
21           rechecked the blood loss measurements and he says it was  
22           a visible estimate, no accurate measurement was taken:

23                    "My estimate was greater than 300 ml."

24                    And there are other references also to what he  
25           viewed as the blood loss. Maybe if we take them in

1 order of, chronologically, when he said them. If we go  
2 back to 001-014-101 -- I beg your pardon. Can we go  
3 to -- pull up where he says "a significant blood loss"  
4 because I think he then goes on to say there was 328 ml  
5 of blood loss in the swabs, which started off light, but  
6 increased in size?

7 A. Mm-hm.

8 Q. If we go to witness statement 008/3, page 18, I think  
9 we will have him saying that there were 500 ml of blood  
10 in the suction bottle and an unknown amount in the  
11 towels and drapes. Do you see that there?

12 A. I'm sorry, I'm not -- I can't see it.

13 Q. I'm trying to see where he said that. I think I must  
14 have got an incorrect reference. I'm sorry. We'll find  
15 it and come back to it so that you can see what he is  
16 actually saying.

17 If we go to his -- he has three total figures,  
18 I believe. That may be a better way to look at it  
19 because you have your own view as to how that total  
20 would be comprised. The first total figure I think is  
21 given in 011-014-097. I think that total figure is  
22 1128 ml. There we are.

23 A. Yes.

24 Q. So it was a follow on from where I had you -- in fact,  
25 that's the whole bit I was looking for right there:

1            "I estimated this to be 500 ml of blood in the  
2            suction bottle and an unknown amount in the towels and  
3            drapes. I estimated this to be about 300 ml but they  
4            were heavily soaked. Thus, the total blood loss  
5            I estimated to be 1128 ml."

6            He goes on to say how he replaces that. So that's  
7            his first reference.

8            Then, in witness statement 008/5, page 2, he has  
9            1,211 ml there. Under (iii):

10           "Total estimated blood loss 1,211 ml throughout the  
11           procedure. I have no records of when the blood loss  
12           occurred, but I have estimated the following based on  
13           the time periods."

14           And he gives it there -- time period stage 4, 8 to  
15           10 -- and he gives his estimate of what he thinks that  
16           might be, 800 ml. Stage 5, estimate of 200 ml. Stage  
17           6, estimate of 211 ml. That is how he arrives at that.

18           Then in witness statement 008/1, page 7, I think he  
19           has a figure of 1411:

20           "To assist the inquiry, I have summarised the total  
21           fluids given to Adam with reasons."

22           Then if you see the answer to 2, he has estimate of  
23           losses as 1,411 ml. That is in relation to blood; he  
24           has other figures for fluids that he's replacing in  
25           other ways.

1 A. Sure.

2 Q. So that's Dr Taylor's position. Your position in your  
3 statements is very different from that. I think the  
4 first we can see -- if we look at your statement to the  
5 PSNI, 093-010-030.

6 Then I think you will see that, during the course of  
7 the operation, there was very little blood loss. So  
8 that's a starting point. Well, I will take you through  
9 your statements --

10 A. Could I pass a comment and come back to that?

11 I understand that that's what I've written, but it does  
12 not convey the meaning that I meant it to convey.

13 Q. Ah. Okay.

14 THE CHAIRMAN: Sorry, what meaning did you intend it to  
15 convey?

16 A. If I had had the opportunity to really consider, without  
17 these surgical issues insights, I would have put the  
18 comma before "loss and relative to the task at end",  
19 full stop.

20 THE CHAIRMAN: Okay.

21 MS ANYADIKE-DANES: What would that have meant?

22 A. That would have meant that I was a surgeon doing  
23 a difficult operation in which we had cross-matched  
24 a child and had anticipated that we would lose some  
25 blood. You can only visualise that, and it is

1 in relation to what I expected to lose, is the meaning  
2 of "relative to the task in hand".

3 Q. Okay. Well, let's go to your witness statement, 006/3  
4 at page 17, starting with 34. So in your previous  
5 statement you have said that surgeons are very aware of  
6 blood loss and will communicate concerns to the  
7 anaesthetist. Then you say -- you use a different term  
8 here:

9 "There was no major bleeding in Adam's case. His  
10 haemoglobin was 10 at the start and 10 at the end and he  
11 received between 250 and 350 cc blood."

12 So this is an answer to a series of questions that  
13 arise out of that statement. We ask you to provide your  
14 reasoned calculation for Adam's total blood loss during  
15 the transplant surgery and then we invite you to  
16 consider a number of things. Perhaps if we can go to  
17 page 18.

18 Well, just to say that you start at the bottom  
19 there, you give an explanation that:

20 "Paediatric blood units contain anything from 180 to  
21 250cc. Adam may only have received 360 ml of blood and  
22 ended up with a haemoglobin level 4 grams higher ..."

23 And it's quite clear from the anaesthetic record  
24 that there were two sets of 250, and I think that what  
25 you're doing is you are saying: well, the blood units

1           come in packs, some of them may be at 180cc, others are  
2           250cc. And what you go on to say is to posit that he  
3           could have, therefore, if he had had both of those  
4           infusions and they had been with the lower cc packs, he  
5           could have received only 360 ml even though he received  
6           both of those packs. Equally, he could have received  
7           500, which I think you concede.

8   A. Absolutely.

9   Q. One of the other things that you had previously said was  
10   you had said that his haemoglobin was at 10 and then  
11   started at 10 and went back to 10, if I can put it that  
12   way, or was 10 at the end. What I don't think you deal  
13   with is any changes that there might have been in his  
14   vital signs over the course of the surgery. So you  
15   don't appear to factor that in when you're having this  
16   discussion about blood loss.

17           In fact, I think we can easily see a chart,  
18   I believe, that will show that. If we look at  
19   307-006-071. If you look at that, you can see his  
20   haemoglobin levels at 7 am -- it's chart 5.

21           At 7 am, you can see 10.5. Then, at 9.30, 6.1. And  
22   11.30, he's at 10.6. So although in your way of  
23   portraying it he ends up in much the same position that  
24   he started off, there is a -- and it's for others to say  
25   how significant it is -- difference between where he

1 starts off and where he is at 9.30. If we go to the  
2 next page, I think one can see the chart, which is  
3 307-006-072.

4 There we are. You can see the chart of what's  
5 happening and that clearly shows his haemoglobin levels.

6 A. I'm looking at an oxygen saturation --

7 Q. If you look at the bottom, you can see "Hb 10.5" --

8 A. Yes.

9 Q. -- just to help in terms of when that's happening across  
10 the course of the surgical period.

11 So is there any reason why you didn't, when you were  
12 making your statement, "Well, he started off with one  
13 figure and ended up with much the same figure", why you  
14 didn't address the fact that it wasn't that figure  
15 continuously all the way through the surgical period?

16 A. Well, again, a surgeon would have taken that ... Yes,  
17 I have to comment on -- could I comment on Dr Taylor's  
18 estimates, his method of estimating?

19 Q. Yes, of course. For the purposes of this, could you  
20 answer that question though? Why you said in your  
21 statement that his haemoglobin was 10 at the start and  
22 10 at the end and he received between 250 and 350cc  
23 blood without explaining, "Yes, but at 9.30, actually,  
24 it was 6.1", and then going on to explain what the  
25 significance or otherwise might be of that.

1 A. I apologise, I understand. During surgery, obviously,  
2 at the beginning when you're doing the routine incisions  
3 to get to -- you bleed a little and your haemoglobin  
4 will change, but you have the potential once you get to  
5 the heart of the operation to have a major change in  
6 haemoglobin. So it's not a -- haemoglobin during  
7 surgery is not a static thing. That, to a surgeon, is  
8 given. I know I'm going to cause bleeding, therefore,  
9 by definition, your haemoglobin level is going to alter.  
10 Hopefully in a controlled way, but you have the risk in  
11 surgery that you might lose a lot of haemoglobin at any  
12 minute.

13 Q. I understand that, Mr Keane. All I'm asking you  
14 is: given we were seeking an explanation from you and  
15 you were explaining, why you didn't take into account  
16 that figure and explain it in whichever way you  
17 wanted --

18 A. The figure --

19 Q. Sorry, you might have said, "That was an entirely  
20 anticipated sort of fall and wouldn't have caused me any  
21 difficulty". Or you could have said something else.  
22 All I'm asking is why you didn't furnish the inquiry  
23 with the information and explanation.

24 A. My apologies. I had no knowledge of the middle result.

25 MR MILLAR: There is a subsequent question where Mr Keane

1 was asked specifically about the 6.1 and where he does  
2 address it specifically. I don't know whether my  
3 learned friend's question is why he didn't raise it  
4 spontaneously at an earlier stage. He certainly does  
5 address the issue and give his explanation for the 6.1.

6 MS ANYADIKE-DANES: It's that, why he didn't do that. Of  
7 course, he raises things when we --

8 A. I was never aware --

9 Q. -- specifically put them to him.

10 A. Because that information, as I've just tried to describe  
11 the operation, has to be communicated to me. I think it  
12 was very important, critically important, that that  
13 would be communicated to me. But those results were  
14 never communicated to me in real time.

15 Q. I understand that. But you were being asked for your  
16 view as -- because you had volunteered that there was  
17 very little blood loss. Remember how this starts. We  
18 had asked you to explain that and what you think the  
19 blood loss was. You then explain with all the benefit  
20 of the medical notes and records that you have, to the  
21 inquiry, what you think the blood loss is and this is  
22 how we start along this path of understanding your  
23 explanation. But you have now said something slightly  
24 different, which I would like to ask you about.

25 That fall in the haemoglobin levels to 6.1: is that

1 something that you would have expected to have been  
2 advised about?

3 A. It's critically important, as I tried to describe, that  
4 I understand everything -- everything -- because I can  
5 make decisions now which may significantly alter the  
6 course of these events. Every time there's an event  
7 that you speak to me about, I am unaware of in real  
8 time. I only look at them -- I never saw the  
9 anaesthetic record for 17 years or 15 years. Every  
10 single time -- the contract is ... My recollection of  
11 how I conduct a transplant operation is that I instruct  
12 the anaesthetist clearly to let me know what's  
13 happening. Everything. And there was no communication  
14 that Adam's sodium was 123 or 6.1. And these are  
15 critically important issues.

16 I am ... You probably, uniquely, as a urologist --  
17 because we deal with acute water intoxication, I would  
18 have been uniquely in a position to give an opinion on  
19 the significance, had I been told of what this issue  
20 was. I was never made aware.

21 Q. I understand. Thank you very much.

22 If we then deal with the actual formula, if I can  
23 put it that way, that you have used to explain the blood  
24 loss. One sees that at 006/3, page 18. There we are.  
25 So you've got your estimated blood loss equals the blood

1 volumes times the haematocrit start and HCT end over the  
2 HCT start. Having applied that formula -- and you  
3 accept that you can't know whether the blood loss was --  
4 how much he was actually given, so you work on both  
5 bases, if I can put it that way, and you end up with  
6 estimated blood loss -- well, bearing in mind his blood  
7 volume is 1,500 cc, you end up with estimated blood loss  
8 of 655cc or 468.

9 You say:

10 "From a surgical perspective, the lower figure would  
11 be more accurate."

12 Why do you say that?

13 A. Because Adam had been, whilst he was in the anaesthetic  
14 room -- without my permission, I would say, and without  
15 telling me -- he had been given 750 -- I would estimate  
16 from looking back, I wouldn't have known this because  
17 I have never seen the anaesthetic chart. But looking at  
18 it, if you can bring up the anaesthetic chart, it might  
19 help you.

20 Q. We can. That I think is 058-003-005. There we are.

21 A. Yes. The first time --

22 Q. Just to help everybody, can we just put a line through  
23 the time so that we can help. Right.

24 A. And a line through --

25 Q. One fifth saline, 4 per cent.

1 A. As a matter of professional courtesy to a fellow  
2 professional doing very difficult procedures, surgeons  
3 don't go into the anaesthetic induction room. There's  
4 a sign in many theatres saying: no entry during  
5 induction of anaesthesia.

6 Q. Yes.

7 A. So I could not -- well, there was ... It would be  
8 a matter of: don't go in because another professional  
9 has important work to do. During that time, as I look  
10 at that chart, somehow or other --

11 Q. Sorry, can I pause there so I find out -- where are you  
12 at that time?

13 A. Probably sitting in some coffee room waiting, waiting.

14 Q. Not speaking to the scrub nurse or anything?

15 A. Well, I may be -- speaking to anybody, but surgeons ...  
16 Particularly paediatric issues, it's a very stressful  
17 job for the child, the anaesthetist. Being an  
18 anaesthetist in this situation is critically important  
19 and they're very skilled people.

20 Q. But you're not in the operating theatre?

21 A. I couldn't -- definitely not in the induction, no.  
22 I have no recollection of the kitchen you were talking  
23 about yesterday. I have no recollection. I'd probably  
24 be sitting there waiting. Endless -- sorry, waiting.

25 Q. Adam wasn't anaesthetised in the anaesthetic room or the

1 induction room. Adam was anaesthetised in the operating  
2 theatre.

3 A. Yes, but he would have --

4 Q. Would there have been any reason why you couldn't have  
5 entered the operating theatre? So far as we are aware,  
6 and we can look at the witness statements if there's any  
7 doubt about it, Dr Taylor was in the operating theatre,  
8 a nurse was there, Adam was there, his mother was there.  
9 Dr Montague, because Adam was crying -- which is  
10 something you say you remember hearing, as I understand  
11 it -- was in the anaesthetic room setting up things.  
12 But the main parties were in the operating theatre. Is  
13 there anything that would have stopped you going into  
14 the operating theatre?

15 A. Well, could I explain? It's not exactly a handover,  
16 it's a dynamic process. You go into an induction room,  
17 the child is very upset, he gets an intravenous needle  
18 to calm him down, and then I don't know where the actual  
19 anaesthesia is, it's probably ... But it could be  
20 in the theatre. So basically --

21 Q. It was in the operating theatre according to -- sorry,  
22 that was the point of what I was putting to you. All  
23 those witnesses say that it was in the operating  
24 theatre. Adam was brought directly into the operating  
25 theatre and anaesthetised there.

1 A. Yes, that's a slightly more subtle -- he was brought  
2 into the induction room. I haven't seen any of this.  
3 He was probably sedated, if you like, given something to  
4 calm him down before he would be induced. That would be  
5 a normal procedure. I would understand that.

6 Q. Can you help me: do you know that for a fact that Adam  
7 was taken into an induction room and given something to  
8 calm him down?

9 A. No. I'm just -- again ...

10 Q. That's something. It's important to know the bits that  
11 you deduce and the bits that you know. You don't know  
12 that?

13 A. I don't know that.

14 Q. So does that mean that you are not in a position to  
15 counter the evidence that says he was brought directly  
16 into the operating theatre and anaesthetised there?

17 A. No, I can't.

18 Q. Thank you. In any event, I think what you were going to  
19 do was to explain the fact that without informing you or  
20 without your authority or permission -- that may have  
21 been the expressions you used -- that he was infused  
22 a quantity of fluid. Is that what you were going to  
23 explain?

24 A. That's right. And you can see the amounts ...

25 Q. We can. It is rather small, I accept that. Certainly

1 by 7.30, 500 had gone in.

2 A. That's right.

3 Q. And at 7.30, it would appear another 500 was started,  
4 which was to go over until somewhere up to 8.45, maybe  
5 just before that. There we are.

6 A. Yes, that's right.

7 Q. So if you're saying that you are doing things in the  
8 operating theatre round about 8 o'clock to permit  
9 a knife to skin at about 8.10 --

10 A. Could I clarify how this actual works in practice?

11 Q. Yes. And then can you say what you recall?

12 A. The standard practice -- I can't actually recall this,  
13 but the standard professional thing to do here is to not  
14 interfere with a consultant colleague. In other words,  
15 upset him because he's got things to do and he knows  
16 that. Essentially, a surgeon should be invited into the  
17 operating theatre when he, the anaesthetist, has  
18 everything done. That is how a professional  
19 relationship would work.

20 It would be unprofessional to open a door while  
21 a small child was potentially -- even having a drip up  
22 that might cause it to miss and say something. They  
23 need quiet and I have to understand it, no matter how  
24 impatient I am, I have to realise that as a professional  
25 courtesy, that this is how the procedure -- an

1 anaesthetist has a right to expect of me that I trust  
2 him to do whatever he's doing and to be allowed the time  
3 to do it. Otherwise, it would be, in my opinion,  
4 unprofessional behaviour.

5 Q. I understand.

6 A. That's how -- but I cannot -- that is why the only  
7 recollection I have is sitting somewhere.

8 Q. But I think you -- I think, other than the lack of what  
9 you say, professional courtesy, I thought you were going  
10 to make a point as to the significance of the fluid that  
11 he had been given --

12 A. Oh.

13 Q. -- before the knife to skin.

14 A. This is it, the critical decision in his management.

15 Q. Right. And what is that?

16 A. Well, if you look at it, in one hour ... If you look at  
17 it -- if you abstract yourself. Unfortunately, I now  
18 realise I see pictures of what's in front of me and  
19 that's why I have difficulty writing exactly what I'm  
20 saying. If you abstract yourself and take away  
21 anything, a 4 year-old child has been given 500cc and  
22 say -- surgeons work in ready calculators -- half ...  
23 So by 8 o'clock, he's got 750cc of Solution No. 18. And  
24 if I --

25 Q. Not necessarily.

1 A. Well --

2 Q. Because the second 500 is given over a longer period, so  
3 not necessarily. The one thing that seems to be  
4 reasonably certain from this record is that he got 500  
5 in the first half hour. That seems to be reasonably  
6 certain. Then he got a further 500 over the period of  
7 7.30 to perhaps 8.45.

8 A. I was trying to say that a surgeon's -- surgeons don't  
9 work ... As a practising surgeon looking at this, you'd  
10 say he's got somewhere between 600 and 750 or you take  
11 650. You'd say about 700 if you looked at it with  
12 any -- to figure that out. You'd normally say he's got  
13 500 and half the next 500 as a practising surgeon.

14 Q. Yes, and?

15 A. And he is now in -- without my permission, without  
16 telling me, he is in very serious danger that something  
17 is going to go wrong.

18 Q. Why do you say that exactly?

19 A. Well, it comes back to basic concepts, doesn't it? 750,  
20 say, or let's say a lower figure, 600 of Solution No.  
21 18. Solution No. 18 is one-fifth normal saline. That  
22 means four-fifths of it is water.

23 Q. Mm-hm.

24 A. Take 600. Sorry, I'm just under stress, I can do it  
25 quicker when ... Let me see now. 600, divide by 5.

1 I can't do it.

2 THE CHAIRMAN: 120.

3 A. Multiply that by 4. 480cc of free water is now  
4 available in Adam Strain. It has nowhere to go. It is  
5 searching for somewhere to go and if it ends up in his  
6 brain, he's in trouble. So if I had known this, there  
7 would be an immediate cancellation of the transplant.  
8 If I had known.

9 MS ANYADIKE-DANES: Would it occur to you that he might have  
10 been in fluid deficit and that's why the anaesthetist  
11 was administering those fluids? Because you wouldn't  
12 know from this whether he was or wasn't.

13 A. I would not expect any anaesthetist who had just been  
14 involved in one transplant procedure to assign to  
15 himself the competence to manage the deficit issue  
16 without contacting -- discussing with the two  
17 professionals who were available to him.

18 Q. And how would you know that the anaesthetist had not  
19 discussed it with the child's consultant nephrologist?  
20 Since you didn't actually have the conversation, how  
21 do you, at that stage, just looking at the anaesthetic  
22 record, how do you know that this isn't all done with  
23 the benefit of Dr Taylor having had a discussion with  
24 Professor Savage, who accepted that the child,  
25 regrettably, was in deficit and was seeking to address

1           that deficit as well as provide maintenance fluids? How  
2           would you know that?

3    A.   Again, this is a surgical assumption.  If I was saying  
4           what should happen to Adam Strain for an hour before we  
5           got his CVP line in to accurately assess the deficit,  
6           all he needed -- while we were waiting for however long  
7           to get the CVP in, all Adam was requiring was 75 ml.  If  
8           you scale it up -- as a surgeon looks at this, he's had  
9           ten times in one hour what I would have said he needed.  
10          You see the scale of difference in management from  
11          a surgeon to an anaesthetist who's ever been involved in  
12          one transplant procedure?

13   Q.   Well, we'll address how significant it is that he's  
14          anaesthetising a child in relation to a transplant  
15          procedure or anaesthetising a child for some other major  
16          surgery.  Leaving that aside, are you actually saying  
17          that you believe that the administration of fluids for  
18          this hour, if I can put it that way, before you're going  
19          to commence your surgery is something that actually  
20          should have been discussed between yourself and  
21          Dr Taylor?

22   A.   Or his ...  I could accept if Dr Savage and Dr Taylor  
23          agreed this plan because -- well, it's inconceivable  
24          that Dr Savage would have been involved.  And my reading  
25          of it was, it was two anaesthetists that drew up a plan.

1 Even --

2 Q. No, we get confused between your sort of ex post  
3 rationalisation and there. So what I think you were  
4 trying to help us with is: if you were there and you had  
5 just seen this, he'd left his anaesthetic record on the  
6 clipboard on the side and you'd seen that, you would be  
7 concerned to note that that amount of fluid had gone in  
8 just prior to you starting the surgery. That's what  
9 I thought you were saying.

10 A. More than concerned.

11 Q. And I was going to go on to say: and you would think, as  
12 a matter of at least professional courtesy, that that is  
13 something that should have been discussed with you;  
14 is that your evidence?

15 A. That is my evidence.

16 THE CHAIRMAN: Because it's so abnormal?

17 A. Because of the scale of difference of what I would  
18 assume had been done to what had actually been done.

19 THE CHAIRMAN: Yes.

20 MS ANYADIKE-DANES: Right. I see. So that could be  
21 a further point, which is because it is so different,  
22 you'd expect him to say: don't worry, I've done this  
23 because of X, Y or Z?

24 A. I would expect no doctor that I know to do -- to give  
25 that -- to plan to give that.

1 Q. I understand.

2 MR UBEROI: I entirely see what my learned friend is trying  
3 to get to the bottom of because the answer is, again,  
4 very different to the question as to whether or not he  
5 would expect to be notified of it, given that he is the  
6 surgeon and there is a consultant anaesthetist who's  
7 making the calculations as against the separate question  
8 of his view now after the event of the fluid  
9 calculations.

10 THE CHAIRMAN: As I understand the evidence, Mr Uberoi, it  
11 is that Mr Keane would not normally expect to be  
12 involved in the discussion with the anaesthetist about  
13 what fluids should be given, but that if it is as  
14 strikingly different as it was on the morning of  
15 27 November, he would expect there to be some  
16 conversation before that fluid was given. At the very  
17 least, a conversation between Dr Taylor and  
18 Professor Savage, if not a conversation with him.

19 Do I understand you correctly?

20 A. I can try to clarify it in another -- how a surgeon  
21 would look at it. But if you want to see the disparity  
22 between a surgeon and an anaesthetist in consideration  
23 of how a deficit problem would be, I can do another type  
24 of surgical analogy for you if it would help you.

25 THE CHAIRMAN: I'm not sure if that's going to take us

1 further away. If you follow my understanding of the  
2 exchanges over the last few minutes, it is this: you  
3 would not normally expect the anaesthetist to discuss  
4 with you what fluids he was going to administer because  
5 that's his job, it's not your job.

6 A. Oh, it's not my job.

7 THE CHAIRMAN: Therefore, you would not expect him to  
8 discuss what fluids he was going to administer with you.

9 A. No, the assumption is he would -- no, I would not.

10 THE CHAIRMAN: But if he was going to administer fluids of  
11 the type and the volume and at the rate which were given  
12 to Adam, you would expect him at least to have  
13 a discussion with Professor Savage and, possibly,  
14 a conversation with you; is that right?

15 A. No. I'd have to explain the significance of the figures  
16 to a surgeon. You're going to plan to give somebody  
17 half his blood volume in an hour. Now, to a surgeon,  
18 there is something very, very seriously wrong. You're  
19 either haemorrhaging as if you were haemorrhaging in an  
20 operating theatre, a massive trauma, to plan to give  
21 somebody half his blood volume. We think in volume  
22 rather than --

23 THE CHAIRMAN: Is that not why you would expect, before  
24 Dr Taylor did what he did, that he would have spoken  
25 either to -- would you have expected him to have spoken

1 to you?

2 A. Well, he's taking a decision here -- of course, because  
3 you need to be stopped, don't do it. Of course, if you  
4 make a decision of that magnitude, the actual decision,  
5 "I want to give somebody this amount and rate and volume  
6 of fluid", you must ask.

7 THE CHAIRMAN: Who must he ask?

8 A. He must ask me.

9 THE CHAIRMAN: Okay. Just one moment, Mr Fortune. Sorry,  
10 whether or not he has spoken to Professor Savage, he  
11 should speak to you?

12 A. Well, it's hard to ... The only person that can  
13 transplant Adam Strain is Mr Keane.

14 THE CHAIRMAN: Okay. Mr Fortune?

15 MR FORTUNE: Sir, I rise to intervene at this stage as to  
16 whether there is some mix-up between the words  
17 expectation and speculation. Because I am concerned  
18 when Mr Keane says, "I would have expected Dr Taylor to  
19 have spoken to Professor Savage". More correctly it  
20 might be the case: I am speculating as to that.

21 A. I would have expected him.

22 THE CHAIRMAN: Even if -- maybe the other way through it is  
23 this: even if he had spoken to Professor Savage, what  
24 you're saying is he was obliged to speak to you because  
25 of the consequences of this infusion of fluid for you as

1 the surgeon?

2 A. Absolutely. If you look at it another way, the  
3 partnership is Savage/Keane. Essentially you're here to  
4 mind Adam and you plan to do this. Why wouldn't you ask  
5 either ... It's not possible to understand it.

6 THE CHAIRMAN: Yes, but I'm sorry, I now understand your  
7 point to be that even if he had spoken to  
8 Professor Savage, he was obliged to speak to you if  
9 he was going to do what he did?

10 A. If you look at the structure of the team, yes, but it's  
11 inconceivable to me that a professor of nephrology would  
12 say: yes, that sounds reasonable, go ahead.

