

1
2 (10.00 am)
3 (Delay in proceedings)
4 (10.15 am)
5 THE CHAIRMAN: Good morning. Ms Anyadike-Danes?
6 MS ANYADIKE-DANES: Thank you, good morning. Could I please
7 call Dr Crean?
8 DR PETER CREAN (called)
9 Questions from MS ANYADIKE-DANES
10 MS ANYADIKE-DANES: Thank you very much, doctor. You have
11 made a number of statements in three cases that the
12 inquiry has been looking at. You have a statement
13 in relation to the governance part of Adam's case,
14 a statement in Claire's case, two in relation to Lucy's
15 case, and you have made three in relation to Raychel's
16 case.
17 It is those three that we are going to consider more
18 particularly today insofar as they relate to questions
19 that we still have. Just for reference purposes, the
20 first of those was made on 15 July 2005, the second on
21 18 June 2012 and the most recent on 29 May 2013. The
22 series number is 38.
23 It's correct, isn't it, Dr Crean, that you have also
24 given evidence on two previous occasions? You gave
25 evidence in relation to the governance aspect of Adam on

1 Q. And on the Northern Ireland working group on
2 hyponatraemia in children that produced the guidelines,
3 that took you from 2001 to 2002. That's correct, isn't
4 it?
5 A. Yes, that's correct, yes.
6 Q. You have been a member of the CMO's special advisory
7 committee for paediatrics from 2000 to 2005.
8 A. Yes.
9 Q. It's quite a prestigious list of your appointments. You
10 were the president of the Association of Paediatric
11 Anaesthetists of Great Britain and Ireland from 2005 to
12 2007.
13 A. Yes, that's correct.
14 Q. And the Northern Ireland regional paediatric fluid
15 therapy working group in 2006.
16 A. Yes.
17 Q. And bringing us closer to date, you were a professional
18 adviser to the RQIA review team in 2010, so it says
19 in the report.
20 A. Yes, that's right, yes.
21 Q. And you are currently chair for the NICE guidelines on
22 IV fluid therapy in children as of April of this year.
23 A. Yes. I was just appointed a few months ago for that
24 position.
25 Q. Sorry?

1 20 June of last year and you gave evidence in Lucy's
2 case on 4 June of this year; is that correct?
3 A. That's correct, yes.
4 Q. And you have provided us with your CV with, I think, an
5 update to it. The reference to your CV is 306-087-001.
6 And you'll have been taken to aspects of that CV before.
7 Some parts of it are still relevant for the issues that
8 we have today. If I may just, without going to it in
9 detail, pick out some things for you to comment on.
10 Before I do that, though, are you adopting those
11 three witness statements that you have provided in
12 Raychel's case as your evidence here today, subject to
13 anything further you want to say?
14 A. I am, yes.
15 Q. Thank you very much. So just to confirm, you've been
16 a consultant since 1984?
17 A. That's right, yes.
18 Q. And you were clinical director in the surgical and
19 critical care services in 2003 up to 2008; that's right,
20 isn't it?
21 A. That's right, yes.
22 Q. The page to assist is 306-087-006. You were also
23 chairman of the excellence and governance committee from
24 2003 to 2011.
25 A. Yes, that's right.

1 A. I was just appointed a few months ago for that position,
2 yes.
3 Q. All of that spans, in one way or another, the periods
4 that are of particular interest to us.
5 A. Okay.
6 Q. And just for completeness, though, you're also on the
7 education committee; isn't that right? You were
8 a college tutor in anaesthetics in the Royal from 1992
9 to 1998, and you were a member of the anaesthetic
10 education subcommittee from 1986 to 1998.
11 A. Yes.
12 Q. So in that early phase, when one was talking, for the
13 purposes of Adam and Claire, as to what people might
14 have known about hyponatraemia, you were involved in
15 education and training at the hospital?
16 A. Yes, it was overseeing the trainees, really.
17 Q. Thank you very much. I wonder if I might ask you to
18 clarify this point in relation to that part of your CV:
19 what was the excellence and governance committee
20 concerned with?
21 A. Just what it says: the excellence and governance within
22 the hospital. It could be incident reporting. We did
23 oversee the incident reporting. We would have the
24 excellence and governance committee and I would chair
25 that every three months, and that would feed into the

1 directorate as well. So you'd be looking at all aspects
2 of education and training, incident reporting, all those
3 sorts of things. The sort of quality things within
4 the --
5 Q. And over what sort of area? Just paediatrics or just
6 anaesthesia?
7 A. No, it was really just within the Children's Hospital.
8 Q. Within the Children's Hospital?
9 A. Yes.
10 THE CHAIRMAN: This would have been at the time, doctor,
11 when governance really took off?
12 A. Yes, it had really just started.
13 THE CHAIRMAN: The general picture I've got is that it was
14 picking up from the late 1990s into the early 2000s.
15 But if you chaired this committee from 2003 to 2011,
16 that's when things changed more rapidly at a governance
17 level?
18 A. Yes, I think so.
19 MS ANYADIKE-DANES: So that's the post department guideline
20 era, and so if there are issues to do with what the
21 Children's Hospital might have been doing, was doing,
22 and so forth in relation to standards and quality, that
23 would be something within your remit?
24 A. That's right, yes.
25 Q. How did you get the information that you considered as

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1 those. But then we had audits that were, if you like,
2 referred to the audit department so they were recognised
3 audits that the audit department would assist with.
4 So I would probably have known about those types of
5 audits, but I may not have known about, if you like,
6 personal audits that people may have been carrying out
7 and --
8 Q. Yes, I'm actually more interested in how you would have
9 known. For example Dr Taylor, he chairs an audit
10 committee, and in fact he would see all those
11 in relation to deaths. So if in the course of doing
12 that he's able to see or his committee can see trends or
13 are worried about trends because he can see the way
14 things are happening in a particular area, how would
15 that feed its way into your committee so that your
16 committee can see, from the point of view of maintaining
17 appropriate standards, what perhaps ought to be done?
18 How would that work?
19 A. It depends, as I said, how that audit was ... Who knew
20 about that audit. If it was a personal audit that
21 someone was doing, maybe the committee that I was
22 chairing every three months -- we may not have known
23 about that, if you know what I'm saying. If that had
24 been a formal audit and it had been proposed to the
25 audit committee that this was going to be -- I mean, the

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1 part of surveying and maintaining standards?
2 A. We had different people on the committee who had their
3 own brief, who would be looking after particular aspects
4 of what the committee was about.
5 Q. Could you possibly give us an example?
6 A. Do you know, I ... There was one person, for example,
7 who would give a report, for example, on complaints. So
8 they would be able to identify the number of complaints
9 the Children's Hospital had received over a three-month
10 period and how the complaints had been responded to, and
11 any learning from those that could be shared and
12 developed.
13 Q. So you would have people that would provide specialist
14 input for you on specialist areas that they were looking
15 after those?
16 A. That's right, yes.
17 Q. But was there a system whereby your committee could be
18 informed of, say, the results of clinical reviews, of
19 audits? Could it come to you in that way?
20 A. Do you know, I just can't remember right now that sort
21 of detail. I just can't remember. I don't believe
22 there was someone ... The audits that were done were of
23 twofold in some ways. You had people that would just
24 carry out an audit because they were interested in the
25 audit and then -- and you may not have known about

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1 hospital audit committee within the trust, then that
2 would be a formal audit process and I would most likely
3 have got a report back on that.
4 My problem is remembering exactly when those
5 processes were. I know the way it is now.
6 THE CHAIRMAN: Don't worry about the exact scheme of it.
7 But would I be right in thinking there's probably two
8 ways that the committee works: one is the members of the
9 committee would themselves identify issues which they
10 thought were worth reviewing, like how the complaint
11 process is working --
12 A. Yes.
13 THE CHAIRMAN: -- and another one is if your colleagues
14 in the Children's Hospital bring issues to you because
15 they've spotted some trend emerging and they have
16 concerns?
17 A. It was broader than that, really. You could have had
18 complaints, you could have had incident reports and
19 a review of those. We could have had educational
20 issues. We had a whole spectrum of things that would be
21 brought to the committee. I wish I had an agenda here
22 just to remind me exactly what we do.
23 MS ANYADIKE-DANES: It may be that that's something you can
24 provide us with after you have given your evidence. The
25 real issue is, if you're sitting there as the chairman,

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1 as you were up until 2011, of a committee dealing with
2 excellence and governance, what I'm particularly
3 interested in is how you get your information so that
4 you know the things that are supposed to cross your
5 radar so that you can have an appropriate oversight of
6 them and input into something to either maintain the
7 standard or to suggest how the standard can be raised.
8 That's the particular area.

9 So I can understand how things can happen in an
10 ad hoc way in the way that you've discussed, but I'm
11 more interested in what the systems were so that you
12 would routinely be advised of certain sorts of things.

13 A. Well, if you ... I would probably have had a list of
14 the audits that were being carried out and I guess if
15 anyone had major concerns about -- it may have just been
16 a list, this and this and this, A, B, C, D, E, I may not
17 have had the full audit report, but I would have hoped,
18 I guess, that if anyone had serious concerns about what
19 the audit was showing, they would have come and let me
20 know about that.

21 Q. And is that committee, so far as you're aware, still in
22 existence?

23 A. Yes, it is.

24 Q. Do you know who the current chairman is?

25 A. It's Dr Aideen Keaney, I believe.

9

1 Q. In the course of your time, because you span quite
2 a lengthy time for the purposes of this inquiry, 2003 to
3 2011, did any concerns come to you that are relevant for
4 the purposes of this inquiry, which is to do with fluid
5 management, record keeping, that sort of thing?

6 A. Um ... Okay, I suppose some of these things may have
7 been related to myself, actually, because what I ...
8 Whenever the NPSA alert came out in 2007, I actually
9 wrote the policy for the trust about fluid management at
10 that time. And I helped to devise a new fluid balance
11 chart for children as well, which took, actually, quite
12 a while. It maybe took about a year or so to get that
13 organised so that everyone was happy with that.

14 So I actually did audits on the fluid balance chart,
15 how it was being filled in, how appropriate the
16 prescription was, and we did several audits on that. We
17 did have concerns, actually, because we embarked on
18 a pretty powerful, I think, educational programme for
19 the staff and I think one of the later audits showed
20 that the quality as to how the form was actually being
21 filled in had actually fallen off a bit. So we used
22 that to go back to the staff and say, "Look,
23 improvements need to be made here. This is a safety
24 issue and we need to improve upon that", and the final
25 audit that I was involved with anyway showed that there

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1 had been an improvement.

2 Q. So is that how your committee worked? You would have a
3 concern or a concern would be brought to your attention,
4 you would examine it, you would examine that in relation
5 to a standard, see how it lay with that standard, and if
6 improvements were made, identify that and then
7 re-examine it to see whether those improvements had been
8 put into effect. Is that how your committee worked?

9 A. Yes, that would be one of the ways it worked in regard
10 to audit.

11 Q. And did it issue reports?

12 A. Yes, there was. We had minutes of the meeting and that
13 was fed up into the organisation. So it wasn't just
14 kept with us, it was fed up.

15 Q. Thank you. Then another point that you had identified
16 in your CV, which is the member of the SAC paediatrics
17 from 2000 to 2005. The remit of all those CMO
18 committees can be found at 320-110-001.

19 Perhaps an important area, and we'll come on to it
20 when we look at how the guidelines finally emerge,
21 is that the remit of this includes advising the
22 department through the CMO, whose committees these are,
23 on strategic policy, and presumably planning issues
24 in relation to that policy and then commenting upon the
25 quality of the service, particularly in relation to

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1 quality standards. Some of that might encompass raising
2 concerns as to the level of knowledge and the adequacy
3 of the practice in relation to paediatric IV fluids or
4 fluid management. That's something that could come
5 within this committee.

6 A. Possibly. I don't ever remember getting down to things
7 like that on the committee. It was usually due to
8 manpower. I remember paediatric gastroenterology being
9 a big thing because we didn't have one in the Province
10 for quite a while. Those are the sorts of things
11 I remember being discussed most of all.

12 Q. It does get raised at the committee. The CMO's
13 guidelines were raised at the committee --

14 A. It did, yes.

15 Q. -- so it was clearly a relevant thing once those
16 guidelines had emerged to discuss at the committee.

17 A. Yes.

18 Q. So the point I'm putting to you is: if the guidelines
19 are relevant to discuss at the committee, the need to
20 have them might be a relevant thing to discuss at the
21 committee.

22 A. No, I can't disagree with you there.

23 Q. Thank you. There might be an issue later on when we go
24 through what happened as to why that didn't come to the
25 attention of the committee or why it wasn't raised

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1 in the committee.
2 But if we then move on to the cause of Raychel's
3 death. When did you first learn that Raychel was to be
4 transferred from Altnagelvin to the Children's Hospital?
5 A. My memory of this is practically non-existent now, I'm
6 afraid. But going through the notes and having read
7 Dr Nesbitt's transcript as well, I think what has
8 happened is that when she became very unwell early on
9 the Saturday morning, and he was in discussion with the
10 neurosurgeons at that time, he contacted the on-call
11 anaesthetist in the Children's Hospital, and from what
12 he says that would have been Dr Chisakuta.
13 So I must have been working on the Saturday and
14 Sunday, so I think I would have taken over from him
15 about 9 o'clock in the morning. So he must have phoned
16 me some time after 9 o'clock to discuss that with me.
17 I think he says that he arrived -- there's somewhere
18 that he arrived with Raychel about 12.30, just around
19 midday.
20 Q. When you said "phoned you to discuss", do you mean that
21 you'd had a discussion with Dr Nesbitt before Raychel
22 arrived?
23 A. I'm assuming that. That's normally what would happen.
24 People just wouldn't arrive without some form of
25 discussion having taken place.

13

1 example, when a child arrives, they would have contacted
2 us. What normally happened was that when the
3 neurosurgeons were contacted, they would then phone us
4 as well to say, "There's a kid in Altnagelvin coming
5 down, very unwell. This is the surgical problem and
6 we'll need access to theatre soon after we arrive in
7 Belfast to try and alleviate the problem". So there
8 would be input from the surgical service who wants the
9 child to come down and also from the referring hospital
10 as well.
11 Q. I appreciate that you don't remember the details of her
12 case. You would presumably have looked at her medical
13 notes and records at some point when she was
14 transferred.
15 A. Well, we've been looking at this, actually, the last few
16 days, and what we got, I think, from Altnagelvin was the
17 transfer letter and the transfer referral sheet, the
18 transfer record sheet, a paediatric assessment sheet and
19 a summary care plan. I don't think we actually got the
20 notes from Altnagelvin. So the medical notes, I don't
21 think, were actually sent down with her. So really, all
22 we were doing was working with the transfer summary from
23 the doctors there.
24 Q. Did you ask for them?
25 A. I am sorry?

