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2 (10.00 am)
3 (Delay in proceedings)
4 (10.08 am)
5 THE CHAIRMAN: Good morning. Ms Anyadike-Danes?
6 MS ANYADIKE-DANES: Thank you. Good morning, Mr Chairman.
7 Could I call Dr Chisakuta, please?
8 DR ANTHONY CHISAKUTA (called)
9 Questions from MS ANYADIKE-DANES
10 MS ANYADIKE-DANES: Good morning.
11 A. Hello.
12 Q. Dr Chisakuta, do you have a copy of your CV there?
13 A. Yes, I have it here.
14 Q. Thank you very much indeed. I'm going to refer you to
15 the various statements that you've made and ask you
16 whether you adopt those statements as your evidence,
17 subject to anything that you may say in this hearing.
18 The first is a signed statement that you gave to the
19 Trust, it's dated 9 May 2003, and the reference is
20 062-037-076. So that's the first of them.
21 Then you made a statement to the PSNI on 14 March,
22 which is --
23 THE CHAIRMAN: Sorry, is it not on?
24 A. No.
25 THE CHAIRMAN: One second, Ms Anyadike-Danes. (Pause).

1 A. I did.
2 Q. Was that a decision that you took that you intentionally
3 didn't want to discuss or did it just happen that way?
4 A. I think it just happened that way.
5 Q. Then if I go to the CV that you've provided to us. That
6 can be found at 315-012-001, but if we go to 003, which
7 really deals with your appointments. As at the time of
8 Lucy's death in April 2000, you had been a doctor for
9 about 16 years.
10 A. I presume so. I have to work it out.
11 Q. I can understand that. Let's bring it closer in time.
12 You had been a consultant for about three years. You
13 say you were a consultant on 1 August 1997; is that
14 correct?
15 A. That's correct.
16 Q. And so you were first a consultant at the Children's
17 Hospital?
18 A. That's correct.
19 Q. But then one looks down at your past appointments.
20 Prior to that, you were a registrar in anaesthetics at
21 the Altnagelvin Hospital; is that right?
22 A. That's correct.
23 Q. For a year?
24 A. I was there twice.
25 Q. Yes, as a senior registrar?

1 A. Okay.
2 MS ANYADIKE-DANES: Do you see that there?
3 A. Yes.
4 Q. You made a statement to the PSNI dated 14 March, which
5 is essentially the same as that statement, and the
6 reference for that is 115-028-001.
7 A. Yes.
8 Q. You've now made three statements to the inquiry: the
9 first is dated 29 November 2012, the second is
10 22 January 2013, and the third is dated 28 May of this
11 year.
12 A. Yes.
13 Q. The reference for all those statements is series 283.
14 Do you adopt all those statements as your evidence
15 subject to anything that you say now?
16 A. I do.
17 Q. Thank you very much. Can I ask you, before you provided
18 any of those statements, did you have discussions with
19 your colleagues about what had happened in relation to
20 Lucy?
21 A. No.
22 Q. So those statements are made without the benefit of any
23 discussions with your colleagues?
24 A. Yes.
25 Q. Did you know they were making statements?

1 A. As a senior registrar, the last one for six months, and
2 the first one, I was a registrar for a year.
3 Q. I wonder if you could help: is there any particular
4 reason why you had those two stints at the Altnagelvin
5 Hospital?
6 A. The way the anaesthetics training is structured is that
7 we tend to rotate through all the hospitals. So that
8 was just the rotation I was assigned.
9 Q. Was that part of your rotation as you went up a grade,
10 if I can put it that way?
11 A. Yes.
12 Q. I see your last position for six months was in 1997?
13 A. Yes, I think from February to the end of July.
14 Q. That's correct. Then you went on -- and I'm going to
15 ask you about this a little bit in a moment, but
16 I wonder if it's connected at all. You were invited to
17 give a talk in 1998 at the inaugural meeting of the
18 Western Anaesthetic Society. I think the talk you gave
19 was in September 1998. The Altnagelvin Hospital would
20 be within that catchment, wouldn't it?
21 A. It is. That's the hospital where I was working.
22 Q. Yes. Is part of the reason you might have been invited
23 because you were known to people already?
24 A. Maybe, or because I was also a consultant in paediatric
25 anaesthesia.

1 Q. Sorry?
2 A. Or because I was a consultant in paediatric anaesthesia.
3 Q. You had just become a consultant at that stage?
4 A. In paediatric anaesthesia as I had been for three years.
5 Q. In a little while I'm going to ask you about that
6 presentation and thank you for providing a statement
7 about it, but if we can stick now to you helping us
8 understand how the PICU worked at that time in 2000.
9 How many consultants on average at any given time
10 would you have there in PICU?
11 THE CHAIRMAN: On duty.
12 MS ANYADIKE-DANES: On duty. Sorry, I should have said
13 that, on duty.
14 A. On a particular day?
15 Q. Yes.
16 A. There would be one who would work from say 8.30 to --
17 for 18 hours and then the on-call doctor would take over
18 for the night.
19 Q. And that would be a consultant paediatric anaesthetist?
20 A. That would be a consultant paediatric anaesthetist.
21 Q. Would there be consultants in other disciplines as well?
22 A. There would be consultants in other disciplines, but
23 they don't -- unless they're asked for consultation into
24 the PICU, they wouldn't necessarily come to the PICU.
25 Q. For example, Dr Hanrahan, in the case of Lucy, was asked

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1 fluids would be stopped by the paediatrician. Whatever
2 they thought they would want to use, I had no influence
3 over that.
4 Q. Were you aware that's something that happened at that
5 time or is that something you have become aware of
6 subsequently?
7 A. It happened at that time. I mean, my practice would be
8 to go and see my patients afterwards, you know. Either
9 that day and the day after, depending on the case I have
10 done. Then you'd note that something had been changed.
11 Q. Is that something that you experienced in other
12 hospitals or was that something that was -- for example,
13 I note that you were a senior registrar in paediatric
14 intensive care at Great Ormond Street.
15 A. It was slightly different because there I was just --
16 purely I spent most of my time in the intensive care
17 unit, so I wasn't necessarily working in theatre, so ...
18 Q. I understand. But were you aware from working in other
19 hospitals as to whether an anaesthetist could prescribe
20 a fluid that was thought to be appropriate in the
21 immediate post-operative phase and then have that fluid
22 changed when the child reached the ward? Were you aware
23 of that from other hospitals?
24 A. Yes.
25 Q. Did it concern you that that could happen?

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1 by Dr Crean to come and give a neurological assessment
2 of Lucy; is that the sort of thing you mean?
3 A. I believe that's what happened.
4 Q. Yes. And where would such a doctor be other than in
5 PICU?
6 A. Either in their respective wards looking at their
7 patients or in the clinics.
8 Q. And would there be registrars that were based in PICU --
9 A. We had, yes --
10 Q. -- at that time?
11 A. Yes, we would have had probably a senior house officer
12 and a registrar.
13 Q. When you were working in Altnagelvin, were you aware of
14 there being any ward protocols in relation to the
15 administration of fluids to post-operative paediatric
16 patients?
17 A. I can't recollect that, no. I'm not sure.
18 Q. Would you, when you were working there, have prescribed
19 fluids in the immediate post-operative phase for
20 a child?
21 A. What would normally happen is I would probably would
22 have prescribed some fluid, but that doesn't necessarily
23 mean that's what was going to happen in the ward when
24 the child went to the ward. In most cases what tended
25 to happen was that when the child went to the ward, the

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1 A. Yes.
2 Q. Did you make your concerns known when you were at
3 Altnagelvin?
4 A. Not necessarily in Altnagelvin, but on a particular
5 patient, depending on wherever I was, if I felt that
6 particular fluid they were using for that patient was
7 unsuitable, I would change it.
8 Q. Was it ever explained to you when you were at
9 Altnagelvin the rationale for that, for that practice,
10 that a paediatric anaesthetist could prescribe what they
11 thought was an appropriate fluid and have that changed
12 when the child got on to the ward?
13 A. At that time when I was working in Altnagelvin I was
14 a trainee, I wasn't necessarily a paediatric
15 anaesthetist; I was just -- I was training in
16 anaesthesia.
17 Q. I see.
18 THE CHAIRMAN: Doctor, let me be very clear about this. One
19 of the areas of major concern in Raychel's case is that
20 the paediatric anaesthetist was discouraged from
21 prescribing post-operative fluids on the basis that
22 responsibility for the post-operative fluids would be
23 taken by the doctors who were on the ward. You have
24 described a few moments ago how you would prescribe
25 post-operative fluids and then find that, when the child

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1 was back on the ward, at some point they had been
2 changed to whatever the relevant paediatrician wanted;
3 isn't that right?
4 A. That's right.
5 THE CHAIRMAN: When you were in Altnagelvin, were you ever
6 in a situation where you were discouraged from
7 prescribing or you didn't prescribe what the
8 post-operative fluids would be and instead you were
9 advised that you should leave the prescription of those
10 fluids to the doctors on the ward?
11 A. I do not recollect that incident.
12 THE CHAIRMAN: So so far as you can recall, when you were in
13 Altnagelvin, you prescribed the post-operative fluids,
14 the child who had been operated on would have started to
15 receive the post-operative fluids and later, at some
16 point later, those fluids would be changed by
17 a paediatrician to whatever that paediatrician decided
18 was appropriate?
19 A. Especially if the fluids which I had prescribed in
20 theatre ran out, then they might start whatever they
21 think is appropriate, yes.
22 THE CHAIRMAN: So when you prescribed the post-operative
23 fluids in effect they're time-limited because you will
24 prescribe a certain amount of post-operative fluid, and
25 when that fluid runs out, or perhaps before that point,

1 A. No, I don't -- you see, in Altnagelvin I anaesthetised
2 both children and adults, so it depended on whichever
3 patient I went to see. If I found that that patient --
4 probably the fluid that they have given him is not the
5 fluid that I agree with, I would have changed it to what
6 I have thought they should be on.
7 Q. Yes, that is why I was asking you that. Had you ever
8 come across a situation where you had had to do that
9 whilst you were at Altnagelvin?
10 A. I do not recollect over the years, but it could have
11 happened. It probably did happen.
12 Q. Thank you. In fairness, I should ask you this: did you
13 meet any resistance when you made your feelings known
14 that you didn't think that the fluids that the child had
15 been changed to were appropriate for the child?
16 A. Not when I explained the rationale why I'm doing it.
17 Q. Thank you. I'm just trying to check whether you were
18 at -- I think you were at the Royal when Adam Strain,
19 the first of the children whose death is inquiry is
20 investigating, was admitted. I think you were at the
21 Royal from 1 November 1994 to 31 January 1996.
22 A. Yes.
23 Q. And we had asked you whether you recollected that case;
24 do you have any recollection at all?
25 A. No.

1 somebody on the ward will take responsibility for
2 whatever the child is to receive next?
3 A. That's correct.
4 THE CHAIRMAN: Thank you.
5 MS ANYADIKE-DANES: Can I ask, did you have a particular
6 post-operative fluid that you generally prescribed?
7 A. We tended -- I tended to prescribe a salt-based
8 solution, things like Hartmann's solution, Ringer's
9 lactate or just normal saline -- 0.9 per cent saline
10 I mean.
11 Q. I understand. Were you aware of what the fluid was that
12 was used on the paediatric ward whilst you were at
13 Altnagelvin?
14 A. Not offhand. It's difficult for me to answer that
15 question in that I know that, in most cases, most
16 paediatricians tended to use 0.18 saline with 4 per cent
17 dextrose because it was a solution that was felt to be
18 suitable for a maintenance period.
19 Q. Yes. And just to sort of round off something that the
20 chairman was asking you, I think you had said that if
21 you had a concern that, from your point of view, the
22 child's fluids were not the appropriate fluids by the
23 time you saw what they were on on the ward, I don't
24 recall whether you had said whether a situation like
25 that ever arisen when you were at Altnagelvin.

1 Q. Is that because of the passage of time or do you think
2 it's not the kind of case that you would come to your
3 attention?
4 A. It wouldn't have come to my attention because I wasn't
5 working in paediatrics at that time.
6 Q. And then in relation to Claire's case, she died in
7 1996, October 1996; you were in Great Ormond Street at
8 that time.
9 A. Yes.
10 Q. You came back to Altnagelvin as opposed to the
11 Children's Hospital.
12 A. The Children's Hospital.
13 Q. When you came back to the Children's Hospital, which you
14 did at the beginning of August 1997, so that would be
15 just over six months after Claire had been admitted and
16 died, do you recollect any discussion at all about her
17 case?
18 A. No.
19 Q. There had been a concern in relation to Adam's case
20 about the fluid regime he was on, and by the time you
21 come back, you do come back to the Children's Hospital.
22 As a result of that, a statement was offered to
23 the coroner during his inquest in the summer of 1996,
24 which was explaining how matters are going to be
25 addressed. I'm just going to take you to that

1 statement, if you give me one moment, to see whether you
2 ever recall seeing it.

3 Perhaps can we pull up 011-014-107A? This is
4 a statement which was seen and endorsed by the
5 consultant paediatric anaesthetists in 1996. You see
6 the date down there, "20 June 1996" down at the bottom.
7 I wonder if you could just have a read of that
8 statement. (Pause).

9 IF I take you to the middle paragraph:

10 "In future all patients undergoing major paediatric
11 surgery who have a potential for electrolyte imbalance
12 will be carefully monitored according to their clinical
13 needs and, where necessary, intensive monitoring of
14 their electrolyte values will be undertaken.
15 Furthermore, the now known complications of
16 hyponatraemia in some of these cases will continue to be
17 assessed in each patient and all anaesthetic staff will
18 be made aware of these particular phenomena and advised
19 to act appropriately."

20 When you came back to the Children's Hospital on
21 1 August 1997 as a paediatric anaesthetist, you would be
22 anaesthetising children for major surgery, isn't that
23 correct?

24 A. That's correct.

25 Q. Just while we are there, how do you define major

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1 provided to trainees?

2 A. I think trainees probably would have been taught about
3 the risks of using different types of intravenous fluids
4 and, yes, hyponatraemia.

5 Q. Do you think that because you think it was a good idea
6 and logical that they were or do you think that because
7 you have some basis in recollection for saying that?

8 A. I have no basis of recollection, but I mean, these are
9 people in training or undergoing training and the only
10 way that they can be -- they can learn is by either,
11 formal or informally, by somebody telling them because
12 there are lectures that are held or seminars that are
13 held and some of them are on IV fluids, so this would
14 have been pointed out to them.

15 Q. From your point of view, that would have been a prudent
16 thing to be communicating to trainees?

17 A. Yes.

18 THE CHAIRMAN: Were you alerted to the fact that the Royal
19 had had a particular incident, let's call it, as
20 a result of which there was heightened awareness among
21 anaesthetists about hyponatraemia?

22 A. No.

23 THE CHAIRMAN: So if the trainees were receiving guidance
24 and advice because of this heightened awareness, it
25 wasn't something which was being communicated to you as

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1 surgery?

2 A. You can define it in terms of the length of time it
3 takes for the operation or the actual procedure which is
4 taking place, depending on if they're going into the
5 body cavity, intra-abdominal, the chest or if it's
6 spinal type surgery. Any surgery that takes over
7 an hour probably may be regarded as major surgery.

8 Q. And brings with it certain risks?

9 A. Yes.

10 Q. So you would be engaged in that. Was any statement of
11 this type ever communicated to you when you came back?

12 A. This is the first time I'm seeing this statement.

13 Q. Did you even know such a thing had been produced?

14 A. No.

15 Q. Was any guidance given to you at all when you came back
16 about the now known complications of hyponatraemia,
17 leaving aside what you may already have recognised
18 yourself from your own teaching and research? Did
19 anybody at the Children's Hospital provide any guidance
20 on the now known complications of hyponatraemia?

21 A. Not that I can recollect.

22 Q. Were you aware of any guidance of that sort being
23 provided to trainees? You came back as a consultant, or
24 at least were appointed as a consultant as you came
25 back, but were you aware of that kind of guidance being

14

1 the consultant?

2 A. I think it wasn't communicated to me as such, but
3 I would imagine the assumption would have been I would
4 have known that using certain types of fluid would cause
5 hyponatraemia.

6 THE CHAIRMAN: Yes, but the point about Adam's case, doctor,
7 is that this note was produced in order to show to
8 the coroner that the paediatric anaesthetists in the
9 Royal had learnt something from Adam's treatment and
10 death and, in order to reassure the coroner, that
11 henceforth there would be a closer eye kept on
12 electrolyte monitoring in order to avoid hyponatraemia.

13 A. This was not part of my induction. I didn't see this.

14 THE CHAIRMAN: Thank you.

15 MS ANYADIKE-DANES: Thank you. But in fact, you did go on
16 to give a talk at the inaugural meeting and, in your
17 third statement to the inquiry, 283/3, you include that.
18 If we go to your statement, which is very short, 283/3,
19 page 2. You say:

20 "On the evening of 30 September I was invited ..."
21 That's when you actually gave the talk?

22 A. Yes.

23 Q. So you gave that talk to the inaugural meetings of the
24 Western Anaesthetic Society in Derry. From your
25 recollection, members of that society would have come

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1 from the Altnagelvin Hospital, the Mid-Ulster Hospital
2 and Tyrone County Hospital?
3 A. Yes, including probably Letterkenny Hospital, but it's
4 in another jurisdiction.
5 Q. Sorry?
6 A. Including Letterkenny Hospital, but that's --
7 Q. Do you actually recollect anybody who actually attended
8 that? I know it's a while ago.
9 A. No, but I think at that time the chairperson used to be
10 a Dr Neville Hamilton.
11 Q. So Dr Hamilton would have been there?
12 A. He would have been. I know because he was the one who
13 was the chairperson and he has organised the meetings.
14 Q. Yes. In terms of your expectations as to who would be
15 coming, the anaesthetists from these hospitals you would
16 expect some of them would come. At what level were you
17 really pitching your talk? Was it to the consultants,
18 to trainees, or was it intended to be a general talk to
19 which really any grade could attend?
20 A. I think the people who attended were mainly consultants.
21 Q. Mainly consultants?
22 A. Yes.
23 Q. Then you say that the lecture you gave was on recent
24 advances in paediatric anaesthesia and I'm going to take
25 you to that part in a minute, a part of your talk

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1 In fact, I have just forgotten, there was actually
2 a paper that was produced in Northern Ireland from the
3 Department of Health that was actually also encouraging
4 us to be doing those type of links.
5 Q. And you have just recollected it now, but would you be
6 able to inform the inquiry of what that paper was so
7 that we could try and obtain it? I don't necessarily
8 mean literally now; maybe in one of the breaks.
9 A. I know that ... I can't remember the actual detail of
10 the title, but I do remember me talking about it because
11 it was talking about these links and associations
12 between ... Or what should be happening in the district
13 hospitals.
14 Q. Can you remember roughly when that was being suggested?
15 A. I mean, I know at that time in 1998, when I was doing
16 this talk, that paper was around. I did talk about it.
17 Q. Yes, so was you giving that talk part of responding to
18 that initiative, if I can put it that way?
19 A. Possibly, yes, but also ... I think it was felt it was
20 a good idea that we should be sharing information.
21 Q. Is that something that you did regularly?
22 A. I mean, I didn't ... Personally, yes, I did give
23 lectures wherever I was asked to do, but I did not also
24 that -- there was a liaison group which, I think, at
25 that time -- it was either Dr McKaigue or Dr Crean --

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1 prompted by a recent paper by Professor Arieff. He had
2 just published his second paper, really, in 1998.
3 A. Yes.
4 Q. But before I come to that detail, you say that the
5 purpose of telling the inquiry about that paper that you
6 gave is to show that consultant anaesthetists at the
7 Children's Hospital were actively involved in sharing
8 their knowledge with other anaesthetists and also to
9 establish that that particular topic of post-operative
10 hyponatraemic encephalopathy was being brought to the
11 attention of anaesthetists as early as 1998.
12 But if we go to the first reason for telling us
13 about it, was there any more formal encouragement given
14 to the specialists at the Children's Hospital to engage
15 in this kind of outreach or dissemination of information
16 that you can recall from 2000?
17 A. I mean -- by "formal" meaning something coming from
18 management saying you should be doing this?
19 Q. Yes. Were you actively encouraged to do it?
20 A. Not necessarily from management, but from the
21 anaesthetic, you know, the paediatric, the Association
22 of Paediatric Anaesthetists, they do encourage us to
23 work as networks, to form links with -- because each
24 hospital, each big hospital where there are anaesthetic
25 students, there should be a lead paediatrician.

18

1 used to be responsible with meeting other lead
2 paediatric anaesthetists in other district hospitals and
3 they used to sort of meet and talk about whatever,
4 I don't know.
5 Q. Maybe you could help: what sorts of things did you
6 discuss at those kinds of meetings?
7 A. I mean, those meetings, the liaison one I never
8 attended. As for the lecture, it depended on what I had
9 to talk on.
10 Q. So topical issues?
11 A. I think for the liaison group I really wouldn't want to
12 comment on them since I didn't take part. For me, if
13 I was asked to give a talk, it would probably be on
14 a topical issue or depending on whatever people wanted
15 to know.
16 Q. So far as you're aware, were the other consultant
17 paediatric anaesthetists giving similar talks? Not
18 similar in terms of the subject matter, but approaching
19 the dissemination of information in a similar way.
20 A. Yes.
21 Q. And then the other reason you gave was to let the
22 inquiry know that the topic of post-operative
23 hyponatraemic encephalopathy was being brought to the
24 attention of anaesthetists perhaps outside the
25 Children's Hospital as early as 1998. When you gave

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1 that paper, were you doing so recognising that what
2 you're really talking about in terms of the
3 post-operative side of things was innovative, new in any
4 way, or was it by way of refreshing people's
5 recollection as to the potential significance of this?
6 A. I think the reason why I included that -- I don't know
7 if you have the -- I'm not sure if you have my ...
8 Q. I have the actual paper.
9 A. It goes through the list of various topics and then
10 I came to controversies. I was just trying to point out
11 to the audience that this is being talked about and be
12 careful whenever you're using this type of fluid, you
13 may encounter such a problem.
14 Q. We can pull up your paper now. It starts at witness
15 statement 283/3, page 5. That's the substantive part of
16 it. You actually deal with five main issues, the first
17 three are here:
18 "Fasting guidelines, preoperative medication, and
19 parental presence at induction."
20 When one looks at the papers that you're citing,
21 they're all fairly recent.
22 A. Yes. That's because the topic was recent advances.
23 Q. So you're trying to alert people who may not otherwise
24 have an opportunity to look at the published material
25 themselves, the new things coming out?

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1 to have seizures?
2 A. Being a consultant also working in paediatric intensive
3 care, yes, I know it is used for seizures.
4 Q. And in 1998, was it being used in that way in the
5 Children's Hospital?
6 A. I can't remember. It's not -- I know ... I think the
7 correct answer would be I can't remember.
8 Q. Thank you. So then if we go to page 7 of this paper,
9 you deal with fluid therapy under (d), which is in
10 a section called "Controversies".
11 A. Yes.
12 Q. I'm going to ask you a little bit about what you were
13 dealing with under fluid therapy. Why did you include
14 fluid therapy in a section called "Controversies"?
15 A. Because the things I'm talking about there is like
16 withdrawal of consent for surgery whereby a child, all
17 of a sudden, refuses to go to surgery, so what
18 am I going to do about that? Anaesthesia for a child
19 with upper respiratory tract infection, there are times
20 when, you know, people may not necessarily agree with
21 what is happening or what to do. Coming to fluid
22 therapy, there are times -- I mean, you might decide --
23 depending on the length of the procedure, you may decide
24 to either give or not give fluids for that particular
25 child, so it's not something that people tend to do all

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1 A. That's correct.
2 Q. And just while we pause there because there is an issue
3 for the inquiry in another case in relation to
4 midazolam. You refer to midazolam under that
5 "preoperative medication". You're referring to
6 midazolam there for use as a sedative.
7 A. Yes, and an anxiolytic agent.
8 Q. If we then go --
9 THE CHAIRMAN: I'm sorry, I couldn't make out your last
10 answer.
11 A. To reduce anxiety in children.
12 THE CHAIRMAN: Thank you very much.
13 MS ANYADIKE-DANES: Reducing anxiety. So not just as an
14 anaesthetic?
15 A. No, it's -- there are times when you go and see a child
16 and you find they're apprehensive and don't want to go
17 to theatre. So you might prescribe some midazolam to
18 calm them down.
19 Q. How familiar were you with midazolam and its
20 administration in 1998?
21 A. Quite familiar with it because, I mean, I prescribed it
22 to children if I felt they needed it.
23 Q. Apart from its use as an anaesthetic agent, its use to
24 calm children down who may be anxious, were you aware of
25 it having a use with children who were thought perhaps

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1 the time. The first reason I'm giving there, giving
2 where we are giving 20 ml per kilogram of fluid as
3 a bolus, not everybody does that.
4 Q. Let me pull up the second page then you'll have all the
5 points that you were seeking to cover in that paper at
6 one glance. Can we pull up page 8 next to this?
7 Can you identify what in these three main points that
8 you were seeking to cover under "Fluid therapy" you
9 thought could be considered controversial?
10 A. All of them. In the first one I've mentioned, the
11 second one, using 0.18 per cent saline in 4 per cent
12 dextrose, the reason why I put it there is because it
13 was a new thing and it was being discussed in the
14 literature that children could have post-op
15 hyponatraemic encephalopathy. Then if you go to the
16 third one, not every anaesthetist agrees in using human
17 albumin as a solution for resuscitation.
18 Q. Yes. Well, if we stay with the second one for the
19 moment, which is the paediatric anaesthesia, that's
20 referring to a paper by Allen Arieff, Professor Arieff.
21 We can pull up the first page of that paper,
22 070-023h-235. This is the first page of it. Perhaps
23 we can pull up the second page, 236, next to it. How
24 had you become aware of this paper?
25 A. Scanning the journals.

24

1 Q. Just your own normal research?
2 A. Yes.
3 Q. And what about this struck you as something that was
4 worthy of communicating to other anaesthetists?
5 A. I beg your pardon?
6 Q. Why did you identify this as something that you ought to
7 be communicating to other anaesthetists?
8 A. I think it can be very upsetting when you do a procedure
9 and something, you know, untoward happens. You use
10 a solution which you think is safe, but ends up in
11 disaster like what has been reported.
12 Q. What did you understand was being communicated by this
13 paper? Actually, I'm trying to find out what it is you
14 would have been communicating to the audience.
15 A. I would have been telling the audience be careful when
16 you use a solution that is low, that has a sodium
17 content of less than 130, or in fact less than 154
18 because -- less than 130 because Hartmann's is 130 --
19 because you may end up having problems.
20 Q. When you're telling them to be careful, what are you
21 really saying? Are you saying it's probably not a good
22 idea to use it at all in the immediate post-operative
23 phase? What exactly would be the message?
24 A. That is the message I'm trying to convey. As I say,
25 in the immediate post-operative period because of the

25

1 give it added weight in the journal?
2 A. Yes.
3 THE CHAIRMAN: And can you expand on that for me? Is the
4 journal monthly or quarterly?
5 A. Yes, it's a monthly journal, Paediatric Anaesthesia.
6 Obviously, the editorial board would have decided that
7 this gentleman appears to have maybe done a bit of work
8 on this particular topic, let's give him the opportunity
9 to give his information. That's why maybe Arieff wrote
10 this paper.
11 THE CHAIRMAN: Then would that month's journal also include
12 other papers?
13 A. Yes, there would be other papers, yes.
14 THE CHAIRMAN: So the fact that it appears under the heading
15 "Editorial", means that it is particularly significant?
16 A. Yes, and it's the first one you encounter.
17 THE CHAIRMAN: Thank you.
18 MS ANYADIKE-DANES: Just to follow on from that, it's
19 a monthly journal and given that it's headed up
20 "Paediatric Anaesthesia", how common was it, as
21 a journal, to be available to anaesthetists in
22 hospitals?
23 A. It -- most of us subscribe to it, so I used to get it
24 every month. I didn't expect every anaesthetist to
25 subscribe to it, but if there was a library, maybe the

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1 stress of surgery, we know that there are other stress
2 hormones in place that are in place, you're retaining
3 water and then you are giving somebody a solution that
4 contains less sodium, so you might end up having
5 problems with post-operative hyponatraemia.
6 Q. Would you be giving any guidance as to how long you
7 thought that phase was likely to last? Because that
8 might be important to people's fluid management regimes.
9 A. I'm not sure I would have given guidance at that time,
10 but what we would tend to do normally, whenever we're
11 prescribing fluids, is we try and use a salt-based
12 solution in the post-op period.
13 Q. In presenting this paper to them, am I understanding
14 that what you're really doing is explaining, insofar as
15 Professor Arieff has set it out here, the mechanism by
16 which this becomes a potential risk to children so that
17 it's not just that you'd be telling them it's not a very
18 good idea, but trying to explain so that they would
19 understand why it's not a very good idea?
20 A. I would have probably done that since that's what the
21 paper -- it's an editorial, that's what it is saying,
22 some of the reasons why we shouldn't be using it.
23 Q. Yes.
24 THE CHAIRMAN: I'm sorry, just to help me with this, doctor,
25 the fact that this paper's headed "Editorial", does that

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1 library would have held a copy.
2 Q. Would you expect the library in the Children's Hospital
3 for example to subscribe to Paediatric Anaesthesia?
4 A. Yes.
5 Q. And would you have thought that a library in
6 Altnagelvin, which is a teaching hospital, to have
7 subscribed to it?
8 A. Yes.
9 THE CHAIRMAN: And did they?
10 A. I don't know. I can't remember.
11 MS ANYADIKE-DANES: Is it a common journal for consultant
12 paediatric anaesthetists to subscribe personally to?
13 A. Yes. At that time what used to happen is, if you were
14 a member of the Association of Paediatric Anaesthetists,
15 you used to get the journal.
16 Q. Were you aware of any earlier papers that
17 Professor Arieff had written on this topic?
18 A. I know there's a paper which was published in the
19 British Medical Journal in 1992.
20 Q. Yes. In fact, just so that you see it, it's cited in
21 this paper. If we go to 238. If you look at
22 footnote 6:
23 "Arieff, Ayus and Fraser. Hyponatraemia and death
24 or permanent brain damage in healthy children, British
25 Medical Journal, 1992."