13 MR FORTUNE: Sir, I come back to this matter. We have heard  
14 from Professor Savage that it was his responsibility to  
15 deliver Adam to the anaesthetist and the surgeon in  
16 a condition whereby he was fit for anaesthesia and the  
17 surgery to follow. We're not talking about a team  
18 involving Professor Savage and Mr Keane. We're talking  
19 about the respective clinical responsibilities and  
20 duties and that must be made clear.

21 THE CHAIRMAN: I'm not sure how much more we need to go into  
22 this. In fact, on Thursday and Friday, we all heard  
23 Dr Taylor make essential concessions on this, which was  
24 that it was his decision. He did not speak to you about  
25 the fluid administration, he didn't speak to

1 Professor Savage about the fluid administration. So  
2 he wasn't seeking to blame either of the two of you for  
3 knowing about it and not stopping him or for not having  
4 played a greater part.

5 A. No, that's as I understood his evidence.

6 THE CHAIRMAN: Okay, thank you.

7 MR FORTUNE: Thank you, sir.

8 MS ANYADIKE-DANES: You end up in your statement, 006/3,  
9 page 18, with an estimated blood loss of 650 cc or  
10 468 cc. What I had asked you, which seemed to have  
11 prompted that debate about your consideration of the  
12 fluids, if only you knew what they were, was: why is it  
13 that you say, from a surgical perspective, the lower  
14 figure of 468cc would be more accurate?

15 A. I'd have to bring you back to the anaesthetic chart to  
16 tell you. It would be easier to understand. Because  
17 essentially, I can explain it to you.

18 Q. 058-003-005. There we are.

19 A. If you look now at any time in --

20 Q. And also for one-fifth saline, 4 per cent. Thank you.

21 A. At any time in which -- at 8 o'clock, you say it is  
22 reasonable for me to say, "I started", Adam had had  
23 a large infusion of water which was leaking, if you  
24 like, everywhere. His haematocrit -- this would happen  
25 very quickly, so his haematocrit at 8 would probably be

1 the same or more or less. But as you give him the  
2 HPPF -- can you highlight the HPPF? He's now giving him  
3 a fluid which will suck some of the water back in. And  
4 now his haematocrit will now start to fall. Somewhere  
5 in the administration -- and you see the Hartmann's?  
6 Q. Yes.  
7 A. Somewhere along there is this -- it won't fall acutely,  
8 but somewhere from the beginning of the 400, whenever  
9 that is exactly -- 0830, is it? Or 0815. The process  
10 of the dilution of Adam's blood, in my opinion, starts  
11 at 0830.  
12 Q. Okay.  
13 A. Right? So if you take a blood test at 9.30, I'm only  
14 speculating to you that a mechanism -- the experts  
15 can ...  
16 Q. Actually, I'm not necessarily encouraging you to  
17 speculate; I simply wanted the explanation. It's a very  
18 clear statement you make and I simply wanted the  
19 explanation so that when the inquiry's experts and  
20 surgeons give their evidence, they understand what lies  
21 behind some of these statements you make from a surgical  
22 perspective. That's all I want.  
23 A. I apologise. That's fine then.  
24 Q. What's fine?  
25 A. What I just said.

1 Q. Right, okay. Let's go back to the witness statement.  
2 006/3, page 18. After you've dealt with that, we asked  
3 you to:  
4 "Explain the quantity of blood which constitutes  
5 major bleeding."  
6 Because actually this is how all this started: you  
7 had a statement that said that there wasn't any major  
8 bleeding. We asked you what bleeding there was and you  
9 told us what it was. Then we wanted to understand what  
10 you meant by "major bleeding". You say in answer to  
11 that -- that's just below (b) there:  
12 "There is no strict definition of the term.  
13 A commonly used one is bleeding requiring more than two  
14 units of blood to replace blood loss."  
15 A. I should have said, "a commonly used one in adults",  
16 I suppose.  
17 Q. That's exactly what I was going to ask you about.  
18 A. My apologies.  
19 Q. That's okay. So that commonly used one, wherever it  
20 comes from, and whether it is common or not, whatever  
21 it is relates to adults; is that right? Yes?  
22 A. Yes, because I --  
23 Q. Thank you. That's fine. Thank you. I think that we  
24 had been able to get some help with if there is  
25 a definition of "major bleeding". It's a document that

1           you would all have received latterly. It's an article,  
2           and I think it's at reference 306-027-001. There  
3           we are. If wonder if we can increase that a little bit.  
4           Fortunately, what I'm directed to highlight is in the  
5           first sentence. It says:

6                     "In a medical setting, surgery is the most common  
7           cause of major blood loss, defined as a loss of  
8           20 per cent of total blood volume or more."

9           Then it goes on -- and I'm sorry that we don't  
10          have -- this is the abstract, of course. We don't have  
11          the full article; we're trying to get you the full  
12          article and I apologise for that. In any event, that  
13          seems a fairly clear statement.

14        A. Yes.

15        Q. Would you accept that that is one way of categorising  
16          major bleeding?

17        A. Well, as I said, there was no strict -- I would be  
18          happy --

19        Q. I understand that.

20        A. I would be happy to accept that.

21        Q. Okay. Then let's just think about the implications of  
22          that. You have two figures for your estimated blood  
23          loss.

24        A. Mm-hm.

25        Q. One is 655, arithmetic's not my strong suit, but here's

1           one I prepared earlier: 655 is 43 per cent, if you work  
2           it out on the basis of Adam having a blood volume of  
3           1,500 cc. Your lower figure of 468, I think, is  
4           31 per cent.

5   A. Yes.

6   Q. So even on your lower figure, if you're accepting this  
7           definition, there was major bleeding.

8   A. Yes. This was a major operation.

9   Q. Nobody actually has doubted that. The question came  
10           from your statement that there wasn't major bleeding.

11   THE CHAIRMAN: He's clarified that now so we can move on  
12           because you now say: very little blood loss relative to  
13           the task in hand.

14   A. Yes. That's the intention of this.

15   THE CHAIRMAN: You understand that that's not quite how we  
16           understood it, but I understand it in light of your  
17           evidence this morning.

18   A. Again, I understand as I've gone on that answers --  
19           I was assuming --

20   THE CHAIRMAN: A knowledge which we didn't have, thank you.

21   A. Which I ought to have known you didn't and I apologise.

22   MS ANYADIKE-DANES: There is a point that's important and  
23           I just want to be clear on it. I have understood from  
24           your last answer that you have conceded that there was  
25           major blood loss in Adam's surgery.

1 A. Yes.

2 Q. Thank you. Can I ask you, if there was, whether there  
3 was any discussion between you and Dr Taylor about the  
4 major bleeding?

5 A. Well, my evidence is that at no stage in the operative  
6 procedure of Adam did I hear anything that caused me  
7 alarm.

8 Q. That's a slightly different question.

9 A. Well, by definition, to a surgeon, if somebody was  
10 telling me there's a lot of bleeding here --

11 Q. Sorry, I beg your pardon. A slightly different  
12 question. Since you are the surgeon, it is your acts  
13 that are causing the bleeding, if I can put it that  
14 way --

15 A. Yes, you can.

16 Q. -- was there was any discussion between you and  
17 Dr Taylor about the fact that there was major bleeding?

18 A. Not to my recollection.

19 Q. Did you tell him anything about blood loss?

20 A. Other than to reassure him that I was where I felt  
21 it should be at. As I described it, it's a two-way  
22 constant communication: how is Adam, I'm doing fine,  
23 it's slow, a bit of bleeding. That type of thing.  
24 I would tell -- you see, a surgeon will automatically  
25 assume there's going to be bleeding. But there are

1 points in operations where you know there's  
2 a potential -- so you'd say: look, I'm going to do  
3 something quite difficult now, you need to be ready if  
4 something happens, you need to be ready with blood,  
5 et cetera, to go. But those kind of conversations  
6 I can't recall specifically because they're so -- this  
7 is the intimacy of the relationship between the  
8 anaesthetist and the surgeon.

9 THE CHAIRMAN: Okay.

10 A. I will warn you, that's the point. I'll tell you where  
11 I am.

12 MS ANYADIKE-DANES: And I appreciate that you're saying that  
13 you can't specifically remember whether you did that or  
14 not. But just so that we're clear: you're saying that  
15 it would be your practice to do that?

16 A. Well, yes, and put another way, if I didn't do it in  
17 Adam Strain, it's the first time that that omission ever  
18 occurred in my 30 years of surgical practice.

19 Q. Right. Then maybe we'll move now to the conduct of the  
20 surgery itself. Perhaps if we go to your witness  
21 statement 006/2, page 5. Up at the top, right up at the  
22 top under (a), you're being asked to explain,  
23 blow-by-blow, through half-hourly intervals what you  
24 were actually doing during the course of the surgery.  
25 And you have answered: well, we don't do it like that,

1 we don't record that sort of unit of time. But what you  
2 did do is you gave us the order, I believe, in which you  
3 did things or the phase of activity, if I can put it  
4 that way.

5 So your first bullet starts off with "incision,  
6 identification and exposure of the vessels". Then you  
7 go on to "isolation of the vessels", then "cleaning and  
8 preparation of the donor kidney" and the "vascular and  
9 ureteric anastomosis" and then "wound closure".

10 Just so that we're clear, you say:

11 "However, the steps in procedure are those."

12 Are those the steps in the procedure for Adam's  
13 actual surgery or just what you would usually do?

14 A. Sorry, I'm just reading it.

15 Q. Yes, of course. (Pause).

16 A. I would now change bullet point 3 if you asked me was  
17 this specific to Adam.

18 Q. That's what the question was designed to elicit --

19 A. I do see the point, yes.

20 Q. -- what you did throughout the period of surgery.

21 THE CHAIRMAN: How would you change bullet point 3?

22 A. This is transplantation. My practice was to generally  
23 clean a kidney in the clean room before in a sterile  
24 environment, but to leave the exact last minute trimming  
25 of patches and the trimming of the edges of the -- you

1 know, I wouldn't have cleaned and trimmed and prepared  
2 it exactly for the implantation because I would have  
3 done just immediately, I would have sized the ... This  
4 thing came with a big patch so I wouldn't have done the  
5 actual sizing of the precise -- the precise sizing of  
6 the patch to the vessel until the actual, as I was  
7 looking -- just before I was about to commence this  
8 procedure, I would have done it then.

9 So I would accept -- if you could accept that this  
10 is cleaning and preparation in that sense, I ...

11 MS ANYADIKE-DANES: We're just asking you what happened.

12 THE CHAIRMAN: Sorry, does that mean that you start to clean  
13 and prepare the kidney before the operation starts and  
14 you finalise that during the operation?

15 A. It's like fine-tuned it, yes. Sorry, thank you.

16 MS ANYADIKE-DANES: In the times that you have given us of  
17 what you were doing and where you were doing it on the  
18 morning of 27 November, when are you doing this, the  
19 first trimming of the kidney?

20 A. I would take a look at the kidney and take off the gross  
21 fat well before the operation ever commenced.

22 Q. I understand that. I'm just trying to understand when.  
23 In your evidence, you have identified a number of things  
24 that you were doing with different people at different  
25 times and sometimes in different places. I'm trying to

1 see where now you are saying that you were looking and  
2 inspecting the kidney and taking off some of the fat and  
3 so forth. When and where was that happening?

4 A. Well, I would normally do that -- I've described ... If  
5 you can remember the rooms in standard theatre, although  
6 I don't remember. I described a clean area where the  
7 sterile --

8 Q. Yes.

9 A. In a sterile environment like that, I would normally  
10 take the kidney out of ice to make sure I wasn't going  
11 to run into any particular issues, look at it, make sure  
12 I was happy that I wasn't going to have an unanticipated  
13 issue and take, if you like, the fat off.

14 Q. Yes.

15 A. And then wrap it back up and put it back into its ice  
16 bath. And then just leave it.

17 Q. And roughly when would you have been doing that?

18 A. I would have been doing that any time between half six,  
19 half seven. It's one of the -- I ... This is a very  
20 quick ... I have way of doing the totality of it, which  
21 is unique to myself. For me, before the operation,  
22 I would have gone in and taken a quick look at the  
23 kidney, made sure that I now confirmed to myself that  
24 the information I know about the kidney is correct, and  
25 then just quickly trimmed off the fat. And I would have

1 done that somewhere -- I'm trying to remember. In the  
2 clean room. It wouldn't be in the main theatre because  
3 if there was a child being put asleep, it wouldn't  
4 necessarily be there. But somewhere, I suppose ...  
5 Well, I'd have that done around -- it would be one of  
6 the first things I'd be looking to do, 7, half seven.

7 THE CHAIRMAN: How long does that take, just a few minutes  
8 or longer?

9 A. In my technique of doing this just a few minutes.  
10 I need to make sure there's nothing that the form has  
11 looked at and I just need to trim off the major pieces  
12 of fat.

13 THE CHAIRMAN: Okay.

14 A. For my own technique then to do the fine tuning at  
15 about -- before I'm about to do this anastomosis.

16 MS ANYADIKE-DANES: Yes. In order to do that, you may have  
17 been here when I showed -- was opening the case and  
18 I showed some photographs of a surgeon doing precisely  
19 that: taking the kidney out, inspecting it and so forth.

20 When you remove the kidney from ice, which I think  
21 you have just said you would have to do in order to do  
22 that, even though you would subsequently wrap it up and  
23 so forth, that's a very significant moment, is it not?  
24 The UK Transplant form has a specific box for when you  
25 do that, when you have to insert the time; isn't that

1 right?

2 A. Yes.

3 Q. Okay. Let's pull it up. 058-009-027. This is  
4 a standard form that everybody has to fill, both at the  
5 donor end and the recipient end. And here's the  
6 recipient. In fact it says:  
7 "This section of the form is to be completed by the  
8 recipient surgeon."  
9 Which is you. And under that, it says:  
10 "Kidney removed from ice at time."  
11 A. Okay.

12 Q. And the time has to be inserted and then there is  
13 another very important time, as I understand it, which  
14 is when the kidney is perfused with the recipient's  
15 blood. You have to put the time there.

16 A. Yes.

17 Q. Adam's form has been filled in to say that the kidney  
18 was actually removed from ice at 8.30.

19 A. Mm-hm.

20 Q. But I think I understood you to say that it was removed  
21 from ice at some time earlier while you did some of your  
22 preparatory -- inspection and preparatory work.

23 A. Yes, and I can illustrate this, I have anticipated this  
24 line of questioning.

25 Q. Can I first ask: who gave the information that the

1 kidney was removed from ice at 8.30?

2 A. Well, because ...

3 THE CHAIRMAN: Do you know?

4 A. I don't know.

5 MS ANYADIKE-DANES: Is that recorded anywhere other than on

6 this form?

7 A. Um ... I'm not sure. Have I seen this in his notes,

8 kidney out of ice time, I'm not sure. A coordinator

9 would fill this thing out and she may have ... Is it in

10 the ... I think it's written somewhere, is it? Kidney

11 removed from ice. I'm not sure. 0830.

12 Q. This is where Dr O'Connor got her information.

13 Dr O'Connor had information about what the ischaemic

14 time was and she got her information as to when the

15 clamps were taken off of the she was looking at this

16 form and got her information from this form. We know

17 this form was completed by Eleanor Donaghy, but what it

18 does say is it's supposed to be completed by the

19 recipient surgeon. She says in her evidence that

20 sometimes someone else will complete the form on the

21 basis of information that's provided. She says she

22 completed this form on your behalf and we can see her

23 witness statement, but I don't suppose you take much

24 issue about that.

25 A. No.

1 Q. What I'm trying to find out is: how could she have put  
2 in a time of 8.30 when that wasn't the time according to  
3 your evidence?

4 A. I think I now recall this issue. Yes, there is -- there  
5 must be somebody in the theatre who recorded in the  
6 notes that I took the kidney out of ice at 8.30 in the  
7 morning. I can't remember, somebody else must have --

8 Q. You might have, later on, taken the kidney out of ice at  
9 8.30 when you're going to do the continuation of your  
10 work on it, if I can put it that way. But what I'm  
11 trying to ascertain is why you didn't communicate to  
12 anybody that actually that kidney had been out of ice  
13 earlier.

14 A. Oh, I get -- sorry. There's a confusion about this.  
15 Kidneys can be taken out of ice for 2 seconds, 3  
16 seconds, and put back, you know. That doesn't mean  
17 they're going to get very warm. And there's one  
18 additional procedure in a child transplant operation,  
19 which is not standard in an adult. That's the position  
20 of the size of this adolescent kidney in relation to  
21 Adam.

22 Q. What has that to do with identifying the time that you  
23 take it out of ice?

24 A. Because, unlike any other transplant procedure, when  
25 I get to the -- when I've made an incision and I'm

1           trying to fix in my mind where this is going to go, how  
2           it's going to fit, have I got enough space to put this  
3           kidney that I'm looking at here now in front of me, how  
4           will it lie? I'm visualising the end --

5   Q.   Yes, of course.

6   A.   -- with what I would consider the expanded kidney. How  
7           will that fit? Is there any issue that it won't fit or  
8           do I need to go somewhere else? That decision is  
9           a separate decision in a child. Then you do that, take  
10          the kidney out of ice, and then you wrap it up, put it  
11          back in again.

12   Q.   That wasn't your evidence a little while ago. Your  
13          evidence a little while ago was you took the kidney out  
14          of ice, had a look at it to see if there were any  
15          difficulties and then you started to take off some of  
16          the excess fat and one thing and another, which you  
17          refined at your third bullet in your witness statement.  
18          That was your evidence.

19   A.   Yes, I can see now -- so you can take it ... In 1995,  
20          the descriptive way of a transplant surgeon doing it --  
21          kidney out of ice ... The official kidney out of ice  
22          time is the official intent to start the anastomosis.  
23          Because it was acceptable to take the kidney out for  
24          a second or two -- 10 seconds, 20 seconds -- but put it  
25          straight back in. But as I trained, the actual official

1           time, ie if you transpose it, this time that I would  
2           therefore start the actual anastomotic procedure.  
3           That is what I understood, as the surgeon in 1995, to be  
4           the kidney out of ice time rather than these little  
5           interludes of taking it in and out to have a look.  
6 THE CHAIRMAN:   When you're in theatre and you take it out  
7           and you do what I will crudely call the final trim, does  
8           it go back on ice?  
9           A.   No.   This is the anastomosis.  
10 THE CHAIRMAN:   So its final removal from ice is when you're  
11           in theatre and you take it from the ice to do the final  
12           trim?  
13           A.   And I'm now -- because I'm ...   By the time I'm taking  
14           it ...   If I can explain it, how I did it, you can ask  
15           me any questions.   Basically, you set the arteries and  
16           veins, you've got to clamp them so they won't bleed,  
17           you've got to -- the first one is the vein normally so  
18           you have to make a little incision in the vein and  
19           you've seen that.   That's done.   And then the kidney  
20           comes out and you look visually at how the edges of the  
21           vein are going to look, how they fit, how they size.  
22           And then you do the same for the artery, in this case  
23           I just had to cut the middle of it off and just sew it  
24           together then.   And then I look at it --  
25 MS ANYADIKE-DANES:   Can I pause you there?   I have been

1           asked to address that point with you. We know it had  
2           two arteries on the patch and you have accepted that.  
3           Were those two arteries of equal size?

4    A. Yes.

5    Q. Thank you.

6    A. I would consider, as I practised in 1995, the surgical  
7           definition of kidney out of ice time is that time when  
8           you take the kidney out with the intent to start the  
9           anastomosis, although you may, in my individual  
10           practice, have perhaps, you know, the final trimming to  
11           do. I would never put it back into the ice as soon as  
12           I had taken it out to start this procedure. Adam was  
13           slightly different in that I knew that I would -- the  
14           patch ... You see, the problem with the patch is, if  
15           you leave a long patch, I have got to make a long  
16           incision in his artery. If you shorten the patch --  
17           it's all about Adam -- the incision in Adam's artery is  
18           now much smaller.

19   THE CHAIRMAN: Thank you.

20   MS ANYADIKE-DANES: Right. Now that we understand the order  
21           of -- I think you were dividing your third bullet, a bit  
22           of the third bullet was going first and the rest of it  
23           was staying in the third bullet.

24   A. Yes.

25   Q. So what I want to take you now to is your definition of

1 warm ischaemic time. Because if your order remains the  
2 same, you're making your incision, doing your further  
3 work, and then you get to what you had in your third  
4 bullet when you actually start to do further work on the  
5 donor kidney; is that right?

6 A. Yes.

7 Q. I think it's in your witness statement, 006/3, page 7.  
8 And then in fairness to you, I think that first bit of  
9 preparatory work, I think it's what you have tried to  
10 explain in answer to (e) to help you. It states:

11 "State if the preparation of the donor kidney was  
12 undertaken immediately before the vascular clamps were  
13 applied and, if not, state [inaudible] performed."

14 And you say:

15 "It was my practice to prepare the kidney before the  
16 skin incision."

17 Now, that preparation, is that the initial  
18 preparation that you are explaining to the Chairman, so  
19 that's what you mean there?

20 A. Yes.

21 Q. Okay. Then we asked you to state what the warm  
22 ischaemic time for the -- when it started for the donor  
23 kidney. Then you go on to actually explain a process  
24 and reach a view as to what the extent of the warm  
25 ischaemic time was. You say:

1           "The kidney was kept in swabs, wrapped in slushed  
2 ice [and so on] and during the preparation and return to  
3 the ice solution at the end of the preparation."

4           And you say that you can't state the time of the  
5 vascular anastomosis:

6           "But the kidney is wrapped in ice soaked swabs  
7 during the time taken to perform the anastomosis and the  
8 true ischaemia time when the renal vein clamp is removed  
9 to removal of the arterial clamp was seconds as there  
10 was no need to reapply them."

11           So you say for this donor kidney, the warm ischaemic  
12 time was seconds; is that your view?

13 A. As I defined -- and most urologists, but perhaps not all  
14 modern transplant surgeons, most urologists, and as  
15 I practised in transplantation, warm ischaemia time  
16 defined blood in the kidney, not -- you see, up to the  
17 point I released the clamp --

18 Q. Sorry, let me pause you there because I don't want you  
19 to be answering something I'm really not asking you.  
20 The whole point about the warm ischaemic time is it is  
21 a period over which there can be, if I can put it that  
22 way, some deterioration in the kidney. That's the point  
23 of it. So however you define it, what people are trying  
24 to get at is a period of time over which the kidney  
25 might actually suffer some sort of damage. And that is

1           likely to have, or might have, an effect on delayed skin  
2           graft and ultimately the success or not of the  
3           transplant itself. That's the significance of it, isn't  
4           it?

5   A. Yes.

6   Q. Right. So if we start with that, and then let's have  
7           a look at what the inquiry's experts say --

8   MR MILLAR: The witness was trying to explain maybe his  
9           definition of warm ischaemic time and he was cut off  
10          trying to explain that. That may or may not be terribly  
11          important, but I think certainly my learned friend did  
12          cut him off when he was trying to explain it.

13   THE CHAIRMAN: You're saying that your definition of warm  
14          ischaemic time might be rather different from the  
15          definition of modern transplant surgeons?

16   A. Yes. As I understand it, the definition of the term,  
17          kidney out of ice time is what my definition of what the  
18          transplant surgeons are saying is the second warming up  
19          time. That's my definition of kidney out of ice. Warm  
20          ischaemia to a urologist implies -- implicit in it is  
21          the presence of blood back in the kidney. By  
22          definition, therefore, I've had to release one of the  
23          clamps. The reason for that is whereas the second  
24          warming up time -- kidney out of ice time is  
25          controllable, once you start putting blood -- let's say

1 Adam's, which it didn't, started bleeding from the renal  
2 vein and we had blood in the kidney but had the clamps  
3 back on, now the kidney is in far greater danger of  
4 damage. And it was, as I practised it, defining -- it  
5 was refining, defining, the issue of ischaemia.

6 Kidney out of ice equals their definition of second  
7 warming up. But as I practised it and defined it, the  
8 critical thing -- the actual area where you'd damage it  
9 if you released a clamp and had to put it back on again,  
10 and that was how urologists define warm ischaemia.

11 MS ANYADIKE-DANES: Thank you. I'm very sorry I cut you off  
12 and didn't permit you to give that explanation. Can we  
13 have it from how I think you responded to the concern  
14 that I was expressing that you accept that that period  
15 where the kidney is out of ice, however long it may be,  
16 is a significant period in and of itself because the  
17 kidney, as it warms up, can suffer damage?

18 A. Yes.

19 Q. Thank you. So if we go to the inquiry experts' report  
20 of 203-004-063. It starts right down at the bottom when  
21 they're talking about anastomosis time. It's going to  
22 go over to the next page. I wonder if we could pull up  
23 the next page next to it, 064, so one can see them  
24 together?

25 If we see, it says:

1           "The anastomosis time is the same as the second warm  
2           ischaemic time. It begins when the kidney is removed  
3           from the cold and ends when the recipient's blood is  
4           perfused into the kidney. During this time, the  
5           assistant surgeon holds the kidney in a manner which  
6           facilitates the operating surgeon in performing the  
7           anastomosis, the join between the vein of the kidney and  
8           the veins of the recipient plus the artery of the kidney  
9           and the artery of the recipient."

10           So there is work to be done and:

11           "Because of this position, the kidney is in direct  
12           contact with both the recipient [Adam in this case] and  
13           also the gloved fingers of the surgeon. These two forms  
14           of contact, the ambient temperature and the energy of  
15           the strong operating lights mean that the kidney  
16           gradually warms, rising to a core temperature above 10C  
17           at approximately 20 minutes. During this time, the  
18           operating surgeon stitches the vein of the kidney to the  
19           chosen vein of the recipient and, in addition, the  
20           artery of the kidney is stitched to the artery of the  
21           recipient. If the surgeon is content with how the  
22           anastomosis has been performed, the vessel clamps are  
23           then released, allowing the blood into the kidney."

24           Do you recognise that process?

25   A. No. Well, I recognise the process, but it definitely is

1 not the way --

2 Q. But you recognise that process?

3 THE CHAIRMAN: It's definitely not the way what?

4 A. The way I would do it, but I recognise the process. It

5 definitely would have differences.