15

1 Q. And so do you know what you would have known about her
2 before she actually arrived?
3 A. I'm ...
4 THE CHAIRMAN: Let's differentiate, doctor, in this run of
5 evidence between what you remember, which I think from
6 your introductory remarks is very limited, and what you
7 would normally expect to happen in this type of
8 situation. Okay?
9 A. Normally, what happens is the referring doctor -- and
10 it's often a consultant -- would phone you up and let
11 you know about an ill child, what the status of the
12 child is and what the concerns would be. And I would
13 check with them has the child been adequately
14 resuscitated and stabilised, what stage are they at, can
15 they phone us before they leave so we know generally
16 what time they'd be arriving at because we have other
17 children on the ward as well. It's just a general
18 thing, really.
19 MS ANYADIKE-DANES: If you'd known there had been an earlier
20 discussion with the neurosurgeons looking at a CT scan
21 to see whether any treatment, for example, might be
22 offered, if you'd known that, would it have been your
23 practice to have any kind of discussion with those
24 surgeons?
25 A. Well, if they were planning to do an operation, for

14

1 Q. Did you ask for her medical notes?
2 A. I honestly can't remember.
3 Q. Well, I recall -- and I'm sure you do -- that when Lucy
4 was transferred in a moribund state from the Erne, one
5 of your concerns was that you did not have her medical
6 notes and records and you asked for them and ultimately
7 they were faxed to you. Would you not have wanted to
8 see Raychel's?
9 A. I'm sure we would have wanted to see Raychel's. I do
10 know that there was also a fax sent down later in the
11 day as well -- there's a record of that as well -- but
12 it was pretty incomplete, there wasn't very much on the
13 fax. What the fax showed when I looked at it on the
14 inquiry website was an electrolyte result -- two
15 electrolyte results where the sodium was shown to be 118
16 and 119. 119. And I think the last fluid prescription
17 sheet showing the prescription of fifth-normal saline
18 and one of normal saline.
19 Q. Yes, just to make sure we're talking about the same
20 thing, I wonder if we could pull up 063-005-010 and then
21 the next page?
22 A. Yes, that's the transfer letter.
23 Q. Yes. Is this what you mean by a fax was sent? There's
24 actually a third page; we'll come to that in a minute.
25 But is this the fax that you mean was sent over?

16

1 A. No, that would have been the written transfer letter.
2 That was written by Dr Bernie Trainor.
3 Q. It was. It's quite a detailed one, isn't it, certainly
4 if you compare it with what came over with Lucy?
5 A. Yes.
6 Q. And you can see the history that's given on the first
7 page. You see the number of her vomits, six to seven
8 times during the day, no diarrhoea. And then you see
9 over the next page that her deterioration -- 3 o'clock,
10 the seizure was 15 minutes and so forth. Then you see
11 her electrolyte results down there at the bottom. If we
12 go over to the next page, you can see that she requires
13 ventilation, fluids are changed, initially subarachnoid
14 haemorrhage found with evidence of increased
15 intracranial pressure, transferred, and so on.
16 A. Yes.
17 Q. So that's quite a full letter, isn't it?
18 A. Yes. The thrust of the letter, though, is pointing
19 towards an acute neurosurgical problem, I think.
20 Q. Yes.
21 A. And that's what -- I mean, I can understand the concern
22 with this at the time and the need to get her down to
23 a neurosurgeon as quickly as possible. And that's --
24 Q. Yes. From your point of view in terms of -- she now
25 comes into your care, you're her named consultant.

17

1 A. Yes. My name, if you remember, was on the yellow flimsy
2 on all children that came into the intensive care unit,
3 whether I was there or not. I think we had explained
4 previously that --
5 Q. You have. It's just that it seemed that you might have
6 had slightly more to do with Raychel. Would you accept
7 that you at least had joint care of Raychel with
8 Dr Hanrahan?
9 A. Yes, we would have had joint care, but I ... For
10 a child like her coming in, there could have been many,
11 many causes of a coma like that, and I would not have
12 really had the knowledge to be able to investigate
13 properly.
14 Q. But you would be trying to investigate and trying to
15 see what was the cause?
16 A. I would be assisting in that.
17 Q. That's why I'm asking you, if that's what you're trying
18 to do, if you didn't have them, why didn't you call for
19 her medical notes and records from Altnagelvin in the
20 way that you did in relation to Lucy?
21 A. I think it became pretty clear to us at the time that
22 the acute collapse was so bad that brainstem death had
23 already occurred when she arrived with us. So that's
24 the situation we were there at the time. And I think it
25 was also clear that with a sodium level of 118 --

19

1 A. Sorry, can I correct you there? I was not her named
2 consultant.
3 Q. Ah.
4 A. Dr Hanrahan would have been the consultant overseeing
5 her care. We went through this, I think, in some detail
6 the last time I was here -- and Dr MacFaul did allude to
7 this as well -- that there were two consultants working
8 together in the intensive care unit. You'd have the
9 anaesthetist and either a physician or a surgeon, both
10 working together, and it would usually be the physician
11 or surgeon who would do the diagnostic care of a child
12 in the intensive care unit. And it would be someone
13 like me doing the day-to-day working, the stabilisation
14 of that patient.
15 Q. So who did the diagnostic care in relation to Raychel?
16 A. As far as I'm concerned, it would have been Dr Hanrahan,
17 because she came in with basically neurological collapse
18 and I'm not a neurologist; I would have had to take
19 a lead from him as to how he was going to investigate
20 this collapse.
21 Q. But you're the clinician who is named as her clinician
22 on the post-mortem report, which you have seen.
23 A. Yes, I know, and --
24 Q. Sorry, and you're also the clinician who gave evidence
25 in the inquest.

18

1 I think it was at the time -- that that was the most
2 likely cause of the brain swelling that had happened.
3 So I think that those two things had gone together.
4 Q. Yes, well then, either independently of Dr Hanrahan or
5 with Dr Hanrahan, did you not seek to find out how she
6 had got into that state?
7 A. Well, an acute electrolyte problem like that could
8 happen with, I suppose, a fundamental endocrine problem.
9 But the most likely cause was that whilst she was
10 receiving IV fluids, she developed electrolyte
11 imbalances. She had a low sodium, her magnesium was low
12 and her potassium was low as well. And I just think
13 that we at the time thought it was something to do with
14 the fluids. But we didn't investigate anything further
15 than that at the time.
16 Q. Did you look at the CT scans with Dr Hanrahan?
17 A. Again, I can't remember if I looked at the CT scans or
18 not. I've read the reports of the CT scans. I'm sure
19 we both looked at the CT scans at the time.
20 Q. Would you have discussed her treatment at Altnagelvin
21 with Dr Nesbitt when he came over with her?
22 A. Again, I can't remember, but if we go back to the
23 transfer letter, and I read what Dr Nesbitt had said,
24 I think that in Altnagelvin when they were bringing her
25 round to Belfast, they were thinking that this child had

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1 a neurosurgical problem. I think he had talked about a
2 brain empyema, a collection of pus in the brain, so I
3 think that is what he was thinking and that is then what
4 our line of thinking would have been as well at the
5 time.
6 Q. If I can just be clear on that because there are some
7 differences of views as to what was the collective
8 thoughts about what the CT scans were showing before she
9 left. Is this something that you think, having read the
10 various documents on this case, was being discussed or
11 is this part of what you might recall?
12 A. No, it's only what I'm thinking from what I've read,
13 that's all.
14 Q. I understand. In any event, you seem to have reached
15 the view, at least as expressed in your witness
16 statements to the inquiry, that the problem was actually
17 caused by a fall in her serum sodium levels, and that is
18 related to the fact that she had received
19 Solution No. 18 post-operatively.
20 A. No, it's not that she had received Solution No. 18, it
21 was --
22 Q. Sorry, let me pull it up.
23 A. -- related to her intravenous fluids.
24 Q. Well, that was her intravenous fluid.
25 A. It's about her ... It's more complicated than just one

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1 that you say there's no other apparent one?
2 A. Sorry, I'm ...
3 Q. Just look at (a).
4 A. I think it was just the fact that her sodium level was
5 118. It was a very, very low level of sodium.
6 Q. No, sorry, that wasn't actually quite the question. The
7 question came from your statement. You said that:
8 "The most likely cause of her cerebral oedema was
9 a rapid fall in serum sodium."
10 We see that above. That's your statement. So we
11 ask you:
12 "What factors led you to the conclusion that that
13 was the most likely cause of her cerebral oedema?"
14 And this is the answer that you give in relation to
15 that:
16 "What was the cause of the rapid fall? She had been
17 vomiting after her operation, she received one-fifth
18 normal saline post-operatively."
19 That seems to be your answer to that question.
20 That's why I was asking about it.
21 A. The problem -- I think the problem with a lot of these
22 things when you're trying to fill them in is that you
23 mix in things that you knew at the time, that you know
24 afterwards, you've been to her inquest, you've seen
25 expert reports as well, and it's actually very, very

23

1 single fluid.
2 Q. Let me pull up the witness statement and maybe you can
3 help me with it. It's 038/2, page 4.
4 THE CHAIRMAN: Your point, doctor, is it's too simplistic to
5 say this is just Solution No. 18?
6 A. Yes. I just want to tell you something. I'd used
7 Solution No. 18 for over 20 years at that stage and if
8 it's used appropriately, then I didn't think it was
9 a bad solution to use. It was when it was used
10 inappropriately, it could do harm. But then, anything
11 can do harm. Driving your car the wrong way can do
12 harm, any medication can do harm if it's used
13 inappropriately. People need to have the knowledge and
14 background to do -- any medicines that you give, any
15 fluids that you give need to be used appropriately.
16 MS ANYADIKE-DANES: I think we are talking about an
17 inappropriate use of it, not just its use per se. If
18 you look at your answers to (a) and look at your answers
19 to (d).
20 So at (a) you note she had been vomiting after the
21 operation. Then she receives the fluid
22 post-operatively, her serum sodium fell from a
23 pre-operative value of 137 to a value of 118, and you
24 say there was no other apparent cause for her collapse.
25 What did you think was the cause of her collapse

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1 hard to discriminate that timeline of things that have
2 happened all the way through. It's only recently when
3 I was looking back that I realised we actually didn't
4 have her fluid balance notes whenever she came into the
5 hospital, into the Children's Hospital at that time.
6 THE CHAIRMAN: Okay.
7 A. So I can't actually remember what my immediate concerns
8 might have been then. I'm not trying to fudge the
9 issue. I'm just trying to be truthful.
10 THE CHAIRMAN: You're not the only one, doctor, who has
11 a problem distinguishing between what you knew
12 in June 2001 and what you know by an accumulation of
13 knowledge in September 2013.
14 A. Thank you. Might I say something at this moment?
15 Whenever Raychel came in, her mum and dad came down with
16 her and they would have had some hope that there was
17 hope that she may survive this. We were in a position
18 that when she came down to us that it became clear to us
19 very quickly that that wasn't going to be the case. And
20 I have to say that I think the main thrust of what
21 we were doing at that time was to take the family
22 through a terrible journey. Raychel was lying on a bed,
23 she was connected to a ventilator, she was warm, they
24 could feel her hands being warm, and we had to take them
25 from that situation to try and bring them through the

24

1 concepts of brainstem death to the next day, where
2 we were telling them that we had to turn the ventilator
3 off.

4 So I think that that was the -- that's really what
5 we were trying to do then.

6 MS ANYADIKE-DANES: I understand that and I'm going to ask
7 you something about that. But at the moment I'm
8 actually trying to see if you can help us with what you
9 thought was the principal cause of the development of
10 her cerebral oedema. The closest thing in time we have
11 to your statement, from you, if I can put it that way,
12 to the event is a record that the coroner makes of
13 a telephone conversation with you. That's on
14 11 October 2001. Raychel, of course, dies in June 2001.

15 A. Yes.

16 Q. We can pull that up. It's 012-052c-275. Actually,
17 you're really contacting, so it would appear, the
18 coroner to see if it was permissible for you to speak to
19 the parents, who wanted to speak to you again. You had
20 already, of course, spoken to them at the time.

21 A. Yes.

22 Q. And he records you as saying that there was
23 mismanagement of this case in the Altnagelvin Hospital,
24 she was admitted to have her appendix out, but in fact
25 the appendix was normal:

25

1 the reasons he transferred or sought to have Raychel
2 transferred to the Children's Hospital was, even though
3 things looked pretty bleak -- and in fact some of the
4 clinicians thought there was no coming back from the
5 condition she was in in Altnagelvin -- you never really
6 give up hope on a child and he then specifically said he
7 has seen children come back.

8 From your point of view, was it clear to you that
9 there wasn't any coming back for Raychel from the
10 condition you saw her in?

11 A. When we examined her, the situation at that stage was
12 irretrievable.

13 Q. Is that something that you were able to form out of your
14 specialist knowledge and experience or is that something
15 that you would expect a consultant paediatrician or
16 a consultant paediatric anaesthetist to be able to
17 appreciate?

18 A. I think that's very difficult for people in district
19 general hospitals to deal with. I think that children
20 who have deteriorated the way Raychel did would nearly
21 always be transferred to the Children's Hospital, even
22 if the clinician's feeling was there was really no hope.
23 I don't see any other way of doing it.

24 THE CHAIRMAN: I just want to get this clear, doctor.

25 That's something you wouldn't necessarily discourage

27

1 "The fluid balance was the key to why her condition
2 deteriorated."

3 And he's noted "dilutional hyponatraemia". So
4 leaving aside what you may have learnt along the way
5 when you provided your witness statements for the
6 inquiry, it would seem that at a fairly early stage
7 you'd formed the view that the problem here was the
8 management of her fluids.

9 A. Yes, it would appear so from there.

10 Q. And if any management of her fluids to have been
11 significant in her demise was going to be at
12 Altnagelvin?

13 A. Yes.

14 Q. You had just touched on something that I wanted to take
15 you to as well, which is you mentioned that the family
16 had some sort of hope that Raychel, having been brought
17 to the Children's Hospital, that perhaps something might
18 be done. Maybe they thought some sort of surgical
19 intervention could produce something or some other
20 treatment that you, as a sort of specialist centre,
21 might be able to offer. That was apparent to you, that
22 they had some sort of hope?