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1 A. Yes.
2 Q. The statement that I had shown you originally, which was
3 one that was produced after Adam had died, that refers
4 to that very paper. In fact, that's part of what
5 prompted the action that they describe in the first
6 paragraph. That wasn't just about the risks of
7 hyponatraemia for the post operative child, that was
8 hyponatraemia and death, as it says, or permanent brain
9 damage in healthy children, not necessarily in the
10 post-operative phase. Were you aware of that at the
11 time?
12 A. In 1998?
13 Q. 1998 when you were writing that paper.
14 A. Yes.
15 Q. Were you aware of it?
16 A. I was aware of it. In fact, I used this paper in some
17 of my lectures.
18 Q. The 1992 paper?
19 A. The 1992 paper.
20 Q. When you say "some of your lectures", do you mean some
21 of your lectures in Belfast or do you mean some of your
22 lectures where you were asked to give papers?
23 A. In Belfast.
24 Q. Can I ask where you gave those lectures?
25 A. During the induction period, induction of trainees in

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1 Q. Do you know who that colleague was?
2 A. Dr Paul Loan.
3 Q. Does that mean that you regarded this issue of
4 hyponatraemia and its risks to children as
5 a particularly important one? Is that why you were
6 giving that as part of the lectures to trainees?
7 A. Yes.
8 Q. If you were doing that in 1997, was there any indication
9 at all that hyponatraemia and its risks to children is
10 something that the Children's Hospital had had any kind
11 of experience of?
12 A. I didn't give the lecture in 1997.
13 Q. Sorry?
14 A. I did not -- I mean, you alluded to me giving a lecture.
15 I think I started giving induction lectures not
16 necessarily in 1997. It could have been maybe 2000 or
17 thereabouts.
18 Q. I see. In 2000 or thereabouts?
19 A. Mm-hm.
20 Q. When you were giving it, I presume that's something that
21 you discuss amongst your colleagues?
22 A. That I'm giving a lecture?
23 Q. Well, just topics.
24 A. Yes, I mean, I would say, "I'm giving an induction
25 lecture, it's on IV fluids".

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1 paediatrics.
2 Q. So there would be a series of lectures, courses for
3 trainees to attend, and you and others could give papers
4 during that and this topic was one that you gave to
5 trainees?
6 A. Yes. Usually, trainees change every six months, so
7 twice a year I would give a paper and I would refer to
8 this paper.
9 Q. Can you remember when you started doing that?
10 A. I'm not sure exactly, but ...
11 Q. I'm just looking from your CV. This has particular
12 relevance to paediatricians. You didn't actually start
13 work in the Children's Hospital until 1997; is that
14 correct?
15 A. 1997, yes.
16 Q. So do you think it's something that you're unlikely to
17 have given an induction on before 1997?
18 A. Unlikely.
19 Q. So more or less from when you came in as a consultant,
20 this issue would have been part of what you would have
21 given talks to the trainees about?
22 A. Correct because I know there was a colleague of mine who
23 used to give a lecture and there was once when I got
24 some PowerPoint presentation and this reference was
25 there. That came from him.

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1 Q. Yes. What I'm trying to get from you is if a series of
2 lectures is being provided to trainees, presumably
3 they're going to make sure they have a broad range of
4 important topics. I was assuming there would be some
5 sort of discussion amongst those who are going to give
6 the lectures and they will say, "Well, I'll do one on
7 IV fluids", for example; is that how it might work?
8 A. Um ... You see, the way ... Let me explain the
9 teaching of our trainees, the form of teaching. We have
10 morning seminars held twice a week and there are
11 a series of topics. Usually, the trainees are the ones
12 who prepare the topics, but us consultants will sit in
13 to listen to the talk and then chip in, but those are
14 anaesthetic trainees. I'm not sure what happens with
15 the other trainees.
16 Q. Let's just focus on the anaesthetic ones. Those are the
17 ones you'd be giving an induction talk to.
18 A. No, the induction ones are for the paediatricians in
19 training who are coming to the Children's Hospital --
20 Q. I see.
21 A. -- which happened twice a year.
22 Q. What I was really asking you is: when you decided that
23 this was a topic worthy of giving as an induction talk
24 to trainees, did you have any discussion with your
25 colleagues about the talk on hyponatraemia?

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1 A. I think the answer is yes, because if somebody says,
2 "Listen, can you give a series of talks and this is the
3 topic which you will give", so there would have been
4 some discussion.
5 Q. And in that discussion, are you saying that nobody
6 communicated to you that the Children's Hospital had
7 actually had some adverse incidents involving
8 hyponatraemia?
9 A. Not that I can recollect.
10 Q. Thank you. Can I then move on to the issue of
11 Solution No. 18 in relation to the use of it in the
12 Children's Hospital? You'll be aware that Dr Nesbitt
13 says that, after a child called Raychel had died at
14 Altnagelvin, he was alerted to the fact that the
15 Children's Hospital had changed its practice in relation
16 to the use of Solution No. 18. I pull up this document
17 to orientate you. It's 026-005-006. This is
18 Dr Nesbitt. In 2001, he was clinical director. Do you
19 remember him from when you were at Altnagelvin?
20 A. I do.
21 Q. So he's writing to Dr Fulton, who at that time was the
22 medical director. The child called Raychel has very,
23 very recently died and he says:
24 "I contacted several hospitals, including the
25 Children's Hospital, and made enquiries about

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1 A. Obviously, we would have taken steps to try and prevent
2 that from happening.
3 Q. What might that have involved?
4 A. I'm speculating now, but it would have meant stopping
5 using the thing that is causing the problem, which in
6 this case might have been No. 18 Solution.
7 Q. So if there had been several deaths involving that, then
8 stopping using it is a possible response?
9 A. It's a possible response.
10 Q. But in any event, you weren't aware that there were
11 several deaths?
12 A. No.
13 Q. Were you aware that there had been any adverse incidents
14 at all, even if they hadn't led to actual deaths,
15 involving Solution No. 18 at that time?
16 A. Nothing comes to mind that this has happened because of
17 Solution No. 18. I mean, it's only later that I learned
18 about the Adam Strain case or the ...
19 Q. Sorry?
20 A. It's only later on. In fact I didn't even know about
21 Adam Strain until much, much later, whenever the inquiry
22 started.
23 Q. It's a very clear statement he has made to his medical
24 director and in fact part of the reason he's making
25 it is because he's advocating a change at Altnagelvin as

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1 perioperative fluid management. The Children's Hospital
2 anaesthetists have recently changed their practice and
3 have moved away from No. 18 Solution (fifth-normal
4 saline in 4 per cent dextrose) to Hartmann's solution.
5 This change occurred six months ago and followed several
6 deaths involving No. 18 solution."
7 Firstly, were you aware, in or around 2001, that,
8 there had been several deaths at the Children's Hospital
9 involving No. 18 Solution?
10 A. No.
11 THE CHAIRMAN: Do you think that's right? Do you think that
12 there were several deaths involving No. 18 Solution
13 in the Children's Hospital?
14 A. If there were -- I would have known had there been
15 several deaths.
16 MS ANYADIKE-DANES: That's what I was about to ask you.
17 You're a consultant there in the Children's Hospital
18 from 1997. If there had been several deaths involving
19 Solution No. 18, is that something that you would expect
20 to have known about?
21 A. I would have known about it. Somebody would have said
22 this is happening.
23 Q. And what would have been the response if there had been
24 several deaths involving No. 18 Solution at the
25 Children's Hospital?

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1 well. So on foot of it he is proposing that Altnagelvin
2 change its practice.
3 A. I know I was asked in the inquiry because he mentioned
4 my name, that he had spoken to me. This is the first
5 time that I'm seeing this letter. I wasn't even
6 provided anything in -- any evidence, nor did I look
7 after Raychel, so I don't know where he got that
8 information from.
9 Q. He then made it again in a statement he had made to the
10 police, the PSNI. That's a statement that he made
11 in March 2006, so much later on. One sees the reference
12 to you at 095-010-040. If you look down, he's reciting
13 again what he did, and we see that starting a few lines
14 down from the top. So Raychel has died and he says:
15 "I believe I made telephone calls on 13 June and
16 spoke to [his] anaesthetic colleagues."
17 He doesn't list all the hospitals he contacted, but
18 he told them what had happened roughly. Then he comes
19 down to where he says:
20 "I spoke to Dr Chisakuta, a consultant in paediatric
21 anaesthesia and intensive care at the
22 Children's Hospital about their use of Solution No. 18
23 in post-operative surgical children and he informed me
24 that they had been using precisely the same regime as
25 Altnagelvin Hospital, but had changed from

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1 Solution No. 18 six months previously because of
2 concerns about the possibility of low sodium levels."
3 If you pause there for the minute, that kind of
4 concern was the subject matter of your talk
5 in September 1998; is that right?
6 A. Correct.
7 Q. Yes. So the concern that you had been discussing on
8 foot of Arieff's paper is actually what he's saying here
9 had led to a change -- not then, but more recently --
10 in the Children's Hospital's use of Solution No. 18?
11 A. Yes, but I don't recollect this conversation.
12 Q. Yes. You have said you haven't recollected it, but
13 could it nonetheless be the case? So even if you don't
14 recollect it, could it be so?
15 A. I don't follow the question.
16 Q. Well, you can't remember it --
17 A. I can't remember the conversation.
18 Q. -- but Dr Nesbitt seems to remember it. He put it in
19 a letter within a day or so of Raychel having died and
20 he has recited it -- not your name in the letter, but
21 the practice -- and he has then recited it, but with
22 your name now in a statement he made to the police, so
23 he clearly has remembered it. Could that be so?
24 A. I mean, I don't want to doubt his integrity if he says
25 that's happened, that could be so, but I don't remember

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1 requiring clinicians to cease prescribing No. 18
2 Solution to post-operative children."
3 If we stop with that. Leaving aside whether there
4 was anything formal by way of protocol or directive,
5 could there have been a practice whereby paediatricians
6 just stopped prescribing it?
7 A. Paediatricians?
8 Q. Sorry, I beg your pardon, paediatric anaesthetists.
9 Could there have been a practice?
10 A. Yes. I mean, from what I recollect, when I was in
11 training, we used to use a 0.18 per cent saline in
12 4 per cent dextrose. When I was a consultant, when
13 I came back, I think most of us had stopped using
14 0.18 per cent solution.
15 Q. When you say "most of us", do you mean most of the
16 paediatric anaesthetists at the Children's Hospital
17 weren't using Solution No. 18 by the time you came there
18 as a consultant?
19 A. Correct.
20 Q. Yes.
21 THE CHAIRMAN: Sorry, was that because of something you
22 learned at Great Ormond Street or was that because of
23 the literature such as Professor Arieff's article?
24 A. Yes, Mr Chairman, you are correct because of what
25 I learned in Great Ormond Street and the fact that

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1 the conversation.
2 Q. Well, if it could be so, if that is something that he
3 could have been told, then what sort of thing could have
4 been happening round about the beginning of the year,
5 which would take it to about six months, when he's
6 talking about contacting the hospital in June 2001, so
7 what sort of thing might have happened, say, at the
8 beginning of 2001 or the end of 2000?
9 A. What do you mean? What sort of things? I don't follow
10 the question.
11 Q. Are you aware of anything that happened round about that
12 time frame, the end of 2000 or the beginning of 2001,
13 that could have led to that kind of information being
14 given to Dr Nesbitt?
15 A. Not that I can remember.
16 Q. Well, when you're asked about the practice from your
17 point of view, and you say it in your witness statement
18 at 283/1 at page 7, you say right down at the bottom,
19 the answer to question 8 -- in fact, if we could bring
20 up page 8 as well. But we'll start with the beginning
21 of your answer. The question is:
22 "Did the Children's Hospital cease the practice of
23 prescribing No. 18 Solution to post-operative children?"
24 You say:
25 "I do not recall a formal protocol or directive

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1 in the literature we were reading more and more about
2 the dangers of 0.18 per cent.
3 THE CHAIRMAN: I know there's an argument that
4 Solution No. 18 is an appropriate fluid in some certain
5 situations, but on a more general level had they stopped
6 using Solution No. 18 in Great Ormond Street or had they
7 cut back significantly on using Solution No. 18?
8 A. I don't think they had stopped using it. I did see them
9 using it. I can't quantify as to how much they had
10 reduced it, its usage. I know it was -- it used to be
11 used.
12 THE CHAIRMAN: By the time you were a consultant, which is
13 about a year after you left Great Ormond Street, by that
14 time you were not using Solution No. 18?
15 A. As an anaesthetist, it's not the solution that I would
16 have prescribed in the post-op period.
17 THE CHAIRMAN: Sorry, I thought you suggested a moment ago
18 that that was partly as a result of what you had learned
19 in Great Ormond Street.
20 A. Yes, I mean, wherever it comes from, you gather
21 knowledge.
22 THE CHAIRMAN: Yes. Sorry, maybe I didn't make myself
23 clear, doctor. Was your knowledge being gathered both
24 from reading the literature and from what was happening
25 in Great Ormond Street or only from the literature?

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1 A. I think from both.
2 THE CHAIRMAN: From both. So in Great Ormond Street can
3 I take it then that there was a debate or a change in
4 trend about the extent to which Solution No. 18 would be
5 used?
6 A. I would say yes. I mean, there's a discussion among the
7 anaesthetists there.
8 THE CHAIRMAN: So over a period of time, Solution No. 18 was
9 being used less in Great Ormond Street and was being
10 warned against in the literature?
11 A. Yes. The reason why I'm hesitating is I can't quantify
12 just how less they were using it, but I know it used to
13 be used, but whether it was getting less and less,
14 I can't quantify that.
15 THE CHAIRMAN: Thank you.
16 MS ANYADIKE-DANES: But in any event, when you came to the
17 Children's Hospital, you weren't using it as
18 a post-operative fluid?
19 A. No.
20 Q. And you wouldn't use it during the operation itself,
21 that isn't a fluid you would use in particular?
22 A. No.
23 Q. And if you had to prescribe a fluid to a child
24 preoperatively because you might have, if you visited
25 the child, been a little bit concerned about their

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1 common, what, so far as you can recall, when you got
2 back to the Children's Hospital in 1997, was the use of
3 Solution No. 18? So I'm not just confining it now to
4 the prescribing patterns of paediatric anaesthetists but
5 generally what was your impression about the incidence
6 of its use?
7 A. In the wards it was used quite a bit.
8 Q. In the Children's Hospital?
9 A. By the paediatricians, yes.
10 Q. In the same way as the chairman had put to you that
11 there was some discussion in Great Ormond Street amongst
12 the anaesthetists and that might have led to
13 a decreasing use of it, were you aware of that happening
14 amongst the paediatricians in the Children's Hospital?
15 A. Um ... I find it difficult to comment on that since
16 it's not something that I had looked at.
17 Q. Well, you'd be aware if you prescribed Hartmann's for
18 a child, the child gets back to the ward in the
19 Children's Hospital and those fluids are changed to
20 Solution No. 18.
21 A. I'd be aware, yes.
22 Q. Yes, that's why I'm asking you. So far as you can help
23 us with it, what's the incidence of the use of
24 Solution No. 18 on the ward by the time you got back in
25 1997?

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1 hydration levels, I take it that's not a fluid you would
2 be prescribing in the preoperative phase?
3 A. It would depend on ... It would depend on what the
4 child was suffering from before they went to theatre.
5 Q. I understand. It's probably too general a statement,
6 sorry.
7 A. Yes, but offhand it's not the solution that I would have
8 picked up and started prescribing and giving.
9 Q. So when you came back and it's not really a solution
10 that you would be prescribing, was that something shared
11 by the other consultant paediatric anaesthetists, or
12 were you alone in that view?
13 A. I think ... It's difficult to say. I mean, I believe,
14 I wouldn't have just been the only one not using it,
15 but ... We're all responsible, I suppose, for our own
16 practices.
17 Q. Yes.
18 A. I tended not to use it as much as maybe some of my
19 colleagues did.
20 Q. Would you have considered it to be in common usage
21 amongst the paediatric anaesthetists by the time you got
22 back?
23 A. No.
24 Q. If that's the position amongst the anaesthetists, some
25 might use it but you wouldn't by any means say it was

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1 A. It was being used.
2 Q. Yes.
3 A. I can't sort of quantify, I can't say.
4 Q. I understand.
5 A. But it was being used, yes.
6 Q. Did you become aware of that usage lessening?
7 A. I'm not sure how to answer that. I don't know.
8 Q. Then if we go to page 8, you say that Solution No. 18 --
9 firstly, you say:
10 "I don't recall the discussion that Dr Nesbitt
11 refers to or the scenario that he describes.
12 Solution No. 18 was available, ie physically present, on
13 the wards in the Children's Hospital until around 2008."
14 Then you go on to say, to pick up a point the
15 chairman made:
16 "It is still available for specialised use in PICU
17 and the renal unit."
18 So does that mean, if I understand you correctly,
19 that you, from your perspective, didn't really see any
20 change in the use of Solution No. 18 more generally up
21 until about 2008?
22 A. Correct.
23 Q. And do you know what prompted that change in 2008?
24 A. We had, as I have answered there, the National Patient
25 Safety Agency alert/warning and then the circular from

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1 the Department of Health. I think those are the two
2 things that prompted it being withdrawn from the wards.
3 Q. Were you aware in 2002 that the Chief Medical Officer in
4 Northern Ireland had issued guidelines in relation to
5 hyponatraemia?
6 A. Yes, I was aware.
7 Q. And that happened in -- I think it was, March 2002.
8 A. Mm.
9 Q. Did that have any impact at all on the use of
10 Solution No. 18?
11 A. It might have had, but I'm not sure, again, how much.
12 I can't quantify what impact it had.
13 Q. When those guidelines were issued, do you recollect
14 whether there was any discussion amongst your consultant
15 colleagues as to whether that was likely to have any
16 impact on prescribing practices of Solution No. 18?
17 A. I don't recollect that.
18 Q. Well, do you recall if there were any meetings amongst
19 your consultant colleagues as to how to respond to those
20 guidelines?
21 A. I did not attend any such meeting.
22 Q. Well, were there any, so far as you're aware?
23 A. I'm not sure.
24 THE CHAIRMAN: How did you implement them, the 2002
25 guidelines from the department? How did you use them in

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1 Ms Anyadike-Danes.
2 MS ANYADIKE-DANES: Yes. The inquiry sought from the Trust
3 the figures for the use of Solution No. 18 in a period
4 from January 2000 to July 2001, trying to capture the
5 six-month period that Dr Nesbitt had talked about. If
6 I pull up firstly an explanation for the figures, that's
7 in 319-087c-001. Alongside of that, could you please
8 pull up 319-087a-001?
9 A. Is this a letter?
10 Q. Yes, it is. So we had sought the information and the
11 first response came back on 17 May, saying:
12 "I am instructed by the Trust that there were no
13 orders placed with the pharmacy by the Children's
14 Hospital in respect of Solution No. 18 [in that period
15 that I just mentioned to you]. Therefore it appears
16 that No. 18 Solution was not used in the Children's
17 Hospital during the period January 2000 and July 2001."
18 They have since retracted that and you can see that
19 from the letter on the left-hand side. But were you
20 asked about the use of Solution No. 18 in that period
21 for the purposes of responding to the inquiry?
22 A. Not that I recall.
23 Q. Sorry?
24 A. Not that I recall.
25 Q. Well, it would have happened very recently. The first

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1 your practice?
2 A. It didn't affect me that much since I didn't use
3 0.18 per cent saline in 4 per cent dextrose.
4 THE CHAIRMAN: What strikes me as being difficult to
5 understand from my perspective is if, through Great
6 Ormond Street and the literature, there's a growing
7 awareness that there are risks involved in using
8 Solution No. 18 post-operatively and you pick that up
9 from your training in Great Ormond Street and you pick
10 it up from your reading and you lecture to the Western
11 Anaesthesia Group about it, is there no discussion
12 within the Children's Hospital about this?
13 A. Mr Chairman, there would have been discussion, but it
14 just -- I wasn't aware of it. There would have been a
15 discussion, I'm sure there -- not "I'm sure"; there
16 probably was, but it's not that I was aware of.
17 THE CHAIRMAN: If there was some discussion then that should
18 have led, it seems to me, to either a reduction in its
19 use or anaesthetists being more careful with its use, or
20 perhaps a combination of both.
21 A. Yes. As I explained, Mr Chairman, most anaesthetists
22 wouldn't have used 0.18 per cent saline. I think the
23 question -- in the wards, its use was reduced. Again,
24 I can't say. Possibly.
25 THE CHAIRMAN: Then let's move on to the figures,

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1 letter is dated 17 May 2013. Did anybody ask you to
2 comment on the use of Solution No. 18 in the Children's
3 Hospital over the period January 2000 to July 2001?
4 A. No one asked me.
5 Q. Nobody asked you?
6 A. No.
7 Q. And in fact, if we go back to your CV, we don't
8 literally have to go back, I'm going to refer you back
9 to it, you were lead clinician of PICU from January 2000
10 to December 2002, so over this period you were the lead
11 clinician in PICU.
12 A. I was.
13 Q. If we then go to the letter on the left hand side, the
14 retraction letter, they say it's incorrect because of
15 the way they interrogated the system, if I can sum it up
16 in that way. So what they now say is that the pharmacy
17 department supplied a total of 6,493 bags of
18 Solution No. 18 in that period, 1 January 2000 to
19 31 July 2001, and a chart is enclosed. If we go to that
20 chart, which is at 319-087c-003.
21 When I was asking you about the use of
22 Solution No. 18, you caveated it, but your main view
23 seems to have been that whatever the paediatric
24 anaesthetists were doing, the impression you had was
25 that there really wasn't very much change in the use of

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1 Solution No. 18 until the response to Alert No. 22 in
2 about 2008; is that right?
3 A. Yes, that's correct.
4 Q. If you look at this chart here -- and it is just
5 a snapshot, we accept that -- but it starts off at, as
6 you can see, 359 bags in January 2000. And it stays in
7 or thereabouts, in the 300s/400s, until you get
8 to February 2001 when it drops more significantly than
9 it has done, down to 242. There's a rise in March, then
10 there's a fall again in April, a little bit of a rise
11 in May, and then quite a dramatic fall in June, until,
12 by July 2001, there's only six bags actually being
13 ordered for the whole of the Children's Hospital --
14 A. Mm-hm.
15 Q. -- from the pharmacy. Can you explain that, what was
16 happening?
17 A. Obviously, they've reduced their usage of 0.18 per cent
18 saline in 4 per cent dextrose in the wards.
19 Q. Yes. When I had put to you Dr Nesbitt's police
20 statement and you had said, "Well, if there had been
21 incidents of that sort, a reduction in the use would
22 have been a reasonable response", you don't know whether
23 there was or not, but that's the sort of thing that the
24 Children's Hospital might do. When you look now at this
25 pattern of usage, does that not perhaps seem to suggest

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1 ordering patterns were of the pharmacy, but a fall-off
2 in use from 137 to 6 within the space of May 2001
3 to July 2001 might be the kind of use that could be
4 marked.
5 A. Yes.
6 Q. Yes.
7 THE CHAIRMAN: Sorry, the fall-off is far more significant
8 than that because, all through 2000, the monthly
9 ordering forms are in the 300s/400s and sometimes over
10 500. They're still high in January 2001 and, with the
11 exception of March, they plummet, so there's effectively
12 no Solution No. 18 being ordered for the Royal in June
13 and July 2001. What we're asking you, doctor, is to
14 help the inquiry by understanding what brought that
15 about.
16 Dr Nesbitt gave two versions of it. His letter
17 at the time said that he was told by you that there were
18 several deaths. His statement to the police said that
19 this wasn't because of deaths, but it spoke about
20 concerns about Solution No. 18.
21 Unless there is some other explanation which will
22 come from the Royal about this virtual wipeout of
23 Solution No. 18 in the Royal, I'm left to infer that for
24 some reason, even if there was no formal directive
25 issued or there was no new protocol issued, that the use

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1 to you that Dr Nesbitt might have been told that there
2 was a reduction in the use at the Children's Hospital?
3 A. Looking at this, it's possible, yes, you could infer
4 that. But I think we were referring to what
5 anaesthetists did and what the wards did, and I think
6 I was talking about what anaesthetists did. Obviously,
7 looking at this, it seems also in the inpatient areas
8 they had also reduced the usage of No. 18 per cent
9 solution.
10 Q. Yes. Although in fairness to Dr Nesbitt, he actually
11 wasn't asking something as specific as what paediatric
12 anaesthetists were doing; what he was relaying was that
13 he was being told that the Children's Hospital itself
14 had reduced its use of Solution No. 18. And that's why,
15 when you told me about the position in relation to
16 anaesthetists, I asked you about the Children's
17 Hospital, the position on the ward.
18 A. Unless somebody has sort of this type of information or
19 you have maybe been in contact with the pharmacy
20 department, I can't imagine anybody commenting about
21 what's happening in the wards. I surely wouldn't have
22 commented about this because this is the first time I am
23 even seeing this reduction in the usage of No. 18
24 Solution.
25 Q. You may not have been able to comment on what the

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1 of Solution No. 18 in the Royal virtually came to a halt
2 in the spring of 2001. And what I would like to know is
3 whether you can help the inquiry by explaining why that
4 happened.
5 A. I don't know why that happened.
6 THE CHAIRMAN: Thank you.
7 MS ANYADIKE-DANES: One final question and then I will move
8 on from that.
9 If you had had a call from a colleague -- you say
10 you knew Dr Nesbitt from when you were at Altnagelvin --
11 and he particularly wanted to know what the pattern of
12 use of fluids was in the post-operative period or even
13 on the ward for children, apart from telling him about
14 what you did, how would you go about finding an answer
15 for him?
16 A. I'd probably speak to the pharmacy. Like in the PICU,
17 there is a pharmacy person attached to the PICU, they
18 would be the people I would ask, or maybe speak to the
19 sister in charge of the ward because they're the people
20 who order the fluids.
21 Q. So when you said you wouldn't know, but if a colleague
22 has asked you, there are ways in which you could try and
23 help provide that kind of information --
24 A. Yes.
25 Q. -- which would involve going to the very source of this

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1 information?
2 A. Yes.
3 MS ANYADIKE-DANES: Thank you. I'm going to move on now to
4 talk about the morning of 13 April when Lucy was
5 transferred to the Children's Hospital. Mr Chairman,
6 I'm conscious of the time.
7 THE CHAIRMAN: Yes. We have to take a break for the
8 stenographer, doctor, so we'll come back at 11.45.
9 Thank you.
10 (11.34 am)
11 (A short break)
12 (11.45 am)
13 MS ANYADIKE-DANES: Dr Chisakuta, I want to ask you a little
14 bit about the consultants who would have been in charge
15 on April 13th, when Lucy was admitted to PICU, and also
16 the 14th, which is the day on which she died.
17 Lucy's admission sheet has the consultant on it as
18 Dr Crean. I can just show it to you, 061-013-037. So
19 she's admitted and the consultant who is allocated to
20 her is Dr Crean. What did you understand, in 2000, was
21 the implications of Dr Crean being allocated to her as
22 her consultant?
23 A. I suppose --
24 Q. I should have said, sorry, in terms of the management of
25 her care.