6 MS ANYADIKE-DANES: I'm going to ask you about those.

7 Do you recognise, though, that even though you're trying

8 to wrap the kidney up, that there will be some process

9 of warming, depending on how long that process

10 continues?

11 A. Well, I would remove the word "trying". The kidney --

12 I was trained to a very specific technique in protecting

13 the kidney from warming as I did it. As I trained with

14 Professor Williams in the Hammersmith, if my gloved

15 finger touched a kidney in the time, direct contact ...

16 As I read this:

17 "Because of this position, the kidney is in direct

18 contact with the recipient and also the gloved fingers."

19 If I understood that and I was assisting the

20 professor who taught me, I'm not -- I would want to

21 count my fingers.

22 Q. Let's look at two pictures, which I think are trying to

23 show it, and then you can say how it's different. That

24 might be easier to illustrate it in that way. I think

25 300-044-062. I think that's one. There. That's just a

1 kidney being worked on, as I understand it.

2 A. Well --

3 Q. Do you recognise that?

4 A. I recognise --

5 Q. Yes. So although there is some ice around there,  
6 obviously the kidney is not directly in contact with any  
7 ice and it's out of the container it came in, which was  
8 protecting it.

9 A. Oh, a kidney would never be in direct contact with --

10 Q. I understand that, but it's out of the container which  
11 was protecting it.

12 A. Yes.

13 Q. Yes, exactly. Then can we look at 300-045-063, I think?  
14 There it looks like there are two vessels there that are  
15 being worked on, but there's more work going on in the  
16 kidney.

17 A. Mm-hm.

18 Q. While that work is going on, the kidney is exposed, if I  
19 can put it that way.

20 A. Yes. This is very close to -- this is the final trim  
21 for that particular surgeon.

22 Q. Yes, but whatever it is, the kidney for that -- whatever  
23 period of time it takes, the kidney is exposed.

24 A. I personally wouldn't actually do it like it's  
25 demonstrated there. We were trained in the Hammersmith

1 to wrap the kidney as if it's in a duvet, nothing  
2 showing. The ureter would be flicked up and the only  
3 thing that's coming out that's in contact with warm air  
4 or cold are the vessels. You see that kidney is  
5 completely exposed to warm air. I was trained  
6 completely differently. I was trained to soak a swab,  
7 just have the vessels coming out, and the kidney is now  
8 wrapped in an ice-soaked swab with the ureter flicked up  
9 on to it so that no part of the kidney ever saw warm  
10 air. That is how I did my 250 transplant procedures.

11 I would hesitate to say, but in one way I don't  
12 recognise this. I would consider it ... Well, I've  
13 just described how I would do it.

14 MS ANYADIKE-DANES: Yes. Mr Chairman, I'm going to put to  
15 the witness something, and I wonder, given that we  
16 started at 9.30, whether it's not an appropriate time.

17 THE CHAIRMAN: Yes, we'll break for 15 minutes and be back  
18 at 11.15.

19 (11.00 am)

20 (A short break)

21 (11.18 am)

22 MR HUNTER: Mr Chairman, could you please give us about five  
23 minutes, if that is at all possible? There's an issue  
24 which has arisen, which I think can be sorted, but if  
25 you could allow us just five minutes.

1 THE CHAIRMAN: Okay.

2 MR HUNTER: I'm very grateful, Mr Chairman.

3 (11.19 am)

4 (A short break)

5 (11.24 am)

6 MR HUNTER: I'm very grateful to you, sir.

7 MS ANYADIKE-DANES: What I wanted to do was, firstly, to  
8 provide three photographs so that we can just visualise  
9 what you're talking about and, in the same way, you can  
10 say, "No, I wouldn't have done that, so that's not  
11 representative", or, "Yes, that looks like the sort of  
12 thing". Because it's quite difficult to envisage what  
13 you're actually describing in terms of trying to  
14 preserve the kidneys -- the chill, if you like, for the  
15 kidney.

16 So I wonder if we could first pull up 300-051-069.  
17 There we are. You had referred to some sort of wrapping  
18 around the kidney; is that the sort of thing you're  
19 talking about?

20 A. That's exactly the -- well, it's not exactly the  
21 technique, but --

22 Q. I understand that. If we look at 300-052-070. That  
23 looks like the two surgeons working; is that right?  
24 That is slightly further down in the sequence. I can  
25 tell you what that ... And that's the same sort of

1 gauze covering thing over the kidney, I think, in the  
2 surgeon's hand.

3 A. Other than they've let it slip -- the gauze is up.  
4 We were trained never to have a kidney, you know, out.  
5 Do you want I mean? We wouldn't have the lower end of  
6 the kidney out, just the vessels only. There was a way  
7 of doing the swab that -- maybe it was only  
8 Professor Williams' own technique. When we did it, the  
9 whole kidney, all of it, except these protruding  
10 vessels -- there was no kidney tissue visible under  
11 the ... All you'd be looking at is a swab, you'd see  
12 none of the kidney in the technique that I was shown how  
13 to do this.

14 Q. Okay. Then this might help. I had cited to you  
15 a figure for the rate at which the kidney warms up,  
16 which had come from the inquiry's experts, and I think  
17 it actually comes from a paper that one of them wrote,  
18 but in the course of it, they talk about the covering of  
19 the kidney and this might help you explain things.

20 It's 306-029-001. You will have seen this. It was  
21 provided towards the beginning, I believe, of these  
22 hearings. If you look at the top, this was presented at  
23 a meeting of the Association of Surgeons of  
24 Great Britain in 1989. For it, the Moynihan prize was  
25 awarded to John Forsythe -- that's the John Forsythe,

1 expert for the inquiry -- and others.

2 The whole purpose of it was to investigate how you  
3 would reduce renal injury during transplantation. If  
4 one looks at the little abstract there towards the right  
5 you can see just very quickly the point:

6 "Damage sustained by an ischaemic kidney is reduced  
7 by cooling the organ. For this reason, kidneys are  
8 rapidly cooled during the retrieval period and preserved  
9 at low temperature before implantation."

10 And then it goes on to say:

11 "When the kidney is removed from cold storage for  
12 implantation into the recipient, it gradually warms,  
13 which is called the second warm ischaemic time and a  
14 prolonged warming second ischaemic time has been shown  
15 to be a cause of acute tubular necrosis following  
16 transplantation. The temperature rise in a kidney  
17 during implantation has been poorly investigated and  
18 little work done to minimise that rise has been carried  
19 out."

20 And this is the point of the work they were doing.  
21 And the upshot of it is, if one looks over the page to  
22 306-029-003, which is the usual discussion part of  
23 a paper, right at the top, they say:

24 "The study has demonstrated that the core  
25 temperature of kidneys stored before transplantation is

1           between 0 and 1 degrees C, a fact not always appreciated  
2           by transplant surgeons."

3           Then they talk about preserving it and then in the  
4           second paragraph:

5           "A number of studies have demonstrated that keeping  
6           a kidney cool during a period of ischaemia improves  
7           ultimate function."

8           Then they talk about the ways in which people seek  
9           to do that: pour cold saline intermittently on the  
10          kidney. They say that they have conducted an experiment  
11          to show that doesn't particularly assist and then they  
12          say:

13          "In order to obtain a satisfactory cooling effect,  
14          cold saline had to run over the kidney in a continuous  
15          stream."

16          Then they talk about the methods of keeping the  
17          kidney cool and using jackets. Is that what you're  
18          talking about, the jacket?

19    A. Well, it's like wrapping it in a duvet. We didn't have  
20          a system for continuous ice flow. The nurse would be --  
21          some nurse would be requested to keep going over with  
22          the 20cc syringe to the ice bath to bring the storage  
23          which was ... I understand was 0 and 1 degrees  
24          centigrade. Ice damages you, if you touch your hand  
25          with ice, it's bad for you.

1 Q. Yes.

2 A. The actual was -- 0 to 4 degrees was the acceptable when  
3 I trained. So we had this fluid coming constantly --

4 Q. At what stage? When you're working on the kidney?

5 A. What I defined as the kidney out of ice time. By the  
6 time you get finished with transplant, your fingers  
7 should be quite cold.

8 Q. When you're working on the kidney, which is effectively  
9 to join the kidney up, all the work that you have to do  
10 on it, are you saying that a nurse is continually  
11 pouring cooling fluid over that kidney?

12 A. Well, very regularly as distinct --

13 Q. Very regularly?

14 A. Yes.

15 Q. In any event, a nurse is doing that?

16 A. That is part of the procedure.

17 Q. No, no.

18 A. Sorry, a nurse is doing that.

19 Q. Are you saying that is happened during Adam's surgery?

20 A. Yes.

21 Q. You recall that?

22 A. Well, I don't recall it, but there's a floor nurse,  
23 a circulating nurse. That would be her function.

24 Q. I understand these things, Mr Keane. I'm sorry to --

25 A. I don't recall it.

1 Q. -- appear pedantic. But it's quite important -- the  
2 things that you do recall and then other people know the  
3 status of that evidence. Because there are other  
4 witnesses going to come and will be asked about the  
5 things that witnesses have said.

6 THE CHAIRMAN: You don't recall it, but are you saying it  
7 was your invariable practice?

8 A. Yes.

9 MS ANYADIKE-DANES: Thank you.

10 A. My apologies.

11 Q. Leaving that aside, what is it you say the kidney is  
12 wrapped up in?

13 A. In the swab technique?

14 Q. In roughly the same sort of thing I showed in one of  
15 those photographs?

16 A. A slightly different technique, but the same thing.

17 Q. That you say is able to achieve a continuation of its --

18 A. No, I mean, that's ... That is why a surgeon cannot  
19 be -- you know, before you start all this, you would now  
20 turn to the whole team and say, "I'm out now because  
21 when I take this kidney out it's going to start to warm  
22 up, we're going to try and keep it as cool as possible".

23 Q. But it will warm up.

24 A. It's going to start to warm up.

25 Q. Thank you very much. That's really all I was trying to

1 establish. The reason for that is because I had  
2 misunderstood how you were defining the second warm  
3 ischaemic time. So it is going to warm up over a period  
4 of longer than the seconds in the way that you define?

5 A. That's right. And the reason we applied the definition  
6 of our warm ischaemia was the really dangerous  
7 warming-up was when blood was in the kidney. That's how  
8 we defined it.

9 Q. Yes. I wonder if we can go now to the actual surgical  
10 approach, the actual anastomosis. Before you do that,  
11 you have, I assume -- maybe I shouldn't assume anything  
12 and just ask you. Have you identified where the kidney  
13 is going to lie in Adam's abdomen, if I can put it that  
14 way?

15 A. Yes. That's the first confusion about, if you look  
16 at the logical timescale. At 830 hours, we are nowhere  
17 near ready to do the final bit, so I took it out to size  
18 it so I would know when I had dissected these arteries  
19 or vessels where, within a space of 3 to 4 centimetres,  
20 I needed to release the tissues around the arteries to  
21 perform the function. What you are using there is your  
22 experience and vision of what's going to happen.  
23 Unfortunately, in Adam's case because of the fibrosis  
24 and adhesions of his previous surgery, this was going to  
25 take much longer than normal -- that part of the

1 operation. So now I visualised the size, which and  
2 where artery I am going for. If I go there, is the  
3 kidney going to be a problem as I let it down to lie  
4 naturally? I have to assure myself that that's not  
5 going to be a problem.

6 It would be ridiculous to do this procedure and then  
7 find you couldn't actually place the kidney, having done  
8 the anastomosis and then, when I've done that, pop the  
9 kidney back into ice and, if you like, then the real  
10 work of this up and down -- because of the technical  
11 difficulty of rupturing a vein or something, began.  
12 I can't -- after 8.30, essentially a surgeon does not  
13 expect to hear any unexpected news because we have the  
14 plan, everything should be in order. I'll just need to  
15 listen now to Adam's blood pressure, CVP, and I need to  
16 listen to it in my mind. My mind works in ... I don't  
17 have to subconsciously ask a figure. You kind of know  
18 that the anaesthetist is telling you --

19 THE CHAIRMAN: I understand. We understand that.

20 Thank you.

21 MS ANYADIKE-DANES: Can we just pull up two of your previous  
22 witness statements to see if we can clarify something?  
23 093-010-029. I think you said the technical  
24 difficulties encountered during Adam's operation were  
25 related to the difficulty in gaining access to the major

1 blood vessels required for the transplant.

2 A. Mm-hm.

3 Q. "Another difficulty is the calibre of the blood vessels  
4 required for the transplant."

5 A. Mm-hm.

6 Q. What did you mean by that? What difficulty was posed by  
7 the calibre of the blood vessels required for Adam's  
8 transplant?

9 A. Well, essentially to a transplant surgeon, not having  
10 Adam open, you need to have an exposure to three  
11 vessels. The aorta, the common iliac and the external  
12 iliac artery. For a child -- a decision -- of that age,  
13 a decision has to be made, you know, you look -- well,  
14 an aorta procedure would never really have been on for  
15 this. So we're talking about the iliacs.

16 A decision has to be made as to whether you would  
17 put it on the common -- the external, but the kidney's  
18 too big to look at the internal, so that's out. So  
19 there's only really two choices and, as I practised, it  
20 really was essentially my decision. My surgical  
21 experience and decision matched the size of the kidney  
22 as to which vessel I choose. I can't remember all of  
23 this decision-making absolutely with Adam, but I would  
24 have felt I was experienced enough to make that decision  
25 at that time.

1 Q. Well, let's have a look at your witness statement,  
2 006/3, page 6. But as I understood you, what you're  
3 trying to do is trying to find a vessel of, in a small  
4 child, of sufficient calibre to suffice for what is,  
5 actually, a rather large organ?

6 A. Yes, but in Adam, excluding the aorta, this is going to  
7 be a decision between the common and external, and  
8 exclude the internal, it's too small. So essentially,  
9 if you look at the iliac system --

10 Q. Let's try and help you with that so you're not  
11 explaining blind. 203-004-082. There we are. That is  
12 a diagram produced by the inquiry's experts.

13 A. Could I say to you that the best illustration is the  
14 catheter -- the bottom photograph of the catheter issue  
15 that you have. It illustrates it much better, the iliac  
16 system.

17 THE CHAIRMAN: Sorry, the photographs we were looking at  
18 a few minutes ago?

19 A. No, no, two days ago when we dealt with the catheter  
20 issue. I'll do it on this if you like.

21 MS ANYADIKE-DANES: Can we do it on this first so as not to  
22 take time?

23 A. Right. If you look at the big aorta, it goes down and  
24 branches left and right. That first branch, if you  
25 like, before the internal iliac artery -- do you see it?

1 Q. Yes.

2 A. That is called the common iliac artery. It's quite  
3 short in a small child, it can be very -- it depends on  
4 how a child is actually ... You know, there's long  
5 children and quite chunky children, if you like.  
6 I don't ... But that segment of the common iliac artery  
7 in a 4 year-old can be quite short.

8 The branch going down to the ...

9 Q. Sorry, Mr Keane. I hope you can press on with this  
10 diagram because we're trying to extract the right one?

11 A. The internal iliac is the one going down and the  
12 continuation of that common iliac artery is the external  
13 iliac artery, and that's known in the trade as the iliac  
14 system.

15 Q. Yes. Which are the ones that you say were the choices  
16 that were available to you?

17 A. Well, they were all available, but I would discount the  
18 aorta because I wasn't doing anything extraordinary.  
19 I would refer any child that I would have anticipated --  
20 could have anticipated that this procedure for a child  
21 would require an aortic procedure, I would have referred  
22 to London. So in my competence range to dissect the  
23 common iliac, the internal and the external iliac artery  
24 in what I do daily for cancer surgery, I just do it all  
25 the time, whether it's difficult or easy. As well as

1           transplantation, I do it all the time for cancer  
2           patients.

3    Q.   Yes, but you are usually operating on adults.

4    A.   Because a child is -- yes, because physiology is, ie the  
5           way things work, is much different in children, but  
6           anatomy, unfortunately, is only a matter of scale.  
7           These vessels are just smaller, they're in the same  
8           place, they don't alter.

9    Q.   Isn't that the issue: they are smaller in relation to  
10          the vessels they're going to be matched up with?

11   A.   Yes.

12   Q.   That's why I'm asking you. Do you not change your  
13          approach in terms of the veins that you use, bearing in  
14          mind that you're trying to look for the appropriate  
15          calibre, I think as you used it, if you have got a small  
16          child with, essentially, an adult kidney, as opposed to  
17          if you have an adult with an adult kidney?

18   A.   I think we need to be absolutely accurate about nearly  
19          adult. What do you mean when you say "nearly adult"?

20   Q.   A 16 year-old. Sorry, I used it -- sorry, I use the  
21          expression "essentially adult" because I think, at some  
22          point during your evidence today, you did as well. But  
23          let's leave that and say you've got a 4 year-old child  
24          with a 16 year-old's kidney going in.

25   A.   Then I can, if you wish, take you through evidence

1           which, if you look at the larger 4 year-old to a smaller  
2           16 year-old, sometimes you're not that far off the  
3           match. I would ... You'll never get it right but you  
4           won't be too far off. So as I was trained, there's  
5           a weight issue, you see. The literature I was reading  
6           was that in children of this type, 20 kilograms and  
7           over, these techniques were both available. There was  
8           no absolute issue that said you must not do this as the  
9           expert report has. I was unaware of that because  
10          perhaps I was reading the urological side of  
11          transplantation at the time, which is why I've supplied  
12          you a textbook that I would have read.

13   Q.   Sorry?

14   A.   I was --

15   Q.   Sorry. Firstly, are you saying that the kidney,  
16          although it came from a 16 year-old, was actually  
17          a rather small kidney?

18   A.   I'm suggesting to you that if you had a small person --

19   Q.   I know that. I was asking you something quite specific.  
20          Are you saying that, in this case, the kidney that you  
21          were dealing with was actually a rather small kidney?

22   A.   In my professional judgment, yes.

23   Q.   Oh, it was?

24   A.   Normal, but small, in my professional judgment as  
25          a surgeon who has seen quite a lot of kidneys. As

1 I looked at it.

2 Q. Quite a lot of paediatric kidneys? Oh, this was an  
3 adolescent kidney?

4 A. Yes.

5 Q. So in your view, this was a smallish one?

6 A. A smallish one, yes.

7 Q. Right, well, I wonder if we could just pull up, so that  
8 you have the point that I'm putting to you -- I am not  
9 sure this is the correct reference. I've been trying to  
10 get it for you. 203-004-084. No it's not the correct  
11 reference, sorry. I will try and come back to that.

12 This, I think, is the one that you wanted to refer  
13 to.

14 A. Yes.

15 Q. Is this the one?

16 A. Yes, this is the one. I'm not sure if this -- is this  
17 supplied by your experts?

18 Q. Sorry? This is provided by the experts, yes.

19 A. Right. I know that this would be open to debate, but if  
20 that's in a paediatric patient, as one would expect  
21 it is, then that's exactly the procedure I did. This  
22 procedure is on the external and the artery above it is  
23 the common.

24 Q. No, I'm not saying this is a paediatric one. This is an  
25 example of --

1 A. Okay. This is what I was doing, looking. As I looked  
2 at it, I never understood there was an absolute rule  
3 that it was the surgeon who decided from experience,  
4 given what he's looking at, that in reality, if you  
5 compare the relative sizes of the kidney I was doing  
6 in that operation and scaled them down as I looked at  
7 it, that this was an appropriate procedure for Adam.

8 Q. Sorry, I beg your pardon.

9 A. What I am trying to say is I was unaware that there was  
10 some absolute rule that you must not use. I think that  
11 concept came a little later than my practice. The issue  
12 as I -- I would illustrate what Adam and I had to  
13 decide, if you like. Is your artery big enough to  
14 accommodate what's going to happen to you in the view of  
15 a professional surgeon? Will I go up there a little  
16 or -- these are very short spaces. You're looking to  
17 try and gauge in live surgery a change of calibre which  
18 in some children is not terribly big. So as I looked at  
19 it, the difference to Adam to choose the common iliac  
20 artery did not preclude me from choosing the external.  
21 The reason that most transplants are done on the  
22 external is because there are several theoretical  
23 advantages which are quite -- I'll deal with them now or  
24 I presume I'll be dealing with this later. There are  
25 definite advantages to transplanting, if appropriate,

1 onto the external.

2 What I was viewing -- and this is the sizing issue,  
3 how big is this kidney? Can I imagine what it's like  
4 fully blown? Can I look at this artery? There we are.  
5 That's essentially what it was. I understood practice  
6 at 1995 is that I had not an absolute rule forbidding,  
7 but some discretion as to what an experienced surgeon --  
8 I understand I hadn't done too many, but I'd done 200  
9 transplants, that what I would suggest was the  
10 appropriate vessel would have been a clinical --  
11 a decision of clinical freedom which should have been  
12 allowed to me in 1995.

13 Q. I don't think anybody's suggested that there was an  
14 absolute rule.

15 A. Okay.

16 Q. I think the point that was being put to you is that  
17 you've got very small vessels, unless for some reason  
18 they're larger than normal, for a 4 year-old 20-kilogram  
19 child. You're putting in a 16 year-old's kidney. That  
20 kidney has to have a blood supply at a rate and volume  
21 and so forth that is adequate for it to be properly  
22 perfused and to work effectively. That's the issue.  
23 The issue is one of matching. So that's what I was  
24 trying to ascertain from you: why you selected the  
25 vessels that you did select. But in fairness, I should

1 put to you what the inquiry's experts say.

2 If we can start with the report at 203-002-027.

3 I think you have it:

4 "Children under 5 years of age or under 20 kilograms  
5 do require special consideration in terms of surgical  
6 approach and fluid balance. The surgical approach would  
7 usually be an extraperitoneal approach to the right  
8 iliac fossa with a view to using the common iliac artery  
9 or the aorta, the main artery of the abdomen, for the  
10 arterial anastomoses. And the common iliac vein or the  
11 inferior vena cava, the larger veins, for the venous  
12 anastomoses. An intra-abdominal approach may  
13 occasionally be required. There is evidence to confirm  
14 better outcomes when larger vessels are used."

15 And then it goes on to talk about anastomosis time.  
16 That's the issue and all I am asking you is: since you  
17 had available his larger vessels, why didn't you do  
18 that?

19 A. Can you go back to --

20 Q. Of course. 27, the previous page you mean?

21 A. Sorry.

22 THE CHAIRMAN: Put up the two together, 27 and 28.

23 MS ANYADIKE-DANES: Yes, that would help.

24 A. Okay. The issue for me, as the surgeon in charge of  
25 Adam, is not his age, it's his weight.

1 Q. I gave that as well. I understand that.

2 A. If you read it now and took out the age issue, "or  
3 under", Adam was over.

4 Q. 20.2 kilograms.

5 A. Which is over.

6 MR MILLAR: Sir, just on that particular point, it's  
7 something I was intending to raise yesterday with  
8 Dr O'Connor but thought it unnecessary. It's quite  
9 clear from his notes that the last recorded weight  
10 preoperatively is 21 kilos on the dot. Not 20 anything.  
11 I'll take you to that because it may be important for  
12 the surgeons, this weight issue.

13 MS ANYADIKE-DANES: I'm very grateful. It's a point that  
14 we are actually going to take up with the nurses because  
15 there are a number of weights recorded for Adam since  
16 his admission. That is an important element. We cannot  
17 resolve it here because the nurses, primarily, are those  
18 who are recording it and it's something that has to be  
19 addressed.

20 A. Yes.

21 Q. Because he's recorded at a range between 20,  
22 20-point-something or other up to 21.

23 A. My understanding from the conversations -- you see, as I  
24 said to you when I was talking to Professor Savage, as  
25 we evolved the actual decision to do this procedure, the

1 first thing you do in any child -- and I had experience  
2 of paediatrics -- is height and weight.

3 Q. Yes.

4 A. Because essentially that tells you: is this a child  
5 who's underweight? No, I won't do it. Is he in the  
6 normal weight or above his weight? Yes, I will do it.

7 Q. I understand that. I understand entirely that, which is  
8 why it has to be clarified. 057-010-013. That is his  
9 fluid balance and IV prescription sheet for 26th. So  
10 that is what was operating from -- if you'll pardon the  
11 use of that expression -- starting from the 26th to the  
12 evening of his admission, and there you see his weight,  
13 20.2.

14 MR MILLAR: Actually, if we bring up what we know to be, in  
15 terms of time, the last recorded weight. It's at  
16 058-035-133. Just down towards the bottom, three lines  
17 up. That is on the 27th. It's after the cross-match  
18 has been found to be favourable. It's Dr Savage going  
19 through his plan immediately before Adam goes to the  
20 theatre. And there is a straightforward unambiguous  
21 weight of 21 kilos. And to the extent this is  
22 important, and it is important from a surgical point of  
23 view, I think we should stick with the weight that seems  
24 to be most relevant to this surgery.

25 MS ANYADIKE-DANES: Thank you for that. What I'm going to

1 do is ask Mr Keane to deal with the difference that it  
2 makes and then we can clarify with the nurses, who would  
3 be the people weighing him, if you'll pardon me, what  
4 they've actually done. Whether Mr Keane deals with it  
5 on the basis of if it were 21 kilograms or if it was  
6 20.2 and then we don't have to recall him to ask him  
7 what difference it makes if the turns out the nurses  
8 have made some error.

9 THE CHAIRMAN: Does it matter?

10 A. Absolutely not. I was never trained to go on age; it  
11 was weight.

12 THE CHAIRMAN: If you're going on weight, then the weight is  
13 critical. Once the weight is over 20 kilograms, does it  
14 matter whether it's 20.2, 20.3 or 21?

15 A. To a practising surgeon, I mean, no. No.

16 THE CHAIRMAN: Do I understand it then that the critical  
17 point is that Adam is at least 20 kilos?

18 A. That's the point.

19 THE CHAIRMAN: Okay.

20 MS ANYADIKE-DANES: Sorry, what I was asking you to explain  
21 is why you didn't use the larger calibre vessels that  
22 were available to you.