23 A. I can't remember. It's just what I've read on the
24 inquiry website.

25 Q. Okay. When Dr Nesbitt gave evidence to say that one of

26

1 because, even if 99 times out of 100, or 9 times out of
2 10, the result is the same, there may be occasionally
3 a chance that something might be done?

4 A. Yes. There's that, and also from the family's point of
5 view as well, chairman, that if a family's been managed
6 in a hospital and the child becomes very ill, at least
7 if they are seen -- we may not be able to offer anything
8 more, but at least if they're seen to go to the
9 Children's Hospital where they may feel people with more
10 expert knowledge are available, at least they feel that
11 everything has been done that could be done. I think
12 that's an important thing.

13 THE CHAIRMAN: So it takes away the wondering afterwards?

14 A. Yes.

15 THE CHAIRMAN: Might things have been different if Raychel
16 had gone to Belfast?

17 A. Yes, I think that's very important.

18 MS ANYADIKE-DANES: If it's being done in that way, does
19 an important element of the transfer become how you
20 manage the information to the families so that whilst
21 you haven't removed absolutely all hope if there's
22 0.001 per cent that something might happen, you haven't
23 necessarily allowed them to travel in significant hope
24 or even real hope?

25 A. Yes, but I mean -- I think many doctors are quite

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1 optimistic. They're hopeful that a disastrous thing
2 that seems to be occurring in front of them -- that
3 that's not true. And that maybe when they go down to
4 the specialist centre, we might think of something else.
5 No one wants to give up hope on a child. It's not like
6 your mum or dad dying or something, it's different.
7 Q. In your view, if one's to establish a best practice
8 about it, what is the sort of thing that you should be
9 telling parents in that situation?
10 A. From the other hospital, you mean?
11 Q. Yes.
12 A. I think you need to tell them that the child is
13 critically ill and that they are critically ill and ...
14 It was my practice to be pretty blunt with people and
15 just say, "Look, there's a really good chance your child
16 will die". With meningococcal septicaemia in children
17 that we would get in, that's what I would say, so that
18 at least you've laid the groundwork that if the child
19 doesn't survive, that they're thinking about the most
20 terrible thing that could happen so that it's not, if
21 things develop that way, an absolute surprise to them.
22 I always hope it's not going to be that way, and I would
23 say, "Look, I know I'm saying this to you, but please do
24 not give up hope either just because I'm telling you
25 these things".

29

1 was they did travel in hope, real hope, that something
2 might be possible.
3 A. Yes.
4 Q. And they believed they were given that hope by at least
5 Dr Nesbitt from Altnagelvin. And when they had the
6 discussions with you and Dr Hanrahan, they felt that
7 they were understanding what the true position of their
8 child was and the juxtaposition of those two things was
9 actually quite difficult: the hope with which they had
10 travelled and yet the reality that they were being
11 introduced to by you and Dr Hanrahan. One of the things
12 that Mr Ferguson said -- and he attributes this comment
13 to you. The reference is the transcript of
14 26 March 2013, page 161:
15 "The words coming from his mouth[that's you] were
16 before he went out, 'What's Altnagelvin trying to do
17 here, pass the buck?' That sticks with me from that
18 meeting."
19 Sorry, the actual words he did say was:
20 "Don't quote me on this, 'Are they trying to pass
21 the buck here?'"
22 That's obviously something that stuck with him. And
23 that actually, if it's correct that you said that, puts
24 a slightly different understanding from you as to why
25 Raychel was being transferred to the Children's

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1 Q. You have nonetheless given them what you think is the
2 likely possibility, but nonetheless said, "We're going
3 to the specialist centre; maybe something can be done
4 there"?
5 A. I'm saying that from my practice in the intensive care
6 unit, but I think that people in the district general
7 hospitals can be a bit more optimistic because they're
8 not used to dealing with ... I was here when Ian Carson
9 was here the other week and you showed him -- it was an
10 audit, I think, Dr Taylor did, and it showed -- I can't
11 even remember which year it was, but it showed the
12 mortality rate that year. It was maybe 20, 30, 40
13 children died. I worked in intensive care for 21 years
14 and, when you multiply those figures up, many children
15 in the Province have died in our intensive care unit.
16 So death is something we see on a regular basis. So
17 maybe our way of dealing with death can be different
18 from the way people who don't see children dying --
19 their way of dealing with it can be maybe a bit
20 different.
21 THE CHAIRMAN: Yes.
22 A. That's all I'm trying to say.
23 THE CHAIRMAN: I've got it, doctor, thank you.
24 MS ANYADIKE-DANES: Raychel's parents have given evidence on
25 their discussion with you because their clear evidence

30

1 Hospital. Can you comment on that?
2 A. I have no recollection of saying that and it's not
3 a phrase that I recognise that I would even use. I just
4 have no memory of that.
5 Q. If you didn't say that, did you voice that sentiment or
6 could you have voiced that sentiment?
7 A. I ... It's just not something I feel -- it's not
8 a sentiment I would have -- I believe I would have used.
9 As I've said to you before I recognise the difficulty
10 that the district general hospitals have with very, very
11 ill children and it was pretty much routine that they
12 would have been transferred to Belfast for continuing
13 care, even when there was little or no hope at that
14 time.
15 Q. I understand. That's not actually quite the point that
16 Mr Ferguson's making. It's your suggestion that they
17 did not truly believe that there was any hope or
18 anything that could meaningfully be done for her and
19 that they were transferring her simply so that the bad
20 news, the fatal event, would happen at the
21 Children's Hospital rather than Altnagelvin. That's
22 actually the essence of what he's saying.
23 THE CHAIRMAN: Yes, but I'm sorry, the comment that is
24 remembered or the way in which it's remembered isn't
25 consistent with what Dr Crean has said because Dr Crean

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1 has said you expect, and perhaps you even want, children
2 like Raychel to be sent to the Royal because there might
3 be something to be done and it also takes away the
4 concern the parents have afterwards that more should
5 have been done.
6 A. I think the parents have the rest of their lives to
7 think about things and if we can assist in any way for
8 that memory, if we can at least show them that we have
9 tried everything, that every stone has been -- we've
10 looked at every aspect and we've got the specialists in,
11 at least they know that everything that could have been
12 done was done.
13 MS ANYADIKE-DANES: Yes, but if you leave aside the passing
14 the buck element of it, what it does seem to suggest
15 is that there was some discussion between you as to
16 perhaps the quality of the management of her care at
17 Altnagelvin. Are you likely to have discussed with them
18 her care at Altnagelvin?
19 A. With the mum and dad?
20 Q. Yes.
21 A. I doubt it at that time. I think we were just trying
22 to ... Probably just trying to get over the concept
23 that she wasn't going to live any more.
24 Q. You see, their evidence went into a bit more detail than
25 that, that you continually asked them about how many

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1 and you say that you don't have a very clear
2 recollection of those events.
3 A. Which events, I'm sorry?
4 Q. Of any of it, really. I thought you said.
5 A. That's correct, yes.
6 Q. But you are recorded as having formed a view -- and I'm
7 not sure that you're resiling from that -- that you had
8 formed the view at some stage that there was
9 mismanagement of her care at Altnagelvin.
10 A. I have no doubt that that was my view when I phoned the
11 coroner up in October 2001.
12 Q. Thank you. Is that something that you communicated to
13 Altnagelvin?
14 A. Um ... I'm more of the opinion that that is something
15 that was communicated to me by Altnagelvin.
16 Q. Sorry?
17 A. I'm more of the opinion that that is more likely to be
18 something that Altnagelvin provided to me. I think
19 I would have only got to know that through the working
20 party, the working group that started in September,
21 I think. Because there must have been some discussion
22 around Raychel's management. I don't believe I ever
23 reviewed a fluid balance chart or her notes. I think
24 probably the first time I did that was maybe looking at
25 them on the inquiry website.

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1 times she had vomited, whether the vomit had any traces
2 of blood in it. There's actually quite a bit of detail
3 from them as to --
4 A. We would have --
5 Q. -- sorry, if I may just finish -- which all goes to the
6 issue of fluid management. And then if you look at the
7 fact that the coroner seems to have recorded from his
8 telephone conversation with you mismanagement of the
9 case at Altnagelvin, does that all not point to the fact
10 that you thought things had not been properly managed in
11 terms of her care?
12 A. I think that by the time I phoned the coroner up, it was
13 evident that there were errors in her management. The
14 working group -- which I'm sure you're going to come to
15 later anyway -- the reason why that working group
16 started was because of Raychel's death. So there would
17 have been issues around her care, I am sure, discussed
18 at that working group.
19 Q. Yes.
20 A. So I would have learnt things probably from there.
21 That's all I can really say at the moment.
22 Q. I understand.
23 A. What I knew then and what I knew four months later,
24 I would suggest were probably different.
25 Q. Well, the chairman has their evidence and he has yours,

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1 Q. You reported Raychel's case to the coroner.
2 A. Yes.
3 Q. Why did you do that?
4 A. Because she was a post-operative death.
5 Q. Sorry?
6 A. Because she was a post-operative death.
7 Q. And you mean insufficient time had elapsed from her
8 operation?
9 A. It would have been normal practice that if a child has
10 died following an operation that you would inform the
11 coroner.
12 Q. On the brainstem death test sheet there is a place to
13 say whether this is a coroner's case; that's correct,
14 isn't it? We'll turn it up just in a minute. And you
15 sign the brainstem death test sheet with Dr Hanrahan.
16 We can pull it up now. It's 063-010-024.
17 The final question:
18 "Is this a coroner's case?"
19 It's left blank.
20 A. Well, we hadn't informed the coroner at that stage,
21 I guess. I think what this is probably to do with
22 is that ...
23 Q. No, no, sorry, that question is not "Have you informed
24 the coroner?", the question is "Is this a coroner's
25 case?"

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1 A. Okay. I don't actually remember having filled that in
2 on that before.
3 Q. Well, should it have been filled in "yes"?
4 A. I can't -- I have to answer yes, of course it should
5 have been, but I don't remember having filled it in
6 before for anyone.
7 THE CHAIRMAN: Okay.
8 MS ANYADIKE-DANES: It is filled in in the affirmative for
9 some of the children that are the subject matter of the
10 inquiry. It wasn't filled in in the affirmative for
11 Lucy, which was an issue that we took Dr Hanrahan to.
12 In any event, having completed that brainstem death
13 test, and so you were recording her as brainstem dead,
14 in your view was there any doubt that she was going to
15 be a coroner's case?
16 A. No.
17 Q. She could have been a coroner's case on the basis of
18 possible negligence; isn't that right?
19 A. Yes, that's correct; yes.
20 Q. In fact, one of the reasons to refer is that the person
21 has died either directly or indirectly as a result of
22 negligence or in such circumstances as may require
23 investigation. That's section 7 of the Coroner's Act of
24 Northern Ireland. And all clinicians dealing with
25 children or anybody who dies, for that matter, have an

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1 at the moment because I didn't have the notes available
2 to me at the time to say something as robust as that.
3 But there was some sort of an issue there, I would agree
4 with you. I think the most we probably said is "Look,
5 it's probably related to something to do with the
6 fluids".
7 Q. Thank you. I just want to ask you a little bit about --
8 if we go back to the growing knowledge about the
9 importance of appropriate fluid management and the role
10 of low-sodium fluids in that that was being developed
11 at the Children's Hospital.
12 I had asked you some of those questions in relation
13 to Lucy, whether the Children's Hospital might not have
14 been able to produce some guidance prior to the CMO's
15 guidelines or at least disseminate the information and
16 experience that they had gained about the risks involved
17 in the use of low-sodium fluids. So I want to ask you
18 about what might have been being disseminated.
19 A. Can I maybe just --
20 Q. Of course.
21 A. It's the potential risk of the inappropriate use of
22 low-sodium fluids.
23 Q. Yes.
24 A. Potential risk of inappropriate use.
25 Q. That's what I mean. That's why there is a risk

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1 obligation to refer and that act tells you the bases on
2 which you make a decision as to whether the case should
3 be referred.
4 So what was the basis for referring Raychel?
5 A. I think it was on the basis that she was
6 a post-operative case. I mean, it was a totally
7 unexpected outcome from a simple operation, and I think
8 it was that, and somehow the electrolyte disturbance was
9 in some way related to the fluids, her fluid balance
10 at the time.
11 Q. And if the electrolyte disturbance is somehow related to
12 fluid balance, fluid balance is a matter that can lead
13 you to human intervention, isn't it?
14 A. Yes, that's correct, yes.
15 Q. And that's what you thought at the time, wasn't it, that
16 the way in which her fluids had been managed, for
17 whatever reason, had led to the development of her
18 cerebral oedema and her collapse? That's what you
19 thought.
20 A. I think even a non-medical person would have come to
21 that conclusion as well.
22 Q. So that means if it was the way in which her fluids were
23 managed, that means some problem at Altnagelvin,
24 mismanagement?
25 A. I don't know. It ... I really just can't answer that

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1 surrounding it. The risk surrounding it is that it can
2 be inappropriately used and we've seen the evidence of
3 how easily that can happen and if it is inappropriately
4 used that can lead to injury and fatal outcomes.
5 A. Yes. To put it sort of into context -- and I in no way
6 wish to diminish what has happened to Raychel -- but
7 having worked in the intensive care unit for over
8 20 years I saw some extremely rare syndromes and I'm not
9 going to go through what they were, but there was one
10 I remember, it's got an incidence of 1 in 200,000 live
11 births and recently a case like that was mentioned at
12 our mortality meeting. And most of the people there
13 hadn't even seen one child like this in their working
14 experience. I'd seen two.
15 Raychel's the only child that I've ever seen where
16 this has happened to them in the post-operative period.
17 It is a very, very rare thing that's happened and it's
18 extremely -- it's a terrible thing for the family, but
19 in the context of my working practice, this was an
20 extremely rare event.
21 Q. You mean it's extremely rare that she died?
22 A. Yes.
23 Q. It's not extremely rare, is it, that her poor fluid
24 management could lead to hyponatraemia?
25 A. Well, you know, hyponatraemia is one of the most common