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1 there will be a different consultant looking after that
2 particular patient.
3 Q. Yes. That's actually particularly why I'm asking you
4 that. Who retains overall responsibility for the child?
5 A. The way I think we worked it in the Children's Hospital,
6 it's the person to whom the child would be discharged
7 to. So it would be either a surgeon or a paediatrician,
8 not necessarily the intensivist.
9 Q. But all the time the child is in PICU, is it the
10 intensivist who has overall responsibility for the
11 management of the child's care, even if he or she brings
12 in specialists for certain aspects of that care? Does
13 the person named, like Dr Crean here, have overall
14 responsibility for the child's care?
15 A. Um ... In practice, I don't think so because, for
16 instance, if, say, this patient came in on the day when
17 Dr Crean was working and I'm working on a day like
18 a Friday, it's not as if he's going to say,
19 "Dr Chisakuta, I do not agree with the line of
20 management you're using, I'm the lead consultant, I want
21 you to change to this", I don't think it would go to
22 that extent. So I'm not sure ...
23 Q. Let me just help you. Firstly maybe you can help us
24 with this point: Dr Crean, in a witness statement in
25 another child, Claire, said -- the reference for it is

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1 A. He would have been the one -- say, for instance, if Lucy
2 had stayed in the ICU as a long-term patient, the named
3 consultant is the one who follows up, whom we delegate
4 to talk to the parents, so not all of us are speaking to
5 the parents all the time. That would be the
6 significance of him being there.
7 In actual fact, there should also be the name of
8 either paediatrician or, if it's a surgical patient, the
9 name of a surgeon in conjunction with the intensivist.
10 Whenever a patient leaves the ICU, they have to be
11 looked after by either a paediatrician or surgeon.
12 That's why usually two people should be -- that's how we
13 operated. Usually two people should be in charge of a
14 particular patient in the PICU.
15 Q. Being a consultant in terms of your professional
16 obligations before the GMC and so forth, that has
17 a certain significance if you are a patient's
18 consultant.
19 A. Mm-hm.
20 Q. And if you are named as the patient's consultant then
21 is that a significance that carries on until that is
22 changed so far as you're aware?
23 A. I presume so. But looking at the way our ICU, our
24 paediatric intensive care, works you have five
25 consultants who work in the PICU each week, so each day

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1 witness statement 168/2, page 12 -- that in 1996 and for
2 several years afterwards his name appeared on all
3 hospital admission slips for children admitted directly
4 to PICU at the Children's Hospital for administrative
5 reasons, and irrespective of whether he had any direct
6 involvement in their care; do you remember that?
7 A. Probably that would have been the case, yes.
8 Q. And is that what happened when you were lead in PICU,
9 which was January 2000 to December 2002?
10 A. Yes. I mean, people are stuck in their way they work.
11 Sometimes they used to put his name as --
12 Q. Sorry, let me just be clear about this, okay? In fact,
13 let's put it up, it's witness statement 168/2, page 12.
14 You can see it in the answer to question 55:
15 "In 1996, and for several years subsequently, my
16 name appeared on all hospital admission slips, the
17 yellow flimsy, when a child was admitted directly to
18 PICU. My name also appeared on all hospital discharge
19 summaries from PICU. This occurred irrespective of
20 whether I had any direct involvement in a child's care."
21 Okay? So that's the position that he was relating
22 to the inquiry when effectively he was lead clinician.
23 The point that I'm putting to you is you were lead
24 clinician in PICU from January 2000 to December 2002;
25 is that what happened for children admitted directly

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1 into PICU, did they all come in with your name?
2 A. I can't recollect whether all of them came under my
3 name.
4 Q. Well, do you recognise the practice that Dr Crean has
5 described in his witness statement?
6 A. I do, yes.
7 Q. Well, given that you were the lead clinician at the time
8 when Lucy was admitted, can you help us with why
9 Dr Crean is allocated to Lucy as her consultant?
10 A. I think just because Dr Crean was working on the
11 Thursday, so maybe that's why his name appeared in that,
12 because my belief would have been that since -- when
13 Lucy was being transferred from the Erne Hospital to the
14 paediatric intensive care hospital, the consultant they
15 had spoken to had been Dr McKaigue, it would have been
16 Dr McKaigue's name that should have been appearing
17 there.
18 Q. Yes. Well, it seems that the practice that Dr Crean has
19 described there isn't something that applied whilst you
20 were lead clinician, otherwise she would have had your
21 name. Because what Dr Crean is really saying is,
22 irrespective of whether he was on duty or not on duty,
23 that child would be admitted under his name.
24 A. Yes.
25 Q. That's what he's described there. So it would seem

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1 could change day by day depending on who the consultant
2 was in PICU at the time?
3 A. Unfortunately, that's the problem with the way we worked
4 where we changed every day, yes.
5 Q. And how would that change be registered? How would
6 anybody know, without going back and looking at rosters,
7 that although it says that the child is under Dr Crean
8 as the consultant, in fact the child wasn't on any other
9 particular day because some other consultant was on duty
10 then? How would anybody know that?
11 A. All of us have fixed days on which we work in the PICU,
12 so people tend to know on a particular day and so on.
13 That's how people would know.
14 Q. But there's no formal transfer of responsibility from
15 one to the other?
16 A. Whenever you are leaving the PICU -- suppose you finish
17 your day at 18 hours and you are handing over to the
18 night person, you would formally hand over. And then
19 also that person was working the night the following
20 morning would also formally hand over.
21 Q. I didn't mean a handover in terms of appraising somebody
22 of what has happened with a child during the time you're
23 on duty; I meant a formal handover of responsibility.
24 Maybe if I pull something up from another consultant in
25 Claire's case you can see the point that I'm making.

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1 that, given that you were the lead clinician in PICU
2 at the time that Lucy came in and she hasn't got your
3 name on her admission sheet, that wasn't a practice that
4 was in operation when you were lead?
5 A. Probably not, but again, just to repeat myself, the
6 reason why Dr Crean's name is appearing is because he
7 took over from 8.30 working in the PICU on the 13th.
8 Maybe that is why his name is appearing on the flimsy.
9 Q. And then I think you were saying, when I was asking you
10 earlier, that given that the consultants changed each
11 day, I think you were saying that your view was that the
12 management would fall to whoever happened to be the
13 consultant on duty that day irrespective of the named
14 consultant on the child's admission form; is that
15 correct?
16 A. Correct.
17 Q. The management might, but what about the responsibility
18 for the child's care?
19 A. I would take the view each consultant working on that
20 particular day also has the responsibility for the
21 child's care.
22 Q. For whatever that consultant does, yes, but for the
23 overall management of the child's care who should come
24 in as a specialist, who should perhaps speak to the
25 parents, overall are you saying that that responsibility

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1 There was an issue in Claire's case as to whether
2 the responsibility for her care had moved from the
3 paediatrician to the paediatric neurologist. The child
4 had come in under the name of the paediatrician and, for
5 various reasons, that paediatrician had not seen the
6 child, but a neurologist had and there was an issue as
7 to whether that neurologist had now taken over the
8 responsibility for the child's care.
9 What the paediatrician said in her evidence to the
10 inquiry -- we don't need to pull it up, but for
11 reference purposes it is the transcript of 15 October
12 2012, page 94. She says:
13 "Until it's formally taken over and there is
14 a formal transfer, Dr Webb [who was the paediatric
15 neurologist] and I discuss it, I remain the named
16 consultant."
17 Then the inquiry's expert in hospital management and
18 governance, Dr MacPaul, said in the same case, but in
19 his expert report at 238-002-106 at paragraph 441:
20 "A consultant takes responsibility for all patients
21 admitted under their care either by planned or acute
22 admission and then responsibility for continuing care of
23 patients admitted on their day on call and for ongoing
24 care during that admission and the subsequent
25 follow-up."

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1 So what Dr MacFaul was describing was if a child
2 comes under your name, you have responsibility for that
3 child -- and he goes on elsewhere in his report to
4 detail it -- until there is a formal transfer, which he
5 thought ought to be recorded in writing.
6 A. Yes. That might apply to, say, the paediatrician in the
7 ward or to the surgeon in the ward. In the PICU it
8 works slightly differently.
9 Q. So in PICU the way it works is whoever is on duty at the
10 time has responsibility for the child's care?
11 A. Yes.
12 Q. Thank you. You also, I think, did say that you thought
13 there should be two names. There should be the
14 intensivist and the name of either a paediatrician or
15 a surgeon, which is going to be, assuming the child
16 survives, the ward where the child will be transferred
17 to.
18 A. Correct.
19 Q. And when does that happen? At what stage do you get
20 assigned to consultants?
21 A. On the day of admission, just when the child is getting
22 admitted. For instance, if I am working in the PICU on
23 that day, my name will be appearing, and then the name
24 of -- depending on the patient's condition, if it's
25 a medical condition, the name of the paediatrician on

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1 from day-to-day?
2 A. As I've explained, especially if we have a patient who
3 is in the ICU for a -- for long-stay patients, the named
4 consultant is the one who is delegated to do most of the
5 communicating with the parents. Otherwise it causes
6 a lot of confusion as everybody's coming to talk to the
7 parents. For communication purposes, we like to have
8 one individual, but then when that patient leaves the
9 intensive care unit, he or she has to be looked after by
10 a paediatrician or a surgeon. That's the significance
11 of having the second named consultant.
12 Q. As it happened, Lucy was only in PICU for the 13th up
13 until the 14th. She died on the 14th.
14 A. Yes.
15 Q. Do you still say in those circumstances she would have
16 had two named consultants in your view?
17 A. In my view, yes.
18 Q. And given what actually happened to her, she, I think --
19 the general consensus is she arrived in a moribund
20 state, you examined her on the 14th, so you know the
21 state she was in when you examined her, and that's how
22 she remained for the two days. What then would you say
23 was the responsibility of those two named consultants in
24 your understanding of how the system would have worked?
25 What would they have been responsible for?

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1 call will happen. So there will be two names appearing.
2 THE CHAIRMAN: Does that happening even if it's already
3 clear that the child has really no prospect of
4 surviving?
5 A. Yes.
6 MS ANYADIKE-DANES: So for Lucy, who would those two names
7 have been, from your experience and how the system
8 worked?
9 A. I am not sure as to who the paediatrician was on call
10 that particular day, but the first name would have been
11 Dr McKaigue. I don't know who the paediatrician would
12 have been on call. I don't know if it was Dr Hanrahan
13 who was the one on call that particular day and that's
14 why his name was appearing.
15 Q. So your understanding of it is it shouldn't have been
16 Dr Crean on the admission sheet, it should have been
17 Dr McKaigue --
18 A. Dr McKaigue.
19 Q. -- with, if Dr Hanrahan was the paediatrician, his name?
20 A. Yes.
21 Q. And those two names would have stayed on the admission
22 sheets and, even though there was movement back and
23 forwards -- what's the significance of those two names
24 if the intensivist's responsibilities, or at least the
25 person with those responsibilities, is going to change

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1 A. I mean, the first name obviously, if he was working on
2 that particular day, would have been looking after the
3 physiological, the resuscitation of that particular
4 patient. The second name, like in this case
5 Dr Hanrahan, was doing his expertise, his neurological
6 expertise, trying to make a diagnosis and what not. And
7 usually, like in this case, sadly Lucy passed away, you
8 know. He would have -- in this case, he was the one who
9 phoned the coroner, but at the same time, had I been
10 free, I might have said, if I wasn't doing any work,
11 I might have maybe phoned the coroner myself. We sort
12 of divide responsibilities as to what one can do or
13 cannot do.
14 Q. When you portray it in that way, it sounds like there's
15 quite a bit of discussion between the two consultants in
16 their joint management, if I can put it that way, of the
17 child's care?
18 A. There is discussion, yes.
19 Q. That's necessary, isn't it, to make sure that the child
20 is being cared for appropriately?
21 A. Yes.
22 Q. And does that mean when things have to be done like, for
23 example, a decision when the child has died as to
24 whether the coroner is going to be informed and, if so,
25 what the cause of death is that's going to be explained

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1 to the coroner, if a death certificate has to be issued,
2 what's the cause of death to be inserted there, if
3 there's going to be a referral to a pathologist, what
4 should be being described to the pathologist on the
5 autopsy referral form, those sorts of times when
6 decisions have to be made, is that the sort of thing you
7 would expect the two consultants to be discussing?
8 A. I mean, take for instance in this case myself on the
9 Friday. I was working in the intensive care unit with
10 Dr Hanrahan. We did the brainstem test. He told me
11 he was going to call the coroner. I said, "Fine".
12 I didn't ask him, "What are you going to tell him?",
13 because I expected him to narrate the story of the
14 child's, you know, illness, why she was in the PICU, you
15 know.
16 Q. Had you had sufficient discussions with him so that you,
17 from your point of view, would be pretty clear what he
18 would be telling the coroner?
19 A. We are both consultants; I can't imagine I'd be telling
20 him, "You go and tell the coroner this".
21 Q. No, no, no, no, that wasn't the question I put to you.
22 I said: had you had sufficient discussions with him on
23 Lucy's condition so that you would be pretty clear what
24 you would expect him to be telling the coroner?
25 A. No.

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1 Q. So the unexpectedness is one reason. If you're trying
2 to explain to the coroner what you thought the cause of
3 her death was --
4 A. I don't know. That's why I'm reporting to you,
5 Mr Coroner, to try and help me find out the cause of
6 this child's death.
7 THE CHAIRMAN: Did you have a clue what the cause of her
8 death was?
9 A. Oh, yes, we had a clue what the cause of her death was:
10 the fact that she coned.
11 THE CHAIRMAN: Right. Why did she cone?
12 A. She had developed cerebral oedema.
13 THE CHAIRMAN: Why did she have a cerebral oedema?
14 A. It could have been a combination of things and we were
15 trying to find out, but that's why there was a bit of
16 differential diagnosis, but one thing that she had was
17 that she had had lots of fluids in the other hospital.
18 MS ANYADIKE-DANES: So you would have at least had that as
19 a possibility?
20 A. Correct.
21 Q. Just before you answered the chairman, you were saying
22 we didn't know why she had died. If you didn't know,
23 is that not something that would prompt you even more to
24 have a discussion amongst your colleagues? To see if,
25 if you pool your experiences and your knowledge, maybe

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1 Q. You hadn't had sufficient discussions with him?
2 A. The thing is, we -- I knew what had happened and
3 expected him to know what happened, so the discussion --
4 I didn't tell him "You go and tell the coroner this".
5 We didn't have that discussion.
6 Q. The what did you think had happened?
7 A. What do you mean, "What did I think happened"?
8 Q. Well, exactly that. What did you think had happened,
9 which if you were in the position of telling
10 the coroner, you'd be telling the coroner?
11 A. I would be narrating exactly what had happened, that
12 Lucy had been in one hospital where she was given -- or
13 appeared to have been given -- had this particular
14 illness, received IV fluids, seemed to have had
15 a seizure, they noticed that her pupils were fixed and
16 dilated, she came to the hospital, the electrolytes
17 dropped from whatever they were, 137 to 127. I would
18 have narrated the story to the coroner.
19 Q. And what in all of that would have made that a case that
20 should be referred to the coroner?
21 A. The reason why the case should have been referred to
22 the coroner is because of the unexpectedness of what
23 happened to Lucy. Nobody would have expected somebody
24 coming into the hospital the way she was to end up
25 in the state in which she ended.

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1 you can get a better refinement as to what the likely
2 cause could have been.
3 A. If you have a discussion with -- the child has died, you
4 have done your best endeavours, you have had
5 a discussion. I'm not going to put words in my
6 colleague's mind to say, "You go and tell the coroner
7 this". But at the same time I expected him to narrate
8 exactly what had happened.
9 Q. No, that wasn't quite what I was asking you. I'm not
10 asking you to say whether you would have told
11 Dr Hanrahan, "Go and tell the coroner this". It turns
12 out that although you had some thought that fluids might
13 be implicated in the development of her fatal cerebral
14 oedema, you weren't entirely sure because there were
15 other things that could have given rise to that; that's
16 why you had differential diagnoses. Dr Hanrahan said he
17 didn't exactly know either why she had died. Is that
18 not the very circumstance in which colleagues, before
19 they start talking to the coroner, who won't have at
20 that stage a clue about what happened to the child --
21 is that not the very circumstance when colleagues
22 discuss with each other to see if they can get a better
23 idea of what has happened to the child?
24 A. Correct.
25 Q. Yes. And when you were having those discussions, who

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1 would you have been discussing with?
2 A. The two of us, myself and Dr Hanrahan, because we were
3 the consultants in the unit at that particular time.
4 Q. Well, would it have occurred to you to, for example,
5 discuss with Dr Crean -- Dr Crean was there when he came
6 in, fairly shortly after he came in, and he had the
7 initial examination of her and management of her during
8 the 13th. Would it have occurred to you, let's bring
9 him in? He's an experienced consultant paediatric
10 anaesthetist.
11 A. Dr Crean may not have been available at that particular
12 time.
13 Q. Whether he was or not, would you have wanted to discuss
14 with someone like him to try and see if you can get
15 a better idea as to what has happened to Lucy?
16 A. You could do that if you -- I suppose if you're not
17 sure.
18 Q. Well, you weren't sure.
19 A. If ... It's not something that ... Unless you're
20 really in the dark, that's when you would probably call
21 Dr Crean, "Can you come and help us out here?" In this
22 case I don't think Lucy's case was such a case that you
23 needed Dr Crean to come and tell you to figure out what
24 had happened.
25 Q. What had you figured out?

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1 A. It was.
2 THE CHAIRMAN: Thank you.
3 MS ANYADIKE-DANES: So if you are talking about the
4 possibility that too much fluid has been given or too
5 much of the wrong sort has been given, let's be clear,
6 you're talking about an iatrogenic event?
7 A. Yes.
8 Q. So far as you can recall, from your discussions with
9 Dr Hanrahan, do you think he shared that view?
10 A. I do not recall us having had a conversation where
11 I shared that view, no.
12 Q. You didn't share with him that you were concerned that
13 there might have been, let's call it human intervention,
14 as part of the reason why Lucy had deteriorated in that
15 way?
16 A. No.
17 Q. Did you not think that would be appropriate to do?
18 A. Dr Hanrahan had been looking after Lucy anyway a day
19 before me, so he had a view and when I came in on the
20 Friday, I had a view, you know. He should have, in my
21 view, known that fact.
22 Q. Yes, maybe he should have done, but you'd reached the
23 view, so did you not think it appropriate to share the
24 view that you had reached with him?
25 A. I don't ... I can't recollect us having had such

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1 A. I had stated that before.
2 THE CHAIRMAN: And you said that the clue you had was that
3 she had died because of coning, and that was due to
4 cerebral oedema, and that was due to lots of fluid in
5 the other hospital.
6 A. Yes.
7 THE CHAIRMAN: Do I take it from that that you were
8 conscious of the possibility that a possible or probable
9 cause of Lucy's death was the volume of fluid that she
10 had been given in the Erne?
11 A. Yes.
12 THE CHAIRMAN: And that's why in your eyes it was entirely
13 appropriate for Dr Hanrahan to contact the coroner?
14 A. Yes.
15 THE CHAIRMAN: Does it follow from that, doctor, that not
16 only was it an unexpected death, but there was in your
17 mind a concern about the standard of the treatment which
18 she had received in the Erne?
19 A. You could say that.
20 THE CHAIRMAN: Well, I'm asking you that.
21 A. Yes.
22 THE CHAIRMAN: Do you agree?
23 A. Yes.
24 THE CHAIRMAN: And that was apparent to you on Friday the
25 14th?

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1 a conversation, no.
2 Q. What would have been your response if Dr Hanrahan didn't
3 feel it necessary to report to the coroner?
4 A. I would have strongly advised him to.
5 Q. Advised him or would you have done it?
6 A. I would have done it.
7 Q. You would have done it?
8 A. Yes.
9 Q. So you're happy that the appropriate step is being
10 taken, the coroner is to be informed, but you're not
11 entirely clear what the coroner is going to be informed
12 and you are trusting or assuming that Dr Hanrahan has
13 come to the same conclusion as you have?
14 A. Yes.
15 THE CHAIRMAN: Sorry, doctor, can I clarify this? When you
16 formed the view that Lucy's death was due to
17 a questionable standard of treatment in the Erne, you
18 did that on the basis of what you read from the notes
19 which were available on the Friday?
20 A. And what had been handed over to me.
21 THE CHAIRMAN: When you say "what had been handed over to
22 you", do you mean in terms of what you had discussed
23 with any other doctor?
24 A. Yes.
25 THE CHAIRMAN: And with what other doctor had you discussed

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1 what brought about Lucy's condition?
2 A. I was handed over -- I mean, the person who had been
3 looking after Lucy on the Thursday was Dr Crean, so
4 I would have had a chat with Dr Crean.
5 THE CHAIRMAN: Do I take it from that that Dr Crean, from
6 what you gathered from him, he had a similar concern
7 about what had happened in the Erne Hospital?
8 A. I think he had similar concerns.
9 THE CHAIRMAN: So you and Dr Crean share a concern that
10 Lucy's death is coming about because of the way in which
11 she has been treated in the Erne Hospital, right?
12 A. Yes.
13 THE CHAIRMAN: And Dr Hanrahan is going to contact
14 the coroner?
15 A. Yes.
16 THE CHAIRMAN: If you don't speak to Dr Hanrahan about this,
17 how do you know that Dr Hanrahan is going to tell
18 the coroner or his agent that there is a concern in the
19 Royal about the standard of treatment which Lucy
20 received in the Erne?
21 A. We have had -- I have had communication with
22 Dr Hanrahan.
23 THE CHAIRMAN: Did he, at that time, share the view that
24 there was a concern about the standard of treatment
25 which Lucy received in the Erne?

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1 A. Yes.
2 THE CHAIRMAN: So it wasn't this child has died, it's
3 a complete mystery how she's died. Your thinking was
4 this child has died, that is unexpected, but over and
5 above that I'm worried about the standard of treatment
6 which she got in the Erne?
7 A. Yes, it's not a complete mystery, but at the same time
8 we're not sure of -- because of the differential
9 diagnosis we are not sure of exactly what the other
10 problems would have been.
11 THE CHAIRMAN: And that's what -- if you had been reporting
12 Lucy's death to the coroner, is that what you would have
13 been reporting?
14 A. I would have -- my views is I would have narrated
15 everything that was in the notes, including the fact
16 that Lucy had received a lot of fluid. In fact, Lucy,
17 you know ... Even though we don't know what the actual
18 diagnosis is, this differentials, but this had happened,
19 I would narrate everything that's in the notes.
20 THE CHAIRMAN: Thank you.
21 MS ANYADIKE-DANES: Just to finish off that point about the
22 opportunities for you to discuss matters with
23 Dr Hanrahan, both you and Dr Hanrahan conduct the
24 diagnosis of brain death and you're the second named
25 doctor on that brainstem death form.

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1 A. I would have presumed so, but he did not -- I mean, he
2 did not share a view that this didn't happen.
3 THE CHAIRMAN: Sorry, when you say you spoke to Dr Hanrahan
4 at the time, does that mean that you told him that,
5 however you phrased it, that it was your view and
6 Dr Crean's view that something had gone wrong in the
7 Erne or that she didn't receive good enough treatment in
8 the Erne?
9 A. I'm not sure I'd have put it exactly like that, but yes.
10 THE CHAIRMAN: But there was an issue to be investigated
11 about what happened in the Erne?
12 A. I had worked in the PICU and I know from past
13 experiences that if you're not sure about a death,
14 you have to call the coroner, and that's what we've done
15 in the past.
16 THE CHAIRMAN: You go to the coroner because it's an
17 unexpected death. This is a girl who's 17-months old,
18 who on the face of things should not have died.
19 A. No.
20 THE CHAIRMAN: And that's the reason why you report her
21 death to the coroner.
22 A. Yes.
23 THE CHAIRMAN: But over and above that, in Lucy's case, you
24 and Dr Crean had a concern about the standard of
25 treatment which she had received in the Erne.

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1 A. Correct.
2 Q. Can we pull that up? 061-019-070. There we are.
3 You're familiar with this type of form?
4 A. Yes.
5 Q. You have to go through, as it indicates, a number of
6 tests so that the two of you can be satisfied that there
7 is brainstem death, so you have to eliminate a number of
8 things to make sure that her presentation isn't caused
9 by underlying factors which could actually be addressed
10 if treated.
11 A. Correct.
12 Q. So that's part of the task you have to go through. And
13 if you look under the first of those, which is headed up
14 "drugs and hypothermia". So you're looking to make sure
15 there are no muscle relaxants and that accounts for her
16 physical presence and so on. Then one of the things you
17 are to look at under (f) is:
18 "Could the patient's condition be due to
19 a metabolic/endocrine disorder?"
20 And you have to be able to say no. It is usually
21 under that that there is an attempt made to get the
22 electrolytes, for example, within the normal bound, if
23 we're talking about serum sodium, of 135 to 145, to make
24 sure that there's nothing underlying there that could be
25 accounting for the presentation. That's correct, isn't

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1 it?
2 A. That's correct.
3 Q. If you're there and going through that exercise, you
4 would, of course, have been acknowledging the fact that
5 Lucy's electrolytes had been deranged before she was
6 admitted to PICU.
7 A. Yes, before she came to PICU, but not when we are doing
8 the test.
9 Q. No, that's not where I'm going with this.
10 Before she came, yes, and they had started off with
11 a normal tariff of 137 and they had fallen over a period
12 of time to 127. So if you are discussing Lucy and going
13 through these things to be able to tick what you have to
14 tick, does that not provide you with an opportunity to
15 discuss the fact that you were just describing to the
16 chairman then about a concern over her fluids because
17 you knew her serum sodium levels had been deranged?
18 Doesn't that give you a good opportunity to discuss her
19 previous care?
20 A. Yes, but whenever you're doing the tests you are looking
21 at the electrolytes at that particular time.
22 Q. Yes, you had brought her up -- not necessarily you
23 personally, but her care in PICU had brought her
24 electrolytes within normal bounds. But that gives you,
25 I suggest to you, an opportunity to discuss her

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1 to which the two of you would have this -- one or other
2 of two is going to have to do this and the extent to
3 which the two of you would have discussed what to tell
4 the coroner in a way to sort of succinctly present the
5 concerns that you have that are giving rise to that
6 report. I'm suggesting this would be an opportunity
7 when you could have been doing that.
8 A. Yes, but at the same time, like I've said, when you are
9 doing the tests, you are looking at the results there,
10 which are within normal range. That's why you're doing
11 the tests in this particular time.
12 Q. When you have done it and she's failed the test, there's
13 a discussion --
14 A. Yes.
15 Q. -- that's going to have to be held with the parents.
16 A. Yes.
17 Q. The two of you are on duty at that time in PICU. You're
18 the consultant paediatric anaesthetist, he's the
19 intensivist. Is there any discussion between you as to
20 what you're going to tell the parents?
21 A. No. I mean, the thing is, what we're going to tell the
22 parents, the child has failed the test, so you're going
23 to tell the parents, "I'm sorry, your child's tests
24 we're doing are negative".
25 Q. But an inevitable question is likely to be, "Why? Why

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1 condition. And given at that stage you would have known
2 from Dr Hanrahan's entry in the notes that he is
3 thinking:
4 "If Lucy succumbs, she is a coroner's case."
5 And we don't need to pull up -- I can give you the
6 reference, 061-018-066 -- what he writes in her notes,
7 which was there on the 13th, and therefore available for
8 you to see on the 14th:
9 "If she succumbs, a post-mortem will be desirable.
10 Coroner will have to be informed."
11 That's what he records. So you'd have known that
12 going into the brainstem test that he already has in
13 mind that, if and when Lucy dies, which he believes is
14 inevitable, that the coroner is going to have to be
15 contacted.
16 A. I would have known.
17 Q. Exactly. So standing there, and that is where this is
18 going because she's going to fail these tests in your
19 view, I presume, so the next step then is a decision as
20 to when life will be pronounced extinct, when the
21 ventilators will be switched off and so forth, after her
22 parents have been spoken to, and the next step is to
23 contact the coroner?
24 A. Correct.
25 Q. That's why I'm pressing you a little bit on the extent

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1 has our child died?", and if you've already got as
2 a possibility the care in relation to fluid management
3 that she received at the Erne, isn't that something that
4 you would naturally be discussing with Dr Hanrahan as
5 part of gathering your thoughts together for what we
6 should tell these parents or what these parents should
7 be told?
8 A. I would be telling the parents exactly what I think
9 would have been wrong, what might have happened. Like
10 I said before.
11 Q. Including the possibility that her fluid management
12 at the Erne may not have been to the appropriate
13 standard?
14 A. Correct.
15 Q. And in fact, may have been responsible for the
16 development of her cerebral oedema?
17 A. Correct.
18 Q. And that's the same thing that you say, had you been the
19 one to report it to the coroner, that's what you would
20 have been telling the coroner?
21 A. That's what I would have been telling the coroner.
22 Q. Can I ask you this: at this stage, I should have said,
23 by April 2000, had you had to report cases to
24 the coroner?
25 A. I'm not sure, but I would imagine probably I did, yes.

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1 Q. Do you think you had done that from your position in the
2 Children's Hospital?
3 A. Yes, as a consultant working in the PICU, I have spoken
4 to the coroner several times, yes.
5 Q. When you have to make a report to the coroner, what in
6 your view are you providing the coroner with in terms of
7 information?
8 A. I'm trying to narrate to him the story of this patient's
9 clinical condition that led to the death.
10 Q. How much detail do you provide the coroner with and how
11 do you do it?
12 A. I would try and give him as much detail as I can.
13 Q. Is it something that's done solely by telephone or do
14 you do that and follow up with anything in writing? How
15 does it work?
16 A. Telephone.
17 Q. Telephone?
18 A. Telephone.
19 Q. And when you say "as much detail", does that mean you're
20 likely to have had the notes with you and going through
21 the notes?
22 A. Yes, I have notes by my side.
23 Q. Would you consider that important to have the notes by
24 you if you're making a report like that to the coroner?
25 A. It's very important, yes.

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1 that?
2 A. I mean, if it was written, yes.
3 Q. Yes, well, it is written. Would that have been
4 relevant --
5 A. Yes.
6 Q. -- to you? And what would that have signified to you?
7 A. A child -- there is a little bit of delayed perfusion,
8 so some element of shock.
9 Q. Would it have told you anything about the child's
10 hydration levels?
11 A. The child would be probably dehydrated.
12 Q. Would you have been able, just from that note there, to
13 have had any view about how dehydrated you would have
14 assessed her to be?
15 A. I would want a bit more information. I know the
16 capillary refill is delayed, is there anything else?
17 What's the skin texture like? Is the tongue moist and
18 all those things? It depends on who the observer is and
19 where they actually did the test.
20 Q. Yes. You say you would have wanted a bit more
21 information to be able to assess the significance of
22 that.
23 A. Yes.
24 Q. But you would have seen it as a relevant entry?
25 A. Yes.