23 A. Well, the reason is that, at the surgery, I was unaware  
24 that I had an absolute restriction. I was aware in  
25 practice as there are urologists who do transplantation

1 and there are -- this is an evolutionary thing. So  
2 I was reading the urological literature, which I've  
3 supplied to you, and it indicates that there has to be  
4 some form of judgment allowed to a surgeon to decide.  
5 And as I looked at Adam, I would have thought, as you  
6 described the catheter thing, that I was relatively  
7 looking at that, not the actual kidney, but as I judged  
8 what this kidney was going to be like, the size of the  
9 vessel, the change in calibre from the top one to the  
10 next one did not appear to me -- you know, there wasn't  
11 a sudden big vessel and then a tiny little thing. This  
12 is a flow down and you ...

13 As a surgeon, you just have to make your mind up.  
14 Does this child who fits into the group of patients who  
15 can have, at the time, as I understood it, a standard  
16 transplant procedure, which has benefits for him, or do  
17 I need to go a little bit higher? And I looked and  
18 I sized and I looked. And in my view, I made a decision  
19 which I have never regretted.

20 Q. I understand that. Just one last issue on this.  
21 203-002-038, which is the inquiry's expert reports  
22 dealing with the appropriateness of the approach. There  
23 they say the same thing that I think they've said  
24 earlier in terms of children under 5 years of age.  
25 We've seen that before.

1 THE CHAIRMAN: Paragraph 4.13.

2 MS ANYADIKE-DANES: Thank you, Mr Chairman. Then the second  
3 bullet:

4 "In a larger teenage child, it would be acceptable  
5 to use the external iliac artery for the anastomosis,  
6 but in a young child aged under 5 years of age, it is  
7 unacceptable to use the external iliac artery. This  
8 would significantly increase the chance of renal artery  
9 thrombosis and the loss of the kidney. Conventional  
10 practice both in 1995 and now would be to use the larger  
11 common iliac artery or aorta."

12 So they have said what the conventional practice is,  
13 so far as they consider it to be and why. And all I am  
14 asking you is perhaps just your response to that.

15 A. Well, I ... I know the experts are very expert  
16 surgeons, but they're different surgeons to Mr Keane.  
17 They're pure transplant surgeons. I was a urologist.  
18 I read the urological literature in regard to  
19 transplantation and, if you read the standard text book,  
20 we didn't look at age, we looked at weight. And  
21 it would have said: in children of 20 kilograms or over,  
22 all of the following techniques -- all of them -- are  
23 essentially available for use in children over  
24 20 kilograms and adults.

25 So it implied to you that there was a certain

1           discretion as to what a transplant surgeon would  
2           actually -- how he would make the decision.  You make  
3           the decision -- unfortunately, I couldn't bring  
4           a machine in that would tell me, "No, don't do that".  
5           I had to do it.

6   THE CHAIRMAN:  So your response to this is to say that that  
7           criticism was based on Adam's age, whereas your  
8           primary -- the primary factor for you is his weight?

9   A.  His weight.

10  THE CHAIRMAN:  Thank you very much.

11  MS ANYADIKE-DANES:  You wrote a section in a book of  
12           transplantation, isn't that correct?

13  A.  I did.

14  Q.  In that section, which I'm now trying to find -- I've  
15           been trying to find the relevant reference to it -- you  
16           had a section in that where you dealt with the surgery  
17           involving children.

18  A.  Yes.

19  Q.  I think in that section, you talk about the surgical  
20           approach --

21  A.  Yes.

22  Q.  -- if my memory serves me.

23  A.  Yes.

24  Q.  Let's have a look at it.  I do apologise for all the  
25           shuffling about.  I think it's 070-023i, I think.  Let's

1 start there. 254, maybe, if we add that on.  
2 070-023i-254. If we move through this, we will get to  
3 the section that deals just with children. 257, sorry.  
4 Here we are. Transplantation in children. Then you  
5 deal with the disparity in size and you say:  
6 "It is possible to transplant an adult kidney into  
7 a baby less than one years old. The kidney must be  
8 placed ..."  
9 And you say how it has to be placed.  
10 Can we go over the page? Vascular anastomosis:  
11 "When an adult kidney is transplanted into a child,  
12 vascular anastomoses do not pose any technical  
13 difficulties, provided the graft vessels are anastomosed  
14 onto suitable sized recipient vessels such as the common  
15 iliacs, aorta, or vena cava."  
16 A. Mm-hm.  
17 Q. Is that what you did in relation to Adam?  
18 A. Well --  
19 Q. Sorry, there's a very simple answer to that. Is that  
20 what you did in relation to Adam?  
21 A. I would remove the "common" and put "iliacs". That is  
22 what I did. But a procedure as defined by that, very  
23 similar to that.  
24 Q. Sorry? The common iliac is a particular vessel.  
25 A. I did not do that.

1 Q. You did not do that. Thank you very much.

2 A. Sorry, I apologise.

3 Q. Thank you.

4 THE CHAIRMAN: The obvious point then is, if this is what  
5 you're writing and advising, why is it not what you did?

6 A. Well, if you -- I would read it slightly differently.  
7 "Such as" meant -- "such as" rather than me saying there  
8 is an absolute need. I was saying such as because that  
9 would be the common --

10 THE CHAIRMAN: So you're giving examples rather than  
11 a definitive list?

12 A. And also it doesn't accurately reflect the issue. When  
13 an adult kidney -- this was not an adult kidney. You  
14 see, I wouldn't have transplanted Adam into his own age  
15 group. If the kidney was from a 4 year-old, I would not  
16 have done that. Adam was receiving -- which in  
17 transplantation terms was the best, it was adolescent.

18 If you retrieve small kidneys and try to put them  
19 back in, actually the outcome -- although if you look at  
20 the match thing. If you perfectly matched Adam to  
21 a 4 year-old, 3 month-old, 20 kilogram child, I wouldn't  
22 have -- I would have said to the family, "This is not  
23 the best kidney". Although it's an assumption that you  
24 would make, actually small retrieved kidneys produces  
25 worse outcomes. So the matching I feel I had enough

1           experience to actually work the issues out.

2   MS ANYADIKE-DANES: Thank you. Then one final question and  
3           then we'll move on. Not about that approach, but about  
4           another part of your approach, which is --

5   MR MILLAR: Sorry, sir, just before leaving that approach,  
6           I'm sure it's -- I'm sure Ms Anyadike-Danes has just  
7           forgotten to put to the witness the fact that Mr Koffman  
8           does not criticise his approach. I'm sure she was  
9           intending to take him to that part of the evidence.

10   THE CHAIRMAN: I have been thinking about how we get through  
11           this inquiry in any time at all while putting to each  
12           witness any points which are made in his favour and any  
13           points which are made against. If we end up doing that  
14           with every witness, the hearing -- I'm concerned that  
15           the hearings become unnecessarily protracted. I'm  
16           entirely conscious of the fact that Mr Koffman, in  
17           effect, gives Mr Keane the green light on what he did.

18           I'm also conscious of the fact that the extent to  
19           which Messrs Forsythe and Rigg are critical -- there is  
20           some degree of criticism, but it's significantly less  
21           and obviously entirely different from the level and  
22           degree of criticism which Dr Taylor was subject to.

23           You can take it I've got the point without  
24           Ms Anyadike-Danes taking Mr Keane to it, and, Mr Keane,  
25           you can take it as read that I understand what

1 Mr Koffman is saying, and in addition to that,  
2 Mr Koffman's going to be giving evidence next week;  
3 okay?

4 MR MILLAR: I should have realised that, sir. It's just  
5 that in the questioning it looks as though one  
6 particular expert opinion is being put to this witness  
7 as though that is the evidence that is being adopted,  
8 certainly by counsel for the inquiry, if not by you,  
9 Mr Chairman.

10 THE CHAIRMAN: Just to make it clear, not only is that not  
11 right -- I understand your concern about the impression  
12 given. But I'm not bound by the evidence of the inquiry  
13 experts and the very point of asking Mr Keane and  
14 Professor Savage and so on to give evidence is to tease  
15 out the extent to which there are differences and, when  
16 the inquiry's experts come to give evidence, they will  
17 be asked the same issues and they'll be asked, for  
18 instance, for their response to what Mr Keane has added  
19 in his oral evidence to what he said in his statements.

20 MS ANYADIKE-DANES: My learned friend Mr Millar has raised  
21 a very important point and I should make it  
22 clear: I don't have an approach. What I'm trying to do  
23 is put to the witnesses the points of difference, as  
24 I said in my opening. In my clinical opening, I hope  
25 I have taken a balanced approach to put before you,

1 Mr Chairman, the evidence as we have received it. In  
2 fact, if my learned friend were to go to page 133 of the  
3 clinical opening under the section "Surgical approach",  
4 he will see quoted parts from Mr Koffman's report that  
5 are in support of the -- or at least say that he might  
6 not have used that approach, but it was something that  
7 others did. It is cited there at length. And that is  
8 precisely the purpose because I certainly don't want  
9 anybody to feel that I have a particular line that I'm  
10 pursuing. I have always said that I don't have a line.  
11 But if I put to every witness all the other witnesses'  
12 statements that support that witness, we will never  
13 conclude this part of the hearing.

14 THE CHAIRMAN: That's the point I've just made.

15 MS ANYADIKE-DANES: So Mr Keane, if I could just ask you to  
16 explain something that I have been asked to address with  
17 you, and that is at your witness statement 006/3, page 6  
18 in answer to question 9(a):

19 "I made an incision in the right iliac fossa and  
20 opened the peritoneum, where I found dense, matted  
21 adhesions. I then exposed the retroperitoneal space and  
22 identified the vascular structures [and so forth]. I  
23 isolated and gained control of the iliac vessels and  
24 sutured the donor vessels to recipient vessels and then  
25 re-implanted the ureter. I closed the bladder and

1 checked the kidney for perfusion."

2 So the point I've been asked to raise with you,  
3 because it's not entirely clear, is: does that mean that  
4 you started with an intraperitoneal approach and then  
5 ended up with an extraperitoneal approach?

6 A. No.

7 Q. Thank you. Had you penetrated the intraperitoneal  
8 space?

9 A. Yes.

10 Q. Thank you. I wonder if you can help with a point about  
11 the removal of the clamps. That, I think you had  
12 described, as a very significant point because you have  
13 carried out your anastomosis and, as I understand it,  
14 the removal of the clamps means that the blood of Adam  
15 is now going to mix with the blood that is in the  
16 kidney.

17 A. There's no blood in the kidney. There's only --

18 Q. Go into the kidney.

19 A. Yes.

20 Q. That is why, as I understand it, at that point in time,  
21 immunosuppressant medication is prescribed and you want  
22 to know, I think you said, what the CVP is before that  
23 happens.

24 A. Yes. I mean, this is, if you like, a moment of pause  
25 again. I would invite everyone to come and see this

1 phenomenon because, as Dr O'Connor said yesterday, this  
2 is -- so everybody who had been working with me, I would  
3 invite them formally into the theatre to watch the  
4 rebirth, if you like, of the kidney. It is a dramatic  
5 event. You check everything again, particularly now the  
6 blood pressure. Is the anaesthetist ready for this?  
7 Because what's going to happen, planned, is we're going  
8 to release the venous clamp, blood is going to flow, I'm  
9 going to stop it again, then I'm going to do the  
10 arterial side.

11 As soon as I open Adam's arterial side, that's his  
12 point. Is his blood pressure going to go down to such  
13 a level -- this is all predictable.

14 Q. I understand that. But this is the question I want to  
15 ask you now that I've understood that you concur. When  
16 you were giving your evidence earlier, you referred to  
17 asking on a number of occasions about the CVP. In fact,  
18 I think it starts on the 23rd. I have the part of your  
19 evidence, really starting at page 83. And when you say  
20 at line 2:

21 "I would have said -- I would have talked to him on  
22 20 occasions: how is Adam, what's his CVP?"

23 Then you go on. And then at page 84, in line 21 and  
24 line 22, you say:

25 "But every time you do that [that's coming up for

1 air] you say: how is Adam, is everything all right?"

2 And then at page 85, starting at the top of the  
3 page, line 1, at that stage you're really being pressed  
4 with whether you're really just asking if he is just all  
5 right or whether you actually want to know what the CVP  
6 level is.

7 A. Yes.

8 Q. And you say at line 2:

9 "He knows what I want, so I may not always ask the  
10 actual number, but I would imagine at least half the  
11 time I'd be saying: tell me what the number is."

12 Now, you have said that this point that you have  
13 just reached where you're about to release the clamps is  
14 a very significant moment indeed. What I want to ask  
15 you is: did you ask Dr Taylor what the CVP number was?

16 A. Can I phrase this? If I didn't, it was the first time  
17 in my entire surgical practice of over 200  
18 transplantation procedures that I did not. Because  
19 I cannot say under oath that I did. Under oath, I can't  
20 specifically say because I -- you know, it's just --  
21 this is ...

22 THE CHAIRMAN: We understand.

23 MS ANYADIKE-DANES: The chairman has that.

24 MR UBEROI: May I rise there for balance in case there's a  
25 risk of moving on and getting confused. In fairness to

1 the witness, prefacing the extract just quoted by my  
2 learned friend, he had said there:

3 "I don't have specific recall."

4 Before going in to the first extract quoted. I  
5 simply rise to say that so that we don't go down a road  
6 where specific recall is confused.

7 THE CHAIRMAN: Let me tell you my recollection of it after  
8 reading through the notes again last night: even the  
9 number of 20 was obviously an educated guess at how many  
10 times he'd asked. He wasn't saying it was 20 rather  
11 than 19 or 21.

12 A. The management of transplantation is very specific. The  
13 pause before the clamp release is the critical point for  
14 Adam.

15 THE CHAIRMAN: Sorry, Mr Keane.

16 The point I was making was that when you said on  
17 Monday that you would have asked 20 times, you weren't  
18 saying specifically it was 20 times rather than 19 or 21  
19 and you weren't saying that every time you asked,  
20 "What's the CVP?", you asked for a CVP number. But  
21 I think the question that was just being asked to you  
22 effectively was: this is a critical point, as you've  
23 said, and would you then have asked for CVP number? And  
24 your answer is: if I didn't, it's the first time I ever  
25 didn't do it.

1 A. Yes. It's inconceivable.

2 MS ANYADIKE-DANES: Just to develop that -- and if we go too  
3 far into speculation I know that my learned friend will  
4 pull me up. I appreciate very much that you can't  
5 actually remember in real time what you did. But your  
6 view is that you would have asked because of the  
7 significance of it. So my question to you is: if you  
8 had got -- there are two parts to the question. One, if  
9 you had got an answer in and around any of the values  
10 that we saw on that compressed trace -- so 17, 20, 30 or  
11 whatever -- what your response would be. That's one.

12 THE CHAIRMAN: Shall we leave it at that for the moment?

13 A. Again, it's surgical insight. For the transplant  
14 surgeon not to have formal handover of the figures, "Are  
15 you ready to support his blood pressure when I do this?  
16 Do you have all the drugs you need ready? Because I'm  
17 going to do something very dangerous to Adam right now".  
18 For a transplant surgeon not to do that would be  
19 clinically negligent.

20 THE CHAIRMAN: I think the question was: assuming that you  
21 asked the question, if you'd got a reading at 17 or 20  
22 or those high numbers, what would you have done?

23 A. 17, I'd immediately ask him: are you telling me it's 17  
24 or is it some effect of ventilation? You add about 5.  
25 What are you telling me? Because I had better get the

1 clamp off and get the 17 down because he's in trouble.  
2 What are you saying to me? Get Dr Savage.  
3 Can I put a visualisation of what I am doing? I'm  
4 listening to a continuous story and it's designed for me  
5 never to hear it. If I heard anything out of where I'm  
6 in range, there's an immediate crisis. What's going on?  
7 Why am I not listening to the song any more? Adam's  
8 well. I visualise it as a kind of ... I do apologise.  
9 MS ANYADIKE-DANES: I understand what you're saying.  
10 I think it can be condensed down to: if you'd heard any  
11 of those values, there would have been an immediate  
12 response from you. So then may I --  
13 A. Yes.  
14 Q. -- move on to my second question, which is: if you had  
15 had an answer that, "Actually, I don't know what the  
16 absolute figure is because there's a problem with the  
17 machine", what is the effect there?  
18 A. Everything that happens to Adam, which is not expected  
19 or is abnormal, you're instructed by me to let me know.  
20 That's the whole point.  
21 Q. You have said that before.  
22 A. Immediate pause, get Dr Savage, get help, there's  
23 something wrong, it's not right. You know, it's --  
24 I can't describe this to you.  
25 THE CHAIRMAN: Sorry, the point is: if you had been told

1 a high number, you'd have said --

2 A. Stop, let everybody sort it out.

3 THE CHAIRMAN: If Dr Taylor had said to you, "I don't know  
4 what the number is because I can't rely on the  
5 reading --

6 A. Then everything's gone. The whole thing has to stop.

7 THE CHAIRMAN: Does that mean everything stops too?

8 A. This is the point: I visualise myself as listening to  
9 reassurance. He's there in the place of his mother if  
10 you like. I need to hear it all the time: is everything  
11 all right? Any variation in the transplant procedure  
12 that says there's something I don't understand, I'm not  
13 so sure, ask me, let me up for air, let me decide. The  
14 contract between Adam and the surgeon was probably one  
15 of the -- you know, I have to know everything.

16 THE CHAIRMAN: I understand, Mr Keane. I think you were  
17 just being asked a specific question. We're working on  
18 the assumption that you did ask --

19 A. I'm working on the assumption that --

20 THE CHAIRMAN: -- for the CVP because you always do. And  
21 this question is based on the assumption that Dr Taylor  
22 said to you, "I don't have a CVP number". Your answer  
23 is: if that had been the answer, everything would have  
24 stopped.

25 A. Absolute full stop.

1 MS ANYADIKE-DANES: Thank you very much indeed.

2 The UK Transplant form gives the anastomosis at  
3 10.30 and that's in his notes. And Dr O'Connor  
4 yesterday said, as far as she's concerned, that's the  
5 same thing as saying when the clamps were released.  
6 Does that mean that to you?

7 A. Well, in the scale of this thing I would accept 10.30  
8 as -- I would accept that. I can't confirm it, but  
9 I accept it.

10 Q. I understand that. I was just making sure there wasn't  
11 any difference. What's the colour of the kidney before  
12 then?

13 A. It's white. Ischaemic. There's no blood. It's a pale,  
14 cold thing.

15 Q. So if anybody was describing a kidney pinking up at  
16 9.30, that wouldn't be possible?

17 A. Absolutely in this case -- I mean, absolutely  
18 impossible. We would then, therefore, have kept him  
19 asleep for another ... What were we doing  
20 anaesthetising -- if I was off at 9.30, why did we keep  
21 him asleep for another 3 hours and not attempt to wake  
22 him up for -- that would imply that I couldn't sew up  
23 a wound in under two hours. It's just impossible.

24 Q. Well, can I ask why there's an anastomosis time of two  
25 hours?

1 A. Well, I think that's the confusion as to this kidney out  
2 of ice thing.

3 Q. Sorry, let me slightly rephrase it because the  
4 anastomosis time has got itself into a bit of a term of  
5 art. The kidney donor form records that the kidney is  
6 taken out of ice at 8.30.

7 A. Yes.

8 Q. And it records that it is perfused with Adam's blood at  
9 10.30.

10 A. That is right.

11 Q. Yes. Now, that has been described variously as the  
12 anastomosis time.

13 A. Wrongly.

14 Q. And what do you describe that interval as?

15 A. How long it took me to do an anastomosis?

16 Q. No, no, no, that period of time from when the kidney is  
17 taken out of ice until the --

18 A. As described in the notes, which I would have some  
19 dispute about, two hours --

20 Q. Not exactly as described within the notes because my  
21 understanding of Dr O'Connor's evidence yesterday, and  
22 we can try and find it on the transcript, is that she,  
23 I think, had taken the anastomosis as having started at  
24 8.30, I think.

25 A. She took it, that's the point.

1 Q. That's why I'm asking you to clarify this, Mr Keane.

2 Because that would have a 2-hour period --

3 A. You see, the only person there who had run

4 transplantation in significant numbers was myself.

5 Professor Savage has done a lot, but nowhere near --

6 because I'm an adult surgeon, I'm doing this all the

7 time. People who come into a theatre to look at things

8 and record something in the notes who have no

9 experience -- the only person there who had any really

10 significant experience of what is about to unfold now is

11 Mr Keane. How could anybody who's seen one transplant

12 expect to be asked to comment on its appearance or how

13 it looked? It looks -- because they've never seen it

14 before.

15 Could I expand this issue?

16 Q. Yes.

17 A. If you look at cold ischaemia as walking out of the door

18 on a freezing day, your hand is cold when you come back

19 in. That's when the clamps come out and it starts to

20 warm acutely. Your hand will suddenly start to warm up

21 and become very painful and, actually, intensely red.

22 There's an awful lot of blood flow going in to this hand

23 that has gone out to the cold and back in. Look at that

24 as a kidney. It's cold, now it's back in a warm

25 environment when the clamps come out. Exactly the same

1 process is going on inside that kidney now in this next  
2 minute or two as to that analogy. So you expect  
3 a kidney to (demonstrates audibly) and then you look for  
4 the period at which that chilblain type effect starts to  
5 settle because that's the entire point. You can't just  
6 say immediately that a kidney is now well perfused.  
7 That's why you wait for 10, 15, 20 minutes for  
8 everything to calm down so that you get an assessment of  
9 its real state, the state in which you are happy to  
10 close the wound. It's a very -- these are, I do  
11 apologise. They're simple concepts to transplant  
12 surgeons, but not --

13 Q. I understand. It's very helpful for you to say what  
14 your understanding of these things is. But in any  
15 event, in your view, there can be no possibility of any  
16 pinking up until you've released the clamps?

17 A. None whatsoever.

18 Q. Thank you. Adam's medical notes and records at  
19 058-035-135, I think, record that the kidney perfused  
20 reasonably at the end. That is your note, isn't it?

21 A. That is my note.

22 Q. Yes. The first note is actually your surgical approach.

23 A. Yes, that's right.

24 Q. Would that be a good way to describe it? And you have  
25 signed that.

1 A. I signed that?

2 Q. Is that your signature there?

3 A. Yes.

4 Q. And then you write another note:

5 "Kidney perfused reasonably at the end."

6 And you signed that.

7 A. Yes.

8 Q. Why are there two signatures and two notes?

9 A. My recollection of it is I had been handed a message at

10 some stage while we performed these manoeuvres that

11 I needed to ring the City Hospital about something.

12 I wouldn't take any detail about anything, just ring

13 somebody, yes, I will tell them we're doing something.

14 Q. Okay.

15 A. I now write the note -- this is my recollection of it --

16 I write the note and I talk to somebody about maybe

17 embolising a kidney over in the City Hospital. That's

18 my recollection of the phone call -- that there was

19 a kidney bleeding which we needed to embolise.

20 THE CHAIRMAN: Can I confirm this is your actual

21 recollection rather than your reconstruction?

22 A. The first time anybody ever asked me about this was the

23 police interview. They said to me: what are the

24 circumstances? So all I could remember was the phone

25 call. There's a problem that -- I needed to look at the

1 potential to embolise a kidney. Then I come back,  
2 I need to leave now as long as Adam's all right, I check  
3 everything's all right and then I forget that every  
4 transplant surgeon should make a comment as to what, in  
5 his experienced view, what this kidney is like. You  
6 shouldn't go away and say: look, this is not great,  
7 there might be problems and I'm going to chance it.  
8 What I was implying in that note is I had come back in,  
9 checked on Adam, and looked at the kidney -- because  
10 that's all I was interested in -- and make sure that  
11 this issue that I had finished, this transplant  
12 procedure with the ureter in, everything go, the  
13 hyperaemic phase that I've described to you --

14 Q. We are going to come back to that in a minute. I simply  
15 want to know why you have two separate notes and  
16 signatures.

17 A. Because I had forgotten in, my issue of going to make  
18 the phone call to see whatever was over there ...  
19 I realised that essentially you need -- I need to let  
20 Dr O'Connor know that, in my opinion, this transplant  
21 was now reasonably perfused and she could probably  
22 anticipate that there were going to be no absolutely  
23 immediate issues with the transplant itself.

24 Q. So it's just because you forgot to put that piece of  
25 information on?

1 A. Yes, you should always do it and I had realised as  
2 I made the phone call that actually I hadn't made  
3 a comment about the perfusion. So I went back in to do  
4 it because I was going back in to look at -- make sure,  
5 one last time, that I was happy that the kidney was  
6 perfusing.

7 Q. So are you saying that you left the operating theatre to  
8 take a phone call about something and, whilst you were  
9 out or before you went back to deal with Adam or to  
10 check with Adam, you made this note, then you went back  
11 in to have a look at Adam and just satisfy yourself that  
12 everything was all right, and then you made the next  
13 note; is that what you're saying?

14 A. That's it.

15 Q. Then what did you do?

16 A. Well, when I had -- I probably ... I don't recall any  
17 of this. The only thing I can recall is the  
18 embolisation issue and the message. I would have said  
19 to Mr Brown: look, I'm happy, would you mind closing the  
20 wound for me because there's something I need to go now  
21 over to the City, would you mind?

22 Q. Did that thing that you were going to go back to the  
23 City for relate to the telephone call you'd received?

24 A. Yes. This issue that there was a kidney needing  
25 embolising.

1 Q. We'll come to that in a minute.

2 THE CHAIRMAN: Sorry, the additional note that "the kidney  
3 perfused reasonably", is that made on the basis of an  
4 observation before you went of to call the City Hospital  
5 or after you came back?

6 A. No, this is the last check.

7 THE CHAIRMAN: Okay.

8 A. This is the view of a surgeon who has looked at -- had  
9 many technical problems, dealt with those, that Adam's  
10 kidney is ... Yes.

11 THE CHAIRMAN: I understand.

12 MS ANYADIKE-DANES: Just before we pass on to the next  
13 point, Dr O'Connor gave evidence yesterday about your  
14 use of the expression "reasonably at end".

15 A. I understand. If I had changed that to "acceptably" --  
16 I was trying to convey the message -- wrongly now as you  
17 look at it in this environment 17 years later -- that  
18 a transplant surgeon of my experience had felt that this  
19 kidney was in a satisfactory position and sending  
20 a message to Dr O'Connor, who I couldn't actually go out  
21 and have a cup of coffee with, with the mum or anything  
22 like that: look Mary, I've checked it, it's okay.