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1 electrolyte problems. What I've done as well -- I've
2 been doing other types of audits in recent years as
3 well, and one of the audits we have been doing is the
4 biochemistry laboratory can generate reports for us and
5 it can identify any child who's had a sodium less than
6 130. And it's actually surprising the number of
7 children who came into the hospital through the A&E
8 department with low sodiums. And they've just been
9 managed at home with oral hydration and their sodiums
10 have been very low as well. Some of them are as low as
11 126, 127, 128. So it's a common thing to see.
12 Q. Yes, but if I may bring you to the area that we're
13 interested in, we're interested in hospital-acquired
14 hyponatraemia.
15 A. Yes. Okay.
16 Q. That's the first distinguishing factor. Not something
17 that happens at home and the child arrives with it. But
18 the point that I'm putting to you is: it may well be
19 rare for a child to die, but for a child to have their
20 fluids inappropriately managed so that they develop
21 hyponatraemia is not necessarily rare and is not the
22 point to communicate that once you mismanage the fluids
23 and they get to a stage where they have developed
24 hyponatraemia, unless you are monitoring the child,
25 unless you take corrective action, then things can

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1 I would ask you, sir, to consider, or ask
2 Ms Anyadike-Danes to consider putting into the question.
3 One of them is the evidence, whether it's ultimately
4 accepted by this inquiry or not, the evidence of the
5 extra amount of fluid as put forward by Dr Nesbitt,
6 either 75, in rough terms, or 140 extra millilitres, if
7 that was put in numerical terms to the witness.
8 And secondly, missing from the equation in the
9 question was the relevance or otherwise of SIADH. So if
10 we're going to put this, really, it should all go into
11 the question.
12 THE CHAIRMAN: We're not going to make a compendium
13 question. The fundamental point is that Raychel didn't
14 die up Slieve Donard or something; she was in a hospital
15 ward, she was in the constant care of nurses and doctors
16 and, similar to Claire's case, the seriousness of her
17 decline was not spotted. Do you agree with that?
18 A. Absolutely, yes.
19 THE CHAIRMAN: And that's the real problem. I understand
20 that it must be right that many other children who --
21 virtually all other children who received
22 Solution No. 18 have not died. Virtually all other
23 children who end up with low sodium in one way or
24 another do not die. But a child who's on a hospital
25 ward with a non-life threatening condition should not

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1 become very, very serious indeed? That's the learning
2 point, is it not?
3 A. I agree entirely with you. I think this was the -- what
4 you've just said there is the most important thing that
5 came out from the working group, absolutely. I agree
6 entirely with you there.
7 Q. And in terms of where things went awry in Raychel's case
8 at Altnagelvin, whenever you became in full possession
9 of the facts of how she was treated, leaving aside her
10 death, which was a rare thing, but you could have seen
11 that there was a potential problem there because she was
12 vomiting, she didn't have her U&Es appropriately checked
13 and she was being given all the time greater -- maybe
14 not hugely greater -- but greater than her needs to
15 maintain her fluids. So that combination of factors in
16 the light of the fact that she'd just had surgery -- and
17 that can have its own effects in terms of water
18 retention -- that was a risk right there: it needn't
19 have led to her death if appropriate monitoring had
20 taken place and if there had been a change to her fluids
21 and so forth. But if all that carried on, there was
22 a risk of real injury to Raychel. And you would be able
23 to see that.
24 MR STITT: Can I interject for one second? It was a rather
25 lengthy question, but there were two factors in it which

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1 deteriorate under the notice of the nurses and doctors
2 to the extent that she dies.
3 A. I was in no way trying to diminish what --
4 THE CHAIRMAN: I understand. Sorry, Dr Crean, I wasn't
5 trying to get at you in any way. But I think that's the
6 point you accepted because Ms Anyadike-Danes made it
7 a few moments ago and you said that is the most
8 important point.
9 A. Yes.
10 THE CHAIRMAN: You must monitor the child and take
11 corrective action. And I'm afraid, if we set aside
12 Adam's slightly different circumstances as another
13 variation of dilutional hyponatraemia, what happened in
14 Claire's case, what happened in Raychel's case -- and
15 we have to set aside Lucy in this at the moment because
16 there's a limit to our investigation there -- what
17 happened in Claire and Raychel's case is, on the face of
18 it, on the evidence before me, the children weren't
19 monitored and corrective action wasn't taken.
20 A. I agree with you.
21 MS ANYADIKE-DANES: Thank you, Dr Crean, and thank you very
22 much indeed, Mr Chairman. That was the point I was
23 actually getting at: you had that knowledge and
24 experience, not just you, but your colleagues also
25 at the Children's Hospital, that if you carry on with

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1 a situation like that and do not take corrective action,
2 then what may be a slightly ill child, who can come
3 through, can deteriorate, and if absolutely nothing
4 changes from that pathway, that can lead to a fatal
5 cerebral oedema.

6 You didn't see many fatal cerebral oedemas in those
7 circumstances, but that may well be because some
8 corrective action is taken. But the point that I'm
9 asking you is: you appreciated those dangers. And what
10 I'm inviting you to consider is why it was that the
11 Children's Hospital did not see fit to adequately
12 communicate those dangers to district hospitals in
13 a more systematic way.

14 A. Well, the ... The first surgical ward I worked in was
15 in 1976. And okay, it was an adult ward, but I remember
16 in the evening time before I went home, filling out the
17 blood bottles to do biochemistry checks the next morning
18 on everybody on IV fluids. We did a morning ward round,
19 we did an evening ward round before we went home to
20 reassess the patients there. So if there had been
21 a change in a patient's status, you would pick that up.
22 And that's basically what you're alluding to. This was
23 nothing new. This was just good medical practice at the
24 time and it had been embedded in my practice for many,
25 many years.

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1 Children's Hospital taking it upon itself, or you for
2 that matter, in a more systematic way to produce some
3 sort of guidance to remind clinicians of the dangers of
4 mismanaging IV fluids in children?

5 A. I think that debate was ongoing within our own hospital
6 as well, and I think we were trying to convince our own
7 paediatricians that change should be implemented as
8 well. It was a general thing. I also heard what
9 Dr Carson was saying as well, that this type of linkage
10 between Children's Hospitals and district general
11 hospitals really wasn't well formed. I think he gave
12 the --

13 THE CHAIRMAN: He did, and I'm going to ask you about that
14 later because you've been -- you're still in practice
15 and you've certainly been in practice more recently than
16 Dr Carson.

17 A. Yes.

18 THE CHAIRMAN: So I have a note towards the end of your
19 evidence that I want you to contrast how this
20 communication works now as opposed to how it did then.

21 A. What we did back then in trying to -- and you can
22 criticise the kind of things we might have talked about,
23 but we did actually try in 1999 to set up a group of, if
24 you like, the lead paediatric anaesthetists in all the
25 district general hospitals. In many ways that was quite

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1 In the intensive care unit we did that, we did
2 a morning round, we did an evening handover round.
3 I even came in in the evening at about 10 or 11 o'clock
4 at night to reassess children before I went to bed. And
5 it's about assessment and reassessment and re-evaluation
6 and that has been embedded in my practice since I was
7 a houseman.

8 Q. Yes.

9 A. It wasn't something new and it wasn't --

10 Q. But you knew that in the district hospitals there was
11 poor fluid management from your point of view. In fact,
12 you knew -- and you told us when you were giving
13 evidence in relation to Lucy -- that when that sort of
14 thing happened and you perceive that it had happened
15 in relation to Lucy, that you would communicate in
16 a tactful way with the responsible clinician and point
17 out some of the difficulties in the way that the fluids
18 had been managed for that particular child. That was
19 your evidence.

20 An example of having done that, you said, was your
21 communication with Dr O'Donohoe. So what I'm putting to
22 you is that you knew that, that it was happening out
23 there for reasons of bad practice, maybe for whatever
24 reason, but it was happening. And since it's
25 a potentially very serious thing, why wasn't the

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1 innovative within the UK at the time. That wasn't
2 something that was happening in very many places around
3 the UK. And that was just to try and get the people who
4 were taking a lead for paediatric anaesthetic care in
5 the hospitals to kind of come together, to have a forum
6 to discuss things, and to try and take things forward.

7 I agree with you, we could maybe have discussed
8 fluids, but I think at the time all I was trying to do
9 was just getting a debate going so that we could trust
10 each other, we could work together and let people in the
11 district general hospitals set the agenda rather than it
12 always being from the centre outwards.

13 MS ANYADIKE-DANES: I think the group you're talking about
14 is the Paediatric Anaesthetic Group for
15 Northern Ireland --

16 A. Yes.

17 Q. -- which I think you were instrumental in setting up.

18 My question is not directed to what individual
19 clinicians did because you took the initiative to
20 establish that group and Dr Taylor took the initiative
21 to establish the Sick Child Liaison Group, which is
22 based in Antrim Hospital, I believe, and that group did
23 produce guidelines on bronchiolitis and meningococcal
24 disease. What I'm inviting you to consider -- and I do
25 this given your position, you were a lead consultant at

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1 that time in the Children's Hospital, a very senior
2 person -- I'm inviting you to consider whether it wasn't
3 the case that the Children's Hospital could do something
4 so these important developments are not left to
5 individual clinicians, seeing where the gap is and
6 trying to fill that themselves with their own limited
7 resources in terms of time and so forth, and it becomes
8 a more systematic thing that the Children's Hospital
9 does.

10 The reason I'm asking about the Children's Hospital
11 in particular is because it was the regional centre of
12 excellence for paediatric care. It was the only
13 hospital offering paediatric intensive care facilities,
14 and, at that regional level, the whole region was its
15 community. So that's why I'm asking you whether there
16 wasn't any thought amongst you senior clinicians that
17 this is something that the Children's Hospital could do.

18 A. I think that really what you're alluding to is the
19 development of networks of care, which is something
20 people speak about much more in recent years. I don't
21 think that was something that was in any way established
22 back then. I think that the groupings that we had set
23 up were very informal, we just met in the evening time,
24 in our own time, and we took turns to host those
25 meetings. But they weren't formalised links as --

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1 deaths of children in these circumstances, where there's
2 not major surgery, some of them didn't have surgery at
3 all. So it's a clear highlight to the potential danger
4 involved in inappropriate use of low-sodium fluids.
5 Let's put it like that.

6 And then it goes on to talk about -- before it goes
7 into referring to major paediatric surgery, just
8 undergoing surgery. So the first thought was that this
9 was significant for the future management of patients
10 undergoing paediatric surgery. And the thought was that
11 they should be carefully monitored and reappraised
12 in relation to the information now available. The part
13 of the information available was that paper that's
14 referred to.

15 Although it's got "major surgery" there, it goes on
16 to talk about children who have a potential for
17 electrolyte imbalance and being carefully monitored
18 according to their clinical needs and so on, and refers
19 to the "now known complications of hyponatraemia" and
20 all that being assessed.

21 So even if something along those fairly general
22 lines was put out, do you not see how those engaged in
23 paediatric surgery in hospitals like Altnagelvin would
24 have considered that helpful because it would have
25 pointed them immediately to some of the issues that in

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1 Q. I appreciate that. I'm only --

2 A. I know what you're getting at. I can't say that that
3 would have been a bad thing to do. It would have been
4 a great thing to do. But it's not what was happening
5 back then, unfortunately.

6 Q. Well, then, I move on to if the Children's Hospital
7 itself wasn't going to issue guidelines in fluids
8 because it didn't do that sort of thing, whether you
9 senior clinicians could. If I just pull this up -- and
10 the chairman has referred to Adam's case -- could we
11 pull two documents up side by side, 122-013-001 and
12 060-019-038?

13 These are drafts of a draft statement that
14 ultimately was presented to the press and to the
15 coroner. I appreciate that your evidence has been that
16 you didn't see this particular one. What you saw was
17 a draft practice statement that relates to how the
18 anaesthetists, and for that matter the Children's
19 Hospital, was going to conduct practice in relation to
20 cases like Adam's, but if we stay with this one for the
21 moment. Maybe you can see how those at Altnagelvin and
22 other places which do surgery might have felt they could
23 benefit from this kind of statement.

24 The first thing it does is it refers them to the
25 Arieff paper in 1992, which of course talks about the

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1 fact arose in Raychel's case?

2 A. That's probably best answered by the people in the
3 district general hospitals and how they would have
4 engaged with that information if they'd received it.

5 Q. Yes. If they received it, that's the point.

6 THE CHAIRMAN: Sorry, Ms Anyadike-Danes, we've been through
7 this area quite a few times before. Let's move on.

8 MS ANYADIKE-DANES: Thank you.

9 THE CHAIRMAN: We don't need to go back over everything
10 today.

11 MS ANYADIKE-DANES: When you were considering Adam's case,
12 you said that one of the things you learnt -- in fact
13 one of the two significant things you learnt -- the
14 first was that children can die of dilutional
15 hyponatraemia. You said that was the first case where
16 you had appreciated that that could happen; is that
17 correct?

18 A. Yes, that's right.

19 Q. Well, leaving aside anything else, was that not
20 a message to be got out? If you hadn't come across it
21 and therefore you weren't aware of it, was that not
22 something to be got out?

23 A. Yes, it is, and I think that that was something that
24 I picked up on when I read Dr Nesbitt's evidence as
25 well. I know that you put it to him that Dr Chisakuta

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1 had given a talk where that was part of the talk,
2 I think. But there's also a duty of people working with
3 children to keep up-to-date. I mean, some of the
4 hospitals around the Province anaesthetise 2,000/2,500
5 children a year so it is important that they do keep
6 up-to-date as well. There's an onus on them that they
7 should take journals like Paediatric Anaesthesia and
8 read them. So we've all an onus to keep up-to-date in
9 our own specialty and sub-specialty.
10 Q. That's agreed. But the fact is that you are likely to
11 have around you in the Children's Hospital a greater
12 concentration of that kind of specialism. And if you
13 hadn't seen a death or appreciated that there might be
14 a death from dilutional hyponatraemia, then it's quite
15 possible that those in the district hospitals wouldn't
16 appreciate that either, and since that had come to you,
17 all I was putting to you is it might have been
18 appropriate to get that message out.
19 A. Look, I can't disagree with that comment.
20 Q. Thank you. Then if we pick up the point that the
21 chairman had put to you. Another message that might
22 have gone out to reinforce matters is the absolute
23 importance of fluid management, and you had seen that in
24 Lucy. Lucy's was a case -- I know we're not going into
25 the reasons why she came by her demise, but you

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1 think, certainly in Northern Ireland, that things have
2 improved a lot.
3 I mentioned a little while ago about the audit we
4 did in children whose sodiums are less than 130. And
5 what I have to do is go through every single set of
6 notes and look at -- and what we're really auditing is
7 children who are on intravenous fluids therapy, who
8 develop a sodium of less than 130. And I have to
9 quality assure the notes and see if the appropriate
10 things were done, if it's documented in the notes and
11 how everything is followed up. And I am impressed
12 nowadays by the quality with which children are now
13 managed, whose sodiums are less than 130.
14 A major part of this, Mr Chairman, is because of the
15 outcome of Raychel's sad death and this inquiry as well,
16 that it has moved things on a huge amount in this
17 province.
18 THE CHAIRMAN: Can I ask you this: when you said a few
19 minutes ago that when you were trained in the 1970s,
20 fluid management was given very high importance, does
21 that suggest that its importance somehow slipped a bit
22 and then has reasserted itself in more recent years?
23 A. I'm not sure, Mr Chairman. I worked with a fantastic
24 group of people back then. They were very, very good.
25 THE CHAIRMAN: Right.