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1 Q. And what, from Lucy's notes, gave rise to that concern
2 that you've just described to the chairman? What
3 exactly in her notes?
4 A. I think by that time we had had some faxed medical notes
5 from the Erne, which showed a little bit about the
6 amount of fluid that she had had.
7 Q. Do you remember seeing her notes?
8 A. I do remember seeing her notes.
9 Q. We have tried to summarise, in a schedule form, what was
10 in her notes. As soon as I find it I'm going to take
11 you to it and see if you can help us with -- just give
12 me one moment -- with what, from there, you understood
13 to be the problem. Can we pull up 325-006-001? This is
14 a schedule of the information from the notes that were
15 faxed over from the Erne.
16 The first piece of information there -- firstly,
17 do you have any recollection of what was in Lucy's notes
18 at all?
19 A. I wouldn't have recollected now, but if I look at the
20 notes I would have said, "Oh yeah".
21 Q. Okay. So some of this --
22 A. It's only when I refer to the notes, but independently
23 I wouldn't recollect what was in the notes.
24 Q. Then if we start with the capillary refill is greater
25 than two seconds on admission; do you remember noting

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1 Q. And then you see that, on admission, her sodium is 137
2 and that her IV line is inserted at 2300 hours. Then
3 you've got some further information from the clinical
4 notes. So the IV line is inserted at 2300 hours and
5 she's rigid from a seizure, one assumes, at
6 approximately 3 o'clock in the morning. As we're
7 running down there, can you be identifying for me any of
8 these things that you would have been picking up on and
9 would have been alerting you to the possibility that her
10 fluid management may have played a part in her
11 deterioration?
12 A. Looking at this, you can't say anything about the fluids
13 since you don't know the rate. There's nothing about
14 the rate of the fluids that she has been given, nor is
15 there the type of fluid that she's been given.
16 Q. Let's turn to the next page then, 002. Under the staff
17 nurse's notes, you see the IV fluids, "No. 18 Solution
18 at 22.30 at 100 ml an hour". So that's the type of
19 fluid and that's the rate, but all this is information
20 that was in the notes that were faxed over. You would
21 also have seen, if you just see above, that at some
22 stage that rate was changed so that she received, over
23 an hour, 500 ml of normal saline. In fact, if you run
24 down the nursing notes you can see the order in which it
25 happens. She starts off with 100 ml an hour of

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1 Solution No. 18, then she has a large vomit at just
2 slightly after midnight, IV fluids remaining at 100 ml
3 an hour. Then she has, at 2.30, a large bowel motion.
4 Then at 3 o'clock she has her seizure. Then, after
5 that, her IV fluids are changed, although it doesn't say
6 when, to normal saline, running freely. I presume you
7 could pick that up with what's above to see that she
8 actually had an hour's worth of that.

9 After that happens, the consultants are in
10 attendance and they do the repeat U&Es, which produces
11 the result of 127. So this is information gleaned from
12 the notes, the reference along the second column tells
13 you where in the notes one finds it. But what is it
14 that you were seeing in the information in the notes
15 that led you to think that there had been some element
16 of fluid mismanagement, if I can put it that way?
17 A. Why am I giving -- why are the fluids being given at
18 such a high rate for a child who is -- depending on what
19 the weight is.
20 Q. No, I am asking you it slightly differently, although I
21 understand the question that you have posed. You have
22 told the chairman that of the range of things that could
23 have contributed to her cerebral oedema you were
24 particularly concerned that it was the fluid regime that
25 she had been on at the Erne. What I was asking you

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1 THE CHAIRMAN: You said the volume.
2 MS ANYADIKE-DANES: What was the problem with the volume?
3 A. Her weight. I believe her weight was 9.4 kilograms. We
4 normally use a 4-2-1 formula for calculating fluid. If
5 you calculate that, I think she might have been given
6 more than she should have been receiving per hour.
7 Q. Are you likely to have performed that calculation when
8 you're trying to figure out what has happened?
9 A. As an anaesthetist it's second nature.
10 Q. So you would have done that?
11 A. Yes.
12 Q. When you read her notes, you'd have been trying to
13 calculate what you can infer about the fluids that she
14 received at the Erne?
15 A. Yes.
16 Q. A number of doctors, and for that matter the inquiry's
17 experts, have said that her notes aren't entirely clear.
18 A. No.
19 Q. If you sit down and scrutinise them, you can get the
20 information from them to at least get as far as it
21 wasn't an ideal fluid management regime and you formed
22 a rather critical view of it. Did it occur to you to
23 contact her consultant in the Erne to find out or get
24 a better understanding of what her regime had been and
25 why?

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1 is: what was it you saw in the notes to allow you to
2 have that concern?
3 A. She's been given a solution, inappropriate solution in
4 my view, for -- I don't know whether this is for
5 resuscitation or maintenance or what it is, but the
6 volume or rate is a little on the high side.
7 Q. Why did you consider it to be inappropriate?
8 A. You showed me the first slide where there was
9 a capillary refill of greater than 2 seconds, so one
10 would infer that probably this child might have been
11 shocked. If you were giving fluids to try and correct
12 that, you would be using 0.9 per cent saline to try and
13 control that problem. The 0.18 per cent, you'd probably
14 be using it for maintenance, not necessarily for
15 resuscitation.
16 Q. So from your point of view, the wrong fluid has been
17 used --
18 A. The wrong fluid has been used.
19 Q. -- if they're trying to address the question of the slow
20 capillary refill?
21 A. Correct.
22 Q. So that's one thing that you would have noticed and that
23 might have given rise to that concern, although I think
24 you said you weren't entirely sure what they were trying
25 to do. Was there anything else?

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1 A. When would I have done that? Because on the Thursday
2 I only put in the arterial line and central line, I
3 wasn't looking after Lucy on that particular day, I had
4 my own theatre list to go to. On Friday we were doing
5 brainstem testing.
6 Q. You were going to do the brainstem testing on Friday,
7 but nonetheless you'd formed a significant view in terms
8 of what had happened, or the possibility of what had
9 happened.
10 A. Just to add on, I know that Dr Crean had been speaking
11 to the consultant, I suppose.
12 Q. How did you know that?
13 A. He said so himself.
14 Q. No. How did you, at the time, know that Dr Crean had
15 been speaking to the consultant?
16 A. Well, at that time?
17 Q. Yes.
18 A. When I would have been handing over, he would have told
19 me.
20 Q. So when he would have handed over to you on the morning
21 of the 14th?
22 A. No. Probably the evening. I don't know whether
23 Dr Crean was working that night.
24 Q. Okay. So in any event, at the end of his shift, you're
25 saying he told you --

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1 A. I'm not saying categorically that he did; I'm saying he
2 probably would have mentioned what his worries were or
3 what his feelings were.
4 THE CHAIRMAN: How worried was Dr Crean about what had
5 happened in the Erne?
6 A. It's so many years ago, Mr Chairman, that it's difficult
7 to know, but I'm sure he was worried enough to phone the
8 doctor who had been looking after her to try and clarify
9 as to what Lucy had had or the type of fluid and the
10 rate at which it was given.
11 THE CHAIRMAN: And he was worried enough to express to you
12 his concern about the treatment which she had received
13 in the Erne?
14 A. Again, it's difficult for me to say. I'm thinking that
15 he probably did tell me because by the time -- I was ...
16 I was looking after Lucy, I was confident enough to know
17 I knew what had happened to Lucy and what the problems
18 were.
19 MS ANYADIKE-DANES: Are you conscious of him having told you
20 what the response was from Lucy's consultant at the
21 Erne?
22 A. Offhand I wouldn't know, but it's there in the notes.
23 Only by referring to the notes is how I can tell you
24 now. I can't remember at that time what he would have
25 said.

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1 A. I mean, you would appreciate it's so long ago that it's
2 very difficult to remember, but when you go back to the
3 notes, you know, I'd be very surprised that whoever had
4 looked -- I mean, especially Dr Crean who has looked
5 after Lucy on the 13th, that he wouldn't have expressed
6 some worry when he was handing over to me. I cannot
7 recollect the fact that he did that, but I'm just ...
8 I suppose it's an assumption I'm trying to make.
9 Q. I understand that and I can understand why you are
10 making that assumption, but there's not a single thing
11 in writing to indicate that.
12 A. No.
13 Q. And if that's the case, that senior -- and in the case
14 of Dr Crean a very senior -- consultant, has formed
15 a view that part of the reason for his patient's demise
16 is the care that she received in relation to her fluids
17 at the referring hospital, and you yourself have formed
18 a similar sort of view. I'm asking you why that isn't
19 recorded anywhere.
20 A. I don't know, because I think ... I think I made a note
21 the following day, but I do not think I recorded
22 anything to that effect.
23 Q. Well, do you not think that would be an appropriate
24 thing to record?
25 A. It would have.

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1 Q. Yes, but the notes that you'll be referring to to tell
2 you about that are not notes that Dr Crean wrote; it's
3 a note that Lucy's consultant at the Erne wrote after
4 the event. It's not Dr Crean's note.
5 A. Again it's just something I found out while I was
6 preparing for this.
7 Q. That is why I want to be a little bit careful.
8 Maybe help us with this: do you think at the time,
9 so either in the evening of the 13th or at some point on
10 the 14th, you were aware that Dr Crean had contacted the
11 Erne to try and get clarity on Lucy's fluid regime?
12 A. I cannot remember that he had done that, but referring
13 from looking at the notes, the fact that he had -- if he
14 said that he had spoken to that gentleman, he would have
15 relayed that information to me.
16 Q. I understand. Okay. So leaving aside that point, can
17 you recollect Dr Crean expressing to you his concern
18 about Lucy's treatment at the Erne?
19 A. That I cannot recollect.
20 Q. That you can recollect?
21 A. I cannot.
22 Q. You can't?
23 A. No.
24 Q. So can you recollect anybody expressing concern to you
25 about Lucy's treatment at the Erne?

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1 Q. It would have?
2 A. Yes.
3 Q. And do you think you should have recorded it?
4 A. I probably should have, yes. But I mean, I'm not sure
5 on the Friday when I've certifying somebody -- not
6 certifying somebody dead, I am doing brainstem testing
7 that ... It's doing something after an event has
8 already happened.
9 Q. Even doing something after the event has a value if it
10 means that people start to consider and investigate how
11 these things happen and therefore what might be done to
12 prevent them happening again. It at least has that
13 value.
14 A. True, but at the same time the reason why I'm referring
15 to the coroner is to try and see if they can help me
16 find out what the problem is here.
17 Q. You're not referring to the coroner, Dr Hanrahan is
18 referring to the coroner, and you've already said that
19 we weren't actually sure and you assumed the basis upon
20 which he would be discussing with the coroner.
21 A. I wasn't -- I haven't referred -- the thing is, we've
22 had a discussion. He's speaking to the coroner with
23 a view of trying to find out what the problem -- what
24 has happened to this child.
25 Q. At that stage on 14 April, you're the anaesthetist with

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1 the responsibility for Lucy's care. And she ends up
2 dying on your watch, if I can put it that way. So if
3 you've got a concern as to why she's died, I think
4 you have just conceded that it would have been
5 appropriate for you to have recorded that in her notes.
6 A. Probably.
7 Q. Yes. You've talked, just before we started this line of
8 questioning, about the parents being told; is it
9 a concern that in your view at that time is something
10 that should have been shared with the parents?
11 A. I remember speaking to the parents, but it's unfortunate
12 that we didn't write in the notes what was said.
13 Q. No. Is that the kind of concern that you think should
14 have been shared with the parents?
15 A. Yes.
16 THE CHAIRMAN: Can I take it, doctor, that you have no
17 recollection of Mr and Mrs Crawford being told that you
18 and any other doctor in the Royal had a concern about
19 the way in which Lucy had been treated in the Erne?
20 A. I don't remember that, no.
21 THE CHAIRMAN: Because that would have involved you in
22 telling the parents of a dead child that you and your
23 hospital think that there might be serious questions to
24 be raised about the treatment in another hospital.
25 A. I do remember vaguely -- I mean, again, it's very

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1 THE CHAIRMAN: If they don't ask you directly, does that --
2 A. Maybe that wasn't entirely -- I mean, when I go to speak
3 to parents after an event has happened, I will try and
4 explain to them what I think the problem has been or has
5 led to that particular thing. I'm not ... I probably
6 would have done that with Lucy, but I'm not sure we did
7 that.
8 THE CHAIRMAN: Let me put it this way -- and we have to be
9 very careful about crossing lines here because Mr and
10 Mrs Crawford are not part of the inquiry -- but we know
11 from the documents that they did make a complaint after
12 Lucy's death about the way in which Lucy had been
13 treated in the Erne. And they had assistance in making
14 that complaint from a man called Stanley Millar, who
15 worked for the Western Health Council. At no point in
16 their complaint did they suggest that they were informed
17 by anybody in the Royal that there was reason to believe
18 that Lucy's treatment in the Erne wasn't up to standard;
19 right?
20 A. Right.
21 THE CHAIRMAN: If they had been given that information, it's
22 inevitable that they would have included that in their
23 complaint against the Erne; isn't that right?
24 A. That's right.
25 THE CHAIRMAN: So if they don't include that information in

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1 difficult, but my practice would be, especially after we
2 had done the test or even before we do the tests,
3 I would speak to the parents and then, when we do the
4 tests, depending on the result, go and speak to the
5 parents again. But I'm not sure that at that time
6 I would have been elaborating as to why this had
7 happened. Maybe if they asked me a direct question as
8 to what I think would have happened, I would have gone
9 on to try and explain and say maybe it could have been
10 this or maybe it could have been that.
11 THE CHAIRMAN: So parents who don't know much about medicine
12 and who don't ask you the direct question, they will not
13 be given the information?
14 A. That isn't entirely ...
15 THE CHAIRMAN: How will the parents get the information? If
16 there is a view that was held by you that not only is
17 Lucy's death unexpected, but that there's a concern
18 about the treatment she has received in the Erne, how
19 are the parents told that information if they don't ask
20 for it directly?
21 A. I mean, the way I practise, my practice would be to try
22 and tell them.
23 THE CHAIRMAN: Sorry, doctor, you said a moment ago that if
24 they asked you directly, you would have told them.
25 A. Yes.

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1 their complaint against the Erne, it strongly suggests
2 that they were not told by anybody in the Royal that
3 anybody in the Royal had concerns about the Erne.
4 A. Maybe that might be the inference.
5 THE CHAIRMAN: Yes. And if that's right, do you agree that
6 that's just not good enough?
7 A. It isn't good enough.
8 THE CHAIRMAN: Thank you.
9 MS ANYADIKE-DANES: The result of the communication with
10 the coroner is that there's to be no inquest.
11 Dr Hanrahan told you that, didn't he?
12 A. He did.
13 Q. What was your response to that?
14 A. I was surprised.
15 Q. Did you ask him why?
16 A. I don't remember asking him why, but I was surprised
17 that such a case wasn't going to be a coroner's inquest
18 or a coroner's investigation.
19 Q. Well, if you were surprised, did you not seek to find
20 out the basis upon which the coroner's office had
21 decided that a case that you thought was a clear case to
22 be reported was not one that the coroner was going to
23 pursue?
24 A. I think because there had been a suggestion that we
25 should proceed with a consent post-mortem, I thought --

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1 to me, that's the next best thing, let's go for this.
2 Q. Before we get to the consent post-mortem, let's stick to
3 the fact that a case you thought was an entirely
4 appropriate one to report for the two reasons that the
5 chairman has just been discussing with you -- one, it
6 was an unexpected death, she died very quickly in a way
7 you wouldn't have supposed she would and, secondly,
8 because there is a concern about the fluid regime that
9 she was on. Two very good reasons to report that case
10 to the coroner. And as far as you were concerned, you
11 were in agreement with Dr Hanrahan, although you hadn't
12 actually discussed it, that those were the bases on
13 which it was appropriate to report it. He comes back
14 and tells you "I have reported it, but there's going to
15 be no inquest". I'm asking you, did you not want to
16 find out why not?
17 A. I don't remember whether I asked him or whether he told
18 me why, but I was surprised anyway that we didn't have
19 it.
20 Q. Would you not have wanted to know the reason?
21 A. I would have wanted to know the reason probably.
22 Q. Exactly. Not least for your own education because it
23 might say something about the circumstances in which you
24 were to refer deaths. So you would have wanted to know
25 the reason?

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1 a death certificate at that stage?
2 A. It's difficult, again, in that I would have been uneasy
3 trying to fill in a death certificate when I don't know
4 what to write on it.
5 Q. You would have been uneasy doing that?
6 A. Yes.
7 Q. And you know that if you are uneasy doing it and if you
8 can't do it, then you have to go back to the coroner.
9 A. It's only now -- I mean, the thing is the coroner's
10 refused me -- I mean, I have tried to speak to them and
11 said, "Let's do it", and they have said, "Go away".
12 I didn't know I could go back to him and say, "But, but,
13 but".
14 Q. So far as you can recollect and pull together, was the
15 rationale for your discussing with Dr Hanrahan the
16 possibilities of a hospital post-mortem so that you
17 could get sufficient clarity to have a death certificate
18 completed?
19 A. Correct.
20 Q. That was your understanding of it, that was the purpose
21 of it?
22 A. That is my understanding.
23 Q. Did you discuss at all then -- because the next step is,
24 if that's what you need and what you want, then there
25 will have to be an explanation to the parents because

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1 A. Yes.
2 Q. Do you think, therefore, it's likely that you asked him?
3 Even if you can't specifically remember any
4 conversation, do you think it's likely you asked him?
5 A. I probably did, but again, like I say, I can't remember.
6 Q. And then you said if you're not going to have an
7 inquest, an autopsy is the next best thing.
8 A. Correct.
9 Q. That's, I think, what you just said. When did you
10 discuss that you were going to have an autopsy?
11 A. I think, first of all, whenever I finished the
12 conversation, I think there had been a suggestion to him
13 that he should try and get a hospital post-mortem.
14 Q. Right. Did you discuss that with each other?
15 "The coroner is not going to hold an inquest into this
16 child's death", did you discuss, "then we really should
17 be seeing if we should persuade the parents to consent
18 to an autopsy"; did you discuss that?
19 A. I believe we did.
20 Q. If you discussed that, why were you discussing that?
21 A. Because we -- I mean, remember, with Dr Hanrahan
22 himself, he had differential diagnosis, we were trying
23 to -- we wanted to know exactly what is it that went
24 wrong, what was it that led to Lucy passing on.
25 Q. If it had been left to you, could you have filled in

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1 the parents will have to agree to that. You can't have
2 a hospital post-mortem just because you need one; the
3 parents have to give consent.
4 A. I don't remember having had a discussion, but probably
5 we must have had.
6 Q. But you knew that would be the next step?
7 A. Yes.
8 Q. And if they consented, then there would be an autopsy
9 request form?
10 A. Yes.
11 Q. And the autopsy request form would be providing certain
12 information to the pathologist to enable him or her to
13 make a start on investigations?
14 A. Correct.
15 Q. Have you ever completed one of those yourself while you
16 were at the Children's Hospital?
17 A. I leave it to my juniors to do it.
18 Q. Do you ever discuss with them how they complete it to
19 make sure the pathologist is best assisted?
20 A. I try and tell them to make it as detailed as possible.
21 Q. In fact, it fell to Dr Stewart to complete that, who was
22 a registrar at the time. Firstly, what would you expect
23 to accompany the autopsy request form? What should go
24 to the pathologist?
25 A. The patient's notes, X-rays, and whatever else would be

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1 required.
2 Q. Did you regard that as fairly standard?
3 A. Yes.
4 Q. Thank you. Then if I take you to this particular part
5 of the request form. It's a three-page form. The first
6 page has the clinical presentation and a history. Then
7 there's notes and then there's a third page, which I'm
8 going to pull up now, 061-022-075. This is where the
9 clinician has an opportunity to assist the pathologist
10 by identifying, for the pathologist, the problems, the
11 clinical problems, that have been noted. It says here
12 they're to be listed in order of importance, but in any
13 event we see these four things that Dr Stewart has
14 distilled.
15 Firstly, "vomiting and diarrhoea". Do you have
16 a view as to whether that's an appropriate insertion in
17 Lucy's autopsy request form?
18 A. That's fine.
19 Q. Would you have put that?
20 A. Yes.
21 Q. Then "dehydration".
22 A. Yes.
23 Q. Appropriate?
24 A. Yes.
25 Q. "Hyponatraemia"?

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1 Q. That that is actually reflecting the fluid management
2 concern that you had?
3 A. Yes, even though we haven't mentioned the type and
4 volume of fluid that has been used, but yes.
5 Q. Well, would you have expected that to be mentioned if
6 you were guiding your registrar?
7 A. Probably, but I suppose because of the limited space,
8 maybe that's why that wasn't inserted.
9 Q. In fairness to Dr Stewart, we should pull up the first
10 page, which is 061-022-073. Maybe just put it alongside
11 this one so as not to lose this entirely. This is her
12 narrative, if I can put it that way:
13 "Acute illness, vomiting, then diarrhoea for 24 to
14 34 hours."
15 That was her clinical presentation:
16 "Admitted to the Erne. Clinically dehydrated and
17 drowsy. Given IV fluids, No. 18 and normal saline."
18 She has her seizure at 3 am on the 13th:
19 "Unresponsive afterwards. Pupils fixed and
20 dilated."
21 Then she requires respiratory assistance. She's
22 transferred to PICU. She gets there at 7.45 in the
23 morning. No response. Negative brainstem tests on that
24 day, the 14th.
25 Then past medical history:

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1 A. Yes.
2 Q. "Seizure and unresponsiveness, leading to brainstem
3 death"?
4 A. It sounds reasonable to me.
5 Q. Sounds reasonable. What's the link between 3 and 4?
6 A. Hyponatraemia leading to seizure. Obviously, what has
7 happened in between there, there has been cerebral
8 oedema.
9 Q. Cerebral oedema. And how do you get to that from
10 dehydration?
11 A. You are trying to correct -- obviously you think this
12 child is dehydrated so you're trying to give this child
13 IV fluids, oral fluids or whatever to try and correct
14 the problem.
15 Q. Just to pose those problems in that order -- as what
16 you're suggesting is that it has been the attempt to
17 deal with the dehydration that has led to the
18 hyponatraemia?
19 A. Probably, yes.
20 Q. Well, I'm asking you.
21 A. Yes.
22 Q. If you translate that into the clinical facts of Lucy's
23 case, as you knew them on 14 April, is that how you
24 would have interpreted that?
25 A. Yes.

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1 "Nil of note. Healthy toddler. No medication."
2 And then there's the investigations. There's the
3 fall in serum sodium, 136 and she's got it to 126.
4 A CT scan, which is going to show coning, EEG:
5 "Clinical diagnosis: dehydration and hyponatraemia.
6 Cerebral oedema leading to acute coning and brainstem
7 death."
8 So the dehydration to hyponatraemia in between
9 there, are you saying what really should have been
10 inserted -- I don't mean should -- this is how one might
11 have interpreted that, inappropriate fluid management?
12 A. Yes, she's mentioned this at the top, the IV fluids.
13 The only thing she hasn't mentioned is the volume of
14 fluid that was given in the period of time that it was
15 given.
16 Q. So reflected in there is the concern that you have about
17 her fluid regime?
18 A. Correct.
19 Q. Were those lists of problems on the left-hand side
20 discussed with you?
21 A. I think my response has been I don't remember having had
22 a conversation, but then when I reviewed the notes and
23 everything, probably would have agreed with what was
24 written.
25 Q. Would you have wanted the fluid management problem to be

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1 more expressly stated in that list of problems?
2 A. Yes.
3 Q. Then there is the post-mortem results, there's
4 a post-mortem report. Do you recall ever seeing Lucy's
5 post-mortem report?
6 A. No. What normally tends to happen is, after the
7 post-mortem, the preliminary report or even the final
8 report is normally sent to the consultant. Like in this
9 case it would be Dr Hanrahan, so I never saw the report.
10 Q. Well, would you expect Dr Hanrahan, since you had cared
11 for Lucy and you had both performed the brainstem tests,
12 you had discussed, you both had a common view about
13 reporting to the coroner, and you both had a common view
14 about an autopsy to try and see if you could get clarity
15 on what had caused her death. When he actually gets the
16 report, would you have expected him to have told you
17 what the result of it was?
18 A. Yes, but I mean, he was busy or I was busy, but it
19 didn't happen.
20 Q. I appreciate you said it didn't happen. My question was
21 different: would you have expected it?
22 A. Yes.
23 Q. Did you want to know what had happened?
24 A. I think I'd have wanted to know, but I probably maybe
25 got busy doing other things, you know. I didn't follow

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1 years later, Stanley Millar.
2 A. I think it's very difficult for me to try and answer
3 that as exactly why things happened the way they
4 happened. I would have hoped things would have been
5 better.
6 THE CHAIRMAN: Thank you. Let's move on.
7 MS ANYADIKE-DANES: Yes. Well, the post-mortem report
8 doesn't actually clarify the position and it certainly
9 doesn't highlight the issue that was of concern to you.
10 It may be that without the assistance of the clinicians,
11 the pathologists actually can't address a fluid
12 management concern like that. When we were dealing with
13 Claire's case, which was also a hospital post-mortem,
14 the experts that we had there, Dr Squier, who's the
15 paediatric neuropathologist, and Professor Lucas said
16 what you'd expect to happen in those sorts of cases
17 is that there is discussion between the pathologist on
18 the one hand, who is able to describe what he or she
19 sees on examination, and the clinicians on the other
20 hand, who know how the child presented and what
21 treatment was provided, and there's a discussion, and as
22 a result of that discussion there is a view as to what
23 is actually the cause of the child's death because
24 that's the sort of thing that's prompting a hospital
25 post-mortem in the first place.

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1 up the case.
2 Q. This is a child who has died when you were the
3 consultant anaesthetist. You weren't entirely clear why
4 she had died, but you thought there might have been
5 something awry at the Erne. Did you not want to know?
6 A. Yes, but I mean, I would have wanted to know, but at the
7 same time I mean if -- it can be so busy that you're
8 doing other things, you just get overwhelmed.
9 THE CHAIRMAN: It's all a bit embarrassing, doctor, isn't
10 it, because the concern is this child may have died
11 because of failings on the part of fellow doctors in
12 another hospital?
13 A. Mm-hm.
14 THE CHAIRMAN: The parents don't seem to be told what the
15 concerns are, a note goes off, and the autopsy request
16 form, which certainly doesn't highlight the issue about
17 fluid management, if it raises it at all, and then the
18 post-mortem result comes back and it all just fades
19 away? What would you say if I had a concern that it was
20 allowed to fade away because it really was a bit
21 inconvenient for the problem about fluid management to
22 be highlighted? I'm asking you, I should say, as the
23 first of a number of witnesses because whatever happened
24 in the Royal, this all faded away so that Lucy's death
25 was stumbled over and picked up by one man a number of

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1 In fact, in Claire's case they said they did exactly
2 that: they had a thing called a grand round where they
3 invited the consultants, and although nobody can
4 remember what happened, they describe that as a robust
5 exchange between clinicians to try and understand what
6 had happened.
7 We have a slightly similar position with Lucy.
8 You have got certain concerns, they're not entirely
9 expressed on the face of the autopsy request form. The
10 pathologist comes back and he seems to have picked up
11 bilateral bronchopneumonia as the problem, not entirely
12 fitting with what you thought had happened. Are you
13 aware of any means by which, in a hospital post-mortem,
14 the pathologists and the clinicians actually discuss the
15 results to refine the cause of death, from both
16 disciplines, they think is likely?
17 A. I think it is encouraged that if a post-mortem is taking
18 place, a physician or somebody who was looking after the
19 child would go and witness the post-mortem, then they
20 can have a discussion.
21 Q. So far as we're aware, nobody actually did witness the
22 post-mortem.
23 A. No.
24 Q. In fact, I think there's -- you're quite right, there's
25 a particular bit on the sheet where you can identify or

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1 you can notify the pathologist as to whether you want
2 to. We don't need to pull it up, but the reference is
3 061-022-075. It says:
4 "Will you or a colleague be attending the review
5 session at 1.45 on the day of the autopsy?"
6 And "no" has been circled. There doesn't seem to be
7 any indication that anyone is going to be attending the
8 autopsy examination. But leaving aside that, even if
9 you're not going to be there when the autopsy is
10 actually being carried out, are you aware of any forum
11 or system in place at that time, in 2000, for the
12 pathologists and the clinicians to discuss together the
13 results of the post-mortem?
14 A. Before the report is given?
15 Q. Before it's finalised.
16 A. Apart from what I said, no, because I've ... I mean,
17 I can't remember. I have never witnessed or heard of
18 anybody going to the pathologist to see if they can try
19 and figure out what has happened.
20 Q. Are you aware of any meetings after the post-mortem --
21 A. No --
22 Q. -- where the pathologists and clinicians discuss?
23 A. No.
24 Q. I take it from that that means you have never attended
25 one.