23 Q. Yes. But it's a difference between whether -- I think  
24 her issue was "reasonably". And she said she would  
25 be -- I think she would have been expecting it to say

1 "perfused well" or something of that sort.

2 A. Yes, I could have said -- yeah. There were issues, you  
3 see, as you look at kidneys --

4 THE CHAIRMAN: I think the point is -- this is quite  
5 a narrow point. Her evidence seemed to be that by not  
6 using the word "well", "the kidney perfused well", you  
7 may have been striking a note of caution that it wasn't  
8 perfusing well. Is that --

9 A. You can look at it both ways.

10 THE CHAIRMAN: Is she right or not?

11 A. She is, from her point of view, because she's going to  
12 micromanage Adam. She needs to know exactly that when  
13 I left, I was happy. But to take a small child through  
14 a transplant procedure, you now need to go to  
15 Mary O'Connor who's going to check. A consultant  
16 physician is going to stay with the baby for the next 3  
17 to 4 hours because, although you look and see, there may  
18 be problems which could arise with that kidney and you  
19 look and you said: am I going to leave a child up in  
20 a ward? No, you're not. Am I going to leave him in  
21 ICU? No, you're not. You're going to have a consultant  
22 physician attend a child every minute of the next 3 or  
23 4 hours. That's how the system worked in Belfast in  
24 1995.

25 MS ANYADIKE-DANES: Let me just pick up on that note of

1           caution. The reason I ask you is because there are  
2           different views as to the colour of the kidney and how  
3           it appears to people. So maybe if we start with  
4           011-003-101.

5   THE CHAIRMAN: Can you check that reference?

6   MS ANYADIKE-DANES: That's the reference I have. Okay.

7           Let's try it from another source. 011-013-093. This is  
8           your deposition which you've seen many times:

9                   "Despite the technical difficulties, the kidney was  
10           successfully put in to the child and perfused quite well  
11           initially and started to produce urine. At the end of  
12           the procedure, it was obvious that the kidney was not  
13           perfusing as well as it had initially done, but this is  
14           by no means unusual ..."

15           So you are noting -- and this is the deposition you  
16           make six months after the event. Your evidence to the  
17           coroner is it might have started off all right, but it  
18           wasn't doing quite so well at the end of the procedure.  
19           And I think the reference that I was not being  
20           successful with is an even earlier time, I think it's  
21           011-003-010.

22           There we are. You have seen this before as well.  
23           This is even earlier still. This is 11 December that  
24           you're writing this. It's exactly the same language  
25           because we know that that gets translated into your

1 deposition, same thing:

2 "I successfully put in the child ... perfused quite  
3 well ... produced urine ... end of procedure, obvious  
4 that kidney was not perfusing as well as it had  
5 initially done."

6 And you go on to explain.

7 So what I'm asking you is: is that the reason why we  
8 don't have "perfused well", but you have the word  
9 "reasonably"?

10 A. Yes. I mean, I -- you anticipate the chilblain effect  
11 and what they call the re-perfusion injury. In other  
12 words, when you re-perfuse a kidney like that -- I can  
13 only explain this in trying to give you a visual  
14 representation. If you imagine a kidney which has been  
15 cold, suddenly warm blood comes in, it's going to get  
16 this chilblain effect. It's going to need warm blood  
17 and it's going to go through that process that you  
18 would -- that intense pain in your hand. It's going to  
19 release all sorts of things into it as it's rewarmed.  
20 That's called re-perfusion injury. There's a lot of --  
21 this is the whole point of the management of  
22 transplantation. This is the critical thing.

23 So there's -- all hell has broken loose inside the  
24 kidney because of the re-perfusion injury you can  
25 anticipate. It happens in everyone. So that's why

1 transplant surgeons are so focused on looking at these  
2 things. Is it going and how is it going? And you wait  
3 20 minutes looking -- just looking at it.

4 Q. Not to interrupt you too much, but the point that I was  
5 looking for is: you're accepting that it was perfusing  
6 less well at the time you left than when you first  
7 inserted the kidney?

8 A. Yes.

9 Q. Thank you. And it had also been described -- and  
10 Dr O'Connor was dealing with it yesterday -- as looking  
11 bluish at the end of theatre. Let's pull that up.

12 058-035-136:

13 "Kidney looked bluish at the end of theatre."

14 A. Mm-hm.

15 Q. Is that how you recall it?

16 A. No.

17 Q. You don't ever recall seeing it looking bluish?

18 A. No.

19 Q. But, of course, you did leave before the wound was sown  
20 up.

21 A. I left when I was satisfied that the perfusion of --  
22 that this kidney was perfusing reasonably well, as I put  
23 it. I left when I was satisfied. Can I make a comment?

24 THE CHAIRMAN: Of course, go on.

25 A. With respect to everybody in that environment, the only

1 person who could decide the issue was one person and  
2 that was me. Because Dr O'Connor has looked at one  
3 transplant ever before in her life, if I remember her --  
4 she had come in to see it. So I understand what she's  
5 saying, but she's never seen the process. She's never  
6 seen the hyperaemia, the re-perfusion and the settling  
7 down and how we look at these things. She's never  
8 really seen that before. Once. I've seen it 250 times.

9 MS ANYADIKE-DANES: I understand. All I was really trying  
10 to get is somebody's visual description of things --  
11 that's all -- as opposed to understanding the reason why  
12 it might happen, which is a slightly different point.

13 A. That's a different point. I have --

14 Q. You also say that you could feel the pulsatile flow and  
15 it produced some urine.

16 A. Yes.

17 Q. Are you absolutely sure it produced urine?

18 A. Well, you can't be certain unless you send the actual  
19 fluid to be analysed.

20 Q. But if you manipulate a kidney, can you not squeeze out  
21 a few drops of urine?

22 A. Well, you can squeeze out the perfusate and that's  
23 crystal clear. What I looked at, as I thought was  
24 happening -- I may have been wrong -- highly unlikely in  
25 my opinion -- but as a urologist who had looked at a lot

1 of urine, this was not ... What I saw was -- this is  
2 not water. The perfusate that you're talking about is  
3 pure crystal clear; urine always has a slight look to  
4 it, it's not crystal clear. I wasn't making the point.  
5 I just felt that I thought the kidney, as I was leaving,  
6 before I put the ureter into the bladder where I could  
7 never see it again, I just thought: yes, it's going to  
8 go. You know? I just thought it was, but I couldn't  
9 tell you what a drop of fluid contains unless I had  
10 examined it into the laboratory.

11 Q. Yes. The only reason I ask that question is -- well,  
12 it'll have some bearing on what people consider was the  
13 likely condition of the kidney at that time.

14 A. Yes.

15 Q. More to the point, which is an expert issue and not one  
16 I'm exploring with you, but more to the point, Mr Brown  
17 said, when he was first asked about it, his statement --  
18 I think it's a letter he writes. 059-060-146. That's  
19 a letter of 20 December 1995. So very close to the  
20 events. He says:

21 "The perfusion of the kidney was satisfactory,  
22 although at no stage did it produce any urine."

23 A. Well, I could explain that.

24 Q. Yes.

25 A. I would think my focus and attention on whether a drop

1 of -- this thing was starting up may have been slightly  
2 more intense than Mr Brown's was at the time. I'm  
3 trying to say that the perfusion of the kidney -- do you  
4 think this is going to get going or not, is incredibly  
5 focused attention to a urologist who has done it. He  
6 may have been looking away. This may have been a drop  
7 or two that came out. You're absolutely right to say  
8 that it has -- could be perfusate, but I know what  
9 perfusate looks like because it's absolutely crystal  
10 clear and what I saw was not crystal clear. Therefore  
11 that's the association. It may be the kidney is going  
12 to start up now.

13 Q. I understand. In fairness to Dr Brown, I should put to  
14 you his PSNI statement, which is 093-011-032. He says:

15 "I notice that my recollection at the time was that  
16 urine was not produced and Mr Keane has stated that  
17 urine was produced. I cannot explain this small  
18 discrepancy. I may be wrong about the urine, but as far  
19 as I can recall, no urine was produced."

20 So however tentatively, he seems still to be with  
21 the notion that no urine was produced, but that is just  
22 a difference between you.

23 MS WOODS: Can I ask, for the sake of completeness, to build  
24 on that? We don't need to bring the page up. Witness  
25 statement 007/2, page 8, where Mr Brown is asked about

1           that again and he does state that the amount of urine  
2           which the donor kidney might have produced would be  
3           a matter of drops, so fitting in with what Mr Keane is  
4           saying.

5   MS ANYADIKE-DANES: Thank you very much.

6           You say, in addition to that, that you felt the  
7           blood flow effectively within the renal artery; is that  
8           what you're saying?

9   A. Yes. I understand this issue. Yes.

10 Q. And that you took that as evidence of good perfusion?

11 A. That is how a consultant transplant surgeon would assess  
12 that fact, yes, as distinct from anybody who knows  
13 absolutely nothing about it would try to imagine what  
14 had happened here. There's a -- in other words, there's  
15 a very simple way of checking, on the table, the  
16 distinction between feeling a transmitted pulsation  
17 or: is the kidney actually working or not? I can  
18 demonstrate it to you if you like, if that would  
19 clarify.

20 Q. No. I was going to ask you a question in relation to  
21 that. That is whether you're sure that's what you were  
22 feeling or whether it is possible that you were feeling  
23 the transmission of a pulsatile pressure wave.

24 A. I wouldn't expect a GP to understand this, but  
25 essentially, your kidney is like so (indicating) --

1 Q. Sorry, who is a GP?

2 A. I thought this issue arose from an advisor. Sorry,  
3 I retract that. Anybody to know this. If I could  
4 change that. That was inaccurate.

5 So you have a kidney (indicating) and you're  
6 wondering whether what you're feeling in the artery is  
7 the pulsatile flow. All you have to do with your two  
8 gloved fingers -- very gently now because the vein is  
9 the weaker part so you have to be very gentle -- just  
10 gently occlude. So the blood is possibly going in here  
11 (indicating) and you're just doing that to it to occlude  
12 it. If the kidney swells and the vein that you're  
13 looking at swells, it must be blood coming in and if it  
14 empties ... flow ... empty (indicating).

15 Q. Is that what you did on 27 November?

16 A. Yes, I did it.

17 Q. And do you recall doing that?

18 A. If it was not -- that's my invariable practice.

19 Q. Right, thank you. I wonder, as you get into the more  
20 technical elements of what you were doing and coming up  
21 to the finish, how much discussion are you having with  
22 Mr Brown? If I may preface that with something because  
23 this is one of the contexts in which I'm trying to  
24 understand it. Leave aside the slight debate of whether  
25 he was there for learning, training, experience

1 purposes, received a tutorial or any of the other --

2 MS WOODS: Sir, I don't think there is a debate. Mr Keane  
3 clarified in his evidence, I think it was yesterday,  
4 that he was not at any point now saying that Mr Brown  
5 was there for learning. Just to be absolutely clear.

6 MS ANYADIKE-DANES: We can be absolutely clear about that  
7 because I checked it and, actually, the last word I  
8 think he said was that he thought he gave him a  
9 tutorial. We can find it and we'll get back to it; I'm  
10 certainly not going to leave with the impression of  
11 something that's incorrect.

12 However that is resolved, I think you express the  
13 view that Mr Brown had an interest in watching the  
14 procedure and you were happy to have him there. And  
15 what I'm now asking is when a consultant paediatric  
16 surgeon has expressed an interest in being there to you  
17 and, if you know that that is the first time he's viewed  
18 that kind of procedure, what sort of discussion is there  
19 between you?

20 A. Just in the theory, just watch what I'm doing in  
21 practice in an incredibly difficult case and you can ask  
22 me any questions you like about, you know, how my  
23 thought processes are going, and just watch. And if  
24 you have a query when I come up for air, if you want  
25 a theory about what we're doing, how then anatomy is,

1           what's the immunosuppression, what going to happen,  
2           which clamps do you use. The surgical interest issues  
3           would be quite esoteric, but I'm quite happy to discuss  
4           incisions and the benefits and risks of incision, wound  
5           infection rates.

6    Q. I understand that. In fact, we have statement from you  
7           that says that at least one thing that you discussed  
8           with him -- which is 006/2, page 6. I think it's  
9           question 7(d), the answer to it:

10                 "State whether there was any discussion in theatre  
11           about the colour of the donor kidney, and if so identify  
12           those involved ..."

13                 And you say:

14                 "Mr Brown and I discussed the colour of the kidney  
15           at the end of the transplant and we were both happy with  
16           the perfusion of the kidney at the end of the transplant  
17           procedure."

18    A. Well --

19    Q. Is that correct?

20    A. That is correct.

21    Q. Then here is the question: you have explained or stated,  
22           I believe, that Mr Brown had really no experience at  
23           all. How is Mr Brown going to be happy with the  
24           perfusion of the kidney if he doesn't know anything  
25           about it?

1 A. Well, a transplant surgeon has nothing else to talk  
2 about in that period, the intervening period. What else  
3 would a transplant surgeon be talking about now in that  
4 moment other than the colour of the kidney? And  
5 basically, Mr Brown knows what a -- he would know what  
6 an organ with a normal blood supply is. He confirmed  
7 that this looked to him, never having seen it, that this  
8 was a human organ which had a normal blood supply. But  
9 I --

10 Q. Sorry, it doesn't just say that, it says:  
11 "We were both happy with the perfusion of the  
12 kidney."  
13 In fact, you said it started off quite well, and  
14 then was just reasonably well at the end. When you say  
15 that "you were both happy with the perfusion", what is  
16 the discussion that you've had with Mr Brown that allows  
17 you both to be happy with the perfusion of the kidney?

18 A. Well, you see, I would have explained to him in detail  
19 the re-perfusion thing that I have just tried to  
20 explain.

21 Q. When would you have done that?

22 A. In time.

23 Q. Sorry?

24 A. In time.

25 Q. During the course of the surgery?

1 A. No, no. I'm trying to explain to a surgeon who has an  
2 interest in what's going on what I think is going on  
3 inside the kidney.

4 Q. I understand that, Mr Keane. I am just trying to find  
5 out when you had that discussion and explanation with  
6 him.

7 A. As this process of hyperaemia --

8 Q. No, no, no. When in time did you do that with him?

9 THE CHAIRMAN: Do you know?

10 A. I can only tell you when -- between 10.30 and the next  
11 20 minutes ...

12 MS ANYADIKE-DANES: You'd have discussed that?

13 A. We would have discussed that. My apologies.

14 Q. So you have explained to him as you said. Then you move  
15 into the discussion that you have so that you can both  
16 form the common view that you're happy with the  
17 perfusion of the kidney.

18 A. Well, basically I wouldn't have paid much attention to  
19 what somebody who had never seen this procedure before  
20 was -- but I was happy to have somebody say to me, who  
21 knew what surgery was about, "Yes, that looks good". So  
22 that's all that means.

23 Q. Thank you very much. Once you have satisfied yourself  
24 about that, I think you then said that you had a message  
25 passed to you, you went out to deal with a telephone

1 call. While you were out, you made your note, came back  
2 in just to make sure what you thought was all right was  
3 still all right. Then you made your next little note  
4 and then went off to the City Hospital; is that right?  
5 Is that a fair summary?

6 A. That's my recollection.

7 Q. That's your recollection?

8 A. Yes, that's what happened.

9 Q. So maybe you can help us with this: this is your PSNI  
10 statement, 093-010-030:

11 "I had left at the end of the transplant procedure.  
12 I left Dr Brown to close the wound, which would have  
13 been the last 10 to 15 minutes of the operation."

14 Then I think you go on to say:

15 "The record I made in the notes was made immediately  
16 after I left the theatre and prior to me going to the  
17 City Hospital. I made my record in the clinical  
18 notes ..."

19 And you explain why you did that. So that doesn't  
20 exactly explain the process of leaving the operating  
21 theatre, making a note, popping back in and then leaving  
22 again. It might be that you just haven't described it  
23 in as much detail as that, but it doesn't --

24 A. Normally, to make a phone call, you wouldn't make  
25 a phone call from an operating room. So I may have just

1 taken the notes out to this kitchen that I can't  
2 remember. I was going to phone somebody because  
3 somebody had asked me to phone them. But there wouldn't  
4 be a telephone in an operating theatre because it would  
5 distract you. You simply wouldn't allow a mobile phone,  
6 a telephone, to exist in an operating theatre. It just  
7 doesn't happen because of the need for this constant --

8 Q. I'm not saying it does happen. I'm simply trying to  
9 understand what you're saying happened.

10 A. Then the record I made in the notes was made immediately  
11 after I left the theatre. Oh right, to make the phone  
12 call, I do apologise.

13 Q. Well, the other thing is that I think you were asked --  
14 and we will find the reference to it in one of your  
15 statements. You were asked whether you, at any stage,  
16 left the operating theatre and I think your answer --  
17 and we will find it -- was that you didn't other than  
18 when you -- just before the end when you had to leave.  
19 Dr Taylor has said that he did leave occasionally for  
20 comfort breaks and maybe his assistant did the same.  
21 But by contrast, you said that you didn't leave at all  
22 until you left slightly earlier to go and attend the  
23 emergency at the City Hospital.

24 A. Mm-hm. Again, I apologise for the way I've answered.  
25 To a surgeon, "to leave the operating theatre" means

1 a formal decision to pack a wound, get your assistant to  
2 close it, and actually leave the operating theatre to do  
3 something.

4 Q. I understand.

5 A. But not to -- and I can't ... I have to apologise for  
6 the accuracy. I'm doing this from a ... I have  
7 answered in terms of surgeons and surgery rather than  
8 trying to think so accurately as to ... That I left  
9 the --

10 Q. No, I'm just trying to clarify these things so they  
11 don't become issues for anybody else. We'll just deal  
12 with them now. I think that particular reference comes  
13 at 006/12, page 7, I believe. Can we put page 6 and  
14 page 7 together? It is there:

15 "I was absent for approximately the 10 to 15 minutes  
16 required to close the wound. I did not leave the  
17 theatre at any time before my ultimate departure."

18 A. Yes. That is the issue for a surgeon. If a surgeon is  
19 operating and has to leave the theatre, it means  
20 something has happened. So I did not leave Adam  
21 unattended by my surgical skills and care for him at any  
22 time.

23 THE CHAIRMAN: I should read that as you didn't read the  
24 theatre other than to take the telephone call?

25 A. A transplant surgeon would regard the operation over

1           when he implants the ureter and now he checks again the  
2           perfusion of the kidney and checks it again, checks the  
3           position, lifts it back up, puts it back in, looks how  
4           the kinking of the arteries might go, how does the vein  
5           look? And the obsession of this, I can't describe,  
6           because it's part of it. So once the final decision is  
7           made, you see, there's not a lot you can do once it's  
8           done. You can't actually do anything to it now except  
9           let it -- see if it can live.

10   THE CHAIRMAN: Thank you.

11   MS ANYADIKE-DANES: You've talked about how meticulous  
12           you have to be about that. Can I just make sure  
13           I understand. The position of the kidney, that's a very  
14           important thing?

15   A. Yes, because you implant it in the vertical but it's got  
16           to lie back. So you've got -- and it may be better that  
17           it lies this way (indicating). So you know, if you  
18           thought the perfusion of it was one way or the other,  
19           you're looking to see where the optimum position is.

20   Q. And to make sure, I presume, that no vessels are kinked  
21           or anything of that sort so it has a free flow of its  
22           blood supply?

23   A. Yes, that's correct.

24   Q. And that's very important?

25   A. Critical.

1 Q. And that's part of your responsibility to make sure of  
2 that?

3 A. Mine and mine alone.

4 Q. Thank you.

5 Then can I say now -- so -- just while we've broken  
6 there, just in ease of my friend. The reference to the  
7 tutorial, in case you're trying to find it, is 24 April.  
8 I think it's page 87, line 14 [completed transcript].

9 MR UBEROI: While we're tidying things up, might I add, on  
10 behalf of Dr Taylor, that I'm not aware of any specific  
11 evidence where he proactively recalls leaving the  
12 theatre. If I may say, his very sensible evidence was,  
13 in the nature of a long procedure like this, there may  
14 be comfort breaks and it may well have been that a break  
15 was taken to that effect, but no proactive memory of  
16 having left the theatre.

17 MS ANYADIKE-DANES: I understand, but I think he does make  
18 reference to comfort breaks and so forth.

19 A. Could I make a point on that. Adam required -- if  
20 Dr Taylor had not got a second, he was not allowed to  
21 leave the theatre. He could wait for his comfort break.

22 THE CHAIRMAN: So there should have been no point at which  
23 there wasn't an anaesthetist present?

24 A. Well, we're looking after -- yes.

25 MR UBEROI: And I'm quite sure that would be Dr Taylor's

1 view as well.

2 MS WOODS: Mr Chairman, I don't want to labour the point too  
3 much, but since you've been referred to the tutorial,  
4 Mr Keane was asked, "Did you have any discussions with  
5 Mr Brown about the transplant?"

6 His answer was:

7 "Well, I may have I don't -- please don't take  
8 this -- I may have given him a tutorial on it, but  
9 I wouldn't have, in any way, felt that I needed to ask  
10 Mr Brown anything about the procedure."

11 Thereafter, Mr Keane was specifically asked by  
12 counsel to the inquiry:

13 "And the issue is: are you intending to say that,  
14 just as you were teaching paediatric surgeons [that  
15 really being Mr Boston], you were also going on to teach  
16 Mr Brown about the transplant surgery?"

17 The answer was:

18 "No, not to my recall."

19 He was then asked again:

20 "I'm simply trying to find out [this is the point  
21 I'm being asked to clarify] whether you were indicating  
22 that one of the reasons Mr Brown was assisting you was  
23 to do with teaching and learning."

24 And the answer was a clear no.

25 THE CHAIRMAN: Thank you.

1 MS ANYADIKE-DANES: Thank you very much indeed.

2 If we then go to your departure, after you have had  
3 your discussion with Mr Brown and you're both happy with  
4 the perfusion and the colour of the kidney, what, if  
5 anything, do you say to Mr Brown just before you leave?

6 A. Give me an immediate call if anything is happening, if  
7 you think --

8 Q. Sorry, I can't hear.

9 A. If anything happens to Adam, I'll be back here. That's  
10 all I would have said.

11 Q. Okay. And you then left him to sew up?

12 A. Yes.

13 Q. Is it possible that, in sewing up all of through the  
14 muscles layers which you had said was part of what he  
15 would have to do, there could be any pressure on that  
16 new kidney that you just transplanted which could have  
17 affected it or kinked its vessels in any way?

18 A. No.

19 Q. Absolutely sure about that?

20 A. Well, if I can expand.

21 Q. Yes.

22 A. I said I left -- by saying ... That statement is "sew  
23 the wound". As a matter of courtesy, I don't know  
24 whether I did this, but as a matter of professional  
25 courtesy to Mr Brown because of a surgical issue, the

1 first layer of closure of three is more technically  
2 difficult. In other words, it's easier if Mr Brown --  
3 if I just wait for him to close the first layer. And  
4 then he continues the procedure as I'm now gone. So  
5 I haven't surgically, if you wish, committed myself.  
6 I just said: wound closure, it's staged. I'm not sure  
7 that --

8 Q. I'm sorry, I specifically asked you that. I asked you  
9 whether what you meant was -- and we will check the  
10 transcript so I hope I'm not misleading you. I believe  
11 I asked you whether you meant that he was being left to  
12 sew up all through the muscle layers and I think you  
13 said yes to that.

14 A. That is something I would -- I would rather explain.  
15 Maybe not all of them. There are three layers.  
16 Obviously, when you're closing, the first one is just  
17 easier to do. I'm not sure but --

18 Q. Can I ask you this: can you actually remember --

19 A. No.

20 Q. -- precisely what you left him to do?

21 A. No.

22 Q. And I think you were explaining that the first layer is  
23 more technical.

24 A. Yes.

25 Q. Can I then ask you a question about that? Is it

1 possible, in closing that first layer, to have the  
2 effect that I just put to you, which is to inadvertently  
3 apply pressure to the kidney, which could affect it in  
4 some way?

5 A. Only in the circumstance that the kidney was bulging  
6 into the wound. Can I explain? To a transplant  
7 surgeon, I would know if there was going to be an issue  
8 because sometimes the option is to leave the -- you  
9 could leave the wound open.

10 Q. Yes.

11 A. If necessary. The wound doesn't have to be closed on  
12 the very first occasion.

13 Q. Yes.

14 A. So unless I had got my sizing seriously wrong,  
15 realistically there was no chance of it ... In real  
16 time ... There is a possibility of it, yes, but unless  
17 I had made a large error of my judgment, it wouldn't  
18 happen.

19 Q. But since you go that road, that there is a possibility  
20 of it, if it does happen, what effect does it have on  
21 the kidney?

22 A. If it happens, there are obviously stages of it  
23 happening.

24 Q. Yes.

25 A. It would not be a good thing to happen.

1 Q. No.

2 A. It would tend to compress it and might cause trouble.

3 Q. Yes. When you say "might cause problems", does that  
4 mean it could compromise in some way or affect the blood  
5 supply to the kidney?

6 A. If the compression was gross enough, but it's entirely  
7 unlikely if the compression was -- there's just ... You  
8 see, you obviously are putting a perfused organ into  
9 a space. There's obviously going to be some  
10 compression. The question is: is the level of  
11 anticipated compression in your mind going to be  
12 something which would do what you are saying? So  
13 that is actually yet another one of the decisions that  
14 only I can say is a reasonable possibility and then ask  
15 a consultant surgeon, yes [sic].

16 Q. Let me help you with this. You have already said how  
17 extensive your experience is. As you are going along,  
18 you would be able to see if there was going to be any  
19 sort of problem. So if you were sewing the first  
20 layer -- and I don't know whether you sewed it or not --  
21 but if you were doing it, you would bring to that all  
22 your expertise and experience. You know exactly what  
23 you're doing and, even if you thought that it was having  
24 some sort of effect, I presume you would now how to  
25 redress that at that stage.

1 A. That's right.

2 Q. That's the point that I am putting: you would know that,  
3 but you would know that out of your experience and  
4 expertise; you wouldn't expect Mr Brown to know that.