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1 discussed her fluid management in the course of giving
2 your evidence and, in your view, her fluid management
3 may not have been appropriate. Is that not something
4 that could have been also got out?
5 A. I think the importance of fluid management in all
6 patients has been underrated.
7 Q. Sorry?
8 A. I think the fluid management in all patients has been
9 underrated or undervalued in its importance. There was
10 a paper that came out -- I think it was around
11 2001/2002 -- and it highlighted the fact that fluid
12 prescriptions and management in the ward situation,
13 hospitals was nearly always managed by the most junior
14 member of the team. And it was the junior member of the
15 team that had the least knowledge in fluid management.
16 But that was the way it was done over a decade ago and
17 I think things have come a long way since then.
18 All the things that you've said are true. It should
19 have had a much higher importance. When I worked in
20 a surgical ward back in the 1970s, it was of very high
21 importance. But I suppose it just depends on who you're
22 working with, the senior people who are on your team,
23 and how they teach you and engender that ethos within
24 you. But you're right, I mean, it is an extremely
25 important aspect of medical care, and I would like to

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1 A. And they would have killed me if I'd done the wrong
2 thing. They would have been on my case immediately.
3 They were just very, very proactive, very smart people,
4 and I just am grateful that I worked with them at the
5 time.
6 THE CHAIRMAN: Okay, thank you.
7 MS ANYADIKE-DANES: If we just go on to talk about what
8 happened, perhaps in the light of what you have just
9 said there about the use of Solution No. 18 in the
10 Children's Hospital. The point that you have just made
11 to the chairman then, is not a task to make sure that
12 the learning or the training is improved for everybody
13 so that it's not just by chance that you are exposed to
14 the importance of certain things in relation to the
15 management of children's care, but that everybody is
16 exposed to that degree of importance?
17 A. Yes, you're right. The amount of effort -- it's not
18 right in here yet. We're better than most places, but
19 the amount of work that has gone into this in
20 Northern Ireland to try and improve it is a huge piece
21 of work and I think it takes that level of commitment by
22 people to move it forward. I don't think there is that
23 level of commitment elsewhere in the UK. That's one of
24 the reasons that I wanted to get involved with NICE to
25 try and bring what we have learnt locally here in

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1 Northern Ireland to --
2 Q. I'm going to ask you about that.
3 THE CHAIRMAN: Let him finish.
4 A. It was really just to try and bring the learning here,
5 to try and disseminate that learning. Because one of
6 the things that I wanted NICE to do was to look at
7 education as well as just which fluids, and what they do
8 is they do a whole evidence base and they have questions
9 designed around that. But I asked them to do something
10 more than that and it was about education, about fluid
11 prescription and fluid balance charts, that there should
12 be like a generic template for that throughout the
13 United Kingdom, much in the way things have developed
14 here in the Province.
15 I believe we've done a lot of work on this and
16 there's a lot of learning about this that can be
17 disseminated to all hospitals in the United Kingdom
18 where children are managed. In fact, one of the
19 spin-offs that has happened locally here in
20 Northern Ireland is that we've been re-evaluating the
21 way adult fluid management prescription charts are
22 managed as well and that has been -- that profile has
23 been raised as well.
24 THE CHAIRMAN: Thank you.
25 MS ANYADIKE-DANES: You were asked about the changes in use

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1 319-087a-001. And then there was another letter, which
2 retracted some of the information in that first letter
3 and provided order numbers, which showed a dropping off
4 from about April 2001. In other words, before Raychel.
5 The reference for that is 319-087c-003.
6 If we can maybe pull that up. That was it. You
7 didn't recognise that either, I don't think.
8 A. No. I mean, I see what you're showing me there, but
9 I don't remember something happening where that effected
10 that change is really what I'm trying to say.
11 Q. And then I think that we have had another letter from
12 DLS of 23 August 2013, seeking to explain matters
13 further. We can pull that up. It's 321-073-001. And
14 if we get the 002 on, just to make sure there's -- I
15 don't think there's anything relevant there.
16 So it all happens in that paragraph which starts
17 "paragraph 213". This is directly relating to
18 Dr Nesbitt's telephone survey. If we can substitute
19 022-102-317 for that letter. There we are.
20 It says:
21 "Children's Hospital anaesthetists have recently
22 changed their practice and have moved away from
23 Solution No. 18 to Hartmann's solution. This change
24 occurred six months ago and followed several deaths
25 involving No. 18 Solution. Craigavon Hospital and the

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1 of Solution No. 18 when you were giving evidence
2 in relation to Lucy. I think I specifically put to you
3 the evidence of Dr Nesbitt, of what he said he was told
4 about the children, that the reduction and actual
5 elimination of the use of Solution No. 18 about six
6 months before Raychel's death, and you responded with
7 really not understanding how that could be because it
8 didn't equate with your experience. Would that be
9 a fair way of summarising it?
10 A. Is it my response to the inquiry a couple of weeks ago,
11 you mean?
12 Q. No, when you were giving evidence in relation to Lucy
13 you said you weren't aware that there had been a change
14 of that sort.
15 A. That's correct.
16 Q. In your own practice you didn't use Solution No. 18 very
17 much and you weren't aware that the Children's Hospital
18 had reached an abrupt point six months or thereabouts
19 before Raychel's death when it was no longer using
20 Solution No. 18. That was the essence of your evidence;
21 is that correct?
22 A. Yes, and you showed me a graph, at that time --
23 Q. I did.
24 A. -- which surprised me, to say the least.
25 Q. We won't pull it up now, but the reference for that is

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1 Ulster Hospital both use Hartmann's intraoperatively and
2 No. 18 post-operatively [which is what Altnagelvin was
3 doing]. The anaesthetists in Craigavon have been trying
4 to change the fluid regime to Hartmann's
5 post-operatively, but have met resistance."
6 So this paragraph is seeking to address that and the
7 evidence that we have already been provided about the
8 use of Solution No. 18. Firstly, did you provide this
9 information?
10 A. Yes, and I must apologise for this because I was
11 completely mistaken about this. I was actually on my
12 holidays at the time and I got the opening statement for
13 this part of the inquiry; it came through on my phone as
14 an e-mail attachment. It was the first time I'd seen
15 this statement that -- I'd heard before about the change
16 in practice and moving -- and not using No. 18, but it
17 was the bit where it said about "to Hartmann's
18 solution". And I don't believe I had seen that before.
19 So all I thought was at the time, "Goodness, if
20 that's ..." It was the perioperative thing as well,
21 which means intraoperative and post-operative. And
22 I thought, "Goodness, maybe that means we had changed
23 from a hypotonic solution to Hartmann's for the
24 intraoperative period", but in fact that was completely
25 wrong.

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1 Q. This is incorrect?
2 A. Totally incorrect. We were the same as everyone else:
3 we were using Hartmann's as the intraoperative fluid,
4 the way all the other hospitals were as well. So I was
5 wrong and I apologise for that.
6 THE CHAIRMAN: Thank you very much. That clarifies that.
7 MS ANYADIKE-DANES: So the position remains as: there is
8 a change, you're not entirely sure why though?
9 A. Yes, but can I ... Let's look at the statement as it
10 sits there because the statement is there was a move
11 away from fifth-normal saline to Hartmann's about
12 six months before Raychel had been admitted to
13 Altnagelvin Hospital. So you'll be looking for
14 supportive evidence to show that there was a change
15 there. So I would have thought, the way you showed me
16 the graph of the change in use of No. 18 Solution, there
17 would be a change in use of Hartmann's solution if there
18 was a change in practice.
19 I know that there's a document here -- can I mention
20 it? Is that okay?
21 THE CHAIRMAN: Yes.
22 A. It's 321-054c-002. That's basically the use of
23 Hartmann's in the Children's Hospital over a three-year
24 period. And to my eyes, there doesn't really seem to
25 have been a change in the usage of that solution. Look,

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1 clear in his mind that that's what he was told.
2 A. Okay. I'm just trying to --
3 Q. I understand that. Not only that, when we asked for the
4 usage, if I can put it that way, as measured by the bags
5 being ordered for Solution No. 18, we saw a fall. So
6 we're simply trying to understand. And the only
7 relevance of trying to understand all of that is
8 obviously if the Children's Hospital has made a decision
9 like that or altered their practice in that way, then it
10 raises the question of whether they should not have
11 shared that with the other hospitals. In fact, the
12 clinical director of paediatrics at the time, Dr Hicks,
13 says that if they had changed their practice in that way
14 then she believed it was reasonable to criticise the
15 Children's Hospital for not advising other hospitals.
16 And that's in the transcript of 7 June of this year at
17 page 43. We don't need to go into it. So that's the
18 reason why we were looking at it.
19 Since then, we have received a statement from
20 Dr Paul Loan, and it's worth pulling this up. It's
21 witness statement 360/1, at page 2. And if you can
22 bring up page 3 alongside it. So you can see just for
23 those who may not have seen this statement before,
24 Dr Loan in that second paragraph is appointed as the
25 consultant paediatric anaesthetist in 1996. He had

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1 we would have used it mainly in theatre, but it was used
2 in the wards as well. I now know that people like
3 Dr Loan favoured that solution and other people favoured
4 it as well, but some people, probably like myself, were
5 used to using hypotonic solutions as well.
6 I think many of us at that time who had who had been
7 a bit longer were concerned about changing practice,
8 changing fluids to something we weren't as comfortable
9 using. Because the evidence at that time wasn't strong.
10 You had almost two diametrically opposed views of what
11 fluid balance should have been around 2000 and 2001.
12 You were worried about moving away from your comfort
13 zone to something else in case it could do harm.
14 I, for example, recently have seen children who have
15 been on non-glucose-containing fluid who have developed
16 profound hypoglycaemia and now very young children in
17 our hospital, children under five -- I would think
18 they're nearly on normal saline with 5 per cent glucose.
19 About three-quarters of the post-operative fluids in the
20 first 24 hours are glucose-containing fluids and
21 Hartmann's didn't routinely contain glucose; you had to
22 get it specially made that way.
23 MS ANYADIKE-DANES: Dr Crean, all we were trying to do is to
24 try and see what might lie behind the very clear
25 statement that Dr Nesbitt has made. He's absolutely

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1 training, as did Dr Taylor and others, at the Sick
2 Children's Hospital in Toronto, and he returned in 1997.
3 You see that from the middle paragraph. He became
4 educational supervisor in anaesthesia for the
5 Children's Hospital. That involved coordinating the
6 educational programme and assessments for junior
7 anaesthetists and medical students during their
8 anaesthesia attachments to the Children's Hospital.
9 So that's his position, but you're aware of who
10 Dr Loan was and is?
11 A. Yes, I have a very high regard for him.
12 Q. So he sets out his own concerns about the use of
13 Solution No. 18, which he brought back with him from
14 Canada.
15 THE CHAIRMAN: Sorry, have you seen this statement before,
16 doctor?
17 A. Yes, I saw it -- it was yesterday or the day before,
18 I think.
19 THE CHAIRMAN: Thank you.
20 MS ANYADIKE-DANES: He talks about introducing his students
21 to that, so they were taught about the potential risks
22 in the use of low-sodium fluids. In fact, he says there
23 in that middle paragraph:
24 "I consistently taught my approach to fluid balance
25 in children to these groups."

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1 And he gave regular talks on fluids and blood
2 products and so forth:
3 "Many paediatricians seemed to believe with some
4 reason that the evidence of any harm from hyponatraemic
5 fluids [as he calls them] in paediatric medical patients
6 was weaker than in surgical patients, so an
7 anaesthetist's interpretation of the literature did not
8 apply to their own patients."
9 And that's one of the reasons why he felt it
10 important to address them.
11 And then he thinks some of that may have had an
12 effect in the reduction in the use of Solution No. 18.
13 He's not claiming that for himself. Then he goes on
14 in that penultimate paragraph to talk about
15 Mr Trevor McNulty. Are you aware of who he is?
16 A. Yes.
17 Q. He was appointed as the resuscitation training officer
18 at the Royal Group of Hospitals soon after Dr Loan's
19 appointment. He says he was a "vigorous proponent of
20 the APLS style of fluid management" and he describes him
21 as "a forceful and didactic teacher". He thought his
22 teaching methods might have had more effect.
23 Then he comes to something that may be closer to
24 what could have given rise to a change in practice. He
25 describes how there came a time when they were going to

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1 A. I can't remember, but the important thing here is
2 it wouldn't have just been fifth-normal saline; it would
3 have been all hypotonic solutions. You must remember
4 that when you go back to the NPSA document that came out
5 in 2007, there they state that the most common fluid
6 in the alert that came out that they thought would be
7 used in Children's Hospitals would be half-normal
8 saline, and that is a hypotonic solution. So we have
9 upped the ante slightly, we have got a bit more sodium
10 into it, but it's still a hypotonic solution. So what
11 Paul has suggested there -- in an A&E department you're
12 resuscitating collapsed children and you need to give
13 them something like normal saline as a resuscitation
14 fluid and there was no place for any hypotonic solution
15 there. I think that is the point that he is making.
16 Although he has mentioned fifth-normal, that would go
17 for all hypotonic solutions. And that's best practice.
18 Q. Yes, but he has specifically mentioned Solution No. 18
19 and what I'm asking you is -- and I just want to capture
20 your answer -- were you aware that that had happened?
21 A. I honestly can't remember. I just can't remember at
22 this stage.
23 Q. Well, if that happened in the way that he has described
24 it, is that a practice that it would have been helpful
25 if the Children's Hospital had communicated to other

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1 reassess what went on to the contents of the
2 resuscitation trolleys. There was an exchange between
3 them. And if you see that bottom sentence:
4 "I suggested by e-mail that accidental use of
5 hyponatraemic fluids during resuscitation would be
6 counterproductive and dangerous and they should be
7 removed from the trolleys."
8 This was part and parcel of Dr Loan's concerns
9 about --
10 A. I would agree with that sentiment as well.
11 Q. And then if you see over the page:
12 "I believe that Mr McNulty accepted my argument and
13 Solution No. 18 and 5 per cent dextrose solutions were
14 removed. And following this, I heard that the removal
15 of hyponatraemic fluids had been extended to the entire
16 emergency medicine department in the Children's Hospital
17 for similar reasons."
18 So he is giving an explanation for why one might see
19 a reduction in the use of Solution No. 18: a combination
20 of teaching from himself and from Mr McNulty and also
21 what is a clear change in practice, which is the removal
22 of that solution from the trolleys for use in
23 resuscitation and also the removal, he says, of that
24 from the emergency department in the
25 Children's Hospital. Were you aware of that?