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1 A. Only when I was preparing the reports, yes.
2 Q. So you have seen it?
3 A. I have.
4 Q. Did it surprise you, the results?
5 A. It did.
6 Q. If you had seen it at the time, what would have been
7 your response?
8 A. I would have said it doesn't make sense.
9 Q. And then what would you have done?
10 A. I don't know whether I can go back to the pathologist
11 and say, "What are you saying?"
12 Q. Why did you think it didn't make sense?
13 A. Because of what was written. I can't remember offhand,
14 but I think there was something like -- I can't even
15 remember, cerebral oedema, was it dehydration and
16 gastroenteritis? Something like that.
17 Q. I think we can find it at -- 062-048-114 is one place.
18 Here we are. Let's see what happens if we pull up the
19 next page. There's the commentary. Obviously you have
20 the anatomical findings and summary. Then there's the
21 commentary and then you've got:
22 "The autopsy also revealed extensive
23 bronchopneumonia. This was well-developed and
24 well-established and certainly gives the impression of
25 having been present for some 24 hours at least. There

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1 A. No.
2 THE CHAIRMAN: As a matter of interest, is that still the
3 same today? We're talking now about 2000, but is that
4 still the same today?
5 A. I believe so.
6 THE CHAIRMAN: Thank you.
7 MS ANYADIKE-DANES: So the neurological grand round that
8 Dr Herron and Dr Mirakhur discussed, who were the
9 neuropathologists in Claire's case in 1996, they were
10 discussing something that you're not familiar with?
11 A. No. At least nobody has ever invited me or written to
12 me to say, "We're having such-and-such, will you
13 attend?"
14 Q. Would you have thought it an appropriate thing to do
15 when you have got an outcome that is not entirely
16 conclusive? Would you have thought that appropriate?
17 A. It would be appropriate, but you have to know also when,
18 what and -- when such a meeting was going to take place.
19 Q. Obviously. But as far as you're concerned, you have
20 never been contacted with a view to attending any such
21 meeting?
22 A. No.
23 Q. Thank you. You say that you don't think that the
24 post-mortem report was given to you. You have seen it
25 since, haven't you?

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1 is no doubt that this pneumonic lesion within the lungs
2 is important in the ultimate cause of the death, the
3 changes being widespread throughout both lungs."
4 And so on. Is that what surprised you? Sorry,
5 is that what you thought didn't make sense?
6 A. I think it was what was written on the death
7 certificate.
8 Q. The death certificate? Okay. Just give me a moment and
9 I'll pull that up for you. So as a result of the
10 initial post-mortem results, Dr O'Donoghue issues the
11 death certificate. And this is it. When did you see
12 this first?
13 A. Again, when I was preparing for the statement.
14 Q. And this didn't make sense to you?
15 A. No.
16 Q. What about it didn't make sense?
17 A. Cerebral oedema, dehydration, gastroenteritis. What are
18 you saying? Unless you are saying the dehydration --
19 your treatment of the dehydration is the thing that's
20 led to the cerebral oedema. And it's also saying the
21 gastroenteritis obviously led to the dehydration. It
22 just doesn't tie up.
23 Q. Your concern is the gap between dehydration and cerebral
24 oedema, which on this is unexplained?
25 A. No.

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1 THE CHAIRMAN: Put it simply, she didn't die of dehydration;
2 isn't that right.
3 A. No.
4 THE CHAIRMAN: If there's one thing Lucy didn't die of, it's
5 being dehydrated and she didn't die of gastroenteritis.
6 A. No.
7 THE CHAIRMAN: So the cerebral oedema is not due to
8 dehydration. And I think Professor Lucas has said it's
9 just irrational to put that.
10 A. No.
11 THE CHAIRMAN: How long does it take you, looking at that,
12 to realise that that document makes no sense? Is it an
13 immediate reaction?
14 A. It would be, probably.
15 THE CHAIRMAN: Thank you.
16 MS ANYADIKE-DANES: Then the last few things I want to deal
17 with relate to, if I can call it, audit and just the
18 aftermath, what happens after a child has died. Lucy's
19 death was discussed in the mortality section of the
20 Children's Hospital audit meeting. That meeting was
21 chaired by Dr Taylor, who's a consultant paediatric
22 anaesthetist. You knew Dr Taylor?
23 A. I do.
24 Q. Were you aware that that was going to happen?
25 A. I do not recollect it. I don't know.

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1 A. We're trying to learn what happened.
2 Q. And if the learning had been this child's fluid regime
3 at the Erne Hospital was wholly inappropriate, if that
4 had been the result of all of that, what happens then?
5 A. Well, obviously the people who will be there would learn
6 about it.
7 Q. And what happens about the people who had been
8 responsible, if I can put it that way, for the fluid
9 management at the Erne? Is there any communication with
10 them?
11 A. I don't believe that that happens. It can happen
12 nowadays. Before it didn't happen, but nowadays it can
13 happen.
14 Q. Let me put it this way: if you all in the Royal are of
15 the view that there was something amiss with her fluid
16 regime, so you could form that view, it's not a regime
17 that any of you would have subscribed to, you can see it
18 was deficient, people who need to know that, is it not
19 the case, are those people in the Erne, who maybe
20 inadvertently had administered an inappropriate fluid
21 regime?
22 A. True.
23 Q. So if you don't have a system that communicates that to
24 them, is that not a rather deficient system?
25 A. It's deficient, but it has changed now. Nowadays we

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1 Q. Well, would you expect to be aware of a discussion about
2 her death when you had been the consultant in charge of
3 her care on the final day?
4 A. Yes, I would expect it to be ...
5 Q. Yes. And if you have a meeting like that, what, so far
6 as you understand, happens at a meeting like that?
7 A. The lead consultant sort of presents the case.
8 Q. And who, from your point of view, would have been the
9 lead consultant for Lucy?
10 A. Dr Hanrahan.
11 Q. So in your view, Dr Hanrahan would have presented the
12 case?
13 A. Yes.
14 Q. And so from your understanding of the discussions that
15 you had with him and your knowledge of what happened to
16 Lucy, what should have been being presented about Lucy?
17 A. I mean, what we tend to do -- when you are presenting
18 a case, you more or less summarise the clinical history.
19 So it would have been like a summary of the events that
20 happened in the Erne Hospital or what happened in the
21 Belfast hospital and also, if there's somebody from the
22 pathology department, they'll also give their bit.
23 Q. What's the purpose of the meeting?
24 A. We're trying to learn.
25 Q. Sorry?

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1 tend to inform them of what happens.
2 Q. Yes, but let's stay with 2000.
3 A. Okay.
4 Q. I didn't really have to get to the end of that sentence
5 for you to have appreciated that that was a deficient
6 system. So it could be recognised in 2000 that that's
7 a deficient system. Why would you not communicate with
8 the Erne Hospital?
9 A. I have no response to that.
10 Q. Well, what could possibly be the explanation?
11 THE CHAIRMAN: Let me interpret that as Dr Chisakuta saying
12 there's no good reason not to communicate with the Erne.
13 A. I mean, for instance nowadays we easily do it. I don't
14 see why we shouldn't have done it then.
15 THE CHAIRMAN: Please tell me how it happens now.
16 A. Nowadays when a child comes, we have video conferencing
17 every two weeks, we video conference and we talk with
18 them and we discuss, like in this case, Lucy's
19 condition, and we discuss with the paediatricians there,
20 the people who transferred the child, and us in the
21 PICU.
22 THE CHAIRMAN: Sorry, is that only with the Erne or does
23 that include Altnagelvin and Craigavon and so on?
24 A. The way we do it is our system can only take so many
25 calls, so we would -- we alternate. We deal with

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1 Altnagelvin, Antrim and Craigavon, and then the other
2 week we deal with the Causeway, Daisy Hill and the Erne.
3 THE CHAIRMAN: Thank you. And that has been in place since,
4 roughly?
5 A. I can't remember, Mr Chairman. It has been going on,
6 I think, for the last five or six years.
7 THE CHAIRMAN: So in the fortnight that you're in contact
8 with Altnagelvin, Antrim and Craigavon, you'll be
9 dealing with any cases which are relevant to those
10 hospitals?
11 A. Yes.
12 THE CHAIRMAN: But do you also then tell them what you have
13 learned within the Royal in other cases?
14 A. If there's something, we'll share that such-and-such
15 happened.
16 THE CHAIRMAN: Thank you very much.
17 MS ANYADIKE-DANES: But in 2000, patients had discharge
18 letters.
19 A. Yes.
20 Q. And even if a patient had died, there would be
21 a discharge letter that went to the GP.
22 A. Yes.
23 Q. We can't find Lucy's discharge letter.
24 A. So I'm led to believe.
25 Q. Yes. But that would have been a vehicle for

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1 it was just an error.
2 Q. Which one is correct?
3 A. It would be from about March, not January. From
4 about March.
5 Q. So the CV is incorrect?
6 A. The first bit of the CV, yes.
7 Q. In any event, you become chairman of it just before
8 Lucy's admission?
9 A. Correct.
10 Q. And you've been a member of it since its inception?
11 A. Correct.
12 Q. The purpose of it, you described in your statement, your
13 second witness statement at 283/2 at page 2, you say
14 that the purpose of it is:
15 "it is a multidisciplinary group which reviewed most
16 of the critical incidents reported weekly in the
17 Children's Hospital with a view to identifying lessons
18 learned and disseminating those lessons in the
19 Children's Hospital and the rest of the Trust via the
20 Risk Management Directorate."
21 A. Correct.
22 Q. And given it was a multi-disciplinary role, your
23 particular position within that was to bring a medical
24 perspective to the deliberation on critical incidents
25 with a view to learning lessons.

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1 communicating the concerns that had been had about
2 Lucy's treatment at the Erne.
3 A. Yes.
4 Q. And even though you didn't have a formal system in the
5 way that you do now, would you have thought it
6 appropriate to have included something like that in the
7 discharge letter to Lucy's GP?
8 A. It would have been appropriate. Again, nowadays, things
9 have changed. We have a system where every time a child
10 is leaving the unit, we generate a discharge letter that
11 goes to the GP.
12 Q. I appreciate that, but I want to be clear: do you think
13 it would have been appropriate in 2000 to have done
14 that?
15 A. It would have been appropriate.
16 Q. Finally now, you, at that time, were the chairman of the
17 critical incident review group.
18 A. I was.
19 Q. And you, in fact, were the chairman from January 2000.
20 A. About March, I think.
21 Q. Well, yes. I wondered if you could help us with that
22 because in your witness statement, you said March, but
23 then when I looked at your CV, your CV seems to say
24 something different.
25 A. It says January. If I may ask the thing to correct --

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1 A. Correct.
2 Q. You have said that that responsibility would have
3 included following up incidents involving medical
4 personnel, sharing the findings with the individuals
5 involved and then, every three months, taking turns with
6 the other members of the review group to present
7 critical incidents and lessons learned at audit meetings
8 held in the Children's Hospital.
9 A. Correct.
10 Q. Lucy's death wasn't referred to that group.
11 A. No.
12 Q. And why is that?
13 A. Because I don't believe a critical incident form was
14 filled in.
15 Q. Sorry?
16 A. I don't believe a critical incident form was filled in.
17 Q. So if that group is going to discuss a death, it
18 requires a critical incident form to be filled in and
19 provided?
20 A. That's the only way we can identify that a critical
21 incident has happened.
22 Q. And who has the responsibility of filling that form in?
23 A. Like in this case, if it had happened in the ICU,
24 somebody in the ICU would have filled in the critical --
25 Q. Who?

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1 A. I suppose myself or Dr Hanrahan.
2 Q. Well, it could be Dr Hanrahan because, in the latter
3 stages of her time there, he had taken a sort of more
4 prominent role, one might say that. It could be you
5 because you shared responsibility for her care on her
6 final day. It could have been you because you were lead
7 clinician of PICU.
8 A. Yes.
9 Q. So if, when you came to look at matters each week and
10 you didn't see a critical incident form for Lucy, why
11 didn't you fill one in?
12 A. I suppose probably I would have -- I took a view that
13 the incident happened in another hospital, not
14 necessarily our hospital.
15 Q. So if I just pause there. You took that view. Was
16 there any guidance as to whether that was the view that
17 was to be taken for how the group should work?
18 A. No.
19 Q. So there was nothing that said, "Well, if [as
20 Dr Hanrahan called it] the sentinel event happens in the
21 referring hospital, it can't be part of our critical
22 incident review group"? There was no guidance that said
23 that.
24 A. No. Having said that, things have changed nowadays.
25 Q. Hang on, stick with what happened in 2000. In 2000,

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1 A. No, I did not take a decision not to include that death
2 because at the time -- I mean, when I went to the
3 critical incident review, I was reviewing the critical
4 incidents that had been reported.
5 Q. Sorry, you're quite right; I framed that very badly.
6 Not seeing a critical incident form for Lucy, you took
7 a view not to complete one yourself.
8 A. I don't think -- I mean, the way you frame it is as if
9 I took a deliberate view that I'm not going to fill in
10 a form.
11 Q. As the chairman had put to you, did you not think that
12 there were lessons that might be learned, there was
13 a discussion that might be had about Lucy's care in the
14 interests of everyone? You're the chairman of the
15 group, "I'm looking at the forms coming in for the week,
16 I don't see for one Lucy, I'll complete one"?
17 A. At that time I didn't do it, but things have changed
18 nowadays, we do fill in a form.
19 Q. And the reason you said you didn't do it at the time --
20 and it's in your witness statement, 283/2, page 3.
21 You said:
22 "It was not our role in the critical incident review
23 group to decide what constituted a critical incident."
24 So if we pause there. As I understand the evidence
25 you have given so far, what decided whether you reviewed

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1 there was no guidance that said that?
2 A. Not that I can remember.
3 Q. So there would have been nothing that stopped you,
4 knowing what you did and having the concerns that you
5 had about Lucy, there would have been absolutely nothing
6 to have stopped you completing a critical incident
7 request form and having her death part of the review?
8 A. No, but because obviously I must have thought because
9 the incident happened in another hospital it --
10 Q. I appreciate that but --
11 THE CHAIRMAN: There are lessons to be learned in all
12 hospitals if mistakes are made in one hospital, aren't
13 there?
14 A. I do agree.
15 THE CHAIRMAN: The fact that a mistake is made in the Erne
16 or Craigavon or Daisy Hill doesn't mean you can't learn
17 lessons in the Royal.
18 A. I do agree. That is why nowadays we do it.
19 THE CHAIRMAN: Okay.
20 MS ANYADIKE-DANES: You didn't need nowadays to be able to
21 see that in 2000.
22 A. I mean ...
23 Q. But you were the chairman of that group at the time that
24 Lucy died and you took a decision not to include her
25 death in the work of the group.

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1 a critical incident was whether or not a critical
2 incident form had been completed?
3 A. True, yes.
4 Q. So in other words, any consultant could define for
5 themselves, "This is a critical incident. I'm filling
6 in this form because I'm concerned about the death of
7 this child". Is that what that meant?
8 A. Correct.
9 Q. Once that form had gone in, then your group would look
10 at it?
11 A. Correct.
12 Q. Then you say:
13 "I would observe, however, that it appears that if
14 there was a critical incident in this case, it might be
15 deemed to have happened in the Erne Hospital rather than
16 the Children's Hospital."
17 I pause there for the moment. "If there was
18 a critical incident". Did you regard Lucy's death as
19 being a critical incident?
20 A. I don't remember at the time whether I regarded it as
21 a critical incident or not.
22 Q. Anyway, what you say is:
23 "It might have been deemed to have happened in the
24 Erne Hospital rather than the Royal, so that might have
25 affected whether or not it was treated as a critical

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1 incident within the Children's Hospital."
2 What you have just explained is, it might have
3 affected your view as to whether you would fill out
4 a critical incident form; is that right?
5 A. Correct.
6 Q. Yes. And the rationale for that is what, that you
7 assume that the referring hospital is carrying out that
8 kind of review and therefore we don't need to do it
9 at the Children's Hospital?
10 A. I do not see the connection.
11 Q. Well, unless you know that the hospital that referred
12 her is carrying out such a review, then it may be that
13 the learning that might be had from her death is lost
14 because if they're not doing it and you're not doing it,
15 then nobody's considering it?
16 A. That's true. That's why now things have changed.
17 THE CHAIRMAN: In what way?
18 A. Nowadays, Mr Chairman, if a child comes in, if any event
19 happens, even during the transfer to a hospital, I would
20 fill in a critical incident.
21 THE CHAIRMAN: Okay. So you're no longer worried about the
22 point at which things went wrong, it will still become
23 a critical incident for you in the Royal?
24 A. Yes.
25 THE CHAIRMAN: Thank you.

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1 MS ANYADIKE-DANES: Were you involved at all in that change
2 of approach, if I can put it that way?
3 A. It has been an evolution. I'm not sure whether I have
4 been, but I have been part of the group.
5 Q. Well, the only reason I ask you is because you are part
6 of the group and have always been part of the group, so
7 were you party to any of the discussions that led to
8 that change?
9 A. I presume so. I can't remember any such discussions,
10 but things have changed, we do it nowadays.
11 MS ANYADIKE-DANES: Mr Chairman, if I may take a couple of
12 minutes just to ask?
13 THE CHAIRMAN: We'll do it from the floor. Are there any
14 questions from the floor? No?
15 Doctor, unless you have anything that you want to
16 add to the evidence you have been giving during the
17 morning, that brings an end to your evidence.
18 Do you have anything else you want to say or not? You
19 don't have to.
20 A. No, Mr Chairman.
21 THE CHAIRMAN: Thank you very much for your assistance.
22 Ladies and gentlemen, we'll start at 2.15.
23 (1.40 pm)
24 (The Short Adjournment)
25 (2.15 pm)

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1 (Delay in proceedings)
2 (2.21 pm)
3 THE CHAIRMAN: Just before we start: Mr Simpson, there was
4 an issue raised yesterday, which I'm sure you have been
5 alerted to, about a Western Trust claim for privilege
6 for two files, the inquest and litigation files.
7 MR SIMPSON: Yes.
8 THE CHAIRMAN: Do I understand it correctly that, in respect
9 of the litigation file, that that is no longer the
10 position?
11 MR SIMPSON: It's not any longer the position, no -- the
12 litigation file?
13 THE CHAIRMAN: Is there still a claim for privilege for
14 that?
15 MR SIMPSON: As far as I'm aware, yes.
16 THE CHAIRMAN: And what about the inquest file?
17 MR SIMPSON: The inquest file at the moment, both the DLS
18 file and the Trust inquest file are separately being
19 gone through by myself and Ms Simpson in order to
20 finalise that today if possible or tomorrow at the
21 latest.
22 THE CHAIRMAN: So that we can see something tomorrow with
23 luck?
24 MR SIMPSON: Yes. I don't want to be a hostage to fortune,
25 but I'm hoping so, yes.

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1 THE CHAIRMAN: Then we'll pick up the issue and also pick
2 up, Mr McAlinden, the issue about what was the Royal --
3 now the Belfast Trust -- Brangam Bagnall file in Lucy's
4 inquest.
5 MR McALINDEN: I'm not sure what the situation is
6 in relation to that --
7 THE CHAIRMAN: We were given a file on Friday afternoon
8 which had documents removed with a page saying
9 "privilege claimed", so -- I'm not sure ... You'll know
10 that previously we've had some unhappy experiences about
11 claims for privilege which were scrutinised and then, at
12 least, reduced so we'll need to sort that out this week
13 if at all possible.
14 MR McALINDEN: I will certainly do everything I can to have
15 that sorted out by the end of the week.
16 THE CHAIRMAN: Ms Anyadike-Danes?
17 MS ANYADIKE-DANES: Could I please call Dr Caroline Stewart?
18 DR CAROLINE STEWART (called)
19 Questions from MS ANYADIKE-DANES
20 MS ANYADIKE-DANES: Good afternoon. Dr Stewart, do you have
21 your CV there?
22 A. Yes, I do.
23 Q. Can you confirm to us that the statements you've
24 previously made, you rely on, subject to anything that
25 you say now? I will tell you what they are so you know

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1 what you're confirming. There's a PSNI statement dated
2 2 February. The reference for that, which we don't need
3 to pull up, is 115-023-001.
4 THE CHAIRMAN: 2 February?
5 MS ANYADIKE-DANES: 2005, I beg your pardon.
6 There's also one dated 7 April 2005. That is
7 115-022-001. Then there are two inquiry witness
8 statements with the series 282. The first one is dated
9 5 November 2012, the second one is dated
10 25 January 2013.
11 A. That's correct.
12 Q. Do you wish to rely on those, subject to anything that
13 you say?
14 A. That's correct.
15 Q. You also gave an interview, perhaps impromptu, to
16 Trevor Birney at UTV on 14 October 2004; is that right?
17 A. That was a telephone call to my home.
18 Q. Yes. And there's a transcript of that.
19 A. I understand that, but I haven't seen it.
20 Q. The reference for it is 069-001-001. So I'm going to go
21 through, very quickly, some things in your
22 curriculum vitae. If we can pull up, not literally the
23 first page, but it is your professional experience I am
24 going to turn to, 315-013-002. There we are. It's sort
25 of working backwards, if I can put it that way. So

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1 Q. So you had been there really just a couple of months
2 before Lucy is admitted. And before that, you were
3 at the maternity hospital. We don't need to go through
4 it all, except to see the last time you were at the
5 Children's Hospital. Prior to that period, when you
6 were in your fourth specialist year, is it correct that
7 you were at the Children's Hospital for six months
8 in February 1998 to August 1998 when you were
9 a specialist registrar, hospital paediatrics, in your
10 second year?
11 A. That's correct, for a year.
12 Q. Yes, I will give the reference, but we don't need to
13 pull it up, 315-013-004. Just prior to that, you were
14 still in the Children's Hospital but you spent six
15 months in paediatric cardiology.
16 A. Correct.
17 Q. If I can just ask you briefly about that. That was your
18 experience with, as you called it acute and chronic
19 problems post-operative care and so forth. Were you
20 aware of what the fluid regime was for those
21 post-operative paediatric children?
22 A. For post-operative cardiac children they were managed in
23 cardiac intensive care and, once they were stabilised,
24 they were transferred back to the Clarke Clinic ward
25 in the Children's Hospital. They may or may not have

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1 you'd been a consultant paediatrician for 11 years now
2 at Antrim Hospital.
3 A. That's correct.
4 Q. For two of those years you were lead paediatrician in
5 Antrim; is that correct?
6 A. Yes.
7 Q. And also lead consultant for paediatric diabetes?
8 A. Yes.
9 Q. Is that your specialist area?
10 A. That's correct.
11 Q. Prior to that, if we just pull up the next page, 003,
12 this deals with your specialist registrar training.
13 A. Yes.
14 Q. So we can see, by rotation, what you have done and when
15 you have done it, if I can put it that way. So you were
16 at Cupar Street in the diabetic clinic and you had
17 6 months there, 2001 to 2002. Then you were in
18 paediatrics in the Antrim Hospital and you have
19 12 months there.
20 A. Yes.
21 Q. That brings us to when your period of time coincides
22 with Lucy's admission. That is your specialist
23 registrar paediatrics in your fourth year at the
24 Children's Hospital, February 2000 to August 2000.
25 A. That's correct.

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1 been on intravenous fluids, but we would have certainly
2 taken guidance from the paediatric cardiac anaesthetists
3 and the cardiologists regarding their fluid regimes.
4 And because they were cardiac children, their fluids
5 would have been very carefully monitored.
6 Q. Were you aware of there being what one might call a sort
7 of default fluid type, Solution No. 18 or Hartmann's,
8 for example?
9 A. I would have been aware of all those fluids, working in
10 general paediatrics and in cardiology.
11 Q. When you're at the Children's Hospital at the time of
12 Raychel's admission, which is that six months when
13 you're in your fourth year, what was your understanding
14 of what the fluids were in PICU then for children?
15 IV fluids, I should say.
16 A. We would have used a wide range of intravenous fluids
17 and very much, case by case, what the children required,
18 whether it was a resuscitation fluid, a replacement
19 fluid, if they had been dehydrated and required
20 replacement fluid, or whether it was maintenance fluid.
21 And according to the age of the child, we would also
22 have determined what type of fluid to use. A lot of
23 very young babies would also come through paediatric
24 intensive care, and for neonates it might be a different
25 regime than older children. Burns cases would have been

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1 different. So there was a wide range of fluids in use
2 at that time.
3 Q. Yes. Were you aware at all of the use of
4 Solution No. 18 perhaps being reduced in favour of
5 a fluid with a higher concentration of sodium,
6 Hartmann's for example?
7 A. I think Solution No. 18 would have been seen by many of
8 us as being quite widely used as a maintenance fluid in
9 paediatrics. It would not have been widely used as
10 a resuscitation fluid.
11 THE CHAIRMAN: What do you mean when you say
12 resuscitation --
13 A. Resuscitation or replacement fluid.
14 THE CHAIRMAN: Is that the same thing?
15 A. No.
16 MS ANYADIKE-DANES: Do you want to explain?
17 A. Resuscitation would be a bolus, really, to correct shock
18 and the deficit would be calculated and probably
19 replaced over 24 or 48 hours as an add-on to what would
20 be normal maintenance fluid.
21 Q. Yes. Just while we're there, I picked up something that
22 you had said in that telephone interview with
23 Trevor Birney. It's just in relation to the use of
24 fluids in terms of type. If I can pull up 069-001-051.
25 I do appreciate that you weren't aware that you were

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1 really stopped using No. 18 and have gone to either
2 half-normal or normal saline for maintenance fluids and,
3 from the year 2002 onwards, I'm aware some of my
4 colleagues were very much involved in drawing up
5 regional guidance for intravenous fluids and that sort
6 of thing.
7 Q. The CMO established a group which ultimately produced
8 a set of guidelines which is issued and published
9 in March 2002. Just to help you benchmark it, this
10 transcript is taken from a conversation, I think,
11 in October 2004. Is it possible that the change had
12 started even before the working group started their work
13 in relation to the formation of guidelines?
14 A. It is possible. Again, I can't remember specific dates.
15 I'm also aware that we felt it was -- probably a lot of
16 children were started on intravenous fluids that may
17 have been managed with oral-fluid rehydration and
18 we were maybe having a general shift towards trying to
19 use oral rehydration and give a tube feed to children
20 that we might have previously used intravenous fluids.
21 So there was a general shift maybe in general paediatric
22 wards not to put everybody on IV fluids if we could give
23 a trial of oral rehydration before intravenous
24 rehydration was necessary. So that shift also probably
25 coincided.

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1 going to be interviewed on that occasion. I understand
2 that and that is clear throughout the transcript.
3 THE CHAIRMAN: Were you aware that you were being recorded?
4 A. No, and I specifically asked him, "Are you recording
5 this conversation?", and he said, "No, I'm not".
6 THE CHAIRMAN: Thank you.
7 MS ANYADIKE-DANES: Thank you. That puts that clearly in
8 context.
9 His questions are in the bold type. Your responses
10 are in the lighter type. You are talking about the type
11 of fluid:
12 "We constantly revise these things and whilst
13 different hospitals might have different protocols, we
14 certainly did use No. 18 widely in paediatric practice
15 for maintenance solution."
16 I think at that time, to be fair to you, you're
17 referring to what the practice might have been in 2000.
18 Then you say:
19 "And I mean that was general practice, but over the
20 last few years, we've been using half-normal saline as
21 a maintenance solution."
22 That's the sort of thing I meant. Can you recollect
23 when that shift happened?
24 A. My memory is that that shift might have happened from
25 about 2002, and certainly in my time in Antrim we have

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1 Q. So first to consider whether the child really needs to
2 be an IV fluids at all?
3 A. Correct.
4 Q. And if the child does, maybe a little more careful
5 thinking about what precisely those fluids ought to be?
6 A. Yes.
7 Q. And that is something that may have happened -- well
8 certainly happened after the work of the working party,
9 but may have actually started before then to the best of
10 your recollection?
11 A. Yes, it could have been.
12 Q. You probably are aware that when a child called Raychel
13 was admitted and treated -- and you're aware of that
14 case, Raychel Ferguson?
15 A. Yes, I'm aware of it.
16 Q. Raychel Ferguson was treated in the Altnagelvin, she
17 suffered a collapse, she was transferred to PICU and she
18 died there, not having ever rallied from that collapse
19 if I can put it that way. The upshot of that is that
20 Dr Nesbitt -- are you aware of him?
21 A. No, not until the inquiry.
22 Q. Okay. Dr Nesbitt was consultant paediatric anaesthetist
23 and he was tasked to, or at least took it upon himself,
24 to make some calls to see whether the fluid regime they
25 were using there, how that compared with other

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1 hospitals. The result of all of that is, after he had
2 made a call to the Children's Hospital, he was told that
3 the Children's Hospital had actually stopped using
4 Solution No. 18 about six months before Raychel.

5 Raychel is June, June 2001, so about six months
6 before that, the Children's Hospital had stopped. In
7 two different places he gives slightly different reasons
8 for that. One is because --

9 THE CHAIRMAN: It's okay. Let's move on. Sorry, were you
10 here for this morning's evidence, Dr Stewart?

11 A. Most of it, yes.

12 THE CHAIRMAN: Did you hear Ms Anyadike-Danes going through
13 with Dr Chisakuta the exchanges between him and
14 Dr Chisakuta and Dr Nesbitt?

15 A. Yes.

16 THE CHAIRMAN: So you know the background is that Dr Nesbitt
17 has written that he was told by Dr Chisakuta that
18 Solution No. 18 had been stopped in the Royal, the Royal
19 initially said, yes, that's right it had stopped, then
20 it said, no, it hadn't stopped, but produced figures
21 that showed in the spring of 2000 its use had tailed off
22 considerably.

23 A. Yes.

24 THE CHAIRMAN: Were you in the Royal at that time?

25 A. Yes, I would have been there until the end of July or

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1 A. No, I wasn't aware of that at the time.

2 Q. But you did appreciate that there were risks if you used
3 low-sodium fluids as replacement therapy as opposed to
4 maintenance therapy?