5 A. Absolutely not.

6 Q. Thank you.

7 THE CHAIRMAN: If you thought that the sewing up was going  
8 to be problematic, then one option was not to sew up at  
9 that point, as I understand from what you said a few  
10 moments ago.

11 A. Yes.

12 THE CHAIRMAN: What was the second option if you had to  
13 leave?

14 A. I couldn't leave if there was a reasonable prospect  
15 that -- you see, my primary duty was to Adam at that  
16 time. There was something urgent happening at the City,  
17 but I can just -- if there's a problem, I can just ring  
18 somebody and say, "Get the emergency on-call surgeon to  
19 deal with it".

20 THE CHAIRMAN: Well, that's what I'm getting at. Do I then  
21 infer from the fact that you did leave Mr Brown to sew  
22 up however many layers that you did not think that the  
23 sewing up was going to be problematic and that you were  
24 satisfied with this state in which you were leaving  
25 Adam?

1 A. Yes. I mean, a transplant surgeon has a duty of care to  
2 consider all of the possible issues. Every transplant  
3 surgeon knows that -- in this thing, that you can  
4 anticipate maybe the kidney won't close properly. It's  
5 just -- sorry. It's just natural.

6 THE CHAIRMAN: Yes.

7 MS ANYADIKE-DANES: It's just natural to you, exactly.

8 A. Sorry, I do apologise for the confusion.

9 Q. No, no, the point that I'm getting at is obvious,  
10 really: that even if you had not thought at the outset  
11 that there was going to be a difficulty -- and, in fact,  
12 it's probably from what you say about your experience  
13 and expertise, it probably wouldn't be one for you --  
14 but even if you hadn't thought there was going to be for  
15 Mr Brown, the issue is whether he would have the  
16 experience and expertise if, as he was going along, he  
17 encountered a difficulty. And I think your answer  
18 was: he wouldn't have that experience and expertise.

19 A. Yes.

20 Q. Thank you. At that stage, just -- well, literally just  
21 before Mr Brown starts sewing up, you've had to pop out,  
22 take a phone call, come back. Can you help us with  
23 who's in the operating theatre?

24 A. I can only ... It's just a vision.

25 Q. Yes?

1 THE CHAIRMAN: Well, is it a vision in the sense that it's  
2 something you recall or is it an Irish vision where  
3 people imagine things moving?

4 A. It would be more towards the latter.

5 THE CHAIRMAN: Okay.

6 A. I can only envisage going back to look at -- somebody's  
7 called me, what am I going to remember? All I remember  
8 is the kidney. I don't even remember Mr Brown at that  
9 stage. All I remember is looking at this kidney.  
10 That's what a transplant surgeon does. You just -- it's  
11 the kidney and it's the child. You know, the contract  
12 for me with Adam is critical because he has to receive  
13 the best surgical care. Nobody interrupts, I don't  
14 leave unless there's some mega-crisis and there are no  
15 phones. I give Adam -- up to the point I'm happy --  
16 absolute, total attention to detail, et cetera.

17 THE CHAIRMAN: Yes. I think we've got that clearly,  
18 Mr Keane. The question is: do you actually recall who  
19 was present?

20 A. No.

21 THE CHAIRMAN: You inferred that Mr Brown must have been  
22 there because you handed over that final stage to him.

23 A. Somebody must have closed that wound and I infer from  
24 the notes that that was Mr Brown.

25 MS ANYADIKE-DANES: Can I ask you this question? And I only

1 ask it because there's been some evidence in relation to  
2 it. I'm sure you've probably seen that Eleanor Donaghy,  
3 who was transplant coordinator, has provided a statement  
4 to say that she came in to the operating theatre --  
5 we'll call it up in a minute. But in any event, she  
6 came in because she had understood that Adam was in  
7 a rather bad way at that stage. We'll see the actual  
8 language she uses:

9 "[She] came in and when [she] came in, there were  
10 two surgeons there. The whole room was rather sombre."

11 That's not consistent with your description of how  
12 matters are when you leave. In fairness to her, she  
13 can't remember the time at which that happened, but was  
14 there ever a time when there was a real concern over  
15 Adam's welfare and you and Mr Brown are at the table  
16 looking rather glum and concerned about the whole thing?

17 Sorry, let me pull it up so I'm not just putting  
18 words to you that you can't see. 093-016-049. It's  
19 a very short statement, so it's very easy to see. She  
20 says she met Staff Nurse Clinghan in the corridor  
21 outside the theatres. She had been asked about who was  
22 present in theatre when she went in, so this is her  
23 second statement in relation to that:

24 "I can only say that I remember Patrick Keane (the  
25 surgeon) being at the table. There was another surgeon,

1           however, I do not recall who he was. There were other  
2           staff present in the operating theatre. However, I do  
3           not recall who they were. I remember when I was in the  
4           theatre wondering, 'Why are they continuing with the  
5           procedure if the child was supposed to be brainstem  
6           dead'. However, I would not able to say what part of  
7           the procedure they were at."

8           What is your comment on that?

9    A. I think she's right to wonder why two surgeons would  
10   keep going, but this is no recollection of mine. You  
11   see, the point would be, as I left -- let's say I had  
12   even left all of the wound closure and I left. You've  
13   still got another 10, 15 minutes before anybody would  
14   even dream of attempting to wake Adam up. So I just  
15   can't account for this memory, you know. Maybe it's  
16   a lot of emotion --

17   Q. I'm not saying that she's saying anything about anybody  
18   waking him up. She says that she remembers you at the  
19   table, another surgeon, other staff -- but she doesn't  
20   know who they are -- and wondering if they're continuing  
21   with the procedure if the child was supposed to be  
22   brainstem dead.

23           We can pull up her previous PSNI statement, which  
24   sort of sets the scene for this one, which is in fact  
25   what causes this second statement to be made. It's

1           093-015-048. There we are. She was asked to describe  
2           a number of things about the procedure of getting  
3           kidneys there, but leaving that aside, about a third of  
4           the way down:

5           "I recall meeting Staff Nurse Clinghan who informed  
6           me that Adam might be brainstem dead and was in theatre.

7           At the time, she was based in Musgrave Ward. I changed  
8           and went into theatre where the mood was very sombre.  
9           I think the surgeons were still at the table, but  
10          I don't know what stage of the procedure they were at.  
11          I don't know what time it was that I went into the  
12          operating theatre."

13          Then she goes on to talk about the kidney donor  
14          information form. As a result of that evidence, she's  
15          asked to make a further statement and she makes  
16          a statement that I first took you to, which is where she  
17          identifies you as one of the surgeons. She certainly  
18          has two surgeons there and identifies you as one of  
19          them. So this is the context in which she makes that  
20          second statement and I'm simply asking you for your  
21          response to it.

22    A. Well, by definition, or as the evidence has been  
23          presented, the initial thought that he might be  
24          brainstem dead was when the surgery was over and  
25          Dr Taylor attempted to wake him up. While I can quite

1 easily see therefore that I had gone, it's not  
2 instantaneous, you see. Stephen -- Mr Brown may have  
3 closed the wound --

4 Q. Sorry, that's not really what I'm asking you. I am not  
5 asking you to focus on a time when Dr Taylor might have  
6 been trying to wake up Adam and been unsuccessful with  
7 it. I'm asking you to deal with the fact that she has  
8 described two surgeons being in the theatre, you being  
9 one of them, the mood being rather sombre and her having  
10 come in because she's given some information about the  
11 condition of Adam and that Adam was, effectively, dead.

12 A. Well, could I just say: there could be no inclination  
13 that Adam was dead until Dr Taylor tried to reverse the  
14 anaesthetic. We had no idea.

15 THE CHAIRMAN: And, by that time, you were gone.

16 I understand what Mr Keane was saying was that he  
17 couldn't have been there in the way described by  
18 Miss Donaghy because the dawning of the fact that Adam  
19 was brainstem dead doesn't come until after the surgery  
20 is over and after Dr Taylor starts to try to bring him  
21 round and he can't. And by that time, you're gone.

22 A. If a child is -- also, an anomaly in it is that if  
23 a child had had surgery and was being woken up, what  
24 would two surgeons be doing at the table?

25 THE CHAIRMAN: That was her point. To be fair to you, she

1           says in her statement, "I think the surgeons were still  
2           at the table". She then makes a second statement which  
3           is -- and she will be giving evidence so we can explore  
4           this with her -- in which she is more precise, saying  
5           that you were at the table. Could we put up the next  
6           one? 093-016-049.

7           On the statement on the left, the first statement,  
8           Mr Keane, she says:

9           "I think the surgeons were still at the table, but I  
10          don't know."

11          She's coming in at this point because she's been  
12          told that Adam might be brainstem dead. Then she says  
13          in her second statement:

14          "I've been asked who was present when I went in.  
15          I can only say that I remember Mr Keane being at the  
16          table. There was another surgeon; I don't recall who it  
17          was."

18         A. Well, I --

19         THE CHAIRMAN: Have I got your point that you weren't there  
20          at that stage?

21         A. Could I make a further point?

22         THE CHAIRMAN: Go on.

23         A. Here's a transplant coordinator thinking that everything  
24          is well, she gets somebody -- somebody tells her the  
25          child might be dead. Personally, when I heard in

1 theatre 6, I nearly fainted. So I can only assume --  
2 I personally wouldn't place too much reliance on the  
3 accuracy of somebody ... If somebody said to you: what  
4 had happened, the child is dead, it would ... Well, I'm  
5 not sure that I would remember accurately who was where.

6 THE CHAIRMAN: Okay. I take your point. You can leave that  
7 for me, thank you.

8 A. Thank you.

9 MS ANYADIKE-DANES: We're coming close to the end now,  
10 Mr Keane. And that is your departure.

11 MR MILLAR: I wonder, sir, I know that you are keen to get  
12 on, but we're getting towards two hours of evidence and  
13 there's obviously a bit more to go and questions from  
14 others. I wonder if this might be a convenient time for  
15 lunch. We have to take lunch some time and it might  
16 seem to be a good time to do it.

17 A. I'm a surgeon, I'm used to this. If you can tell me --

18 MR MILLAR: I have to look after Mr Keane's interests, even  
19 if he doesn't always perceive it himself.

20 MS ANYADIKE-DANES: I have a few questions. As you can see,  
21 chronologically, we are really nearly there. I have  
22 a few questions and then I would like the opportunity to  
23 meet with counsel for the interested parties to make  
24 sure that there aren't any other things that they have  
25 asked me to address with you that I have somehow missed.

1 A. Could I break in your, whatever schedule, and then break  
2 before I come back for the ...

3 THE CHAIRMAN: For any additional questions?

4 A. I can break now.

5 THE CHAIRMAN: We'll sit again at 2 o'clock. And in the  
6 meantime, I know Ms Anyadike-Danes will be finished  
7 soon, and then I hope that any additional questions --  
8 if there need be any after two-and-a-half days of  
9 evidence from Mr Keane -- can be sorted out. Thank you.

10 MS WOODS: Sir, I want to raise whether it is still your  
11 intention to call and complete Mr Brown this afternoon.  
12 I know you expressed that as a firm intention yesterday.  
13 That's certainly the way we would like to proceed.  
14 Mr Brown has indicated to me that he is prepared to sit  
15 as long as we need to this afternoon.

16 THE CHAIRMAN: Maybe you can clarify this: am I right in  
17 understanding that, after today, he and you are not  
18 available for a few days; is that right?

19 MS WOODS: Neither of us are available either Friday or  
20 Monday.

21 THE CHAIRMAN: Okay. I will tell you after lunch, but I'm  
22 determined to push on. Thank you.

23 (1.13 pm)

24 (The Short Adjournment)

25 (2.00 pm)

1 MS ANYADIKE-DANES: Good afternoon, Mr Keane.

2 A point that I was asked to deal with. It didn't  
3 fall naturally in what we were dealing with this  
4 morning, so it's a bit of a housekeeping matter. It may  
5 be slightly more substantive than housekeeping. It  
6 relates to Eleanor Donaghy and to how many transplant  
7 coordinators there were at the time. There was an issue  
8 as to whether she was indicating that she might be the  
9 one on call and perhaps there were others. It starts  
10 with the evidence that you were giving about that at  
11 page 13. The significance of it is that you were saying  
12 that the transfer of the exact information about the  
13 kidney comes from a conversation between the transplant  
14 surgeon and a paid NHS professional called a transplant  
15 coordinator. Then you go on to say:

16 "The indications are that the transplant kidney is  
17 acceptable to Professor Savage. I don't know what  
18 knowledge he had because I wouldn't rely on it."

19 That starts at line 21. And then you say at line 1:

20 "I rely on the conversation in the next five to ten  
21 minutes that I'm going to have with the trained person  
22 to interpret to me what's on the form."

23 And you're asked whether you're saying that means  
24 that you had a conversation with the transplant  
25 coordinator, and you say:

1           "Yes, it's the process, yes."

2           And I ask about that. You say:

3           "Eleanor Donaghy [at page 14, line 20] couldn't tell  
4           you whether there was one or two. It was in the era of  
5           1990s and then there was only one. Which with one,  
6           I don't know. It would have to be Eleanor."

7           As we move on, I think your counsel wanted to be  
8           absolutely clear about what was being said and whether  
9           it was possible that there was one or other transplant  
10          coordinators. That appears at page 21 when your  
11          counsel, at page 16, makes the point and goes on:

12          "Miss Donaghy says her entire involvement in the  
13          matter will depend on her being on call and it certainly  
14          seems to me that it's implicit in that that there could  
15          be more than one person involved in the coordination of  
16          the moving of this kidney from Glasgow to Belfast."

17          There is a further discussion about that. Without  
18          going into all that, I think you understand the point.

19          Eleanor Donaghy has since made a further statement  
20          for the inquiry; she made it on 24 April. You should  
21          all have it. It starts at witness statement 100/5 and  
22          the relevant part for these purposes is page 2:

23          "I have also been asked to give an account of any  
24          conversation between myself and Mr Patrick Keane on the  
25          evening of Sunday 26 November 1995."

1           She deals with how she was appointed and when, in  
2           1992, at the bottom of the page:

3           "I was the only transplant coordinator in Northern  
4           Ireland until May 1997 when a second post was funded."

5           Over the page at 100/5, page 3, paragraph 2:

6           "I did not discuss the offer of a kidney for  
7           Adam Strain with Mr Keane on Sunday evening,  
8           26 November 1995, or in the early hours of Monday  
9           27 November."

10          So that's her position. Of course, she's giving  
11          evidence so she can be questioned about that. But in  
12          any event, that is what she says about that issue.

13         THE CHAIRMAN: Do you accept that she might be right?

14         A. Well, I can explain it -- from her point of view, yes.  
15          But she could definitely be right. I can explain how  
16          this confusion arises.

17         THE CHAIRMAN: Please do.

18         A. Well, if you worked in, say, London like I did, we had  
19          trained coordinators, so what I was describing in the --  
20          I don't know, in a properly set up ... In a -- yes, to  
21          a degree, in a properly set up system you would have  
22          trained coordinators, and we wouldn't be talking at all  
23          to physicians about the form. When you come back to  
24          Belfast, which I'd done, things were in development. If  
25          you look at what is being said here, this was

1 a coordinator who was on her own, as she expected the  
2 service to develop into what you would expect -- three,  
3 so there are now three. As you transition in the  
4 National Health Service, the only person who would read  
5 the form to me in 1995, if Eleanor was not available --  
6 as she wasn't -- was the nephrologist. What I was  
7 indicating is that the proper way, if you want, the  
8 ideal way in a fully funded National Health Service, as  
9 distinct from the one I was operating in, is that  
10 I would not talk to anybody other than a trained  
11 coordinator.

12 THE CHAIRMAN: Okay.

13 A. That's what she does, if that explains it. I'm sorry  
14 if I have caused confusion.

15 MR MILLAR: I think, at a later point in Mr Keane's  
16 evidence, he was saying that if the system didn't allow  
17 for a sufficient number of coordinators or if the  
18 coordinator was not on duty at the time, he would  
19 essentially have been going through the same information  
20 with Professor Savage.

21 THE CHAIRMAN: And I also take into account what  
22 Professor Savage said in his own evidence.

23 MR MILLAR: It looks as though that is what did happen.

24 THE CHAIRMAN: Yes.

25 MS ANYADIKE-DANES: Thank you.

1           I tried to pick this up on the transcript, and I was  
2           unsuccessful, so I apologise for this, Mr Keane, but  
3           what I want to ask you very quickly is about the latter  
4           part of your evidence before we rose, which is that you  
5           went out, you'd received a message, you went out, made  
6           your note, came back in, and then left, made a note and  
7           carried on onto the Belfast City Hospital. It's one  
8           very specific point which required some clarification.  
9           When you came back in, I think you had said you wanted  
10          to satisfy yourself that things were indeed as you  
11          wished them to be. Can you simply describe what you did  
12          when you came back in?

13        A. What I would do is -- well, obviously you would go back  
14          in, approach the table, make sure that I had a clear  
15          view, and that I looked at it for 30 seconds, one  
16          minute, to make sure there was no change, no ongoing  
17          change, as I would look at it. I'm afraid, you see, the  
18          focus -- the way I work is I just focus. So I know that  
19          I would just look.

20        Q. I'm trying to find out where you are.

21        A. I've approached the table. By implication, I have  
22          become unsterile.

23        Q. That was the issue.

24        A. Sorry, yes. By implication, I'm unsterile. That's the  
25          purpose of a surgical assistant, to display to me what

1 I wish to see.

2 Q. I appreciate that. The issue arose because, as you have  
3 just said, having gone out like that and come back in,  
4 you are rendered unsterile.

5 A. Yes.

6 Q. So I think what the clarification was being sought is:  
7 well, when you came back in in your unsterile state,  
8 where did you go and what did you do?

9 A. I looked at the kidney.

10 Q. And where were you?

11 A. I was looking at it -- can I think? I think I can  
12 clarify the point if I can tell you. If the issue is  
13 I saw a problem, could I go back and wash my hands again  
14 and scrub up again -- is that the issue?

15 Q. There isn't an issue; I'm simply [OVERSPEAKING].

16 A. I do apologise.

17 THE CHAIRMAN: Don't worry about anticipating what might be  
18 coming next. At the moment, we're just trying to find  
19 out what you did.

20 A. I just went and looked at the kidney. I can't describe  
21 it in any other way. A surgical assistant moved out of  
22 the way, pulled whatever part of the wound I wanted to  
23 look at so I could see the kidney in a satisfactory  
24 manner. I looked at the kidney for about a minute, to  
25 be absolutely finally -- you see, the contract is

1           between me and Adam.

2   THE CHAIRMAN:  Yes.

3   A.  I have to finish some time.

4   THE CHAIRMAN:  And again, I'm gathering by this stage in  
5           your evidence that what you're doing is you're telling  
6           this not from direct memory of what happened, but  
7           because this is what you would have done.

8   A.  It's invariable.

9   MS ANYADIKE-DANES:  Thank you.  Then can we go to your  
10           departure?  If we go to witness statement 006/1, page 3.  
11           I think it's the answer to question 2(iii).  Yes.

12                   This is your first witness statement for the  
13           inquiry.  You say:

14                   "I was called to an emergency at the Belfast City  
15           Hospital and Mr Brown, consultant paediatric surgeon,  
16           closed Adam's wound.  Adam was stable when I left, 10  
17           minutes prior to the end of the anaesthesia."

18                   And then, in between, you're asked a number of  
19           questions about that in your witness statements and,  
20           I think, your most recent witness statement.  So if we  
21           go directly to that, 006/2, page 6.  I think it's the  
22           answer to question 7(c).

23                   Yes:

24                   "Describe and explain the circumstances in which you  
25           made that entry.  I was called to Belfast City Hospital

1 to say [sic] that a patient who was undergoing  
2 a percutaneous nephrolithotomy was bleeding heavily in  
3 the operating theatre there and that they needed help  
4 urgently. I had finished the transplant: there was  
5 pulsatile flow in the artery and the kidney was  
6 reasonably perfused. I asked Mr Brown to close the  
7 wound, made a quick operation note and rushed to Belfast  
8 City Hospital to deal with the problem there."

9 It hardly needs to be said, but it's not entirely  
10 the way your evidence has come out today, but in any  
11 event, the significant thing might be that there's  
12 a medical emergency, if I can put it that way. You're  
13 told a patient undergoing that particular procedure is  
14 bleeding heavily in the operating theatre.

15 Then I think in your -- at 006/2, page 11, the  
16 answer to question 15(b). This is to find out where you  
17 were when you heard about Adam:

18 "I was telephoned (I cannot remember by whom)  
19 in the anteroom of theatre 6 at Belfast City Hospital,  
20 after completing the emergency operation there, to be  
21 told Adam was brain-dead."

22 I presume "there" does not mean in the anteroom but  
23 in theatre 6.

24 A. Yes.

25 Q. So we had sought to have some information on exactly --

1           what we had wanted to have from DLS was the theatre log  
2           showing what everybody was doing on the 27th. What  
3           we have, if we can pull it up, 301-131-001, is a letter  
4           to the inquiry's solicitor. It is providing the theatre  
5           logs, as we understand it, from the only theatre -- now,  
6           there is another letter which confirms to us that  
7           theatre 6 is the only theatre where that particular  
8           procedure could occur. And for those who just want  
9           a little more education about what the procedure is and  
10          the extent to which bleeding heavily is a risk, there is  
11          an information leaflet that the inquiry obtained from  
12          the department of urology. It's dated last year.

13                 It's Tameside Hospital, and the reference to it is  
14          306-026-001. The first page of it, 002, tells you what  
15          it is. And then if we go on to the next page, 003,  
16          you will see that it indicates what the risks are. It  
17          indicates "risks" and "rare risks". Under "rare risks"  
18          is:

19                 "Kidney bleeding. Real. Severe kidney bleeding can  
20          occur, which requires blood transfusion or further  
21          surgery."

22                 In fact, to my untrained eye, this was the only  
23          reference to bleeding that would cause an emergency.  
24          But it's there for people to see. I don't propose to be  
25          leading on it. It's just a document that we had found,

1 which may be of assistance.

2 The DLS, as I said, have advised that theatre 6 was  
3 the only place that such a procedure would be carried  
4 out. The theatre logs can be found at -- 301-131-002,  
5 is the start; it flips round. You'll see the dates on  
6 the far left-hand side. There's 27 November, another  
7 27 November.

8 If you scrutinise that with your more trained eye  
9 than I for where your name appears, so far as I can tell  
10 your name isn't there, nor is the particular procedure  
11 you said you went to deal with.

12 If we go to the next page, 301-131-003, then we can  
13 see the date in the same place, but if we go down three  
14 procedures, we can see that your name is there and  
15 "flexible C/V". Anyway, that's one procedure associated  
16 with you.

17 There is another one as well, the same procedure,  
18 that you're involved in on that day. Then if one goes  
19 down a little bit further on, you can see "circumcision"  
20 and you're there with Mr Walsh. There's another  
21 circumcision immediately afterwards which has you  
22 involved.

23 Then if we move on to 301-131-005, right down at the  
24 bottom, you see 27 November. But nothing associated  
25 with you or the particular procedure you referred to.

1           Then 301-131-006. There are three references to  
2           27 November. There seems to be no reference to you,  
3           though, as having done anything then and no reference to  
4           the procedure in question.

5           Finally, over the page to 301-131-007, and one sees  
6           one date of 27 November and there doesn't appear to be  
7           a reference to you or that particular procedure.

8   MR MILLAR: I think there just may be a misunderstanding  
9           about the document we're looking at. This doesn't seem  
10          to be the theatre 6 log that I have. I think some  
11          further logs were made available and, I think, somewhat  
12          tentatively, if I can suggest that we're on the wrong  
13          theatre log.

14   MS ANYADIKE-DANES: That may well be so. We have a number  
15          of theatre logs.

16   MR MILLAR: Sir, I don't know the easiest way to clarify  
17          that. It probably would be for me to approach  
18          Ms Anyadike-Danes.

19   THE CHAIRMAN: Please do. (Pause).

20   MS ANYADIKE-DANES: I think we might have been with the  
21          wrong theatre logs. The other theatre log is  
22          attached -- now, I don't have a reference for this.  
23          It's attached to ... I will find you the reference to  
24          it. You can't see it without the reference. If you  
25          bear with us a minute, we'll get that and maybe we'll go

1 on. And if I may ask you some other points that were  
2 raised with me to use time as best we can.

3 THE CHAIRMAN: If we could move on. We need to move on  
4 because Mr Brown --

5 MS ANYADIKE-DANES: I'm trying to find the other queries  
6 that other counsel have asked me, Mr Chairman. I am  
7 trying to move on, I apologise.

8 Could we go to reference 203-002-029. 3.2 there:  
9 "Organ retrieval and the offering process."

10 And then the third bullet. This is a report by the  
11 inquiry's expert surgeons and I think you have seen this  
12 bit before, but I had not drawn your attention to this  
13 particular point to ask for your comment:

14 "Many units would have concerns in accepting  
15 a kidney for a small child with complex problems that  
16 would have a cold ischaemic time in excess of 30 hours  
17 and with multiple arteries."

18 And I think the issue is whether you had any  
19 concerns about the fact that there were two arteries on  
20 a widely separated patch.

21 A. None.

22 Q. Why would that be?

23 A. The presence of the patch doesn't, in my professional  
24 opinion, increase the risk. It's only if the arteries  
25 are not on the patch.

1 Q. I thought you had actually given that evidence before to  
2 say your only concern would be if they didn't come with  
3 the patch. In any event, just in case there were some  
4 misunderstanding about it, your evidence is clear:  
5 there's no problem if you've got the patch?

6 A. Correct, and could I also comment on the 30 hours?

7 THE CHAIRMAN: I think we've covered that.

8 MS ANYADIKE-DANES: We've already done that.

9 A. Could I make a point? The original intention to treat  
10 was not anticipating the actual cold ischaemic time,  
11 when all the calculations were finally totted up, was  
12 going to be over 30 hours.

13 THE CHAIRMAN: Yes.

14 MS ANYADIKE-DANES: Yes. Just one other point, which  
15 relates to your CV. You have, on a number of occasions,  
16 referred to your experience and expertise. And many of  
17 your questions have been answered, if you can't actually  
18 remember what you did, you've answered them in the  
19 way: my normal practice would be ...