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1 hospitals?
2 A. Um ... It's almost so basic that I don't know why those
3 fluids were on our resuscitation trolleys in the first
4 place.
5 Q. Yes, but since they were and they were removed, it might
6 be that they are on resuscitation trolleys in other
7 hospitals. The question is really a simple one. If the
8 Children's Hospital have reached a stage where they
9 don't have that solution on their resuscitation trolleys
10 and they are extending that practice to emergency
11 medicine, is that not something that they might have
12 disseminated to other hospitals?
13 A. I can't disagree with you that the dissemination of this
14 is a good thing. But I don't think there was that
15 culture at the time to do things like that, to be quite
16 honest with you. If it was a perfect world, we should
17 have done all these things, and I agree with you
18 entirely on what your sentiments are.
19 Q. The culture, of course, is one for the
20 Children's Hospital to develop. They can set the
21 culture.
22 THE CHAIRMAN: There's more to it than that. And Dr Loan
23 says in the second paragraph, the first new paragraph on
24 the right-hand page, that this was incremental rather
25 than sudden, so he's saying there are several factors

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1 which feed into this and it happens over a period rather
2 than suddenly, though curiously the drop in the ordering
3 of Solution No. 18 is quite sudden.

4 A. It is, I agree with you. Can I follow on from what
5 you've said, chairman? I have written these two words
6 down to remind me that it's evolution and revolution.
7 Things evolved, there wasn't like some shining light in
8 most of our practices, the way things happen. Things
9 seem to evolve. And it's almost imperceptible the way
10 things change. And who notices the change most? It's
11 the trainees. People have said to me, "But I was
12 working here three years ago, you weren't doing it that
13 way", and things like that. I think just by discussing
14 things with new people coming to the department, things
15 you pick up in meetings, your practice does change, but
16 we almost don't notice it.

17 THE CHAIRMAN: Thank you very much. Doctor, we'll take
18 a break for ten minutes.

19 (11.55 am)

20 (A short break)

21 (12.10 pm)

22 MS ANYADIKE-DANES: I just want to ask you one final
23 question in relation to Dr Loan's witness statement.
24 If we might pull up witness statement 360/1 at page 2.
25 We can see in the middle of that page he says that he

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1 that you're not going to do harm with that change.
2 That's something that you need to be very careful to do.
3 Q. Yes. What I'm wondering is whether it was possible,
4 depending on who you were being trained by in terms of
5 who you were following, who the consultant group was
6 that you found yourself with, to have a different
7 training or teaching as to the appropriateness of fluids
8 at that time.

9 A. That's a possibility. That is a possibility. And also,
10 you have to take into account the age of the child as
11 well because what might be right for a 10-year-old might
12 be different for a six-month-old child as well. But
13 that variation in practice would be common in relation
14 to many things in medicine as well.

15 THE CHAIRMAN: Because there's not necessarily unanimity on
16 a single route. Different consultants have different
17 approaches?

18 A. And not only that, chairman, it's different things still
19 work and work well if they're done in the appropriate
20 way.

21 MS ANYADIKE-DANES: Yes. I don't mean so much that one size
22 doesn't fit all and so different conditions in children
23 merit different approaches. I don't mean that
24 variation. I mean the variation between what is
25 appropriate fluid management and not, and that will,

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1 found it difficult to challenge the widespread attitude
2 to fluid therapy and that he found there was
3 considerable resistance to any idea that previous
4 practice might be inappropriate, especially amongst some
5 senior paediatricians.

6 But then he talks about when he became education
7 supervisor, which he did shortly after his return, that
8 he taught his approach. In your view, was there
9 a consistent teaching of fluid management to the
10 trainees at that time in the Children's Hospital?

11 A. It's hard for me to remember. I think the one
12 consistent thing that we had was that if you were using
13 fluids for anything above the maintenance fluid, you
14 would use isotonic fluids. The maintenance fluids may
15 have varied between different people, but there would be
16 that consistency, over and above the maintenance fluids,
17 that we would use isotonic fluids, I think. I do feel
18 that that just reflected not just people's own practice,
19 but what was coming out from the literature at the time
20 as well. It was actually very hard. A lot of the
21 things that were coming out then were people's views
22 with a small number of case reports. There weren't
23 randomised controlled trials largely that were coming
24 out, there were just the odd cases. And I think that
25 you want to make sure that if you are going to change,

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1 of course, take into consideration that you're dealing
2 with a range of different scenarios.

3 A. Yes.

4 Q. Was it possible for trainees to be having different
5 training about that at that time?

6 A. They could be, and the trainees are -- they're smart
7 people coming through, and at the end of the day they
8 should be in a position to look at all the relevant
9 details and the relevant practices that are out there
10 and make up their own mind as to what is the most
11 appropriate thing to do as well. But I see where you're
12 coming from, that by giving conflicting advice and
13 conflicting thoughts, that can be confusing and it's
14 maybe not getting the relevant message through as well.
15 I take your point.

16 Q. Given that it was known that there were differences of
17 view between the anaesthetists and intensivists and the
18 paediatricians and maybe sometimes also the surgeons, so
19 given that that was known, was any thought given as to
20 how we can have an approach that perhaps doesn't confuse
21 within the hospital?

22 A. I can't remember anyone bringing that up for
23 consideration at the time. It would have been a good
24 idea, I think, but I don't remember that having been
25 discussed.

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1 Q. I presume Dr Loan might have voiced his view of how
2 difficult it was --
3 A. He was -- he was very good, actually, he was very, very
4 good and very vocal on those things. I think that he
5 was almost pivotal in changes that were made there.
6 Q. Just finally, there was something that came across when
7 you talked about people having to bear in mind the
8 changes in literature.
9 A. Yes.
10 Q. The 31 March 2001 lesson of the week is published --
11 that paper, I'm sure you have seen it. It's
12 043-104-228. If we lift that up so we can see the
13 marginal note:
14 "Do not infuse a hypotonic solution if the plasma
15 solution concentration is less than 138."
16 It's a fairly stark instruction. So that would have
17 come obviously before Raychel. But is that the sort of
18 thing that influences practice in the
19 Children's Hospital?
20 A. I think it's the sort of thing that can influence
21 practice around the world, not necessarily just the
22 Children's Hospital.
23 Q. Yes, but I'm thinking about the Children's Hospital and
24 I'm thinking of you there, on the subcommittee of
25 excellence and standards. Is that the sort of thing

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1 I was on that group. To me, that infrastructure was
2 nearly more important than deciding the fluids or
3 banning this fluid or recommending that fluid. I felt
4 that those structures were the most important thing
5 because I remember someone saying, "Well look, if we
6 shouldn't use fifth-normal saline, what fluid should be
7 used?" And they were missing the point. They were
8 missing the point that the fluids need to be
9 individually tailored to the needs of the child and
10 people needed to think more. It wasn't about one
11 particular fluid, it wasn't, as you said a while ago,
12 one size fits all.
13 Q. Yes. So if that was what came out of Raychel's case and
14 made that appropriate for regional guidelines, and that
15 would have resonated with you because you had seen the
16 absence of that kind of infrastructure, and that's
17 presumably why, off your own bat, you communicated back
18 to clinicians who you thought perhaps had not employed
19 an appropriate fluid management regime for a child you
20 then subsequently saw at the Children's Hospital. So
21 you would have noted the absence of that?
22 A. I guess so, yes.
23 Q. Is there any reason why that couldn't have been the
24 response to Lucy's death, for example, where there were
25 similar features of that sort?

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1 that influences practices as far as you're concerned?
2 A. I'm not sure. I'm not sure. I'm just not sure.
3 Something like this is something -- I mean, we didn't
4 review the literature on a monthly basis and think,
5 "What can we use here that might influence our
6 practice?" That might be something that an individual
7 says, "Look at this article here, I think this is very
8 important and it's something maybe we can take forward".
9 Q. Thank you. Then if we move to the working group that
10 was established to produce guidelines. You said
11 a little earlier, when you were giving evidence, that
12 what prompted that was Raychel's death.
13 A. I believe that to be the case, yes.
14 Q. In your mind, what was it about Raychel's death that
15 required or merited regional guidelines?
16 A. What I believe now -- and you were actually very good,
17 a while ago you mentioned this yourself and you said it
18 very succinctly, it was about the infrastructure there
19 to support good practice, about monitoring patients,
20 making sure their U&Es were done, making sure people
21 were properly trained, making sure they knew how to
22 calculate fluids in children, making sure the fluids
23 they used were used appropriately, making sure they
24 regularly assessed the children.
25 To me -- and this is where I was coming from when

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1 A. No, there's not, no.
2 Q. In the way that --
3 A. About the management of fluids?
4 Q. Yes, exactly. In the way that the Altnagelvin
5 clinicians had seen that in their own practice of
6 Raychel and realised, whether you say that
7 Solution No. 18 in and of itself is inappropriate, but
8 there were features of her care that might have
9 benefited from the infrastructure that you've just
10 talked about to send the message round the region, they
11 saw that. Could the Children's Hospital not have seen
12 that in relation to Lucy, as suggested, this
13 infrastructure, we need it, we think?
14 A. I don't think we picked out the importance of her fluid
15 balance at the time. I can't disagree with what you're
16 saying that if you see an issue that is inappropriate or
17 you're not happy with, that more can be done about that
18 regionally. Nothing that you have said is incorrect,
19 I can't disagree with anything you are saying. It's all
20 best practice, what you're saying.
21 Q. Yes. In any event, it did prompt the CMO to establish
22 a working party. And you received a letter on
23 21 August, I believe, if we pull it up. 007-050-099.
24 I say "you", I think everybody on the working group
25 received this letter.

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1 A. Okay. I don't remember this at all, but thank you.
2 Q. So then you see that:
3 "Increasing evidence that acute hyponatraemia is
4 emerging as a significant clinical problem in sick
5 children receiving IV fluids."
6 Would you agree that by August 2001 there was that
7 increasing evidence from your experience?
8 A. Well, there was definitely more coming through in the
9 literature at that time. We had the Arieff paper in
10 1992, we had Dr Sumner's editorial in 1998, the paper
11 that you've just mentioned there, that came out
12 in March 2001. So there's definitely emerging evidence
13 there.
14 THE CHAIRMAN: Plus, from the evidence I heard a few days
15 ago, you had Raychel's death itself.
16 A. Oh, absolutely.
17 THE CHAIRMAN: You then had --
18 A. Yes.
19 THE CHAIRMAN: You then have Dr Fulton raising it at
20 a meeting of medical directors and Dr Kelly saying, from
21 Sperrin Lakeland, "Oh, we have had an incident here
22 too". And Dr Loughran from Daisy Hill apparently said
23 to Dr Nesbitt, or Dr Fulton maybe, that he had come
24 across something like that or knew something like that
25 that had happened in Dublin.

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1 We would see hyponatraemia -- I mean, this has been
2 mentioned by many people: it's a very, very common
3 electrolyte imbalance to have. And we would see it
4 amongst our own patients as well. But I don't recognise
5 children being admitted to the intensive care unit
6 because of low sodiums to be corrected.
7 Q. In fairness, it doesn't actually confine it to the
8 intensive care unit, it talks about the
9 Children's Hospital.
10 A. I don't recognise that.
11 Q. You don't recognise that?
12 A. No, I don't.
13 Q. Is it because you don't believe that serious
14 hyponatraemia, if I can put it that way -- that children
15 with that condition were being admitted with that
16 frequency?
17 A. No more than they are today. That's what I'd really
18 say. I don't think so.
19 Q. Then he says that:
20 "There's obviously a need to get better agreement
21 amongst anaesthetists, intensivists and paediatricians."
22 Then the document that's attached to that,
23 if we pull up 043-101-223 and 224.
24 A. That's the attachment, okay.
25 Q. Yes. And this is the document that's attached along

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1 A. He was in my year at college, he was an anaesthetist
2 from Daisy Hill.
3 THE CHAIRMAN: Are there different bits and pieces coming
4 together here? You've got some direct experience in the
5 north, which we'll probe in a few minutes, published
6 papers and a growing general awareness.
7 A. Yes.
8 MS ANYADIKE-DANES: And then he attaches a BMJ paper and
9 a brief resume of the problem prepared locally. There
10 is a resume of a problem, which is prepared by Dr Taylor
11 and is attached to an e-mail that goes from Dr Carson to
12 the chief medical officer. Just to orientate you, if
13 we can please pull up 026-016-031. That's the e-mail.
14 You see it says:
15 "Attached is a document drawn up by Dr Taylor and
16 his colleagues. It reflects current opinion among
17 experts, but it does not yet command full support
18 amongst paediatricians."
19 Then he refers to the problem of dilutional
20 hyponatraemia:
21 "The anaesthetists in the Children's Hospital would
22 have approximately one referral from within the hospital
23 per month."
24 Were you aware of that incidence of hyponatraemia?
25 A. No. I mean, what does it say? One referral ...