5 A. Yes.

6 Q. And in fact, to your credit, you make that extremely
7 clear in that transcript of your interview about the
8 dangers of doing that. So you had no doubt that that
9 posed a potential risk to a child if you were using that
10 for any period or at any volume?

11 A. Yes, correct.

12 Q. And you're a registrar at that stage. Would you say
13 that that was something that you would expect your
14 colleagues to have realised in 2000?

15 A. Yes, I think that would have been very standard
16 paediatric practice.

17 Q. And how did you come about that knowledge?

18 A. Probably initially it would have been case by case,
19 learning from seniors that I worked with on the ward,
20 probably a lot of personal study and reading, preparing
21 for exams, learning about biochemistry and about fluid
22 requirements for different children, different ages and
23 different conditions.

24 I'm also aware that it would have been part of the
25 advanced paediatric life support training, which I did

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1 beginning of August.

2 THE CHAIRMAN: Can you help on the tailing off or the
3 reduction of the use Solution No. 18?

4 A. I don't particularly remember, but part of it may have
5 been that we were trying to use more oral rehydration in
6 a lot of -- particularly young babies with respiratory
7 problems, we tried not to use intravenous fluids as
8 much.

9 MS ANYADIKE-DANES: That might have been part of it, but
10 it's quite a significant fall. Are you able to help in
11 any way as to what might have prompted it?

12 A. I wasn't really aware of, you know, such a dramatic fall
13 in the actual prescription of the No. 18 bags from the
14 pharmacy.

15 Q. Does that mean, so far as you're concerned, there was no
16 real discussion? If there was a change like that, so
17 far as you're concerned, there was no discussion around
18 it?

19 A. I don't remember.

20 Q. Were you aware of any of the literature? The early part
21 of it was by Professor Arief and colleagues in 1992,
22 then he published a paper in 1998, and there is another
23 paper published in 2000, the early part of 2001. Were
24 you aware of that literature on the risks of low-sodium
25 fluids?

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1 as a registrar, that we would have had slightly more
2 formal instruction. But it has changed a lot in the
3 last -- you know, since the year 2000. So it's
4 difficult to exactly remember what my thinking would
5 have been about fluid prescriptions back then as opposed
6 to the way I think about them in my practice nowadays.

7 Q. Yes. And that is why the interview is rather useful
8 because it comes, albeit not immediately after the
9 event, but it's 2004, so it's closer to it than the
10 witness statements that you've given to us. We don't
11 need to pull it up, but I will give you a reference for
12 it, 069-001-028, and you quite clearly say there is
13 a difference between maintenance fluid and replacement
14 fluid, and that Solution No. 18 is not to be used as
15 replacement fluid, that's a fluid for maintenance, and
16 you're quite clear in the interview. So would it be
17 a reasonable assumption that you would have been pretty
18 clear in 2000 about the significance of that difference?

19 A. I would think so, yes.

20 Q. And if you saw notes or anybody had told you that one of
21 your colleagues was proposing to use Solution No. 18 for
22 both replacement and maintenance, am I understanding you
23 that it wouldn't have taken you very long to see that
24 that would be an error?

25 A. Yes, that would be inappropriate.

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1 Q. Then you see Lucy quite early on in her admission. When
2 you do see her, you at that stage, I don't think, had
3 access to her notes.
4 A. That's correct. I was on call the night that we got
5 a telephone call to say she was coming and I recollect
6 that I saw her in intensive care before the end of my
7 shift.
8 Q. What you did have was the transfer letter --
9 A. Yes.
10 Q. -- and you would have had the transfer sheet. Did you
11 have access [sic] to speaking to the transfer team?
12 A. I can't remember whether or not I spoke to the team.
13 Q. But you were aware they were there?
14 A. Yes.
15 Q. If we just stick with the transfer sheet and letter that
16 you would have seen.
17 The transfer letter is at 061-014-038. If we pull
18 up the second page to it. So that's the first bit of
19 information that you might have seen, quite apart from
20 whether you had any discussion with Dr O'Donohoe. How
21 did you interpret the information that is being provided
22 on that transfer letter? What do you think you learnt
23 from it, if I can put it that way?
24 A. I can't remember what my thoughts were when I read the
25 letter. I suppose now, when I'm reading it, I feel it's

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1 that. Are there any immediate thoughts that you would
2 be thinking about the child, quite apart from the
3 presentation of the child to you?
4 A. I suppose, given a history of fever followed by
5 a seizure, we would wonder was this an atypical febrile
6 convulsion, a prolonged convulsion, or was there
7 something like an encephalitis or ... It certainly had
8 the picture of a very sick child. I think when he has
9 written, "Capillary refill greater than 2 seconds", that
10 could have been clarified -- was it 3, 4, 5 seconds? --
11 because that could be important to try to ascertain how
12 shocked she was when she presented to them.
13 Q. If Dr O'Donohoe had been available for any of the
14 clinicians there when Lucy was admitted, is that the
15 sort of thing that you would have wanted to find out
16 from him?
17 A. I'm not sure, I can't remember.
18 Q. No, no, I'm not saying whether you did, but given
19 you have raised the significance of that, because
20 it would tell you something as to how dehydrated she was
21 and since it doesn't spell that out on the form, if he's
22 available, is that something that, in your view, would
23 have been helpful to take up with him?
24 A. It would have been very helpful information.
25 Q. You mentioned about the transfer forms. That's the only

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1 maybe quite brief.
2 Q. Yes.
3 A. It doesn't contain a lot of information. Working now in
4 a peripheral general hospital, we are frequently
5 transferring children to a central unit and we would
6 make sure all the information was copied, all the notes
7 were copied, all the fluid balance and things like that,
8 and we use a different sort of transfer form.
9 Q. I'm going to come to that in a minute. If we just look
10 at this because we're trying to get ourselves back to
11 2000 and what the clinicians might reasonably be
12 expected to have understood.
13 You've got her capillary refill, you'd have known
14 that, you'd have known that she had IV fluids, although
15 I don't think from this you can really tell what those
16 IV fluids were. You would have seen what her initial
17 serum sodium level was. You'd have known when she
18 collapsed, you'd have known when she started her IV.
19 You'd have known that she had episodes of diarrhoea and
20 so on. And you'd have known that she required
21 ventilatory support and that she had a clear chest
22 X-ray.
23 A. Yes.
24 Q. And that she had been administered mannitol and that had
25 produced a brisk diuresis. That is what you get from

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1 other bit of information you have when she first comes
2 over and you see that at 061-015-040. We can pick up
3 the second page to it alongside, 041. This appears to
4 be a standard Western Health and Social Services Board
5 patient transfer form. Sorry, the second page is
6 061-016-041. Would you have seen this?
7 A. Yes. I don't remember specifically having any thoughts
8 about it when she came, but I would have seen it when
9 she came to the Children's Hospital.
10 Q. And the only clue to the fluids would have been at the
11 top right-hand corner, which says, "500 ml of normal
12 saline, 30 ml an hour".
13 A. Yes.
14 Q. You say it's very brief, it is their standard form.
15 Leaving aside that you would have liked to have a copy
16 of her notes, what else would you have expected to see
17 on a transfer form?
18 A. I think this transfer form is literally just her
19 condition during the transfer, that those are her
20 observations during her transfer and it doesn't really
21 reflect observations when she was actually an inpatient
22 in Enniskillen. It's very much just during the
23 transfer.
24 Q. How typical was this at the time?
25 A. This was probably just a very standard transfer letter

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1 and it could have been used for any type of patient, not
2 particularly paediatrics, and it probably is more geared
3 towards adult patients than paediatric patients. But it
4 was probably the standard form they had at that time.

5 Q. We can pull up one for Raychel, who was being
6 transferred from the Altnagelvin Hospital, just quickly,
7 to see the comparison, to see if you can help us with
8 which you thought was more or less representative of the
9 kind of information you would get at that time.
10 020-024-052 and, alongside it, 053. That's the first
11 page.

12 So there you have an opportunity to put more detail,
13 obviously, to the consultants then of the current drug
14 therapy. More information as to the items to be sent
15 with the patient, case notes, X-rays, so on and so
16 forth, and that can all be filled in. I think the other
17 one really talks about valuables and clothing.

18 A. It's more like an old person going to a nursing home.

19 Q. Then of course you have the second one, which is the
20 transfer record sheet, which is telling you what happens
21 en route, if I can put it that way. So in terms of
22 what, if you can remember, was more representative of
23 the standard at the time, can you help us with a view?

24 A. Obviously, this is much more comprehensive, it gives
25 details about her ventilation, the fact that she had

1 there for some other reason.

2 So the call would have come through to me as the
3 registrar and I would take the details and then inform
4 the paediatric intensive care consultant who was on call
5 that night about this case and then they would usually
6 make a telephone call or tell us what to tell the
7 hospital about receiving them. And it would be very
8 much, you know, "Do you have space?", "Can you take this
9 child?", "This is what we're concerned about", "This is
10 why we want to transfer them".

11 So we would be taking the initial call to the
12 hospital and then contacting the anaesthetist, who would
13 then give their approval if there was a bed available,
14 et cetera, and give their consent to, yes, the patient
15 can come, and then we would get back to the referring
16 hospital.

17 Q. And when you receive a call like that and you get
18 details which you're then going to pass on to the
19 consultant on call, which in the early hours of that
20 morning would have been Dr McKaigue, do you make a note
21 of what you're being told?

22 A. We would scribble down the information on whatever was
23 available to us at the time, but that type of thing
24 could have been written on anything and I could have
25 been anywhere in the hospital. We had to cover Accident

1 a catheter in, a lot more detail about the fluids.

2 Sorry, I'm not sure exactly ...

3 Q. What I wanted to know is: you have the one which is
4 rather brief that I showed you in relation to Lucy,
5 you have this, which you have acknowledged is in more
6 detail; which more closely resembles the sort of thing
7 you were receiving in 2000, if you can do that?

8 A. I ...

9 THE CHAIRMAN: One form might be better than another, but
10 they're both what she was receiving in 2000 because
11 they're both standard forms.

12 MS ANYADIKE-DANES: You said in your PSNI witness statement
13 that you accepted -- sorry, I will just pull up the
14 reference for it. 115-022-001. You say that you were
15 on call on 13 April when Lucy was admitted to the
16 Children's Hospital:

17 "I accepted by telephone her transfer from the
18 Erne Hospital around 6 am."

19 What does that mean exactly?

20 A. My memory was that the Erne Hospital phoned paediatric
21 intensive care to tell us about the child that they
22 wanted to transfer. Those calls would normally come
23 through to the Children's Hospital and, as the
24 registrar, I was probably the most senior doctor in the
25 hospital unless some of the consultants happened to be

1 & Emergency and all the wards. So we could have been
2 anywhere getting that call. And that initial bit of
3 information would probably have been scrapped once the
4 child arrived.

5 Q. What information are you trying to get at that stage?

6 A. You're trying to get, basically, their name and their
7 age and where they're coming from and why they want them
8 to be transferred.

9 Q. Can you recall that call?

10 A. No, I don't.

11 Q. Who would you be speaking to? Would you typically be
12 speaking to the child's consultant?

13 A. It's usually the consultant makes the call or, if the
14 consultant is busy with the child, their registrar may
15 have made the call. I'm aware that in Enniskillen they
16 didn't have a registrar, it would have been the SHO, but
17 I think it was the consultant who made the call.

18 Q. In any event, somebody who was familiar with the child's
19 condition and what had happened?

20 A. Yes.

21 Q. So if it's a consultant, it could have been Dr O'Donohoe
22 who was the consultant paediatric, or Dr Auterson who
23 was the consultant anaesthetist?

24 A. Yes, correct.

25 Q. Somebody at that level, you would expect?

1 A. Yes.
2 Q. And then you say that she arrived -- I'm carrying on
3 reading down from your statement:
4 "She arrived in PICU at approximately 7.45. Along
5 with the SHO in PICU and the consultant anaesthetist, I
6 spoke to ..."
7 Pausing there, that SHO in PICU, is that
8 Dr McLoughlin?
9 A. Yes.
10 Q. And the consultant anaesthetist at that stage would have
11 been Dr McKaigue; is that right?
12 A. That's right.
13 Q. "Along with [those two], I spoke to Dr O'Donohoe from
14 the Erne Hospital who transferred Lucy. I took
15 a medical history, examined the patient, and the
16 anaesthetist and the SHO both made admission notes."
17 What was the information you were trying to get from
18 Dr O'Donohoe?
19 A. I think it would have been just the clinical history
20 that was recorded by the SHO that morning about her
21 condition and what treatment she had been given, had she
22 been covered with antibiotics, had they done blood
23 cultures, had they sent off other bloods. Just trying
24 to follow up on other samples that they might have sent
25 from Enniskillen, bearing in mind that cultures would

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1 dilated, would you not be wanting to know as he's there,
2 "Did you do any other U&Es?", "What is it at the
3 moment?", or, "What was it before she was transferred?"
4 A. Yes. I can't remember when we heard the next set of
5 results.
6 Q. No, but whilst he's there, would that not have been an
7 appropriate question to ask him?
8 A. It would be an appropriate question. I can't remember
9 whether it was asked.
10 THE CHAIRMAN: We're sort of looking at this now with the
11 knowledge of what happened to Lucy. When Lucy arrived
12 on that morning of the 13th, how far up your list of
13 ideas of what had happened to her was that she had
14 received too much of the wrong fluid?
15 A. I don't think that would have been top of my list at all
16 because presented with a child of her age, with a fever
17 followed by a seizure that left her unresponsive,
18 I would have been wondering is there some other
19 neurological problem, has she something serious like an
20 encephalitis or a brain tumour or a bleed into her head,
21 something other than intravenous fluids, that has caused
22 this acute collapse.
23 THE CHAIRMAN: But that might raise its head as a cause or
24 potentially the cause of Lucy's problems if you're told
25 what her fluid regime was, that she was on

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1 take 24 hours minimum to be reported.
2 Q. The SHO has taken a note, it's Dr McLoughlin. She has
3 taken a note which she times at 8.30 in the morning, and
4 in that note, it's 061-018-058, she says -- you can see
5 that halfway down:
6 "A&E last night. 3 hours to get IV access. IV
7 commenced at 12.30."
8 So you know she's on IV fluids. If Dr O'Donohoe is
9 there available to you, are you not trying to find out
10 what her IV fluid regime was?
11 A. I presume we asked and therefore asked for the fluid
12 balance chart to be faxed from the ward because it
13 didn't accompany the child.
14 Q. Yes, but in any event, ahead of that, would you not be
15 trying to find out from him, as he's the person who was
16 treating her, what her fluid regime was?
17 A. Yes. I can't remember what exactly we asked him about,
18 but that would be certainly appropriate.
19 Q. That would have been appropriate?
20 A. Yes.
21 Q. In fact, you knew from the transfer letter that the
22 initial serum sodium level had been 137.
23 A. Yes.
24 Q. Given the condition she was, because you know then she
25 collapsed at 3 o'clock, her pupils were fixed and

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1 Solution No. 18, apparently as a replacement fluid, and
2 the volume which she received it at, over what period of
3 time?
4 A. Yes, I probably would and, certainly in hindsight,
5 that is the way I would think about it.
6 THE CHAIRMAN: Right.
7 MS ANYADIKE-DANES: I wasn't asking you about the fluids
8 because I was suggesting your immediate response when
9 she came in would be, "I think there might be something
10 wrong with her fluid regime", but why I was asking you
11 that is at this stage you don't have her notes, you have
12 a very brief transfer letter, and an even briefer
13 transfer form, but you do have the consultant there, and
14 as you are trying to gather the information ahead of
15 when her notes do come, why I was asking you that is
16 once you see that the child has been on IV fluids and
17 she clearly still is on IV fluids, is not part of your
18 information gathering exercise to see what has her fluid
19 regime been in the same way as you might ask about any
20 of other her symptoms or records of measurements?
21 A. Yes. I can't remember what detail I or any of the other
22 doctors asked the consultant that transferred her. And
23 I am aware it was 8.30 in the morning when we would have
24 been changing over shift. So I probably was only there
25 for the next half an hour. I can't remember what

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1 exchange of conversation I had with the consultant from
2 the Erne Hospital that morning.
3 Q. Dr O'Donohoe thinks that he did say what her fluid
4 regime had been on, and he did say orally that her serum
5 sodium levels had fallen to 127 and that that had been
6 taken, or that was a result after they had been
7 administering her with normal saline. Do you remember
8 anything of that sort?
9 A. No, I don't remember that conversation.
10 Q. If he had said that, would you have expected that to
11 have been included in Dr McLoughlin's note?
12 A. Yes, I think I would.
13 Q. What you do have on that transfer sheet though is, as
14 I showed you, right at the top, that reference to
15 "500 ml normal saline at 30 ml an hour"; did you
16 consider whether you thought that was appropriate or why
17 she was on that?
18 A. I can't remember whether or not I was trying to work out
19 a fluid regime that would have been appropriate for her
20 because we would base it on the weight of the child and
21 the percentage that she was dehydrated, and if she was
22 approximately 10 kilograms, if she was dehydrated then
23 we would take that into consideration and normal saline
24 would be an appropriate fluid for giving her maintenance
25 plus rehydration fluid. I can't remember whether

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1 that she couldn't have been that dehydrated because her
2 tongue was moist. So if she's not that dehydrated when
3 she comes in, and she comes in at that particular weight
4 and her serum sodium was in normal parameters, but her
5 weight has significantly increased a few hours later, if
6 I can put it that way, by the time she gets to PICU,
7 is that not something that should have triggered a query
8 in somebody's mind as to why her weight has gone up in
9 those circumstances?
10 A. Yes, I suppose you also have to take into consideration
11 the fact that she would have been weighed with perhaps
12 her endotracheal tube and her urinary catheter and maybe
13 there were other things that factored into the -- it's
14 difficult.
15 Q. Yes, at the moment I'm only asking you: a change in
16 weight, is that something that should provoke a bit of
17 a query?
18 A. If it's a significant change in weight -- and we do
19 allow a small margin of error for weighing between
20 different scales, they may have a slightly different
21 calibration, that you might get a slightly different
22 weight on two different sets of scales.
23 Q. Okay. You then go on to say that:
24 "The staff in PICU contacted the Erne Hospital that
25 morning to request a copy of Lucy's medical notes as

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1 I mentally tried to work out the calculation that
2 morning or whether that was brought to my attention the
3 next day.
4 Q. Would you have noted her weight?
5 A. Yes. That would be very much standard practice of any
6 transfer.
7 Q. Her weight's different. Her weight when she's in the
8 Erne is -- let me take you to the place in her notes
9 where we have it. The reference is 061-017-045. It's
10 on her admission sheet. It has "9.14" as her weight
11 there. And when she comes to PICU, her weight has
12 increased -- I'm trying to see if I can conveniently
13 tell you what it goes up to. It's 9.8, I think it goes
14 up to. So that's an increase in weight. Did you note
15 that her weight had increased?
16 A. I wasn't aware of that fact.
17 Q. Would that be relevant to look at if her weight does go
18 up?
19 A. I suppose what I would want to know is what her
20 preceding weight was before her illness if her parents
21 had a measurement, for example with the health visitor.
22 That would help in determining the extent of how
23 dehydrated she was when she presented to the
24 Erne Hospital. That might help.
25 Q. But if you'd looked at her notes, you would have seen

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1 they hadn't come with her."
2 Pausing there: had you expected that they would come
3 with her?
4 A. It's always much more helpful if they do come with the
5 child, but sometimes the circumstances are such that
6 they can't get a photocopy of the notes in time and they
7 don't want to delay the transport, an emergency
8 ambulance is waiting, and maybe they will say they'll
9 send them later. So there may have been occasions that
10 we didn't get the full set of notes, but it is always
11 ideal to get all the notes and X-rays, et cetera, with
12 the child.
13 Q. Yes. So what you have said is that the
14 Children's Hospital contacted the Erne to ask for the
15 notes and to clarify what treatment she had received
16 prior to arrival at the Children's Hospital. Do you
17 know who was doing that?
18 A. I'm not aware of who exactly did that, whether it was
19 a member of nursing staff or a member of medical staff.
20 I don't remember.
21 Q. Well, who would you have thought would be appropriate
22 the person to seek clarification as to her treatment?
23 A. Um ... I suppose once the notes came to the
24 Children's Hospital, then the consultants that were in
25 charge of her case and were responsible -- to go through

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1 things with a fine comb and try to determine what she
2 had been given.
3 Q. Now, you saw her notes when they did come finally.
4 Given what was in her notes, did you think there were
5 matters that it would be appropriate to seek to clarify
6 with the clinicians at the Erne?
7 A. Yes.
8 Q. What would you have wanted to have more clarity on, if I
9 can put it that way?
10 A. Yes, I remember the fluid balance sheet in my mind, it
11 didn't really -- the sums didn't appear to add up and
12 I wasn't sure if the totals were calculated.
13 Q. Let me pull up that up for the 061-017-056. That's the
14 one you mean?
15 A. Yes, that's correct.
16 Q. What did you feel didn't quite add up for you when you
17 looked at that?
18 A. When I looked at 11 pm, it's 100/100, and then from 12
19 midnight through to 2 am, it was 100/200, and then
20 100/200, and 100/200, and I didn't really understand
21 what that meant.
22 Q. Yes. The nursing note says that she was on 100 ml of
23 Solution No. 18 per hour. You saw that?
24 A. Yes.
25 Q. So you've got that, you've got the nursing note that

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1 information -- and just, in fairness, the nursing note
2 tells you -- sorry. If we substitute one of those,
3 061-017-049. This is the nursing note that was also
4 faxed across. You can see:
5 "IV fluids commenced at 22.30 at 100 ml an hour to
6 encourage urinary output."
7 Then you see that she has her large vomit at 00.15,
8 IV fluids remaining at 100 ml an hour. Then she has
9 some diarrhoea. Then you see at 3 o'clock she has her
10 collapse.
11 So those are the entries in relation to fluids.
12 There's also, if we go over the page to 061-017-050,
13 which is the continuation of the nursing record after
14 her collapse, you can see Dr Malik's bleeped by the
15 nurses. He arrives:
16 "IV fluids changed to normal saline and run freely
17 into IV line. Decreased respiratory effort."
18 Then Dr O'Donohoe comes in attendance and the repeat
19 U&Es are ordered then.
20 So if you're looking at her notes and piecing
21 together the information that you've got as to her fluid
22 regime, at any stage when you're doing that do you
23 become concerned as to the fluid regime she's been on
24 at the Erne?
25 A. It seems like a very large amount of fluid just to be

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1 tells you that, and also you've got an entry by the SHO,
2 Dr Malik, at 3.20, and he says that 500 ml of normal
3 saline have been administered to her over 60 minutes.
4 When you're putting together some of this information,
5 were you still left with not being entirely clear what
6 her fluid regime had been at the Erne?
7 A. Yes. I didn't really understand what that really meant
8 because very often they would hang up a bag of 500 ml of
9 fluid, but it would take some time for that 500 ml to go
10 through and, if this was an emergency, maybe they were
11 just writing down "500" meaning a 500 ml bag was
12 erected. But it would be -- it's difficult just to
13 understand what that actually meant. Was 500 ml flowing
14 through in an hour or was it that the 500 ml bag was put
15 at that stage?
16 Q. We can pull this up alongside it, 061-017-048, which is
17 another part of her notes that was faxed. This is her
18 clinical notes. You can see in relation to the 3.20
19 entry Dr O'Donohoe's come because she has developed
20 respiratory arrest:
21 "Passed large foul-smelling stool."
22 Then you see immediately under that:
23 "Normal saline, 500 ml, given over 60 minutes."
24 And then other things follow from that and she's
25 transferred to ICU. So if you've got that sort of

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1 running straight in. I don't know whether they were
2 using like a drip counter or how they were actually
3 monitoring the 100 ml an hour or 500 ml an hour, but it
4 certainly seems quite excessive.
5 Q. So even though you may not be in a position to say what
6 the consequences of that might be and you might want to
7 be hearing what the consultants would say about that,
8 but to you as a registrar you're saying that seemed
9 excessive, it's something you didn't entirely
10 understand, if I can put it that way?
11 A. Yes.
12 Q. Not a regime that would be familiar to you?
13 A. No, no.
14 Q. And perhaps, if I may also say, not one that you
15 yourself, if you had the prescribing of it, would have
16 prescribed?
17 A. No, no, definitely not.
18 Q. Is it though something that when you do have access to
19 your consultant, you just might like to raise and see if
20 you have got the wrong end of the stick and see if
21 there's something perfectly explicable as to how these
22 fluids have been prescribed to the child?
23 A. Yes, and I don't specifically remember, but I remember
24 generally conversations about her fluid management at
25 that time in paediatric intensive care.

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1 THE CHAIRMAN: I understand entirely why, so many years
2 later, you don't remember the exact conversations, but
3 in terms of the general conversations to what effect
4 were those conversations?
5 A. I think none of us would be bang into this regime as
6 being appropriate. We felt it was excessive.
7 THE CHAIRMAN: And apart from you, who was involved in those
8 conversations at the different times? Would Dr Crean
9 have been one of the people?
10 A. I'm aware that Dr Crean would have done the ward round
11 the day she was admitted, but I am not sure if I was
12 physically there at that time. I was more with
13 Dr Hanrahan because I was his registrar in my sort of
14 day job.
15 MS ANYADIKE-DANES: I do appreciate it's a long time going
16 back and much has been read, probably, since then, but
17 so far as you can recall, was there any kind of level of
18 concern about what had happened in terms of Lucy's
19 treatment at the Erne?
20 A. I think there was significant level of concern, but
21 whether the fluids were the whole story or not, whether
22 there was something else going on ... Because I think
23 if the fluids alone had caused her rapid collapse,
24 we would have had expected the subsequent sodium levels
25 to actually be a lot lower than what we were told they

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1 but when I read through that I kind of feel this all
2 happened at that same time when her fluids were changed,
3 you know, they were worried about her airway, started
4 bagging her, and repeated the bloods. That all happened
5 within that short period of time, not an hour later.
6 THE CHAIRMAN: Can I just take this in stages with you to
7 see exactly, insofar as you can pin this down, which
8 bits caused great concern? First of all, the initial
9 prescription of Solution No. 18 at 100 ml an hour; does
10 that volume of Solution No. 18 seem to you to be
11 problematic?
12 A. I think what they were trying to calculate is what she
13 would need in terms of maintenance plus replacement
14 fluid and whilst that was probably a bit more than what
15 we would have calculated, given a child with severe
16 dehydration, it maybe wasn't that excessive but we would
17 have used a different fluid for replacement.
18 THE CHAIRMAN: So there was arguably more fluid than she
19 needed, but not drastically so?
20 A. Yes.
21 THE CHAIRMAN: But the type of fluid she was receiving,
22 Solution No. 18, was not appropriate?
23 A. No, not appropriate for replacement fluid.
24 THE CHAIRMAN: So then you come to Dr O'Donohoe being called
25 in and he then gives, according to this, 500 ml of

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1 were.
2 Q. Well, would you have expected that if her serum sodium
3 levels had been taken from bloods after she had received
4 a significant amount of normal saline? Could that have
5 affected them?
6 A. Yes, that certainly could have affected them and so
7 would the site of where the bloods might have been taken
8 from. If they were taken from the same arm she was
9 getting her intravenous fluids, things like that. So we
10 didn't know a lot of that detail, and I wasn't aware of
11 the fact that the second set of blood tests were taken
12 after she had received normal saline. I had assumed
13 that they were taken at the time she collapsed at 3 or
14 3.20.
15 Q. Yes. Although if you look at the order in which it is
16 written up in the nurse's note, that does seem to
17 indicate that the normal saline went in, so IV fluids
18 changed to 0.9 per cent saline, run freely into IV, then
19 she has her decreased respiratory effort, which is noted
20 at 3.20, the airway is inserted, bagging starts.
21 Dr O'Donohoe is now in attendance. Then the repeat U&Es
22 are ordered. So looking at that sequence it would seem
23 that the bloods that produced that 127 serum sodium
24 result were taken after she had had the normal saline.
25 A. Well, in retrospect, obviously that is what happened,

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1 normal saline in an hour?
2 MS ANYADIKE-DANES: No, Mr Chairman, I don't think that is
3 the evidence. It's not Dr O'Donohoe that gives 500 ml;
4 the evidence seems to indicate that Dr Malik started it
5 in response to the diarrhoea at 2.30. And by the time
6 Dr O'Donohoe gets in at 3.30-ish, that 500 ml bag is
7 virtually complete.
8 THE CHAIRMAN: Right. Does this now become the reverse,
9 that the type of fluid she's receiving is appropriate?
10 A. Normal saline would be appropriate, but it's probably
11 excessive volume.
12 THE CHAIRMAN: Is there any "probably" about the excessive
13 volume? To receive 500 ml in an hour ...
14 A. Yes, it's certainly excessive because she's already had
15 treatment for -- I think what they would have termed the
16 bolus resuscitation fluid, I think they had anticipated
17 that would be 100 ml followed by 30 ml an hour, but that
18 seems to have been continued as 100 ml an hour.
19 MS ANYADIKE-DANES: Can I please start in this way: I think
20 when you were giving evidence earlier, an important
21 point in the fluids, I think you were saying, is really
22 whether the child starts with a deficit which has to be
23 addressed because that makes a difference.
24 A. Yes.
25 Q. If you are just maintaining the child, that's one thing,