20 The point I want to ask is: what is the period of  
21 time over which you consider any of those things to be  
22 your normal practice? When you make a statement "my  
23 normal practice would be", what is the period of time  
24 that you're referring to?

25 A. Well, in the time I was involved in transplantation I --

1           you see, transplantation is a particularly unusual  
2           thing. You need absolute, total commitment to be  
3           a transplanter. It has to be essentially -- after  
4           Adam's death ... So I felt that although I was -- the  
5           reason I gave it up wasn't for any -- it's just as  
6           a surgeon, when you're contracting with a small child to  
7           look after him, the commitment ... I'm sorry. What I'm  
8           trying to say is you need to be totally focused and  
9           committed to do this type of work. And after Adam's ...  
10          I just didn't have that. I knew -- I have tried to  
11          describe how my mind works. It's a funny business, but  
12          if I wasn't 1,000 per cent committed to the work I was  
13          doing, that doesn't mean I couldn't do it clinically;  
14          it's just the commitment, the actual commitment.

15    Q.    Sorry, I think Mr Keane, we may be at slightly  
16          cross-purposes here. I am trying to see if I understand  
17          or, at least, can help others understand what that  
18          period of practice refers to because that is a common  
19          way in which you have answered the questions. If we go  
20          to your CV, 306-023-001, and then turn to the first page  
21          of it, 306-023-002. You have helpfully set out  
22          a summary of your clinical experience. When you say  
23          your practice would be to do one thing or another  
24          in relation to a paediatric transplant or any renal  
25          transplant, what I think you're being asked to do is to

1 say what period of time and where in your career that  
2 practice developed.

3 A. 1986 to 1995/96, somewhere ... 97 ... It's ...  
4 Basically, the end of it was when the full-time  
5 transplanter arrived. So from eighty --

6 Q. So when were you transplanting from, transplanting  
7 kidneys?

8 A. 1986.

9 Q. So when you talk about your practice in relation to  
10 paediatric renal transplants, that dates back to?

11 A. That depends on the definition. In small children, if  
12 it clarifies the issue, would have been from 1990  
13 onwards.

14 Q. You were transplanting small children in 1990?

15 A. But I was in the paediatric group at the Hammersmith.  
16 It relates to how London organises. Mr Koffman would or  
17 Guy's -- they would do the kids, the young kids.  
18 We were an adult and adolescent service rather than ...  
19 In London, it was far more advanced in its organisation.  
20 In London, you would have the facility to, obviously,  
21 transfer patients between units depending on which  
22 speciality. We were essentially, in the Hammersmith, an  
23 adolescent/adult, essentially.

24 Q. Let me try to be more pointed in my questioning. In  
25 terms of you controlling things, if I can put it that

1 way, and developing your practice, which you had  
2 established and so on, you weren't a consultant until  
3 1994.

4 A. Yes.

5 Q. That's correct, isn't it?

6 A. Yes.

7 Q. And, of course, Adam's operation is in 1995. So I think  
8 there is --

9 A. I understand.

10 Q. -- a point of clarification as to when it was you  
11 developed this practice as to how you went about things  
12 and how it is you can say: if I can't specifically  
13 remember, I can tell you, invariably, I'd have done X or  
14 Y.

15 I'd hoped this would assist you to summarise your  
16 own clinical experience, your CV, when you say that  
17 starts in relation to young children.

18 A. Well, into young children, the first experience would  
19 have been 1990. The time --

20 Q. On your own?

21 A. Well, I was a senior registrar, so I was on my own  
22 working with consultant ... Under consultant  
23 supervision. When I actually ran the -- whether I was  
24 doing the surgery with a consultant present or not,  
25 I couldn't tell you. Somewhere in there, but a small

1 child, unless it was absolutely -- nothing like Adam, no  
2 complexity to it, I wouldn't do anything like that until  
3 about 1991/92 on my own. Always as a senior registrar  
4 in the system, you have immediate access to surgical  
5 consultant cover.

6 Q. So let's be clear. You're saying "on your own" so that  
7 you can start to say you were developing your own  
8 practice as opposed to providing assistance to your  
9 consultant or whatever it is. On your own, you would  
10 have been developing your own practice in paediatric  
11 renal transplants involving small children from 1991/92,  
12 did you say?

13 A. Well, as I've tried to describe the technique and the  
14 difference in this particular case between physiology  
15 and anatomy, the way I ran --

16 Q. I'm so sorry, Mr Keane. I know you're trying to explain  
17 and we are -- I am trying to have you explain. It's  
18 just that if you can give me an answer to that question.

19 A. Every single transplant is the same, whether it's an  
20 adult or a child. There's only, to a surgeon -- I'm  
21 sorry to -- only to a surgeon ... The physiology is  
22 more or less the same, except considerations in small  
23 children. Then anatomy part of it, the actual, is --

24 Q. I'm not doubting any of that, Mr Keane. It really is,  
25 I thought, a relatively straightforward question. You

1 talk about having established a practice and way of  
2 doing things. I'm simply asking you, in relation to  
3 small children, when were you establishing and  
4 developing that practice, which I presume would have  
5 been when you had charge of that kind of surgery  
6 yourself.

7 A. Um ... Somewhere between -- after 1991, I would think.

8 Q. Right. We'll go and check. I'm not entirely sure  
9 there's a record of you carrying out -- we can check.  
10 That was the question.

11 THE CHAIRMAN: I know you were asked to go over this, but  
12 I don't find it terribly helpful or essential to go over  
13 it.

14 MR UBEROI: Sorry, could I ask this: did the witness start  
15 to develop his regular practice as a consultant  
16 urologist after he was appointed as a consultant  
17 urologist in 1994?

18 A. The point I'm making is: I learned to do this under  
19 Professor Gordon Williams at the Hammersmith Hospital  
20 and it's just a continuum as I experienced and -- as  
21 transplantation develops and your capacity to  
22 transplant, you're actually better to meet me as a 6,  
23 7-year transplanter as a child than anybody else because  
24 what we do is just a smaller version of what everybody  
25 does. Transplantation is different to other surgery.

1 Nobody has ever -- I would rather have  
2 Professor Williams operate on my 5 year-old child than  
3 anybody else. He was a genius, surgically.

4 THE CHAIRMAN: So you learned from him and the lessons you  
5 learned from him, you were putting into practice as  
6 a senior registrar and as a consultant?

7 A. That's the point.

8 THE CHAIRMAN: But more particularly, when you were  
9 a consultant and you were in charge rather than when you  
10 were a senior registrar and you were working under  
11 somebody else's supervision?

12 A. Yes.

13 THE CHAIRMAN: Is that right?

14 A. Yes.

15 THE CHAIRMAN: Thank you.

16 MR UBEROI: Sir, if I might have one further question, so  
17 I'm clear on this from my point of view.

18 Would you have transplanted a paediatric case  
19 without access to consultant cover before your  
20 appointment as a consultant in 1994?

21 A. No.

22 MR MILLAR: Mr Chairman, I find it rather unorthodox that my  
23 learned friend is essentially taking over the  
24 questioning of the witness.

25 THE CHAIRMAN: I'm rather gathering from this it was

1 Mr Uberoi who had asked for the clarification.

2 MR MILLAR: It may be, but I think you got the  
3 clarification, sir, on the point which, with respect,  
4 you have indicated that you [OVERSPEAKING].

5 THE CHAIRMAN: I've got it. If I didn't have the point  
6 before, I definitely have it now.

7 MR UBEROI: One final point of clarification --  
8 clarification has been given by the final answer,  
9 thank you.

10 MS ANYADIKE-DANES: Thank you.

11 Mr Keane, I am trying to find the -- have paginated  
12 the correct theatre log, but I can go on and ask you  
13 some further final questions and I'm hoping that by the  
14 time I've asked you those questions, that pagination  
15 will arrive. I'm very sorry to be taking you out of the  
16 order of it.

17 There is an issue in relation to the communications,  
18 if I can put it that way, amongst the transplant team.  
19 So if one regards an element of the transplant team as  
20 the surgeons and the anaesthetists. You can also regard  
21 the nephrologists as part of that transplant team. What  
22 I would like to suggest to you is that certainly, as  
23 between the surgeons and the anaesthetists -- and if  
24 I can refine that to you as the consultant transplant  
25 surgeon and Dr Taylor as the consultant paediatric

1 anaesthetist -- the communications do not appear to have  
2 been helpful to either of you. Would that be a fair  
3 statement?

4 A. That's a fair statement.

5 Q. Do you know why?

6 A. Well, it's a question I have asked myself every single  
7 day since 27 November 1995. And I still cannot provide  
8 an answer to you to that question, having examined it  
9 6,000 times in my mind, why someone with no -- you see,  
10 the transplantation is the thing. I have the experience  
11 in transplantation. Why someone who had only seen one  
12 procedure before could assume to himself the competence  
13 to even think of running a transplant procedure ...  
14 It's the procedure you need to know, not how to replace  
15 a fluid deficit or have any idea about --

16 Q. Can I just ask you about that? Are you saying,  
17 therefore, that in order to manage, if I can put it that  
18 way, the anaesthetic process of a child during a renal  
19 transplant procedure that you would have to -- the  
20 person doing it would have to have some experience with  
21 paediatric transplants as opposed to experience with  
22 major surgery?

23 A. Yes, they must understand the procedure. You must  
24 understand, maybe, 28 to 30 times to get -- to  
25 understand that now it's different, now the surgeon

1 controls the CVP. You see, anaesthetics is  
2 essentially -- the anaesthetist always runs how the CVP  
3 is managed during surgery. This is a completely  
4 different situation. Now, it's the surgeon who's  
5 running the CVP. I don't understand how anybody could  
6 consider themselves competent to make any decision even  
7 in his own speciality to assess a deficit problem  
8 without a CVP in. Even that alone is -- I have asked  
9 myself and I still have not found the answer to that  
10 question here today.

11 Q. You've approached the answer to that question from not  
12 having found the communication between, if I can put it  
13 that way, Dr Taylor and you terribly helpful. What  
14 about the communications between you and Dr Taylor?  
15 Since you have reflected on it, do you, with hindsight,  
16 think that maybe you could have managed the  
17 communications from your side to Dr Taylor better?

18 A. Well, unless he had problems understanding the message  
19 that I was giving him and that I was speaking in terms  
20 that he could not understand, I would expect him to have  
21 asked me to explain it to him yet again. This is an  
22 operation where I need a professor of nephrology, he's  
23 there. I'm there. Why not just ask? If you don't know  
24 the -- you see, it's not an operation, it's a procedure,  
25 a coordinated procedure involving all of the care. And

1           then you have to coordinate the drugs to go in.  
2           You have to coordinate everything. Everyone needs to  
3           know where they are spatially, he needs to know what the  
4           child's blood volume is, what his haemoglobin is, what  
5           his CVP is. Essentially, he replaces the mother, but he  
6           has no part in how I am to conduct this operation.

7   Q.   I understand that, Mr Keane. You have said that.  
8           I wonder if I can just ask you one more question about  
9           that communication from your side to Dr Taylor. Would  
10          you accept that there are a number of stages, if I can  
11          put it that way, during the procedure where you really  
12          do need to communicate with him?

13   A.   Yes.

14   Q.   I think if I may summarise them, and correct me if I'm  
15          wrong, but I have tried to take them from your evidence.  
16          Knife to skin, that seems to be one. Presumably he  
17          needs to know you're going to do that so he can be sure  
18          that Adam is adequately anaesthetised.

19   A.   Yes.

20   Q.   Blood loss is another issue where you'd need to  
21          communicate with him that you think that is happening or  
22          it may be about to happen and then he can manage his  
23          end, if I can put it that way. Would you agree with  
24          that?

25   A.   Yes.

1 Q. Clamps on and, maybe, clamps off might be a time when  
2 you need to communicate with him specifically.

3 A. Yes.

4 Q. The anastomosis?

5 A. Yes.

6 Q. Then maybe the pulsatile flow and perfusion might be  
7 a time. In case it's not perfusing as well as you would  
8 like, there may have to be a discussion or you may have  
9 to advise him of that. Would that be fair?

10 A. It is critical he understands where he is and where  
11 I am.

12 Q. And maybe also the closing up what he's going to carry  
13 on doing with the lightening of his anaesthetic and so  
14 on. Would you accept those are distinct periods in the  
15 process of this procedure where you would need to be  
16 communicating with him?

17 A. That is the entire purpose of how a transplant operation  
18 is done. It's not whether he's good at putting in lines  
19 or waiting around; he must understand that he needs to  
20 know where he is in relation to where I am, if you  
21 understand it.

22 Q. Yes.

23 A. He needs to know when I think I'm going to be doing  
24 something. He needs to know when I think I might be in  
25 trouble. He needs to know if I anticipate blood loss.

1 He needs to know, critically, for his point of view, to  
2 be ready to have the drugs that would support Adam's  
3 blood pressure ready to ensure that he had ... So he  
4 needs to know as much of what's going on.

5 Q. Understood.

6 A. That is the art of anaesthesia in transplantation.

7 Q. I understand. If there is poor communication -- I'm not  
8 saying on which side -- but just there is poor  
9 communication between the members of the transplant  
10 team, is that something that has the ability to put the  
11 patient at risk?

12 A. Absolutely.

13 Q. I think we have the document. It's 306-013-095.

14 I think what took the time is the extent of redaction.  
15 So this is theatre 6, which, as I've said, we've been  
16 advised is the only one in which that particular  
17 procedure could take place. We have sought it for the  
18 27th November and in fact, there appears that there is  
19 another page of it, which has nothing on at all; the  
20 whole thing is redacted. But you can see that  
21 somewhere, about two-thirds of the way down, the only  
22 bit that one can see is actually your name and that is  
23 the procedure there:

24 "Transurethral resection of prostate."

25 That doesn't appear to be the procedure that you

1 described.

2 A. Mr Chairman, can I address you? I understand that the  
3 inquiry has spent resource and time on this issue, but  
4 yet again another instance of how mind was working. My  
5 legal team asked me to specifically check this issue  
6 before I would make my statement and I did, but the  
7 books were -- the police had them. So I couldn't get  
8 them.

9 So I remembered the call about the kidney and purely  
10 associated that the only reason that I could be going to  
11 the City Hospital to embolise a kidney must be that  
12 somebody was in theatre 6, bleeding from a percutaneous  
13 -- and this whole issue is incorrect. I made incorrect  
14 statements to the inquiry, but I wish to apologise and  
15 assure you I have not been attempting to obstruct or  
16 impede your --

17 THE CHAIRMAN: What is the correct position?

18 A. The correct position is that I couldn't remember. I was  
19 remembering from the police enquiry of 10 years earlier.  
20 I knew I had gone to operate on something and there I am  
21 doing a major operation, a major urological operation  
22 instead of the thing I thought I was doing.

23 THE CHAIRMAN: Okay. So that is what you were doing?

24 A. It's just that I do apologise for the way I have  
25 remembered.

1 THE CHAIRMAN: Just below your name, there's the name of  
2 a second surgeon, which has been redacted.

3 A. I would be the senior surgeon at the case.

4 THE CHAIRMAN: Was it the other surgeon, or was there  
5 somebody conveying a message from the other surgeon who  
6 brought you over to do that?

7 A. I considered that. I don't have a direct memory of  
8 somebody ringing me about a TURP. The memory is of  
9 talking about embolising a kidney, therefore  
10 the association is it must be the only reason I could be  
11 doing -- receiving a phone call like that is ... And  
12 unfortunately, I answered that question. I hope I can  
13 beg your indulgence to understand how my inaccurate mind  
14 was working. All of that is incorrect and I apologise  
15 to you for it.

16 THE CHAIRMAN: But the procedure which is noted on that  
17 record is the one which you went over to do?

18 A. Oh yes, I'm there. In time, yes.

19 THE CHAIRMAN: Were you due to be there in the first place?  
20 The impression we have, which is maybe where the problem  
21 arises from, is that you were called back to something,  
22 you were called to the City to do something which you  
23 were not scheduled to be involved in because  
24 a particular problem had arisen, whereas an  
25 interpretation of this entry is that this is a procedure

1           which you were scheduled to be involved in.

2    A.   Oh --

3    THE CHAIRMAN:   Do you see what I mean?

4    A.   I do.   Let me explain.   I had an operating list on and

5           as I had an intention to treat Adam starting somewhere

6           in the region of -- you make these calculations as

7           a surgeon.   If I have Adam asleep anywhere near 6.30,

8           I personally will be back --

9    THE CHAIRMAN:   At a particular time?

10   A.   Making the assumption that the list -- my phone ...

11           I probably would have re-arranged the order of the list

12           so that the appropriate cases were early and then they

13           can wait for me if I'm delayed.

14   THE CHAIRMAN:   Okay, thank you.

15   A.   I do apologise for the waste of your time.

16   THE CHAIRMAN:   Don't worry.

17   MS ANYADIKE-DANES:   Following on from the record that you

18           said you were making, who has the responsibility to

19           record the details of the operation?

20   A.   That would be filled in by either the theatre sister

21           or --

22   Q.   Sorry, sorry, I think we are talking at cross-purposes.

23           I was referring to the note you made in the notes.   You

24           made a note of the actual surgical procedure, if I can

25           put it that way.

1 MR MILLAR: I think the witness doesn't appreciate that my  
2 learned friend's back to Adam. Adam's notes.

3 MS ANYADIKE-DANES: I'm so sorry. We're back to Adam.  
4 I beg your pardon. Sorry. I was pressing on. You  
5 described what you had done, so you made a note?

6 A. Yes.

7 Q. And what I'm asking you is: who has the responsibility  
8 to record the details of the operation?

9 A. The operating surgeon.

10 Q. You --

11 A. Yes.

12 Q. -- in other words. So if there is any inadequacy  
13 in that, that's your responsibility?

14 A. I -- yes. I was using abbreviations.

15 Q. No, no, that's all right. Then just before we move on  
16 from there and deal with going to PICU, or paediatric  
17 intensive care, did you know that Adam's mother had  
18 sought a second opinion in relation to Mr Brown's care  
19 of her son at a particular point?

20 A. No.

21 Q. Did you know that she didn't want Mr Brown to have any  
22 further involvement in his care?

23 A. No.

24 Q. If you had known that, what would have been your view?  
25 What would you have done?

1 A. I'd have done the operation with my senior registrar.

2 Q. Thank you. Then you said that you very much regretted  
3 the fact that you had not gone to speak to Adam's mother  
4 after you learned of his condition following the  
5 surgery. And I think you said that you had actually  
6 gone to look at the notes, saw that she was -- the  
7 following day, saw that she was involved in matters of  
8 donation and didn't think it was appropriate for you to  
9 approach her; is that right?

10 A. Well, a transplant surgeon probably -- yes. That's  
11 right.

12 Q. You have also, though, said that it's your practice to  
13 see the parent after surgery and that you would have  
14 expected, in your absence, because you couldn't do it  
15 then as you were going off to your emergency, Mr Brown  
16 to have done so.

17 A. Well, as I left, I thought we were in with a very good  
18 chance that this kidney may or may not start away, but  
19 some time in the next week or two it would be going and  
20 that we were having a kind of a ... We were going to  
21 meet some time and have a cup of tea and a celebration  
22 about the whole thing.

23 Q. Sorry, no, that's not what I'm asking you. You had said  
24 that you had thought that in your absence, your  
25 inability to speak to Adam's mother, that you expected

1 Mr Brown to. I can give you the reference for that.  
2 006/2, page 7.

3 A. Yes, I understand the point. The answer is yes.

4 Q. What you say:  
5 "In my absence I expected Mr Brown to speak to  
6 Adam's family."  
7 On what basis did you expect that?

8 A. Just to say: hello, the chap's gone back to the City and  
9 he'll be back as soon as he can to talk to you. Or that  
10 someone will talk to you.

11 Q. I see. So you actually did expect to speak to her, just  
12 not then obviously because you've got your emergency,  
13 and if I understand you rightly, you expected Mr Brown  
14 to convey something of that and then you would come back  
15 and speak to her?

16 A. Well, say something like -- yes, he could have said  
17 something and communicated that I had gone somewhere and  
18 I would return fairly soon.

19 Q. But in fact, you didn't speak to her at all even  
20 though --

21 A. Well, you know the images of sitting in a chair [sic].  
22 By the time I rang back to see what was happening to  
23 Adam, I think he was on his way -- that must have been  
24 in and around the time he was going to the CAT scanner.  
25 The problem was I had a list on in the afternoon of

1           cystoscopies where we make important decisions about  
2           cancer, et cetera. I have to do that. I had more work  
3           to do that evening and, by the time I finished that  
4           night, I just wasn't in a position myself that I could  
5           go over. So I just left it until the morning to go and  
6           speak to her. But then I found that she was ... What  
7           can you say about donation? I mean, I didn't expect her  
8           to be in the middle of --

9    Q. I understand that. Can I just clarify because I hadn't  
10           heard that evidence from you before, that you had  
11           thought about going back to see her after you'd dealt  
12           with your emergency at the Belfast City hospital, but  
13           then you had an afternoon worth of cystoscopies and some  
14           other work to do, so you didn't. At that time, had you  
15           been informed of Adam's condition?

16   A. I was tracking him by phone. I don't know to whom, but  
17           you know: what's happening? CT shows gross cerebral  
18           oedema and ... You know ...

19   Q. Sorry.

20   A. I knew what was happening by phone.

21   Q. Yes. I'm trying to be pointed because I can see time  
22           marching on. At the time you made the decision "I will  
23           deal with my list to do with cystoscopies and also the  
24           other work", you were aware of the fact that Adam was in  
25           a very serious condition?

1 A. Well, yes.

2 Q. Thank you. I think I have just one further question to  
3 ask you. Could we pull up 060-010-017? There we are.  
4 This is a letter that's written to you, 1997, by  
5 Dr Murnaghan. Do you recognise this letter?

6 A. I do.

7 Q. So the second paragraph is actually where he's talking  
8 about the fact that matters have resolved. He says:

9 "It would have been unwise for the trust to engage  
10 in litigation in a public forum and given the tragic  
11 circumstances of the death."

12 This is, of course, all to do with Adam:

13 "It would not have been helpful for an opportunity  
14 to be provided to lawyers to explore any differences of  
15 opinion which might exist between various professional  
16 witnesses who would have been called to give evidence."

17 What is Dr Murnaghan talking about so far as you're  
18 concerned?

19 Let me put that a little more succinctly. When he  
20 refers to:

21 "... not being helpful for an opportunity to be  
22 provided to lawyers to explore any differences of  
23 opinion which might exist between various professional  
24 witnesses."

25 Firstly, were there differences of opinion between

1           those who would have been likely to be called --

2   THE CHAIRMAN:   Between you, Dr Taylor and Professor Savage.

3   A.   There may have been a difference of opinion between

4       myself and Dr Taylor.

5   MS ANYADIKE-DANES:   Were there any differences between you

6       and Dr Savage.

7   A.   No, he fully understood what his role in the procedure

8       was and he helped me.   I wouldn't have done the

9       procedure without Professor Savage.

10  THE CHAIRMAN:   Sorry, when you say there may have been

11       a difference of opinion between you Dr Taylor, are you

12       saying that there was a difference of opinion between

13       you and Dr Taylor?

14  A.   Were I to appear in somewhere that I could speak about

15       this, there would be.   But I didn't ...   You know --

16  THE CHAIRMAN:   But by then, you had spoken.

17  A.   No.   I never spoke to Dr Taylor.

18  THE CHAIRMAN:   By then you had spoken in a place where there

19       was the opportunity for differences of opinion to

20       emerge, namely the inquest.

21  A.   Yes, but --

22  THE CHAIRMAN:   So at the time when this letter is written --

23       Adam dies in November 1995, the inquest is in spring

24       1996 -- you give evidence and Dr Taylor gives evidence.

25  A.   Yes.

1 THE CHAIRMAN: Isn't that right?

2 A. Yes. But I --

3 THE CHAIRMAN: When did you know that Dr Taylor did not  
4 accept the finding of the inquest?

5 A. Until you sent me the papers. I read it in the  
6 correspondence.

7 THE CHAIRMAN: Did you ever sit down with Dr Taylor  
8 afterwards and say: look, where on earth did this all go  
9 wrong?

10 A. I would have thought that the verdict of the inquest  
11 would have perhaps offered an opportunity for other  
12 people to talk to him.

13 THE CHAIRMAN: Between the death, Adam's death, and the  
14 inquest, there's a period of about 6 or 7 months.  
15 Do you need to wait for an inquest to have some  
16 investigation about what went wrong or some discussion  
17 about what went wrong?

18 A. Well, at the time -- this is pre-Bristol, you know, pre  
19 the definition of how these issues should be handled  
20 properly. I couldn't have said that I knew exactly  
21 myself how to handle this issue. I relied entirely on  
22 a, if you like, forensic or extensive investigation to  
23 be carried out because nothing ...

24 THE CHAIRMAN: By who?

25 A. By an expert from England.

1 THE CHAIRMAN: That was in terms of the inquest. But why on  
2 earth don't you sit down with the people who were  
3 involved and say, "This was just a complete disaster.  
4 We don't need to wait for an inquest in six months. How  
5 do we make sure this doesn't happen again?"

6 A. I worked in a different hospital, I communicated my  
7 views to Professor Savage.

8 THE CHAIRMAN: What were your views?

9 A. The views that have subsequently proven to be incorrect,  
10 that I would never come over again. I think what I was  
11 trying to express was this has been something that has  
12 so upset me that I'm going to have to, at least, at some  
13 stage shortly stop this.

14 THE CHAIRMAN: Mr Keane, let me be quite blunt so you  
15 understand my concern: you provided a statement to the  
16 coroner, which could not have given less detail. On  
17 your evidence today, and all the information which  
18 we have, there does not appear to have been any  
19 determined effort within the Royal and involving you,  
20 for this purpose -- because you were the surgeon  
21 involved -- to discuss what went wrong, attribute  
22 blame -- if that's the right thing to do -- or, at the  
23 very least, make sure that the next child who came in  
24 for a paediatric renal transplant didn't suffer the same  
25 disaster as happened to Adam. Why not?