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1 with the BMJ article to the letter of invitation to
2 people to participate in the working group. And really,
3 it's summarising the problem, if I can put it that way,
4 in those first four paragraphs. So it recognises that
5 the particular fluid at issue, Solution No. 18 as we've
6 called it, is one that's used frequently. Then in the
7 third paragraph it talks about its effects in the body
8 and the significance of those effects if you combine
9 them with the response to a stressor, which is
10 essentially to retain water. That's a point that I was
11 putting to you before. That is being described as
12 "a double whammy".
13 That has been portrayed as something that people
14 appreciate or at least had been appreciated. Was there
15 any discussion between you and Dr Taylor about the
16 production of this document?
17 A. Who produced this document?
18 Q. Dr Taylor.
19 A. I honestly don't remember. I ... Um ... I honestly
20 don't remember.
21 Q. I will ask him in due course when he gives his evidence
22 about who he discussed this with. Because the e-mail
23 suggests that it has been drawn up by Dr Taylor and his
24 colleagues.
25 A. Right. I'm not sure.

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1 Q. Would you disagree with any of it in terms of the first
2 four paragraphs?
3 A. No, not at all, no. It's very good.
4 Q. And how long have the anaesthetists in the
5 Children's Hospital been of that view, the situation
6 that's described there in the first four paragraphs?
7 A. Well, I think, basically, that's what has been said in
8 the Arieff paper from 1992, really. It's really just
9 saying it in a different way.
10 Q. So that particular way of describing the problem is
11 something that was known and accepted --
12 A. For a number of years.
13 Q. -- amongst the anaesthetists in the Children's Hospital?
14 A. I would have thought so, yes.
15 Q. And if you look at the recommendations and the IV fluid
16 prescription, is there anything there that you would
17 disagree with?
18 A. At the moment -- back then, not really, I don't think
19 so. I mean, you could argue about the maintenance
20 fluid, whether you could use fifth-normal or
21 half-normal. They're both equally bad if you're
22 concerned about hypotonic fluids. But it seems fairly
23 reasonable.
24 Q. But if he'd come to you and said, "Look, given some of
25 the cases that we're seeing coming from the district

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1 THE CHAIRMAN: Is that partly because it didn't meet as
2 a group very often?
3 A. Again, I ... When I read Dr Nesbitt's evidence he
4 seemed to think it met once and then there were like
5 subgroups to do pieces of work. That's the way I read
6 it. I just don't remember. And when I looked on the
7 website that was the only minute I could find. Maybe
8 there are more.
9 MS ANYADIKE-DANES: There is an informal minute --
10 A. Are there more?
11 Q. -- which I'll take you to, of another meeting
12 in October, but we'll come to that.
13 A. Okay, okay.
14 Q. When you received the letter or received the invitation
15 to be part of a working party, was that the first time
16 that you were aware that there was any possibility of
17 guidelines being produced for hyponatraemia or
18 in relation to hyponatraemia?
19 A. I'm just unable to remember that at the moment.
20 Q. Let me see if I can help you, prompt you, with
21 something. Dr Taylor has a meeting of the Sick Child
22 Liaison Group on 26 June 2001. I'm not going to put it
23 up, but the reference for it is 008/1, at page 15.
24 In that, under "Chairman's business", it says:
25 "Hyponatraemia. BT [Bob Taylor] presented several

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1 hospitals, would you have any objection if we put this
2 out as just an aide-memoire to remind people of the
3 problem?" Would you have had any objection to that?
4 A. I don't think so, no.
5 Q. So that is a guideline that could have gone out?
6 A. It could have been a recommendation, yes.
7 Q. And it derives from the information in the first four
8 paragraphs. So that could have gone out well before
9 Raychel's death?
10 A. Yes, it could have done, yes.
11 Q. Thank you. So that information comes to you and then
12 a meeting is convened, and we have the minutes of that
13 meeting. If we could perhaps pull up 007-048-094 and
14 095 together. Was there any discussion with you about
15 being a member of this working group or did you get
16 communication out of the blue?
17 A. Honestly, I just can't remember at all about this. I'm
18 sorry. Do you know, I can't even remember the make-up
19 of the group apart from Liz McElkerney. I know that
20 when Dr Nesbitt was questioned about this, he thought
21 she was a biochemist; she was one of the senior nurses
22 in the Ulster Hospital. I remember her being there, but
23 I just don't remember very much else at that time.
24 Q. You seem to have attended this first meeting.
25 A. I did, I can see my name.

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1 papers which indicated the potential problems with the
2 use of hypotonic fluids in children. Work to take place
3 on agreed guidelines from the Department of Health on
4 this subject."
5 So he, within two weeks or so of Raychel's death,
6 has a meeting where he is referring to the fact that
7 there are going to be departmental guidelines. Were you
8 aware of that?
9 A. I'm sorry, I just can't remember.
10 Q. Okay. Then if we look at the people who are on the
11 working group and if we look at them in relation to the
12 children that the inquiry has been investigating. If
13 I can just pull up 328-003-001. That's the first page.
14 Then there's another page, but let's deal with this.
15 So as you can see, it's very straightforward. Along
16 the top are the children. Along the side are certain
17 members of that working party. One sees for Dr Taylor
18 his involvement in those children and yourself also and
19 Clodagh Loughrey and then, on the next page, we have
20 Geoff Nesbitt and John Jenkins, Marshall, Loughrey and
21 McElkerney. One way or another those people are all
22 bringing to this meeting their own individual
23 experiences of hyponatraemia, but more specifically
24 their knowledge and their involvement in these cases.
25 Would you accept that?

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1 A. They had been involved. Can you say that last bit
2 again?
3 Q. One way or another, they are bringing to this working
4 party, this meeting, the first meeting, not only their
5 own experience in a more general way of the problems of
6 hyponatraemia and fluid management, but their direct
7 experience and knowledge of these children.
8 A. What do you mean by that last bit, they were bringing
9 their direct --
10 Q. That was their experience of potential difficulties that
11 can arise --
12 A. They had that experience with those children? Okay.
13 Q. Yes, exactly. So they had that.
14 A. Yes.
15 Q. If we go back to the minute again and pull up
16 007-048-094 and 095. At the time of that meeting, you
17 would have known that there were fluid issues in Adam.
18 A. Yes.
19 Q. Leaving aside the Claire point -- and I know that you've
20 said that you were just simply Claire's named consultant
21 and you didn't have any direct involvement in her
22 care -- but you treated Lucy and you knew about issues
23 in Lucy and you knew about issues in Raychel. Yes?
24 A. Okay, yes.
25 Q. And you would have known that Dr Taylor had involvement

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1 A. Well, it depends what the remit of the meeting was and
2 what the agenda was. Were we there to discuss our
3 different experiences or was it to try and come up with
4 a guideline or something about fluids in children?
5 Q. It was, according to the letter of invitation, to
6 consider how best practice could be brought to bear on
7 the problem. So presumably one has to identify what you
8 think the problem is and how that arises and to explore
9 whether further advice needs to be issued by the
10 department to the profession. That's --
11 A. And that letter had attached to it the --
12 Q. The document from Dr Taylor that I just showed you. So
13 that's the context of it.
14 A. Yes.
15 Q. As well, of course, you know there has just been a death
16 in which hyponatraemia was involved.
17 A. I guess what was happening is they were trying to get
18 people from the main hospitals in the Province and
19 people with maybe some background knowledge to bring
20 that forward.
21 Q. Yes.
22 A. I don't think they were maybe ... Well, I don't know,
23 but I don't think we were discussing cases, we were
24 trying to --
25 Q. I'm going to come to that in a minute.

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1 in Adam's case?
2 A. That's correct, yes.
3 Q. And you knew that he was the chair of the audit
4 mortality meetings, so of any of the children that the
5 inquiry is concerned with who died at the
6 Children's Hospital, which they all did, if they had an
7 audit meeting then he would know about them to that
8 degree.
9 A. Yes.
10 Q. Yes, you would know that. And of course, you knew that
11 Dr Nesbitt was involved with Raychel.
12 A. That's correct.
13 Q. So had you discussed these cases in which you had your
14 different knowledge about before this meeting? Had you
15 ever met and discussed?
16 A. Discussed with the people at the meeting itself?
17 Q. Yes, before the meeting.
18 A. I just can't remember. I would have thought that if
19 a meeting was convened to get people from different
20 parts of the Province together, I don't think a meeting
21 would have -- I don't know, I don't think it would have
22 taken place. People have to take time off work to come.
23 Q. I'm simply trying to find out whether this would be your
24 first opportunity to come together and discuss your
25 various experiences.

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1 A. -- come up with a guideline.
2 Q. But at the moment you can see just from that list of
3 those who were present that actually there is
4 a representative from each of the hospitals --
5 A. Yes.
6 Q. -- in which one or other of these children died, or at
7 least was first treated before ultimately being
8 transferred to the Children's Hospital.
9 A. That's correct, yes.
10 Q. What I'm trying to ask you is, given that you're all
11 coming with your various experiences and knowledge about
12 actual cases in which this has proved a problem, if
13 you're going to try and identify what the problem is and
14 what is the best practice that one might bring to
15 address that problem, do you not inform that with your
16 own experience?
17 A. You can do, but then I think that the document that was
18 appended to the letter that went out was actually very
19 good, and that might have been the start-up point from
20 which people worked. It could have been that. It could
21 have been in conjunction with maybe Dr Nesbitt's own
22 experience because I have known Geoff a very long time.
23 He was just a great trainee with us back in the 1980s.
24 He's a very, very caring doctor and I know that he was
25 terribly upset by what happened.

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1 THE CHAIRMAN: But why limit it to Raychel?
2 A. I don't know, because it depends, if we're there to try
3 and ...
4 THE CHAIRMAN: You're there to try to work out an answer to
5 a problem.
6 A. Put a guideline together. You could draw on your
7 experience, you're right.
8 THE CHAIRMAN: Exactly. For instance, your view was that
9 Raychel's case wasn't on all fours with Adam's, but your
10 view was that Raychel's case was not on all fours with
11 Adam's.
12 A. The mechanisms were different.
13 THE CHAIRMAN: So if you're drawing up guidelines to avoid
14 hyponatraemia, looking at Raychel's case or only
15 considering Raychel's case might not capture some
16 element of what went wrong in Adam's case. Okay?
17 A. Okay.
18 THE CHAIRMAN: First of all, what good reason would there be
19 not to discuss the circumstances in which other children
20 had died apart from Raychel?
21 A. Do you want me to reply to that in regard to Adam or
22 just generally?
23 THE CHAIRMAN: I think you expressed a view to the coroner
24 that there were differences between Raychel and Adam.
25 If we take that at the moment to the extent of the

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1 Q. I'm just asking you, is that not a natural place --
2 A. It could be, it could be.
3 Q. Thank you. And when I have asked clinicians about
4 various issues in relation to the inquiry's work, most
5 of them have sought to give me an example directly from
6 their own experience, so they'll give me a clinical
7 example. You have too.
8 A. Yes, I have.
9 Q. That's what clinicians do, isn't it? When they're
10 looking at a problem and they're trying to see how can
11 we best address it, they draw on that. And if, as the
12 chairman has summarised it for you, if what you're
13 trying to do is produce a guidance that will be a broad
14 guideline that will therefore be useful in a number of
15 different scenarios, not just targeted at something that
16 will resolve a problem to one type of case, the absolute
17 natural thing to do is to have that discussion because
18 what you want to say is, "Actually, if we have a
19 guideline that looked like that, that wouldn't have
20 avoided this particular case that I know of over here".
21 That's the way you test those sorts of things. Or if
22 you want to capture this part of the problem in the
23 light of an experience that you've had, you'd need to
24 deal with that sort of thing because that's what
25 you think went wrong in that case, or something of that

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1 differences one could discuss, but since that was your
2 view and these guidelines were not solely to deal with
3 what went wrong in Raychel's case, they were dealing
4 with hyponatraemia and beyond that. Right?
5 A. Yes.
6 THE CHAIRMAN: So why would you not use the available
7 information and expertise among the members of the
8 working party to consider deaths other than Raychel's?
9 A. I think we probably were all drawing on our own
10 expertise with children we had managed, and that could
11 include the children that you've mentioned. We may not
12 have been explicit in mentioning those names, for
13 example, but somewhere within us we had the management
14 and maybe learned from that. I don't know.
15 MS ANYADIKE-DANES: Dr Crean, if I put it to you in two
16 ways. Firstly, look at paragraph 2:
17 "Dr Taylor informed the meeting about the background
18 and the incidence of cases seen in the
19 Children's Hospital and patients who are particularly at
20 risk."
21 The most natural thing there is to actually discuss
22 some of the cases, "the incidence of cases seen in the
23 Children's Hospital", isn't it?
24 A. Um ... I don't know the context in which that was said
25 or ...