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1 but if the child is already dehydrated, that's another
2 thing. That needs to be addressed, meantime you do need
3 to be providing maintenance fluids.
4 A. Mm-hm.
5 Q. So that's your first question: do we have a dehydrated
6 child or not? Then, "If we do, how dehydrated is the
7 child?" Would that be appropriate?
8 A. Yes.
9 Q. You, I think when you were answering the chairman, had
10 been of the view that she might have been quite
11 significantly dehydrated. Is that the view that you had
12 at the time or is that the view that some of the
13 consultants had which you're now reciting for us as
14 a common view that was held as her state of hydration?
15 A. I think it was perceived that she was dehydrated, but if
16 her mouth was moist, that probably didn't come under the
17 severe category; she would have been moderately
18 dehydrated.
19 Q. In fact Dr Sumner, who was the expert for the coroner,
20 produced a report dealing with that. We can pull up the
21 relevant bit where he discusses that. 013-036-139. You
22 can see that in the middle bit of the page:
23 "It is difficult to judge exactly how dehydrated
24 Lucy was on admission. A capillary refill time in
25 excess of 2 seconds is one sign of approximately

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1 point.
2 I'm going to try and help you with the information.
3 If it turns out it's too confusing and you can't hold it
4 in your mind, then we'll have to do it another way. The
5 schedule that we had put together was to deal with both
6 the maintenance rate and a replacement rate, depending
7 on what anybody thought her dehydration level was. So
8 the maintenance rate, using the Holliday-Segar formula,
9 which you'll be familiar with, based on her weight --
10 here it comes, thank you very much indeed.
11 So you can see the maintenance rate there, based on
12 her weight of 9.14, as we're dealing with the situation
13 at the Erne, she would have required 914 ml a day, which
14 equates to 38 ml an hour if you're just going to
15 maintain.
16 A. Yes.
17 Q. Would that seem within reasonable bounds for you?
18 A. Yes.
19 Q. Then if we look at the dehydration, depending on what
20 you assume her deficit to be, we've got three
21 contenders, and if one -- 5 per cent, which is where
22 Dr Sumner thought she might have been, 10 per cent might
23 be the upper end of it, and if you just take the middle,
24 7.5 per cent, then based on her weight, the formula
25 seems to be that you achieve 686 ml a day, which equates

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1 5 per cent dehydration. However, this sign is likely to
2 be hard to interpret in a febrile child [which you
3 noted]. At this level of dehydration mucous membranes
4 are dry, but it was noted that Lucy's tongue was moist.
5 I think, on balance that she was mildly dehydrated,
6 perhaps somewhat less than 5 per cent, involving a fluid
7 deficit of approximately 350 ml."
8 That is his position. Would you accept that
9 rationale, if I can put it that way?
10 A. Yes, that would be entirely appropriate.
11 Q. So if we've got that, so she is a bit dehydrated, but
12 not maybe significantly so. Then in terms of helping
13 the chairman with trying to see your response to the
14 levels of fluid and types of fluid that you are picking
15 out, if I can put it that way, from the notes that are
16 faxed, I wonder if I could provide this? Firstly, it's
17 a comparative schedule of those who have commented on
18 her fluids so you can see what others have said.
19 325-007-001. (Pause). We can do it another way. Let's
20 look at 325-010-001.
21 THE CHAIRMAN: Could you check that again? Because I think
22 some of this documentation was called up yesterday
23 in the opening. 007 wasn't called up yesterday.
24 MS ANYADIKE-DANES: Let's do 325-010-001 because that was
25 definitely called up. (Pause). I'll come back to that

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1 to 29 ml an hour, which isn't so far off that 30 ml
2 figure that you saw.
3 Then you add the two together because she needs to
4 be maintained while she's being replaced, if I can put
5 it that way --
6 A. Yes.
7 Q. -- and that produces 67 ml an hour.
8 A. Yes.
9 Q. What she actually got was 100 ml an hour of
10 Solution No. 18. So if you are trying to -- and it does
11 take a bit of working out -- work out what was an
12 appropriate regime, even without getting to this level
13 of detail, doesn't it strike you that what she was on
14 at the Erne just didn't make sense?
15 A. No, it didn't make sense.
16 Q. Thank you. Dr Crean's evidence at the inquest -- which
17 I don't think you attended.
18 A. No.
19 Q. Dr Crean attended the inquest, and one of the comments
20 that he made was -- and the reference is 013-021-074.
21 A concern for him was the actual drop in serum sodium
22 level. You can see it there towards the bottom, firstly
23 he was concerned that her notes hadn't come with her,
24 which he would have wanted and he felt he needed. Then
25 he says:

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1 "The drop from 137 to 127 would ring alarm bells."
2 That's irrespective of knowing where the 127 comes
3 in terms of the administration of normal saline. Was
4 that a drop that to you was a concern?
5 A. I remember thinking that it was certainly a drop, but
6 I had seen lower levels than that, and I would have been
7 very much guided by the consultant, my consultant
8 colleagues, Dr Hanrahan and the anaesthetists, who felt
9 that it wasn't a significant enough drop to cause such
10 consequences that they would have expected an even wider
11 gap in the two sodium levels. So I can't remember what
12 I would have thought at that time. I would have very
13 much been guided by what their interpretation of that
14 result was.
15 Q. He goes on to say that the rate of fall is the crucial
16 factor, so it's not just that you end up at 127; it's
17 how quickly you get to 127.
18 A. Yes.
19 Q. He thought was important. And he regarded that fall as
20 being within a short period of time. Did you think that
21 she'd had a fall of 10 millimoles an hour within a short
22 period of time?
23 A. I suppose I thought that was at least four or five hours
24 between the two blood samples and it was significant,
25 but whether significant enough to cause the collapse,

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1 Q. So is the upshot of all of this that everybody would
2 have had a concern about her fluid regime and the big
3 question though is what were the implications of it in
4 terms of her condition as she presented at the
5 Children's Hospital?
6 A. Yes.
7 THE CHAIRMAN: Just to emphasise a point, or just to confirm
8 a point you made a few minutes ago, that you recall the
9 general conversation around PICU was that the fluids
10 given in the Erne were not appropriate. You related
11 that to you talking to Dr Hanrahan I think; isn't that
12 right?
13 A. Yes, I worked mostly with Dr Hanrahan.
14 THE CHAIRMAN: Am I right in picking up the impression from
15 you that it wasn't just you and Dr Hanrahan talking
16 along these lines?
17 A. No.
18 THE CHAIRMAN: And I've already heard this morning from
19 another doctor who was thinking along these lines.
20 Would I be wrong in picking up the impression that it
21 was recognised reasonably quickly in PICU that the way
22 that Lucy had been treated in the Erne in terms of her
23 fluid management was inappropriate?
24 A. Yes, I think that's correct.
25 MS ANYADIKE-DANES: Thank you very much.

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1 I don't know.
2 Q. So what you're saying is that you would have been guided
3 by what your consultant said?
4 A. Yes.
5 Q. You note it, but in terms of its implications you'd have
6 been guided by what Dr Hanrahan thought?
7 A. Yes.
8 Q. He does go on to say the very thing that you've been
9 talking about, which is to criticise the use of
10 Solution No. 18 for replacement and maintenance
11 purposes. He then says that using only one fluid,
12 No. 18, had the potential to lead to hyponatraemia.
13 Would you have known that at the time?
14 A. I probably would because in children like this we quite
15 often had two intravenous lines, one for maintenance
16 fluid and the other for replacement fluid, and we might
17 have used concurrently two different fluids in the same
18 child. So I think I would have been aware of fluid
19 shifts and biochemical abnormalities.
20 Q. What you have just said there is exactly what Dr Crean
21 says over the page at 013-021-075. He said you should
22 have had one fluid for deficit and one for maintenance
23 and monitoring and that's what you would have
24 understood?
25 A. Yes, two IV lines going --

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1 If we move forward a little bit, I want to ask you
2 about the contact with the coroner's office. You would
3 have seen Dr Hanrahan, who is your consultant, has
4 inserted in Lucy's notes that if she does succumb then
5 a post-mortem -- but in any event, the matter would have
6 to be reported to the coroner. Did he discuss that with
7 you, that that's what he thought was going to have to
8 happen when she succumbed?
9 A. As far as I can remember, she came on Thursday
10 morning --
11 Q. Yes.
12 A. -- and he saw her on Thursday afternoon and I think
13 maybe his notes were written in the late afternoon.
14 Q. No, he actually saw her at 10.30, the first time he saw
15 her. He had been asked to see her by Dr Crean actually,
16 and he saw her then, and he made quite a full note at
17 that stage. We don't have to look at it, but for
18 reference purpose it starts at 061-018-060. On his
19 examination he noted that the reflexes were present but
20 diminished, and I think his evidence had been that he
21 really thought that there was no coming back from where
22 she was.
23 He didn't at that time identify a clinical cause for
24 why she was in that state, but he wanted a number of
25 tests carried out. Then Dr McKaigue enters his note,

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1 but from his examination in the morning. Dr Chisakuta
2 comes in and inserts a central line. Dr Hanrahan comes
3 again in the afternoon --
4 MR McALINDEN: Mr Chairman, just in relation to the sequence
5 of events, it has been described here in relation to the
6 clinical management of this patient: the line that was
7 inserted by Dr Chisakuta was inserted at a much earlier
8 stage. That was when Dr McKaigue had asked Dr Chisakuta
9 to assist, and that was around the time of the change of
10 staff at around 8.30. I think that's when the central
11 line was put in. I don't think that Dr Chisakuta was
12 involved with this patient on the 13th after Dr Hanrahan
13 had seen the patient.
14 MS ANYADIKE-DANES: I think that's right. Thank you very
15 much.
16 THE CHAIRMAN: It's about 1.50 pm that the central line is
17 inserted --
18 MS ANYADIKE-DANES: That's when he writes his note,
19 Mr Chairman. I think my learned friend is right.
20 MR McALINDEN: That is when he wrote his note, but the
21 actual insertion of the line was much earlier.
22 THE CHAIRMAN: Thank you.
23 MS ANYADIKE-DANES: Yes, in fact he says it in the note at
24 061-018-064. He says:
25 "Line inserted between 8.35 to 8.50 hours."

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1 he was probably not on call that evening, and if
2 something had happened to Lucy during the night he had
3 spoken to her parents that she was not to be
4 resuscitated and that if -- it's really having a plan of
5 action in place for the people responsible who were on
6 call on Thursday night into Friday morning: if she had
7 an acute deterioration and she was clinically dead, that
8 this is the plan to follow. So I think he was just
9 making provision if something had happened to her.
10 Q. So as a result of the way you have put that chronology,
11 he wouldn't have had an opportunity to discuss his
12 reasoning with you, he was just letting you know that
13 was the plan?
14 A. Yes, I wasn't aware because I wasn't there that
15 afternoon; I was back at work the following morning.
16 Q. Would your duties have taken you up to, say, lunchtime?
17 A. Yes. From the previous morning, so that's like
18 a 27-hour shift.
19 Q. So you would have been there when he had his 10.30
20 visit, if I can put it that way?
21 A. I think I was with him at that time.
22 Q. So far as you were concerned, had he formed a view then
23 that Lucy really was irretrievable?
24 A. Yes.
25 Q. Was there any discussion about what should happen apart

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1 So McKaigue is there, hands over to Dr Chisakuta,
2 Dr Chisakuta inserts the line, and thereafter
3 Dr Hanrahan comes to see the child and notes seeing the
4 child at 10.30.
5 You of course have already seen Lucy.
6 THE CHAIRMAN: [Inaudible: no microphone]
7 MS ANYADIKE-DANES: Yes. But then Dr Hanrahan comes again
8 in the afternoon, and that might be the one that you
9 were thinking of.
10 A. Yes.
11 Q. Why he's coming then is that he's seen the CT scans.
12 A. Yes.
13 Q. And after that he makes his note and it's in that note
14 he says:
15 "If she succumbs, a PM would be desirable and
16 coroner will have to be informed."
17 So he has looked at the CT scan, he sees what the
18 position is and that is his conclusion. What I wanted
19 to ask you is: he enters that note at 17.45; was there
20 any discussion between the two of you, even if it's just
21 from a learning point of view, as to why that's his
22 view?
23 A. I think the reason he wrote that was because I was not
24 there in the afternoon, I had been on call the night
25 before and I wasn't in the hospital that afternoon,

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1 from, obviously, one has to have tests done and one has
2 to establish certain matters and so forth? But in terms
3 of where this is all going if people are concerned about
4 her fluid regime, was there any discussion with you as
5 to what he thought he would do when she --
6 A. I was aware that she had a list of differential
7 diagnoses and it was very important to try and rule out
8 other causes of her acute collapse and that there would
9 be a procedure in place when a child is in intensive
10 care and is ventilated and perhaps on anaesthetic drugs,
11 et cetera, that there would have to be a time of weaning
12 off all the different agents to actually establish
13 a state of brain death. So it was basically following
14 that, giving that window of time until they would do the
15 brainstem tests.
16 Q. So that's where you thought matters were going and there
17 wasn't really a discussion about what we would do when
18 we get what we think are the inevitable brainstem tests,
19 just that your next step was --
20 A. I think the thought was if she died, the coroner would
21 have to be informed and a post-mortem would be very much
22 desirable to try and work out what had happened.
23 Q. Do you know why he thought the coroner would have to be
24 informed?
25 A. I think just that she had previously been well and it

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1 was such an acute event.
2 THE CHAIRMAN: Sorry, the other obvious part of that answer,
3 which you said earlier, is because there appeared to be
4 a general agreement in the Children's Hospital that
5 things had not been done appropriately in the Erne.
6 A. Yes.
7 THE CHAIRMAN: If a child dies not having been treated
8 appropriately medically, that has to be referred to
9 the coroner, doesn't it?
10 A. Yes.
11 THE CHAIRMAN: So it's both an unexpected death of
12 a previously healthy 17-month old child and it's a death
13 which, to a number of doctors, appears to relate to the
14 treatment she received in another hospital.
15 A. Yes.
16 THE CHAIRMAN: So for either of those reasons, it goes to
17 the coroner?
18 A. Yes, that would have been my expectation.
19 MS ANYADIKE-DANES: Your next note is when you come back on
20 duty the next day and you record an entry at 11.30,
21 which is 061-018-067. You're recording what the next
22 step is, and at this stage it's that:
23 "Coroner (Dr Curtis on behalf of the coroner)
24 contacted [by Dr Hanrahan]. Case discussed. Coroner's
25 PM is not required [which you underline], but hospital

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1 have recorded?
2 A. I think he told me that they just felt that cerebral
3 oedema was a medical condition and to go ahead and
4 organise a consented post-mortem or a hospital
5 post-mortem.
6 Q. Thank you. So then it's for you to draw up the autopsy
7 request form. Is he the one who contacts Dr O'Hara to
8 tell him that we need a hospital post-mortem?
9 A. Yes, that would be a consultant-to-consultant type of
10 conversation.
11 Q. And before that can happen, of course, the parents have
12 to consent to it.
13 A. Yes.
14 Q. Are you involved at that or is that also a consultant
15 responsibility?
16 A. I probably was involved to some extent because I've
17 written in my notes that parents have given their
18 consent, but I think the initial conversation would have
19 come from the consultant to describe what a post-mortem
20 is and to then ask the parents if they were happy to go
21 ahead and organise the post-mortem.
22 Q. At this stage, your consultant is Dr Hanrahan and he's
23 the intensivist, but Dr Chisakuta is also on duty in
24 PICU and he's a paediatric anaesthetist.
25 A. Yes.

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1 PM would be useful to establish the cause of death and
2 rule out other diagnoses. Parents consent for PM."
3 How do you get that information? Is that a
4 conversation you have, do overhear something? How
5 do you get it?
6 A. I would definitely have been relaying the information
7 from my senior consultant. That would not be my own
8 writing and my personal thoughts as a registrar. So
9 I would have been just transcribing on behalf of
10 Dr Hanrahan.
11 Q. Does that mean Dr Hanrahan discussed with what you had
12 happened?
13 A. Yes. He would have told me that he had discussed it
14 with Dr Curtis or the coroner's office and he would have
15 relayed that information to me and then I would have
16 just made notes.
17 Q. Did he express any surprise to you that the case was not
18 moving towards an inquest?
19 A. I can't remember other than what I have written, what
20 exactly he said, but I think he had anticipated that
21 it would be a coroner's post-mortem and I can't
22 recollect, other than what I've written, what he said to
23 me.
24 Q. If he had told you why the case wasn't to proceed as
25 a coroner's case, is that something you think you would

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1 Q. So far as you're aware is there any discussion between
2 those two consultants who are both managing Lucy, if I
3 can put it that way?
4 A. Dr Hanrahan was the neurologist.
5 Q. I beg your pardon, the neurologist.
6 A. As far as I'm concerned, I was working with him as his
7 registrar and I wasn't an intensivist registrar, so
8 I was really working with Dr Hanrahan, but I was aware
9 that the anaesthetists in PICU were looking after Lucy
10 and I wasn't ... I think they were happy about the way
11 things were managed in terms of, yes, go ahead and
12 contact the coroner's office.
13 Q. That's what I meant. Were you aware of any discussion
14 between the two of them about what should be being done,
15 if I can put it that way?
16 A. I don't remember specific conversations, but that was
17 the general thought that, yes, we're going to go ahead
18 and contact the coroner.
19 Q. And then when it comes to the hospital post-mortem, so
20 having contacted the coroner and that having not
21 produced an inquest, are you aware of discussions
22 between your consultant and Dr Chisakuta about
23 a hospital autopsy?
24 A. I don't remember anything specifically between
25 Dr Hanrahan and Dr Chisakuta. I remember Dr Hanrahan

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1 contacting Dr O'Hara, who was the pathologist, and that
2 would have been one consultant to another consultant, to
3 organise the hospital post-mortem.
4 Q. And are you aware of why your consultant wanted
5 a hospital post-mortem?
6 A. I think when there wasn't going to be a coroner's
7 post-mortem, he felt that we need to explore further to
8 look for causes of why she died. So that would be very
9 desirable -- I think is the term he used -- to have
10 a hospital post-mortem.
11 Q. Does that mean at that stage your consultant, so far as
12 you're aware, didn't have a clear cause of death?
13 A. Yes, he knew she had died because she had coned and had
14 cerebral oedema, but what had triggered that process --
15 Q. He didn't know that?
16 A. No.
17 Q. And, if you're going to fill in a medical cause of death
18 certificate, you need to know that?
19 A. Yes.
20 Q. Thank you. Then if we go to your autopsy request form,
21 if we pull up two pages together, 061-022-073 and next
22 to it 061-022-075. The bit I have missed out is the
23 note where you talk about organ donation.
24 A. Yes.
25 Q. So here's the first page where you summarise the

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1 see that maybe further information would have been
2 useful and very helpful, but at the time I tried to fill
3 it out to the best of my ability. It's not a very
4 comprehensive form and I was aware that her notes would
5 go with her to the autopsy.
6 Q. Before we come to that point, the pathologist,
7 obviously, is looking at the state of the body and what
8 is there as evidence after the death. You would know
9 that the issues to do with fluid balance and so forth
10 are not something that can easily be detected from the
11 body at death.
12 A. Yes.
13 Q. So if the pathologist is going to be alerted to that to
14 try and see whether that is part of or fits in with the
15 evidence that he's got, then he really needs to be told
16 that because he won't see the evidence, say for example,
17 of her serum sodium levels being 127 at 3.30 on the
18 morning of the 13th. He won't see the evidence of that.
19 A. No.
20 Q. So if her fluid management regime is going to be
21 relevant, then the clinicians need to tell the
22 pathologist that sort of thing; do you recognise that?
23 A. Yes.
24 Q. You said that you were aware that her notes would go
25 with the autopsy request form; did you send the notes?

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1 clinical presentation and history of the present illness
2 and investigations and so on, and then the second page
3 where you list the clinical problems that you're drawing
4 to the attention of the pathologist who's going to carry
5 out the post-mortem.
6 Before this form goes, do you have any discussion
7 with Dr O'Hara at all about Lucy clinically?
8 A. As far as I can remember, my only discussion with
9 Dr O'Hara, the pathologist, was to tell him that her
10 family had requested her heart to be retrieved for organ
11 donation, but I did not speak to him about what
12 Dr Hanrahan had already discussed with him, which is why
13 she was having a post-mortem.
14 Q. I see. Then the information that you set out in this
15 form, where does all that information come from?
16 A. I would have taken that straight from her clinical case
17 notes.
18 Q. So you've inserted that she got her IV fluids,
19 Solution No. 18 and normal saline. Did you think it
20 might help the pathologist to know anything about the
21 sort of thing that had been of concern generally to the
22 treating clinicians, namely something about the fluid
23 regime?
24 A. Other than what I've written here, I can't remember what
25 my thoughts were at the time. In retrospect, now I can

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1 A. I personally don't remember having anything to do with
2 her remains going for autopsy. I just remember filling
3 in the form.
4 Q. My understanding is that the notes did not go with the
5 autopsy request form. I think you might specifically
6 have been asked that. We'll check it and see. Did
7 I understand you to say though that you would have
8 intended her notes to go?
9 A. Yes, I think that would have been normal practice for
10 notes to have gone.
11 Q. We'll check that, but I think we specifically asked that
12 question and I think the answer was that nothing else
13 went. In addition to Lucy's notes, there's her X-rays
14 as well. Would you have expected the X-rays to go?
15 A. I would have expected them to go.
16 Q. Lucy had X-rays from the Erne. Did anybody ever ask for
17 those X-rays?
18 A. I don't know.
19 Q. Would you have thought that they would be relevant for
20 the pathologist to have? She had chest X-rays done
21 at the Erne, which were normal. She also had chest
22 X-rays taken while she was at PICU. Would you have
23 thought it relevant to the pathologist to effectively
24 see perhaps the before and after, if I can put it that
25 way?

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1 A. I would have expected all the information to go with her
2 body to the autopsy.
3 Q. But for the Erne X-rays to go, they'd have had to be
4 asked for?
5 A. If the Erne X-rays had come to PICU, then that
6 information, together with her notes, would all have
7 been -- I would have expected them to have gone with her
8 for post-mortem.
9 Q. Do you think PICU should have asked for her Erne X-rays?
10 A. Yes. That would be quite normal practice.
11 Q. There doesn't seem to have been a request for her Erne
12 X-rays.
13 A. Okay.
14 Q. Did you see the post-mortem report when it came back?
15 A. Very retrospectively. Just when I was asked to answer
16 questions for the inquiry.
17 Q. Yes, because you'll see in that post-mortem report that
18 Dr O'Hara said he saw evidence -- and he lists the
19 X-rays and other examinations -- of bronchopneumonia,
20 really, so he has seen evidence of fluid in her lungs.
21 A. Mm-hm.
22 Q. It might, in those circumstances, have been relevant for
23 him to see what the state of her lungs was when she was
24 X-rayed earlier because the inquiry's experts have said
25 that a child being on a ventilator can in fact produce

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1 A. Yes. And some of these children are going straight from
2 Accident & Emergency and then they become an acute death
3 for whatever reason, they're going to a coroner's
4 inquest, so we make sure all the information is there.
5 THE CHAIRMAN: Like a car accident or something?
6 A. Or a cot death.
7 THE CHAIRMAN: But in a case like Lucy's where it is
8 recognised in the Royal that there are real concerns
9 about what happened in the Erne, it's all the more
10 important for the late Dr O'Hara to have received all
11 the assistance he could possibly have got?
12 A. Yes. I would just assume that the information that we
13 had would have gone with her for the autopsy.
14 THE CHAIRMAN: And it might also have helped in this context
15 if anybody had been able to go to be present while he
16 conducted the post-mortem.
17 A. That is a practice that I was not aware of, either being
18 invited or expected to be there.
19 THE CHAIRMAN: I think, to be fair, it would have been more
20 the consultant who was expected to be there. For
21 instance I know that, in Adam's case, Professor Savage
22 made a point of being at the post-mortem because he was
23 in charge of the service and he had looked after Adam
24 for a number of years, so he made it a point to be
25 at the post-mortem to see what had gone wrong.

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1 some of those effects that might otherwise be considered
2 to have resulted from some sort of bronchial infection.
3 A. Yes.
4 Q. So him not having those X-rays might have been relevant
5 for the view he took as to how long she'd been
6 presenting like that.
7 A. Yes.
8 Q. You can see that?
9 A. Yes.
10 Q. So if you didn't send Lucy's notes with the autopsy
11 request form, would you consider that to be an omission?
12 A. I'm not sure what the procedure was at the time in the
13 Children's Hospital, whose job it would be to see that
14 those procedures were in place.
15 THE CHAIRMAN: In Antrim, if you want a post-mortem done,
16 whose responsibility is it to send all the relevant
17 information to the pathologist?
18 A. First of all, it's a very uncommon thing to request
19 a post-mortem. For those that I have been involved with
20 as a consultant, I would certainly take responsibility
21 for whatever notes, et cetera, are going with the child
22 or see to it that some of the juniors or indeed the
23 nursing staff would make sure all that information was
24 together for the pathologist.
25 THE CHAIRMAN: To make the pathologist's job easier?

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1 The reason for a consultant being present for
2 Dr O'Hara in this case is rather different. The reason
3 for a consultant being present in this case is because
4 it's recognised among the PICU staff in the Royal that
5 a finger is pointing towards the Erne; isn't that right?
6 A. Yes.
7 THE CHAIRMAN: So whatever criticisms may be made and have
8 been made in some of these experts' reports about
9 Dr O'Hara, if he didn't have the records and he didn't
10 have any of the consultants with him, he didn't have the
11 advantages that he should have had in conducting the
12 post-mortem; isn't that right?
13 A. Yes.
14 THE CHAIRMAN: Thank you.
15 MS ANYADIKE-DANES: The form which was sent for an earlier
16 child, Claire Roberts' hospital autopsy, that was in
17 1996. Just as in your form, it has investigations -- do
18 you see where you have "investigations include [and so
19 on]? Under that form it indicates that the notes
20 follow. It says, "See charts", and they were attached.
21 So that was, in 1996, what was happening.
22 During the course of that case we asked the
23 pathologists, Dr Herron and Dr Mirakhur, who were
24 carrying out the autopsy, we asked them and they said
25 they expected the clinical notes, if they didn't

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1 literally go with the autopsy request form, to be
2 provided to the pathologist. In fact, it turns out that
3 it's an important part of the pathologist's duties to
4 ensure that they've got the correct clinical details, if
5 I can put it that way. So they were quite clear, as
6 were the inquiry's experts, Dr Squier and
7 Professor Lucas, that the notes should go. Were you
8 aware of any guidance at all to help you as to how you
9 filled in that form?
10 A. Not specifically. I think it was just one of my jobs as
11 a registrar and in filling out the form I would have
12 anticipated that all her medical notes would also have
13 gone with her and that this form was really to summarise
14 her clinical course and to highlight the abnormal
15 investigations, which I did, of the fall in her sodium,
16 her CT scan, her EEG, which --
17 Q. Yes, but if you're not going to do it as you draw up the
18 autopsy request form, what's the mechanism of Lucy's
19 clinical notes getting to the pathologist?
20 A. I'm not sure what the mechanism was at the time.
21 I don't know what procedure -- whether it was a job for
22 the consultant in charge or whether it was the --
23 whoever was in charge from the nursing point of view or
24 whether it was somebody from the mortuary coming to get
25 the body to make sure they had all the relevant

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1 were some in August 1991. They might have been the ones
2 that were current at the time. Did you know that?
3 A. I don't think I was aware of that.
4 Q. I have just found the bit that I wanted to take you to.
5 It's in your first witness statement, 282/1, page 10.
6 It's in answer to question 18:
7 "Did you provide Dr O'Hara with any other documents
8 or copies of documents apart from the autopsy request
9 form. If so, identify what additional documents or
10 copies of documents you provided him."
11 You answer:
12 "No other documents were provided to the best of my
13 knowledge. I cannot remember any additional forms."
14 So --
15 A. What I have meant there is that I did not fill out any
16 other form for the autopsy apart from the ones that were
17 there, and I know there was a form or there was some
18 guidance about the organ donation.
19 Q. But it might have been helpful at that stage to say,
20 "I didn't do it, but I fully expected they would have
21 got there".
22 A. I anticipated that the notes had been sent.
23 Q. Thank you.
24 THE CHAIRMAN: I think the witness was working on an
25 assumption, which may have turned out not to be

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1 documentation.
2 Q. But if you're doing the form, would you not have thought
3 it appropriate to at least, even if you didn't
4 physically go and attach the notes, but at least make
5 the arrangement to make sure that the two things end up
6 with the pathologist since you've been given the
7 responsibility by your consultant to fill in the autopsy
8 request form?
9 A. As far as I understood, it was my job to fill in the
10 form and make sure there was a copy of that form in her
11 notes and that form went with her to the autopsy. But
12 it wouldn't have been -- I wouldn't have expected to
13 physically organise sending it and sending the notes and
14 transferring the body. That would be organised by
15 somebody else and I am not sure what the procedure was.
16 Q. So somebody else would arrange for the notes to go?
17 A. With the body.
18 Q. Yes. But just so that we're clear, you are of the view
19 that the notes should go?
20 A. Yes.
21 Q. Did you know that there were guidelines on autopsy and
22 audit, which help in terms of completing the autopsy
23 request form? They're issued by a joint working party
24 of the Royal College of Pathologists, the Royal College
25 of Physicians and the Royal College of Surgeons. There

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1 fulfilled.
2 MS ANYADIKE-DANES: Yes.
3 If we then go back to what your clinical problems
4 were that you had identified. That's at 061-022-075.
5 Can you help us with how you would have arrived at that?
6 A. Sorry, the clinical problem list?
7 Q. Yes.
8 A. I think what I was highlighting at the time was
9 a chronological sequence of events rather than maybe
10 correctly filling in in order of importance. Because
11 I would have known that brainstem death is far more
12 important than diarrhoea and vomiting. So I would have
13 been thinking in a chronological order of events rather
14 than -- to list her clinical problems rather than in
15 order of importance.
16 Q. But actually, what the form wants you to do, for the
17 assistance of the pathologist, is to list the clinical
18 problems in order of importance. That's why I was
19 asking you whether you had any guidance at all as to how
20 to fill in this form.
21 A. I don't remember reading anything on guidance to fill in
22 the form.
23 Q. How many times had you filled in a form like this?
24 A. I don't remember filling in one before that.
25 Q. So this could have been your first one?