1 A. Well, I worked in a different trust.

2 THE CHAIRMAN: Yes, I know you did, across the road,  
3 I think. 0.8 of a mile it's been described as.

4 A. With a different management system. I had concerns.  
5 I had expressed them. I had expected a completely  
6 different reaction to the one which I experienced.  
7 There didn't appear to be a, if you like, a very  
8 immediate or extensive investigation into what had  
9 happened. I had come from a system where this would  
10 be ... And at that time --

11 THE CHAIRMAN: You came from a system where this would be  
12 what?

13 A. Different.

14 THE CHAIRMAN: In the sense that there would be an immediate  
15 and extensive investigation?

16 A. Well, maybe the next day or within 48 or 72 hours.

17 THE CHAIRMAN: You must have known then because you weren't  
18 involved in an immediate extensive investigation that  
19 there wasn't one.

20 A. I knew there wasn't one. So now I'm in the system where  
21 surely somebody is going to ask the surgeon what his  
22 opinion was and I was never asked for my opinion.

23 THE CHAIRMAN: Right. So you were never asked. But you  
24 waited to be reactive rather than being proactive  
25 despite the fact that you think about Adam every day?

1 A. Well, the point of ... I was trying in the letter to  
2 point out clearly that the surgeon involved in this  
3 circumstance is now writing a letter, saying: as far as  
4 he was concerned, there was no particular issue  
5 surgically involved. And I had to wait in a time period  
6 where I did not know what to do properly in this  
7 situation I was in for a, if you like, a statutory  
8 system to say what the cause of death was. That was my  
9 feeling. I know that I would treat this differently  
10 now, but unfortunately I can only say what events ...

11 If you look, the problem is, if you look at the  
12 cause of death of Adam Strain that's been debated by  
13 experts, it's possible, just possible, that Adam would  
14 have survived the hyponatraemia had I known what was  
15 going on at ... So that didn't ...

16 THE CHAIRMAN: Is that a reference to Professor Kirkham's  
17 view?

18 A. Yes.

19 THE CHAIRMAN: Until Professor Kirkham produced a report  
20 within the last couple of months from at least the time  
21 of the coroner's inquest in spring 1996  
22 until March 2012, you've only had one view about the  
23 cause of Adam's death?

24 A. I had one certain view of it, yes.

25 THE CHAIRMAN: Okay. You see, frankly, Mr Keane, I'm not so

1 much worried about protocols and Bristol and so on.  
2 What concerns me is that you don't have to have  
3 a protocol to work out or discuss how things went wrong  
4 or why a child died, sure you don't. People like you  
5 and Dr Taylor and Professor Savage and anybody else can  
6 sit round and discuss it and make sure it never happens  
7 again.

8 A. Yes, the situation I found myself in was that ... What  
9 worried me in the lack of communication that I was --  
10 the reason I wasn't being asked formally in a formal  
11 investigative process was that I worked in another  
12 hospital and that nobody would allow me to give an  
13 opinion but that my opinion, essentially, was mirrored  
14 in the coroner's verdict, formally, to assist him, which  
15 I simply did not know how to ... Um ... That I felt  
16 should have ... The system should have reacted.

17 THE CHAIRMAN: What would you say to any suggestion that  
18 your statement to the coroner suggests that you withdrew  
19 into a medico-legal bunker from which you adopt  
20 a position: it wasn't my fault. That's why you said in  
21 your statement to the coroner that the procedure was  
22 successful.

23 A. The message is clear. My purpose in doing it was to  
24 send a clear and unequivocal message across, whether you  
25 believed it or not, whoever was reading this, the

1 surgeon in charge of a child died felt there was no  
2 issue from his point of view.

3 THE CHAIRMAN: Could you have given a colder statement to  
4 the coroner?

5 A. I can't imagine how I could. I can't imagine how  
6 I could have been saying to whoever's investigating --  
7 there must now be someone investigating this you would  
8 imagine: I'd better go and ask the surgeon why he thinks  
9 he has nothing to do with it or, if he's right, what  
10 happened? That's the point of the letter and its  
11 terseness.

12 THE CHAIRMAN: Thank you.

13 MS ANYADIKE-DANES: I'm so sorry, Mr Keane, but while you  
14 were discussing that another issue arose. It's a matter  
15 of clarification; it's not a further point, it's just  
16 clarification. When the chairman was taking you through  
17 that heavily redacted theatre log, the question is: did  
18 you have an arranged list?

19 A. I did.

20 Q. Yes. If you had an arranged list, why did you leave  
21 Mr Brown to close?

22 A. My recollection is, as I've stated and corrected, that  
23 I don't want to say that I was called -- a TURP is  
24 a very major operation in surgery. It's very dangerous  
25 and that's how I would have experience of hyponatraemia

1 and the physiology of this because you can leak

2 essentially free water into your bloodstream --

3 Q. Lets me come at it in other way. You had a prearranged  
4 list, so you knew what the surgical procedures would be  
5 for that day.

6 A. Yes.

7 Q. And did you have an assistant surgeon?

8 A. I had a junior surgeon, yes.

9 Q. What does that mean? A senior registrar?

10 A. A senior registrar.

11 Q. Thank you. So when you agreed to perform the renal  
12 transplant operation on Adam, finally agreed to do that,  
13 who was going to carry out your list or were you going  
14 to cancel your list?

15 A. I would have re-arranged the list as soon as I knew  
16 that -- obviously I knew, I would have re-arranged so  
17 that cases appropriate to my estimation of his level  
18 of ... Would proceed knowing that he had access to the  
19 emergency consultant on call. That's the arrangement if  
20 something is on.

21 You would have to try and time. I set for 6 o'clock  
22 in expectation I'm going to come back in at about 9ish.  
23 Hard to know because you just don't know. That's how  
24 it's done ...

25 Q. Sorry, let me be a little more direct. Does that mean

1           that you were going to have your senior registrar carry  
2           out your list while you were engaged in the transplant  
3           surgery on Adam?

4    A.   Yes.

5    Q.   Right.  And is that the senior registrar that you would  
6           have asked to assist you with Adam, had it not been for  
7           the fact that Mr Brown had been made available to you?

8    A.   Not necessarily.

9    Q.   Right.  So what I think I'm being asked to explore with  
10           you is: that surgery having commenced, is that the case,  
11           with your senior registrar?

12   A.   The --

13   Q.   Yes, the one that was in your list.  Are you saying that  
14           surgery had commenced with your senior registrar?

15   A.   It's possible, but I don't know.  Yes, possible.  
16           I don't know whether it had, you see.  I don't have  
17           a memory of being called.

18   Q.   You had a memory that there was an emergency.

19   A.   I have a specific memory about being called about --  
20           talking about a specific procedure, which I --

21   Q.   Forget the actual specific procedure for the moment  
22           because that seems to have caused a little bit of  
23           confusion.  I think what doesn't appear so far to be  
24           confused is you received some sort of communication that  
25           required you, as a matter of emergency, to get yourself

1 to the Belfast City Hospital; is that right?

2 A. Yes.

3 Q. Is it that the procedure that you had left your senior  
4 registrar to carry out that required you to do that?

5 A. That's the point: I don't have a memory that it was that  
6 specific procedure; I only remember the request was  
7 about embolising a kidney.

8 Q. All right then. Does that mean that there is some  
9 confusion, for example, as to whether it was an  
10 emergency or some confusion as to whether the patient  
11 was bleeding out?

12 A. I understand. You see, I would associate that having  
13 found myself receiving Adam's phone call, sitting in  
14 theatre 6, that I had gone to the theatre 6, but it  
15 could have been somebody in the ward who had had the  
16 procedure the week before and it started to bleed again  
17 or a trauma case that needed -- was bleeding from  
18 a kidney and we needed to embolise it, to give you two  
19 possible examples.

20 Unfortunatly, my recollection was of the  
21 embolisation, which led me incorrectly to then make the  
22 association that the only reason that any memory I have  
23 is sitting at the desk in theatre 6. What could I have  
24 gone there for? It could only have been ...

25 Q. That wasn't actually quite what I was asking. I was

1 asking about the emergency and bleeding. There's one  
2 further point and then I think I've asked all the  
3 questions. That is: if it were an emergency and  
4 bleeding, do you really take time to make your theatre  
5 note then or do you not do that after you've addressed  
6 the emergency and bleeding?

7 A. Well, you know, if you -- when I say "bleeding", there  
8 are a number of ... What I remember -- well, let me put  
9 it this way: there are a number of things you'd do  
10 in that situation that don't require instant ... You  
11 would put a balloon down the tract to tamponade it. The  
12 point of the conversation that I was remembering --  
13 alerting or talking about the possible need to embolise  
14 a kidney. So therefore, once the situation had been  
15 tamponaded -- like putting a pack your up nose, for  
16 instance -- and packing it, we would then stabilise the  
17 patient, bring him round to angiography to embolise the  
18 kidney. So I didn't mean that I had to go to a specific  
19 theatre; the issue was I wrongly associated the memory  
20 with what I thought was the likely diagnosis.

21 Q. Sorry, Mr Keane. I'm not really asking about the  
22 procedure. It really doesn't matter. The only reason  
23 the procedure mattered at all is because it seemed that  
24 a particular procedure you mentioned, nobody could find  
25 it in the theatre log. I'm not particularly concerned

1 about the procedure.

2 The point is: your evidence has always been in your  
3 witness statements that it was an emergency. In fact,  
4 leaving aside the particular procedure, you talked about  
5 the patient bleeding and that's why you had to get  
6 yourself off to the Belfast City Hospital. And that is  
7 why you left Adam, effectively, to have his wound closed  
8 by Mr Brown. So all I am asking you -- at least this is  
9 what I'm being put to ask you is: if that is the case,  
10 that doesn't seem to fit with taking your time to make  
11 two notes -- one more concise than the other,  
12 admittedly -- but making two notes in his medical notes  
13 and records before you attend the emergency. That is  
14 the point that seems to have given rise to a degree of  
15 confusion.

16 A. Okay. I think I can clarify it. If you have a senior  
17 registrar and he has access to an emergency consultant,  
18 I would have allowed him, provided I felt he was of  
19 appropriate experience, to start a TURP. But that  
20 I would be very, very keen, because of the issues  
21 involved in prostate surgery, to attend that situation  
22 very, very quickly or he may have rung me. I don't have  
23 the memory that he rang me to say something was wrong,  
24 but he could have. I don't have that memory or that  
25 he had started and I now needed to get there as soon as

1 possible to make sure that the patient he had started  
2 was safe. Because I felt the issues of Adam's  
3 transplant were ...

4 MS ANYADIKE-DANES: Thank you. Thank you very much.

5 THE CHAIRMAN: Okay, Mr McBrien, Mr Hunter?

6 Questions for MR HUNTER

7 MR HUNTER: Just one matter, sir, if I may, and I will be  
8 brief.

9 Mr Keane, you've mentioned again this afternoon the  
10 significance of the CVP readings to you as a surgeon.  
11 At certain stages of the procedure, it's crucial for you  
12 to know what the CVP is and if it's okay; is that a fair  
13 comment?

14 A. At all times.

15 Q. Yes. We have heard how you have asked Dr Taylor --  
16 I think even this afternoon -- it was brought out on 10  
17 or even 20 occasions about the CVP.

18 A. He could give me a continuous talk on the CVP. Nothing  
19 else. That's all I want to hear.

20 Q. Yes. At certain stages of the procedure, the actual  
21 figure that the CVP is -- whether it's, say, 10, 15,  
22 20 -- would be of more significance for you to know than  
23 Dr Taylor to know?

24 A. Yes.

25 Q. Especially at anastomosis?

1 A. Yes. I know the procedure; he doesn't.

2 Q. You will need to know a figure; would that be correct?

3 A. I need to know I'm in range.

4 Q. Yes, you need a figure.

5 A. Yes.

6 Q. Obviously, you ask Dr Taylor what the figure was?

7 A. It was my invariable practice to ask an anaesthetist,  
8 yes.

9 Q. And you've said that if you had been alarmed or if you'd  
10 known there was a problem with the CVP, you would have  
11 stopped the procedure, you would have taken action.

12 A. There has to be an immediate stop to -- what's wrong.  
13 Because the procedure is now -- if you look at it like  
14 a record, it's like hitting stop. Let's have a look.

15 Q. Yes. So you've said that the CVP's critical to you,  
16 you've said that you are getting actual figures from  
17 Dr Taylor.

18 A. Well, it's either figures or, "Yes, I'm fine".

19 Q. Well --

20 A. I can't have specific recall of, you know, 6, 7, 8, 9,  
21 10.

22 Q. Can I put it to you this way: what might be fine for  
23 Dr Taylor might not be fine for you because it's crucial  
24 for you to know what the CVP is at anastomosis.

25 A. Yes. That's the point. As you come closer, it becomes

1 more defined. Earlier in the procedure, I don't mind if  
2 I hear "yes" from somebody who says he knows. But he  
3 needs to know. You see, as I explained --

4 Q. Sorry, can I just take you to the point? You need to  
5 know the figure.

6 A. If he wants to convey it to me that way, I need to know  
7 he's fine, but at special parts of operation I need to  
8 know the figure.

9 Q. You need to know the figure. May we take it that you  
10 asked Dr Taylor what the figure was?

11 A. You may take that.

12 Q. Can you maybe tell us what the figure was that he gave  
13 you?

14 A. No, I'm working differently. I'm working to a --

15 Q. Okay, I'm sorry, can I again just stop you there. I'm  
16 just trying to be brief so we can move matters on. You  
17 said you have asked him for a figure. You have said  
18 that he gave you a figure.

19 A. Yes.

20 Q. So obviously, the figure he gave you did not give you  
21 any cause for concern.

22 A. Yes.

23 Q. Okay. Then can I ask you what figure you would be  
24 concerned at?

25 A. Anything over 12.

1 Q. Can I assume from that then that the figure he must have  
2 given you must have been under 12?

3 A. Yes.

4 MR HUNTER: Thank you. No further questions, sir.

5 THE CHAIRMAN: Mr McAlinden?

6 MR MCALINDEN: No.

7 THE CHAIRMAN: Any of the other individual counsel?  
8 Mr Fortune?

9 MR FORTUNE: No, thank you, sir.

10 THE CHAIRMAN: Mr Uberoi?

11 Questions from MR UBEROI

12 MR UBEROI: Yes, just one matter, if I may.

13 Just in response to that. In your witness statement  
14 to the inquiry, Mr Keane, this is your third witness  
15 statement. Sir, it's 006/3, page 17, please.

16 THE CHAIRMAN: 33(b).

17 MR UBEROI: Yes. You're asked in terms:

18 "State whether at any time during surgery you asked  
19 the anaesthetist what the CVP was and, if so, state what  
20 the response was thereto. If you have no specification  
21 recollection, state what was your customary practice and  
22 the reasons why."

23 As you'll see you have answered there:

24 "My customary practice is to ask if the CVP is up --  
25 not specifically a number, as the anaesthetist may need

1 time to give a bolus of fluid. I tell the anaesthetist  
2 when I anticipate taking the clamps off."

3 You have very fairly accepted in earlier parts of  
4 your evidence that you can't in fact remember large  
5 parts of the procedure. Is it not the position that  
6 your customary practice was to ask if the CVP is up  
7 rather than to ask for a specific number?

8 A. Well, what I'm asking him -- I have defined how to do --  
9 how he is to do the CVP management for me. He clearly  
10 understands the range. I have explained to him the  
11 philosophy of gently expanding the child's -- gently,  
12 slowly, as we predict this is going to take two hours,  
13 do it over two hours.

14 Q. Your evidence is that that's your recollection of what  
15 your normal practice would have been?

16 A. That's what my normal practice would have been. So the  
17 critical issue then is, if you're operating with an  
18 anaesthetist who doesn't have your intrinsic knowledge  
19 of how the procedure works, I listen to how the CVP is  
20 coming up so that I know ... I'm now gauging everything  
21 as I operate, at what speed I operate, as to when I'm  
22 going to start the anastomosis. Now, for me, doing the  
23 procedure, I would then turn to him and say, "Are you  
24 with me? Are you in range? Because in about 20/30  
25 minutes time, these clamps are coming off".

1 Q. If I could just interrupt. Again, you have moved  
2 into: I would do this, I would do that; all I'm asking  
3 you is what you precisely recall.

4 A. I'm trying to describe that I'm listening to  
5 a continuous flow of information -- and that I am  
6 judging where I am.

7 Q. So you don't recall what you were, in fact, told?

8 A. I'm listening -- I can't --

9 THE CHAIRMAN: Sorry, Mr Keane, there's two different --  
10 you have given two slightly different explanations for  
11 what you would have done. One is the general one, which  
12 is, in terms: I would have checked with him or asked him  
13 that the CVP was okay and he says yes. And you're  
14 reassured the CVP is okay so you can continue with your  
15 work. That's one position.

16 The other position, which you just said to  
17 Mr Hunter, is that you seem to be saying you were  
18 specifically told that the CVP was at a number less than  
19 12 and what Mr Uberoi's asking about is when you were  
20 asked in writing about what you asked the anaesthetist  
21 about and what the response was. You didn't say what  
22 you have just told Mr Hunter, "I was told it was 10 or  
23 11 or told a specific number"; you responded by  
24 reference to your customary practice.

25 A. Yes.

1 THE CHAIRMAN: The difference is this: it's one thing for  
2 Dr Taylor to say to you, "It's okay, it's okay", because  
3 he thinks it's okay. It's a slightly different matter  
4 for you to be saying to me that Dr Taylor told you it  
5 was 9 or 10 or 11 or was putting a specific number on  
6 it.

7 A. My purpose in trying to describe to you and let you have  
8 some idea of what I'm doing is this a crescendo to the  
9 clamps off. The operation proceeds to clamps off.  
10 I don't mind, as I hear what's happening, how specific  
11 it is, but there are specific moments that I ask for the  
12 number. As I approach the time when I'm going to take  
13 the kidney out for obvious reasons, I'm now going to ask  
14 him: are you with me in range? When I start to do the  
15 anastomosis, he now knows how close I am, anticipating  
16 I'm going to be in 20 minutes' time and if he's  
17 behind -- if he doesn't know what I'm doing, you see ...  
18 If he doesn't know, as I then tell him: you're too far  
19 behind me, give more fluid, gently. Bring him up gently  
20 to the crisis point when the clamps come off. To me,  
21 it's like conducting an orchestra, telling this  
22 fellow: keep with me, tell me what's happening. But as  
23 you rise to the crescendo of the operation, I need him  
24 exactly with me. I don't care if he's a little bit  
25 behind, a little bit in front. He needs to understand

1           exactly when I'm doing and, at those crescendo times,  
2           it's all numbers.

3   MR UBEROI:   Getting back to the point, I understand your  
4           evidence about crescendo and about it being an  
5           orchestra, but you don't, in fact, recall what you asked  
6           and what you were told, do you?

7   A.   I don't remember the replies in numerals.  I just try to  
8           describe how it's done.

9   MR UBEROI:   Thank you very much.

10  A.   Thank you.

11  MR HUNTER:   Just to come back to that, and again I will be  
12           very brief.  Can I ask him one more question?

13  THE CHAIRMAN:  What is the question?

14  MR HUNTER:   I want to ask him if he had worked with  
15           Dr Taylor previous to this.  The reason I ask it is  
16           because he said he's assuming the anaesthetist knows  
17           it's within range.  Therefore, if he has not worked with  
18           Dr Taylor before, how is Dr Taylor to know what range is  
19           acceptable to him?

20  THE CHAIRMAN:  Because on his evidence, he, at the start of  
21           the operation, he has a discussion with the anaesthetist  
22           in which he goes through all this.  And that's my  
23           understanding of Mr Keane's evidence already.  That's  
24           how Dr Taylor should know the range because whether  
25           they've worked together or not, he has specifically said



1           insert a suprapubic catheter?

2    A.   That was the whole point.  Adam's urethra, to  
3           a consultant urologist, was never capable of  
4           accommodating a catheter fit for the task at hand.

5    Q.   What was that task?

6    A.   To do a transplant procedure.

7    Q.   Was it your practice to use a suprapubic catheter rather  
8           than a urethral catheter?

9    A.   Invariably.

10   Q.   Secondly, if the witness's deposition to the coroner  
11           would be brought up briefly.  011-014-093.  Just before  
12           coming to that, you were being asked -- and I think  
13           being asked by the chairman in very clearly terms --  
14           about what you did after Adam's death and I think part  
15           of your evidence was, when you realised what had  
16           happened, you went over to the Children's Hospital the  
17           next day.  You were looking for Adam's mother and you  
18           described the difficulty with that.  You then went and  
19           read the notes and you then went to see Dr Savage in his  
20           office; isn't that right?

21   A.   Yes.

22   Q.   And again, if I can lead you on this -- because it was  
23           your evidence -- you looked at the notes, you saw the  
24           amount of fluid, you took a view about that, you went  
25           and spoke to Dr Savage and you communicated your view

1 about that; isn't that right?

2 A. That's correct.

3 Q. Had you any sense that Dr Savage didn't share your view  
4 of the fluid?

5 A. No, absolutely -- no.

6 Q. Moving on then to the stage of the coroner's inquest,  
7 and if you look at this document, and again the chairman  
8 will be familiar with the format of these documents.  
9 The typed section is obviously based on the letter that  
10 we've looked at early; isn't that right?

11 A. Yes.

12 Q. And then again, the chairman will know that the first  
13 bit of handwriting before it reads "Miss Higgins" -- she  
14 was the junior counsel, as she was then -- representing  
15 the Strain family; isn't that right?

16 THE CHAIRMAN: Yes.

17 MR MILLAR: She was the family representative. But the  
18 little bit at the beginning -- I think the chairman will  
19 know that reflects you answering questions asked by  
20 the coroner. Were you asked some questions by  
21 the coroner?

22 A. Yes.

23 Q. Then were you asked some questions by Miss Higgins?

24 A. Yes.

25 Q. Does the remainder of it, the handwriting, reflect what

1           you answered to her?

2    A.   Well, yes.

3    Q.   At the inquest, was it the case that the coroner had

4           available to him the report of Dr Sumner?

5    A.   Yes.

6    Q.   And to your knowledge, was that report also available to

7           the family and the family's legal representatives?

8    A.   I assume so.

9    Q.   During the course of the inquest then, Mr Keane, did

10           either the coroner, armed with Dr Sumner's report, or

11           the family with the benefit of that report, pursue with

12           you your opinion of why Adam had died or the intricacies

13           of the fluid management issues?

14   A.   No.   That was the -- that's why -- no.

15   MR MILLAR:   Thank you.

16   THE CHAIRMAN:   Okay, thank you.   Mr Keane, you've been

17           giving evidence for a long time.   I'm grateful for that

18           and I'm grateful for your accommodation.   Before you

19           leave the witness box, you don't have to say anything

20           more, but is there anything you want to add beyond what

21           you have said already?

22   A.   If there are any members of Debra Slavin's family here

23           now, I'd like to repeat my apology to her for not

24           comforting her in her hour of need.   It was not

25           intentional and I apologise to her.

1 THE CHAIRMAN: Thank you very much indeed. Would you like  
2 to step back?

3 (The witness withdrew)

4 THE CHAIRMAN: I'm afraid there's no point whatsoever in  
5 starting Mr Brown. We would have to take a break  
6 shortly for the stenographer. I really don't see any  
7 point in starting Mr Brown at 3.45 or thereabouts,  
8 taking him for an hour, hour and a half, and then  
9 breaking until some day when I'm not quite sure in the  
10 future. We will have to liaise with you and Mr Brown  
11 about when his evidence can be taken, I'm afraid. I'm  
12 very sorry for that. He's been waiting patiently for  
13 a number of days, I know that. I'm very disappointed  
14 we haven't made more progress.

15 MS WOODS: Mr Chairman, I know you said yesterday that you  
16 would sit as late as need be. I'm wondering -- and I'm  
17 throwing the question out there and looking at my  
18 learned friends -- whether there actually is any  
19 realistic possibility of dealing with Mr Brown today.  
20 Because that would obviously be best for everyone.

21 THE CHAIRMAN: We can't sit for a number of reasons beyond  
22 5.30. The stenographer needs a 10 or 15-minute break  
23 now. His evidence could not be done in under two hours.

24 MS WOODS: I'm looking at Miss Comerton who's just walked  
25 in the room.

1 THE CHAIRMAN: It will be our job now to accommodate you and  
2 Mr Brown now as best we can because you have been  
3 waiting for so long. I presume that you don't --  
4 I would start Mr Brown if that would help, but the  
5 reality is I don't think we would finish him today.  
6 It's a matter for you as to whether you're content for  
7 Mr Brown to start to give evidence and resume at some  
8 undetermined --

9 MS WOODS: No, sir, we wouldn't be happy with that. I can  
10 be clear on that.

11 THE CHAIRMAN: Thank you very much. I'm sorry about that.

12 Ladies and gentlemen, this only emphasises the  
13 issues that we flagged up at the end of yesterday  
14 afternoon's hearing about timetabling. We will now  
15 finish for today. I have told you who tomorrow's  
16 witnesses are. The inquiry team now will convene to  
17 review again the witness schedule and our timetable  
18 going forward. In the meantime -- Mr Fortune?

19 MR FORTUNE: Sir, I'm going to come back to this question of  
20 housekeeping. It is a very serious matter and although  
21 counsel is saying "I shall only be so long", there are  
22 serious questions being raised about these estimates.

23 You have given us an indication as to the witnesses  
24 to be called tomorrow. Realistically, how many are we  
25 going to get through?

1 THE CHAIRMAN: We're going to get through all three of them,  
2 I'm telling you now. We've got two nursing witnesses  
3 tomorrow and a transplant coordinator. We will get  
4 through all three of those witnesses tomorrow. I am  
5 telling you now, I will make sure we get through all  
6 three of those witnesses tomorrow.

7 MR FORTUNE: What time are we going to start tomorrow?

8 THE CHAIRMAN: We're going to start at 9.30 tomorrow.

9 Thank you very much.

10 (3.30 pm)

11 (The hearing adjourned until 9.30 am the following day)

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I N D E X

MR PATRICK KEANE (continued) .....1  
    Questions from MS ANYADIKE-DANES .....1  
    (continued)  
    Questions for MR HUNTER .....182  
    Questions from MR UBEROI .....185  
    Questions from MS WOODS .....190  
    Questions from MR MILLAR .....190