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1 A. Yes.
2 Q. And in terms of not reading anything to provide you with
3 any guidance, did Dr Hanrahan assist you with how to
4 fill in a form like this?
5 A. I don't remember if he proofread it after I had written
6 it or not. I can't remember.
7 Q. You were here for part of Dr Chisakuta's evidence. He
8 said, "I wouldn't fill in a form like that, I'm
9 a consultant. My registrar would do it or I would
10 delegate it to a more junior member of the team, but
11 I would certainly give some guidance as to how to do
12 it", because ultimately a consultant bears
13 responsibility for things done by their trainees. So
14 that is why I'm trying to find out whether Dr Hanrahan
15 looked at this list of problems with you.
16 A. I can't remember whether he did or not and now, as
17 a consultant, I would certainly want to either write it
18 myself or read what my junior had written before a form
19 like that went.
20 Q. When you looked at that and you saw, "vomiting and
21 diarrhoea, dehydration, hyponatraemia", and then getting
22 to "seizure", as you wrote it down did you have in your
23 mind how you thought she might have got from dehydration
24 to hyponatraemia to seizure?
25 A. I was probably thinking about the chronology of the

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1 if that's the case then it becomes really quite unclear
2 as to why she's collapsed in the way that she has?
3 A. That is what I think I tried to get across in what
4 information I had on the form, writing down her abnormal
5 results.
6 Q. Except to say that point about the low sodium doesn't
7 reflect Dr Crean's view because Dr Crean also had some
8 management of Lucy and his view is that that drop was
9 significant. Were you aware at all of there being any
10 divided thoughts about how significant the sodium drop
11 was?
12 A. No, and again I was really a paediatric neurology
13 registrar so I would have been mostly working with
14 Dr Hanrahan, but I was not aware of any divided thoughts
15 in her management from the team looking after her in the
16 Royal.
17 Q. I'm going to ask you in a minute about the death
18 certificate, but when you -- throughout the answers that
19 you have given me, you seem to be fairly clear that
20 although there are a number of disciplines in PICU, if I
21 can put it that way, and more than one looks after Lucy
22 while she's there, nonetheless you say, "I'm very much
23 looking towards my consultant and what my consultant is
24 saying", and what I'm going to ask you is, maybe because
25 there wasn't much, you don't seem to be aware of much

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1 events and describing the clinical features. I can't
2 remember, apart from what I've written, you know, where
3 the ... I felt that they certainly were linked, but the
4 term hyponatraemia, in my mind, was basically that she
5 had low sodium level as opposed to a diagnosis.
6 Q. Yes, she had got a low sodium level, but when you wrote
7 that down and you have expressed how there was a general
8 concern about Lucy's fluids, had you tried to figure out
9 even for yourself as a registrar what the connection
10 might be between dehydration and hyponatraemia?
11 A. Apart from the fluid management and -- I would have been
12 very guided as a junior, as a registrar, by what the
13 consultants were feeling, and I think when they felt
14 that it wasn't a significantly low sodium to cause that
15 degree of collapse and cerebral oedema, I wouldn't have
16 questioned what their feeling was about it. But I did
17 know that there was certainly a fall of 10 millimoles in
18 her sodium level and that is why I included it in the
19 form. But I wouldn't have questioned, as a junior, what
20 the consultants were feeling at the time, which was
21 possibly that they would have expected her sodium level
22 to be much lower given the state of the consequences of
23 her cerebral oedema. They felt it wasn't the whole
24 picture.
25 Q. Does that make it all the more concerning then because

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1 multidisciplinary discussion, if I can put it that way,
2 about Lucy and why she's in the condition she is.
3 Is that because there wasn't any?
4 A. I think there must have been some, and to what extent it
5 all happened, that was not my base, so I wouldn't have
6 been there all the time that Lucy was there. I think
7 there was a lot of discussion that maybe didn't get
8 recorded clinically in her notes, but I wasn't aware of
9 any difference of opinion.
10 Q. Was there not, from your point of view, professional
11 interest or inquisitiveness as to how this child, who
12 seemed to be reasonably healthy before she went to the
13 Erne, not very many hours afterwards, comes to the
14 Children's Hospital in a moribund state and everybody's
15 of the view that there is nothing that can be done for
16 her? Are you not interested -- "interested" sounds
17 pejorative and I don't mean it in that way. Are you not
18 interested to find out, from the point of view of your
19 own learning, what happened?
20 A. Yes, and I think that's why we tried to pursue the line
21 of investigations of seeking advice from the coroner,
22 was a coroner's post-mortem going to happen, and then
23 trying to get a hospital post-mortem.
24 THE CHAIRMAN: Sorry, what do you mean by seeking advice
25 from the coroner?

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1 A. Sorry, maybe informing the coroner.
2 THE CHAIRMAN: That's exactly the point we might end up
3 developing over the next few weeks, about whether Lucy's
4 death was actually reported to the coroner or whether
5 there was somehow some variation on that, such as
6 seeking advice from the coroner. It is your
7 introduction this afternoon of the term "seeking advice
8 from the coroner" that intrigues me.
9 A. Yes, and maybe that's not correct because I personally
10 didn't contact the coroner. But I was aware that we
11 felt that she would have a coroner's post-mortem and
12 when the coroner's office was contacted, I was not aware
13 of the fact that if they said, no, we are not going to
14 organise an inquest, you could go back to them later on
15 and discuss it again.
16 MS ANYADIKE-DANES: Well, if you did have a professional
17 interest, if I can put it that way, quite apart from the
18 human one, it's a child that you're helping to care for,
19 why did you not attend the autopsy? There's a place on
20 the form where it specifically says, "Will you or
21 a colleague --
22 THE CHAIRMAN: Ms Anyadike-Danes, that's a consultant's
23 responsibility. I think that's primarily a consultant's
24 responsibility to attend the autopsy. Professor Savage
25 and others have said that before. I don't think if

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1 was conducted that you don't recall seeing the
2 post-mortem report until quite significantly afterwards.
3 A. No, I don't.
4 Q. In fact, in relation to this inquiry, I think.
5 A. Yes, yes.
6 Q. Did you want to know, though, what was in it?
7 A. Well, I was working with the neurologists in the
8 neurology ward and neurology outpatients and so on. I
9 would only been in intensive care when I was on call and
10 if we had other patients in intensive care, so I don't
11 think -- and as a registrar, the report would not be
12 coming to me.
13 Q. No, I understand that, but it would have gone to
14 Dr Hanrahan, your consultant --
15 A. Yes.
16 Q. -- so that's why I ask you: would you have wanted to
17 know what was in it?
18 A. I'm sure I asked him at some point what was the outcome
19 and what were the after events of meeting with Lucy's
20 parents and so on. But I don't remember physically
21 seeing the post-mortem report.
22 Q. Did you know if your consultant, Dr Hanrahan, attended
23 any meetings afterwards to try and refine what the cause
24 of death might be? We've heard them referred to as
25 clinicopathological correlation attempts, when the

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1 Dr Hanrahan doesn't ask this witness to attend the
2 autopsy and he, as a consultant, doesn't attend and
3 Dr Chisakuta doesn't attend, I don't think it's really
4 primarily for this witness to put herself forward.
5 MS ANYADIKE-DANES: Thank you, Mr Chairman. Let me put that
6 in a different way.
7 You fill in this form because you're asked to by
8 your consultant, there's a place in this form where it
9 says:
10 "Will you or a colleague be attending the review
11 session/attending the autopsy itself?"
12 How did you know to put "no"? Is that because
13 Dr Hanrahan had told you that he didn't want to go?
14 A. I don't know. Maybe we did have some discussion,
15 I don't remember. I certainly was not anticipating
16 being there myself.
17 Q. I understand that.
18 A. I can't remember whether I discussed that with him or
19 not.
20 Q. Are you likely to have indicated "no" without having
21 discussed it with him? It doesn't have to be you, it
22 could be a colleague. Are you likely to have done that
23 without discussing it with him?
24 A. I am sure I discussed it with him.
25 Q. Thank you. I think you said that when the post-mortem

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1 pathologists meet with the clinicians and pool their
2 information, if I can put it that way, and see if they
3 can come up with a cause of death in a hospital
4 post-mortem. Were you aware if they did that?
5 A. I'm aware of the meeting, I think it was August, in the
6 Children's Hospital, when they discussed --
7 Q. The audit meeting?
8 A. Yes, but I had moved to another job because I wasn't
9 working in the Children's at that stage.
10 Q. How did you become aware of that meeting?
11 A. Just through the inquiry.
12 Q. You weren't aware at the time?
13 A. No.
14 Q. So far as you can recall, you weren't aware of
15 Dr Hanrahan attending anything in the immediate
16 aftermath of the post-mortem?
17 A. No. I am aware that he met with her parents and
18 I remember him specifically saying to them you have to
19 go back to the Erne to ask them.
20 Q. Why do you remember that? Is that --
21 THE CHAIRMAN: To ask them what?
22 A. To ask them what they felt happened to Lucy, that it was
23 some -- an acute problem in the Erne.
24 THE CHAIRMAN: And this is what Dr Hanrahan told you he told
25 the Crawfords?

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1 A. Yes.
2 MS ANYADIKE-DANES: I was going to ask you why you remember
3 that. I take it you weren't there.
4 A. No.
5 Q. But he told you that that is what he had done?
6 A. Well, he said to them when they were in intensive care,
7 when Lucy was there, but he also met them after her
8 death at some point, weeks after her death, and he --
9 Q. He did. I'm just trying to establish the source of your
10 information. Were you there in PICU when he met the
11 parents?
12 A. Yes.
13 Q. When he met the parents in PICU, did he say anything
14 about his concerns about her treatment, if I use it
15 loosely like that, at the Erne?
16 A. He said you have to go back and ask the Erne about their
17 treatment.
18 Q. Do you remember that?
19 A. Yes, I remember him saying that.
20 Q. Did he give them any indication as to why he was
21 suggesting they did that?
22 A. I just remember him saying that you have to ask
23 Dr O'Donohoe in the Erne Hospital. That's all
24 I remember.
25 Q. You actually remember him saying you'll have to ask

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1 that something amiss had happened with Lucy's
2 treatment --
3 A. Yes.
4 Q. -- in the Erne and that centred around her fluid
5 management regime.
6 A. Yes.
7 Q. What I am trying to see is if your consultant is
8 suggesting to the parents that really, if they need to
9 go back to the referring hospital to ask questions of
10 Dr O'Donohoe, is he giving them any kind of clue so far
11 as you can recollect as to what they might be asking
12 Dr O'Donohoe?
13 A. I don't remember specifically. I suppose that would
14 include all the treatment she received, including the
15 drugs, for example the intravenous antibiotics and the
16 mannitol and her IV fluids.
17 Q. Did anybody think there was anything wrong with the
18 antibiotics and the mannitol?
19 A. Only that if she had developed an acute drug reaction or
20 some -- to cause her acute collapse.
21 Q. Did anybody think she might have developed an acute drug
22 reaction?
23 A. I think that was raised by the Erne Hospital in some of
24 the information I read.
25 Q. No, I mean from the Children's Hospital --

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1 Dr O'Donohoe?
2 A. Yes.
3 THE CHAIRMAN: I've got mixed up. Were you there with him
4 when he said that to the Crawfords or is this what he
5 told you?
6 A. No, I remember him saying that when she was in intensive
7 care.
8 MS ANYADIKE-DANES: This is before she's died?
9 A. Yes.
10 Q. So there's a meeting then when he's expressing his
11 concerns about her general condition and the fact that
12 she's not going to survive --
13 A. Yes.
14 Q. -- and you're present and he says you'll have to go back
15 to the Erne and talk to Dr O'Donohoe as to what happened
16 to her?
17 A. Yes.
18 Q. Did he give any indication at all as to what they might
19 be asking Dr O'Donohoe?
20 A. I can't ... I just remember him trying to tell them to
21 go back to the Erne with their questions, but I can't
22 remember what the family were particularly asking.
23 Q. Leaving aside what they were particularly asking, as
24 I understood you in your answers to some of my
25 questions, and to the chairman, there was a general view

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1 A. From the Children's Hospital?
2 Q. Did anybody at the Children's Hospital think that she
3 might have developed an acute reaction?
4 A. No, I don't remember.
5 Q. So then why would he be telling them that?
6 A. I don't remember what -- all he was saying. He
7 specifically said, "You need to ask the Erne, you need
8 to go back there where they've been ..."
9 THE CHAIRMAN: Sorry, there's a very simple thing to say to
10 the Crawfords. That is: there's a concern in the Royal
11 that Claire [sic] got too much of the wrong fluid and
12 that that may have contributed to her death. Given your
13 recollection of Dr Hanrahan speaking to Mr and
14 Mrs Crawford, was that said to them?
15 A. I don't remember that specific --
16 THE CHAIRMAN: No, but that was the specific concern in the
17 Royal, wasn't it?
18 A. Yes.
19 THE CHAIRMAN: And if you're going to send parents back to
20 another hospital on any meaningful basis for them to
21 make enquiries, instead of just saying in a very
22 general, vague way, "You need to go back and ask how
23 Lucy was treated". What is wrong, what could possibly
24 be wrong with steering the Crawfords to raise the
25 specific point with the Erne which concerned the Royal?

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1 A. Yes. Again, he may have outlined that more clearly and
2 succinctly and I wasn't always present with the
3 conversations, nor was I present when he met them
4 afterwards.
5 THE CHAIRMAN: I have to say, doctor, I suspect that if
6 he had outlined that clearly and succinctly, that is
7 something that would stick in your mind.
8 A. Yes, possibly.
9 THE CHAIRMAN: Thank you.
10 MS ANYADIKE-DANES: Then if we come to the death
11 certificate. Dr O'Donohoe says in his note,
12 061-018-068, he's tasked by Dr Hanrahan to write up the
13 medical cause of death certificate. In the course of
14 that, he says:
15 "Spoke to Dr Stewart. Had been waiting for PM
16 result."
17 According to his evidence, the family were anxious
18 about receiving the medical cause of death certificate.
19 And it so happened that he took that call or he got that
20 information and he spoke to you. That's the note he
21 records. You say in your evidence that you don't
22 remember him speaking to you. But if he's recorded it,
23 do you accept that that's likely it happened?
24 A. Yes, I accept that the "Dr Stewart" probably applies to
25 me.

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1 Q. If you had seen it, what would you have thought of the
2 box "cause of death"?
3 A. I probably would have agreed that she died of cerebral
4 oedema, but the contributing to her death was her
5 rotavirus, gastroenteritis, which would have come under
6 the point 2.
7 Q. Yes, and, "Cerebral oedema due to or as a consequence of
8 dehydration"; what would you have thought of that?
9 A. Well, now in retrospect I would have said it was
10 actually her rehydration that caused the cerebral
11 oedema.
12 Q. Do you need retrospect to conclude that being dehydrated
13 without more isn't going to lead to cerebral oedema?
14 A. It's hard for me to look at that now and to think what
15 I would have thought at the time. I don't remember any
16 conversation at all about what to write on this form.
17 Q. Now, but --
18 THE CHAIRMAN: Doctor, at this time, how far away were you
19 from being a consultant? When did you become
20 a consultant?
21 A. Two years later. February 2002.
22 THE CHAIRMAN: By this time you were in your fourth year as
23 a specialist registrar?
24 A. Yes.
25 THE CHAIRMAN: Surely at that time you would have realised

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1 Q. The "Dr Stewart" probably applies to you?
2 A. Yes.
3 Q. Because you did at one stage say that there were
4 a number of Dr Stewarts, but on reflection you think it
5 probably is you?
6 A. Yes. There were at least two other Dr Stewarts that
7 I was aware of in the Children's Hospital, but I presume
8 that this one --
9 Q. It would make sense if it was you since your name is on
10 her notes and, if he wanted to find out anything about
11 her, it's much more likely he would talk to somebody who
12 had been involved in her care.
13 A. Yes.
14 Q. So if you accept that it's you, then he says he spoke to
15 Dr Hanrahan. The upshot of it is that he records
16 a cause of death and that goes on her medical
17 certificate of cause of death, which, if we pull up
18 013-008-022 -- did you see this?
19 A. I only remember seeing that as a result of the inquiry
20 investigation. I don't remember seeing it at the time.
21 Q. Could you have seen it?
22 A. I think it's unlikely because Dara would have written it
23 and would have given it to whatever family member or
24 funeral undertaker, so he was working in PICU and
25 I wasn't.

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1 that you don't get cerebral oedema as a result of
2 dehydration.
3 A. No.
4 THE CHAIRMAN: It's not just you can say now looking back
5 that that's wrong. At that time could any
6 self-respecting doctor have completed that death
7 certificate as it stands?
8 A. I ...
9 THE CHAIRMAN: It's medical nonsense, isn't it?
10 A. It doesn't make sense to me and I know that as a junior
11 we follow out our seniors, what they're asking us to do,
12 so that again would come from a consultant telling
13 a junior member of staff what to write.
14 MS ANYADIKE-DANES: Well, if a consultant had told you to
15 write what the chairman has distilled as "medical
16 nonsense", do you not ask him, "How does that work?"
17 A. I think I would have. I was not --
18 Q. You may have been a junior, but as you have just said,
19 you were two years away from being a consultant and
20 you're a senior person, really. You may be a trainee,
21 but that's because everybody who isn't a consultant is a
22 trainee.
23 A. Yes.
24 Q. So if in some way Dr Hanrahan or somebody else for that
25 matter had asked you, "This is how I think that form

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1 ought to be filled out", bearing in mind that the person
2 filling it out is somebody who has to take
3 responsibility for it, even if a consultant is
4 authorising them to do it, but do you not want to say,
5 "How on earth can that work?"
6 A. Yes. I think I would have put in more information and,
7 the gastroenteritis, I would have put it under other
8 significant conditions and I would have put in something
9 about rehydration, "Cerebral oedema as a consequence of
10 rehydration".
11 Q. Yes. Well, that could work, couldn't it? If the
12 response to --
13 THE CHAIRMAN: It's because it's the opposite of what the
14 form says.
15 A. Yes.
16 THE CHAIRMAN: Rehydration is the opposite of dehydration.
17 A. Yes.
18 THE CHAIRMAN: So if you completed it in the opposite way,
19 it would make sense. As completed, it makes no sense.
20 A. Yes.
21 THE CHAIRMAN: Thank you.
22 MS ANYADIKE-DANES: Sorry, if I can just pick that up.
23 If you had put on a form that the rehydration, which
24 was the response to the dehydration, had caused cerebral
25 oedema, are you not putting on a form that a clinician's

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1 you had that opportunity to go back to the coroner's
2 office.
3 Q. Well, do you not at least ask that? Because what you're
4 just about to put on a medical certificate, without the
5 benefit of any inquest, is that human intervention
6 caused a child's death if you put rehydration. So
7 do you not at least, if you're the person filling this
8 in, have to go back to the person and say, "Hang on, can
9 we do this without notifying the coroner?"
10 A. Yes. As a paediatrician we rarely write death
11 certificates and I had no knowledge that this was
12 happening. I was really not involved in Lucy's case at
13 this stage.
14 Q. I'm not --
15 A. If I had been, I think I would have wanted to ask more
16 questions.
17 Q. Yes, I'm not actually talking about it in those terms.
18 You know, do you not, or at that time as a registrar,
19 the circumstances in which you have to report a death to
20 the coroner?
21 A. Yes.
22 Q. Yes. And that is a statutory obligation that you have
23 as a medical practitioner. So you would have known
24 that. So all I'm inviting you to consider is: if you
25 look at this and make it intelligible by inserting

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1 intervention had led to the death if you put
2 rehydration?
3 A. Yes, that would infer that --
4 Q. That's what that would mean?
5 A. Yes.
6 Q. As it stands there, all those are natural things:
7 gastroenteritis, that's a natural illness; dehydration,
8 that can be a natural result of gastroenteritis; leaving
9 aside the gap, cerebral oedema, that can be a natural
10 consequence of a medical condition. But if you insert
11 between dehydration and cerebral oedema "rehydration",
12 what you're saying is that there was clinical
13 intervention that gave rise to death. And if you were
14 writing that, you'd have to report that to the coroner,
15 wouldn't you?
16 A. Yes. If that had come to my attention. I was not aware
17 of a process of --
18 Q. In fact, you shouldn't be writing that at all. If you'd
19 formed a view that what properly happened in terms of
20 the chain of causality was an inappropriate response to
21 dehydration, you shouldn't be writing a medical
22 certificate at all, you should be contacting
23 the coroner.
24 A. I'm not sure I would have been aware at that stage of my
25 training that the coroner's office had been informed and

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1 "rehydration", which means human hand, that brings it
2 within the criteria for a notification to the coroner,
3 and the only way through would be to discuss with your
4 consultant if you're unsure and say, "Should we not be
5 reporting that to the coroner?"; is that not the case?
6 A. Yes, I understand that.
7 Q. Thank you.
8 THE CHAIRMAN: Can I just finish with this? You know that
9 Mr and Mrs Crawford effectively withdrew from the
10 inquiry --
11 A. Yes, I understand that.
12 THE CHAIRMAN: -- which is why we're looking at the
13 aftermath of Lucy's death rather than scrutinising
14 exactly what went on in the Erne.
15 A. Okay.
16 THE CHAIRMAN: The reason that we're looking at it is
17 because Mr and Mrs Ferguson believe that had Lucy's
18 death been correctly analysed and identified at the
19 time, it might have prevented Raychel dying 14 months
20 later in Altnagelvin. Did you learn anything from
21 Lucy's death in 2000?
22 A. Yes, I think I learnt a lot from being involved with
23 Lucy's case at various levels because I'd never come
24 across a case like this before.
25 THE CHAIRMAN: When you say "a case like this", how do

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1 I interpret "a case like this"?

2 A. Previously being well and having what we would normally
3 consider a mild illness and ending up with catastrophic
4 events and, as a registrar, I think it was my first time
5 to be asked about organ donation, and that was my main
6 role in actually speaking to her family.

7 THE CHAIRMAN: Do you also mean a catastrophic event of
8 a girl who's suffering from some level of dehydration
9 being rehydrated in a way which leads her to have
10 cerebral oedema?

11 A. Yes, that's what I mean. A catastrophic event where she
12 had a collapse.

13 THE CHAIRMAN: But from what you've said and from what
14 Dr Chisakuta said this morning, it's already apparent to
15 me, subject to whatever other witnesses say in the days
16 ahead, that this problem was identified within the Royal
17 even before Lucy was dead.

18 A. Yes, I think that's correct.

19 THE CHAIRMAN: And despite that, this death certificate was
20 issued. There was no inquest and the awareness of
21 hyponatraemia was not raised in April 2000. Arguably --
22 or we'll see later -- with the result that when Raychel
23 went into Altnagelvin in June the following year, the
24 level of awareness may have been the same as it would
25 have been had Lucy not died at all.

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1 Raychel a year later, whose pupils are fixed and
2 dilated, to all intents and purposes is that child dead?

3 A. I suppose there could be anaesthetic drugs and things
4 like that on board. Once intensive care management
5 takes place, then they would want to try to transfer the
6 child to an intensive care facility, then to properly
7 establish brainstem death.

8 THE CHAIRMAN: Okay. Let me ask you it in another way,
9 which might be the way that Mr and Mrs Ferguson are
10 thinking about it. How often in your career have you
11 seen a child with fixed and dilated pupils making
12 a recovery?

13 MR QUINN: Could we also add that there were no anaesthetic
14 drugs? I understand totally what the doctor may be
15 saying here that some children may be under the
16 influence of anaesthesia, therefore they have to be
17 transferred to paediatric intensive care. That's
18 another issue. When these children don't have, so far
19 as we know, any great level of anaesthetic drugs, what
20 would her opinion be?

21 A. I can't say how many children, but I have certainly seen
22 a number of children, either babies who have suffered
23 from cot death and have been brought to the hospital and
24 have died and children with very bad road traffic
25 accidents, things like that. We would be asked to come

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1 A. Yes.

2 THE CHAIRMAN: And we can't all be certain about what would
3 have happened, but if braver or more appropriate steps
4 had been taken within the Royal, this would have been
5 highlighted in 2000 and Raychel's death might not have
6 occurred in 2001. Does that appear to be logical to
7 you?

8 A. Yes. You can certainly see the sequence. As far as
9 I was aware, as a junior at that time, the coroner
10 didn't want to pursue further and I felt that if
11 a coroner had said, "No, we're not taking it as a case",
12 I wasn't aware that you could go back to the coroner.

13 THE CHAIRMAN: Are there any questions from the floor?

14 Questions from MR QUINN

15 MR QUINN: I've got some questions. I can put them through
16 my friend.

17 Mr Chairman, there are two references at page 102
18 and page 147 of the [draft] transcript where this
19 witness has said that she was unresponsive afterwards
20 and her pupils were fixed and dilated. The Ferguson
21 family would like to know, as this has been a feature of
22 other cases, what is this doctor's opinion of seeing
23 that evidence? What they want to know is: was she being
24 transferred as someone who was already deceased?

25 THE CHAIRMAN: If one has a child, Lucy in this case, or

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1 to Accident & Emergency to assist, and I have seen
2 children with fixed and dilated pupils coming in and
3 attempts at resuscitation failing and their pupils being
4 fixed and dilated and then we stop resuscitation.

5 MS ANYADIKE-DANES: I think what the point is that when
6 Lucy's pupils are first noted as being fixed and
7 dilated, which may not have been the first time that
8 they were, but when they're first recorded is 3.30 on
9 the Thursday morning, 13 April. By the time she gets to
10 PICU, it's about 8 o'clock. So they have been fixed and
11 dilated for that period of time without apparent change,
12 and I think what the Ferguson family are wishing to know
13 is: in your experience, the prospect of that amount of
14 downtime, if I can put it that way -- a child being
15 revived?

16 A. I don't know of any. I don't think I have treated any
17 children or had any children under my care that have
18 reversed from that situation of being fixed and dilated
19 and revived.

20 Q. If a child is being transferred in that condition, in
21 Lucy's case when she left the Erne, that was at
22 6 o'clock, so she had been with fixed and dilated pupils
23 for at least about two-and-a-half hours, depending on
24 whether they were fixed and dilated when first noted, so
25 about that period of time. And I think the issue

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1 is: what is she being transferred to the Children's
2 Hospital for? Is it to treat her in the hope that there
3 might be some improvement or is it to certify that she
4 is in fact brainstem dead and then with the benefit of
5 the CT scans and much better equipment that you have in
6 PICU, try and find out why it happened?
7 A. I think it's the latter.
8 Q. To certify she's dead and find out why?
9 A. Yes.
10 MS ANYADIKE-DANES: Thank you.
11 THE CHAIRMAN: Unfortunately, that didn't work in Lucy's
12 case; isn't that right? If the reason for transferring
13 Lucy was to establish why she died, it failed. Sorry,
14 it officially failed; isn't that right?
15 A. Yes.
16 MS ANYADIKE-DANES: I beg your pardon, just one final
17 question because you mentioned that you are from an
18 outlying hospital now, as a consultant, which does
19 transfer children, if you're in that situation where an
20 event like that -- and I don't mean literally like that,
21 but you have a child who to all intents and purposes you
22 think is irretrievable, but you want to get that child
23 to PICU so that they can carry out the brainstem tests
24 and they can carry out those investigations and try and
25 help the family with some answers as to why that

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1 tomorrow morning.
2 (4.47 pm)
3 (The hearing adjourned until 10.00 am the following day)
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1 happened.
2 In your experience is that something that you
3 counsel the family with before the child sets out so
4 they know the purpose of the journey, if I can put it
5 that way? Or do you wait until the child gets to the
6 other end and have the consultants at the other end tell
7 the parents the bad news?
8 A. I think we would want to be as honest and truthful with
9 the family with what information is available to us
10 at the time. We would want to tell them. If we felt
11 that the news was very bad that we would tell them:
12 we are very sorry the news is very bad, intensive care
13 have a bed and this is the reason that you're going.
14 MS ANYADIKE-DANES: Thank you. Thank you very much indeed.
15 THE CHAIRMAN: Any more questions? Mr McAlinden?
16 Doctor, thank you very much. That brings to end to
17 your evidence unless there's anything you want to add
18 before you leave.
19 A. No, thank you.
20 (The witness withdrew)
21 THE CHAIRMAN: Ladies and gentlemen, as we had hoped to do,
22 we've heard from Dr Chisakuta and Dr Stewart, and
23 tomorrow -- is it Dr McKaigue first?
24 MS ANYADIKE-DANES: Yes.
25 THE CHAIRMAN: And Dr Gannon. Thank you very much. 10.00

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