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1 sort.
2 So the most natural thing is to actually start to
3 discuss them, otherwise you are, to a degree, developing
4 a guideline in a vacuum. And you want this to be
5 a working, practical guideline. In fact, that was the
6 whole point. It was to be straightforward, simple and
7 useful across the board to junior doctors and others.
8 A. I think though, if you're going to develop a guideline,
9 the guideline has to be based on evidence, not your
10 practice.
11 Q. Yes.
12 A. People are there because of their experience and their
13 interests because the guideline can only be based on the
14 evidence, not people's opinion or anything else --
15 Q. No.
16 A. -- and with guideline development that's extremely
17 important.
18 Q. I haven't asked you for opinion; I've asked you about
19 whether the clinicians --
20 THE CHAIRMAN: Surely that stresses the point. If you're
21 asking for guidelines to be drawn up based on evidence,
22 the evidence which was available in Northern Ireland
23 when this group met in 2001 included evidence about
24 Adam's death and it included evidence about -- at least
25 about Lucy's death and a query about why it didn't have

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1 evidence about Claire's death. But that's the evidence.
2 A. The evidence I was meaning about good practice
3 guidelines would be evidence in the literature, based on
4 randomised controlled trials and that sort of evidence.
5 That was what I meant by the evidence.
6 MS ANYADIKE-DANES: That's one evidence, but there's also
7 evidence of direct evidence of things that had gone
8 wrong, and you can see this is how that went wrong. So
9 if you're going to produce a guideline to try and
10 resolve those sorts of problems, do you not want to ask
11 yourself, well, if we'd had that guideline would that
12 have helped in that situation? If it doesn't help,
13 maybe we need to reconsider some further aspect of that
14 guideline. If it would have helped, great.
15 A. If that was your experience, that was your experience,
16 and that was the reason for the guideline being
17 developed.
18 Q. Yes. And that's why I'm suggesting to you --
19 THE CHAIRMAN: I've got the point, Ms Anyadike-Danes.
20 I'm just saying for the record, doctor, I'm very
21 curious about how the members of the working party who
22 have given evidence tell me that they did not discuss --
23 in fact, you're the first person who said they discussed
24 the death of any child because you said earlier today
25 that you're sure the working party discussed Raychel's

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1 "While guidelines are in place for acute management,
2 chronic management is not well covered."
3 What were the guidelines that were in place for
4 acute management?
5 A. In place where? You say they were "in place".
6 Q. No, I haven't said; I'm reading off the minute.
7 A. Sorry, you're reading that. Sorry, I just am unable to
8 help you with that.
9 Q. Were you aware that there were any guidelines, for
10 example, in the Children's Hospital that dealt with the
11 acute management of fluid replacement or fluid --
12 A. By acute management, that may well be resuscitation
13 fluid. I just can't remember whether --
14 Q. Were there guidelines in relation to that?
15 A. I just can't remember if there were guidelines available
16 in A&E or elsewhere. Certainly the guideline people
17 would have used would have been the APLS manual.
18 Q. But given your position in the hospital at the time,
19 shouldn't you have known whether there were guidelines
20 for acute management?
21 A. I didn't say there were or there weren't.
22 THE CHAIRMAN: I am sorry, that's not fair. He didn't say
23 he didn't know; he said he can't recall. So let's move
24 on.
25 MS ANYADIKE-DANES: Ah. I beg your pardon. So there might

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1 circumstances.
2 A. I'm sure it was touched upon.
3 THE CHAIRMAN: You're the first member of the working party
4 to say that any child with whom the inquiry is concerned
5 was discussed. I'm not going to suggest to
6 Ms Anyadike-Danes that we won't continue this line of
7 questioning. I'm just very curious about how it comes
8 about that a working party, which is informed -- one of
9 whose members said there have been five or six deaths,
10 draws up guidelines without referring to the deaths or
11 without considering in its discussions those deaths.
12 But let's move on.
13 MS ANYADIKE-DANES: Thank you.
14 Just one final point:
15 "A general discussion then followed on the
16 management of children in hospital. Issues highlighted
17 were that of current guidelines for fluid replacement."
18 What was the general discussion about?
19 A. I'm sorry, I just can't remember.
20 Q. You can't remember?
21 A. No.
22 Q. Okay. Another point that I wish to raise with you is
23 under 2. I skipped over it, I apologise. Apart from
24 saying that this is a problem that had been present for
25 many years, it then goes on to say that:

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1 have been, you just don't remember?
2 A. Yes.
3 THE CHAIRMAN: And whether they were as official as
4 guidelines or whether they were practices or protocols
5 in PICU, we might be describing things by different
6 names?
7 A. Yes.
8 THE CHAIRMAN: Okay.
9 MS ANYADIKE-DANES: Then under 2, where it talks about:
10 "The calculation of replacement fluid is being
11 calculated in a number of ways."
12 This is still Dr Taylor. He proposed a number of
13 recommendations to prevent the occurrence of
14 hyponatraemia. Do you know what those recommendations
15 were?
16 A. This is under item?
17 Q. 2, right down at the bottom. It's literally the final
18 sentence.
19 A. Well, I know what he means about the different ways you
20 can do it. You can do it on an hourly basis or a daily
21 basis.
22 Q. Yes. It was the recommendations I was directing you to.
23 Do you know what those recommendations were?
24 A. No, I don't, no.
25 THE CHAIRMAN: Does that refer back to Dr Taylor's paper,

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1 which was up earlier?
2 MS ANYADIKE-DANES: I was just going to ask that.
3 MR UBEROI: We're obviously speculating to a degree at the
4 moment, sir, but there is a section entitled
5 "Recommendations" in that and it is entitled
6 "Hyponatraemia in children".
7 THE CHAIRMAN: That might be it.
8 MS ANYADIKE-DANES: Yes, Mr Chairman, I was going to put all
9 that obviously to Dr Taylor, but I was simply asking
10 Dr Crean in case he had his own recollection of that.
11 THE CHAIRMAN: But we know there was a paper that was sent
12 to the people who were on this committee, which had
13 a number of recommendations and when the minutes
14 summarise the fact that Dr Taylor proposed a number of
15 recommendations, it might well be that that's what's
16 being referred to.
17 MS ANYADIKE-DANES: Yes, it could.
18 THE CHAIRMAN: Doctor, just so you understand the point of
19 this questioning, the inquiry recognises the value of
20 the work that was done by this working party and it
21 recognises the value of having guidelines and putting us
22 ahead the rest of the UK in developing those. The
23 reason why you're being asked about this run of
24 questions was because, even after this working party met
25 and produced guidelines, Lucy's death was still not

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1 coroner, I wasn't completely convinced at that time
2 either. Although I accept what the coroner's inquest
3 found, I still find it hard to take on board what had
4 happened. You've asked me, "Did that prompt me to think
5 of Lucy?". All I can say to you is, no, I don't think
6 it did.
7 Q. Well, let me ask you it in this slightly different way.
8 Leaving aside whether you have reached a firm view as to
9 how Lucy came to die, what you did have a view on
10 is that her fluid management wasn't appropriate because
11 you've already expressed --
12 A. Yes.
13 Q. -- the view that if that was the regime that
14 Dr O'Donohoe wanted for her, then you didn't think that
15 that made sense, that regime?
16 A. Yes.
17 Q. And what was more troubling yet is even that regime
18 didn't appear to have been followed. So you knew that
19 there was a fluid management problem in relation to
20 Lucy. Whatever its role in her death was, that was an
21 example of poor fluid management practice.
22 A. Yes, but that --
23 Q. Would that be fair?
24 A. Yes.
25 Q. Part of what this guideline is to try and address or try

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1 identified for whatever reason as a hyponatraemia death,
2 and had still not been referred to the coroner. And the
3 reason why I asked you my questions and
4 Ms Anyadike-Danes asked you hers was because there is
5 a concern about the failure to recognise or whether it
6 was in fact a failure to recognise what had gone wrong
7 with Lucy. Okay?
8 A. I understand. Thank you, Mr Chairman.
9 MS ANYADIKE-DANES: That was actually going to be my next
10 question. Because you had conceded that there was some
11 discussion about Raychel and you had some of your own
12 knowledge about Raychel.
13 A. I believe there must have been.
14 Q. Yes. And you had, as I said, some of your own knowledge
15 about Raychel, and you had your own knowledge about
16 Lucy.
17 A. Yes.
18 Q. So when you're present here, if you hadn't made the
19 connection before, can you not make a connection between
20 what had happened with Raychel at Altnagelvin and what
21 happened with Lucy at the Erne?
22 A. You know, I've thought about that a lot. I still have
23 trouble coming to terms with Lucy, what happened to Lucy
24 with a sodium of 127. I still can't believe it
25 happened. Even when I reviewed the case for the

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1 and improve is fluid management practice. So when
2 you're discussing that and the importance of record
3 keeping and all this sort of thing, does that -- because
4 Lucy has only died the previous year --
5 A. I know.
6 Q. -- and was a troubling case because it troubled you as
7 to how she came to die. Does that not prompt you to
8 think about a case where "although I don't know exactly
9 why she died, I see that there was poor fluid management
10 in that case as well"?
11 A. I don't think it did, honestly, because of the sodium
12 level that Lucy had. I really don't think it. There
13 were probably many examples of poor fluid management at
14 that time that we could draw on for experience, but
15 I unfortunately didn't think of that at that time,
16 I don't believe.
17 THE CHAIRMAN: Okay.
18 MS ANYADIKE-DANES: Thank you. Can I ask when you did make
19 a connection?
20 A. I think it was when the coroner, after Raychel's
21 inquest, asked me to review Lucy's notes, because
22 I think it had been brought to his attention about the
23 similarity of the two cases.
24 Q. That was Mr Millar?
25 A. Yes.

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1 Q. There was a second meeting. We can pull it up. It's
2 the rough notes of it at --
3 MR STITT: I'm sorry. May I interject just on this point on
4 a factual issue before we move on to the next meeting?
5 We've just been checking the record. You, sir, had
6 indicated at [draft] page 92, line 21 of this morning's
7 evidence in dealing with the fact that no child was
8 specifically mentioned, and in terms you were saying
9 this witness was the first person to give evidence that
10 a specific child had been discussed. And arising out of
11 that, we've had a look at the transcript in relation to
12 Dr Nesbitt, and I think you'll find, sir, that at
13 page 163 of Dr Nesbitt's evidence he says that
14 Raychel Ferguson was mentioned, although it was not part
15 of the agenda. He kept bringing it up. So that's at
16 page 163 of the transcript.
17 THE CHAIRMAN: Thank you very much.
18 MS ANYADIKE-DANES: Thank you. Firstly, do you remember
19 anything about that first meeting at all?
20 A. I'm sorry, I don't, no.
21 Q. Did you ever get a copy of these notes?
22 A. The minute here?
23 Q. Yes, the ones we've just been looking at.
24 A. Honestly, I'm afraid I just can't remember. I have
25 nothing in my records about that and I've checked.

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1 "evidence"?
2 A. "Evidence [something] fours ..."
3 I don't know what that second word is. L-A-E,
4 L-A-D?
5 Q. Could be "lacking", "evidence lacking"?
6 A. "Evidence lacking"?
7 THE CHAIRMAN: It might be.
8 A. It could be.
9 MS ANYADIKE-DANES: Let me ask you another way. If you're
10 going to be part of a smaller group to actually design
11 and develop the guidelines, what is it that you would
12 want to be discussing with the others in relation to
13 those guidelines?
14 A. I would want to know what the actual evidence was
15 we were basing the guideline on. Any evidence that you
16 use has to be extremely robust. The problem is that
17 there was probably a paucity of information out there
18 at the time. There wasn't a lot of actual robust
19 evidence. So if that's the case, then you have to go
20 down to a consensus view of what you consider best
21 practice to be amongst people with the knowledge of
22 that.
23 Q. Did you think this was a worthwhile exercise?
24 A. Anything that improves the quality of care has to be
25 a worthwhile exercise.

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1 Q. In terms of its action points, the action point is for
2 Dr McCarthy to form a small group in relation to the
3 development of the guidelines and for Dr Taylor to
4 inform the CSM of Raychel's death. Those were the two
5 action points that came out of it. Were you going to be
6 part of that small group?
7 A. I was hoping you might be able to provide me with that
8 information because I'm afraid I just can't remember.
9 I know that I was -- I'd sent e-mails around afterwards
10 to Dr McCarthy, I think, and I was included in the
11 circulation of things, but that's --
12 Q. You were part of the small group.
13 A. Was I? Okay. Thank you.
14 Q. Why I was asking you was because I was going to ask you
15 when you were told you were going to, but since you
16 don't remember being part of it at all --
17 A. Okay.
18 Q. The minutes of the second meeting, which took place on
19 10 October of that year, are at 007-038-072. Then
20 can we pull up 073 because I think there are two pages
21 of it? There we are. I think that's John Jenkins, who
22 wasn't able to attend the first meeting. He's recorded
23 first of all.
24 A. I must be the next one.
25 Q. There's you as "PC". Can you interpret what that is,

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1 Q. Yes, I accept that must be true, but did you think that
2 it would be possible to produce the kind of guidelines
3 that would be a basic set to apply across a broad range
4 of circumstances?
5 A. Yes, I did. I was supportive of it. And you very
6 concisely, earlier on, summarised the most salient
7 points and indeed the most important points.
8 Q. And can you recall what approach was taken? How did you
9 actually design them?
10 THE CHAIRMAN: If there's no issue about the quality of the
11 guidelines, why do we need to get into the issue of how
12 they were designed?
13 MS ANYADIKE-DANES: Because, Mr Chairman, if one knew who
14 did what, then one would see what of their own
15 experience they might be bringing to it, but I'm happy
16 to move on.
17 So far as we can tell, this is highlighting the
18 essential features of it.
19 A. Okay.
20 Q. We see the importance of monitoring urinary samples and
21 so forth --
22 A. Yes.
23 Q. -- and when to consult and who to consult. Is that
24 what's on the second page?
25 A. It would appear to be, yes. Yes.

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1 Q. And then if problems ... Consult?
2 THE CHAIRMAN: "Contact consultant centrally"?
3 MS ANYADIKE-DANES: And "[something] local sources of
4 advice".
5 A. Yes, that seems to be it.
6 Q. If I pull up for you the guidelines, which was the
7 laminated poster as it went out, 077-083-199. (Pause).
8 We can find it for you in a different place. Sorry,
9 007-083-199. If you see under "seek advice", right down
10 at the bottom:
11 "In the event of problems that cannot be resolved
12 locally, help should be sought from consultant
13 paediatricians/anaesthetists at the PICU, RBHSC."
14 A. Okay, yes.
15 Q. So that would make PICU the contact point for queries
16 that couldn't be resolved locally in relation to these
17 guidelines?
18 A. That's correct, yes.
19 Q. Do you remember when and how that was agreed that the
20 Children's Hospital would have that role?
21 A. I'm sorry, I don't remember.
22 Q. Would that have been discussed within the Children's
23 Hospital? Because that would be committing its own
24 paediatricians and anaesthetists to doing that or
25 receiving those queries.

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1 Children's Hospital taking on explicitly that kind of
2 role.
3 A. Yes.
4 Q. And it has continued to do that in the documentation
5 that has been published about guidelines?
6 A. That's correct, yes.
7 THE CHAIRMAN: Okay, it's 1.05. Let's take a break until
8 2 o'clock. Doctor, we will finish your evidence this
9 afternoon.
10 Mr Stitt?
11 MR STITT: Mr Chairman, you will recall a point I raised
12 yesterday at about this time to do with the practice
13 in the early 2000s.
14 THE CHAIRMAN: Right. I'll deal with that at the end of
15 Dr Crean's evidence.
16 MR STITT: It's only 30 seconds.
17 THE CHAIRMAN: What is it?
18 MR STITT: I'll follow your direction, sir. I'll be here at
19 the end of his evidence.
20 THE CHAIRMAN: If it's 30 seconds.
21 MR STITT: I have e-mailed to the inquiry for dissemination
22 a High Court medical negligence case in 2008 where this
23 point is discussed.
24 THE CHAIRMAN: Thank you very much. That is the case of
25 Shaw?

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1 A. We've also done that with the current guidelines.
2 Q. I'm just thinking about these in 2002.
3 A. It would have been a very infrequent --
4 Q. Sorry?
5 A. It's something that would probably have happened
6 extremely infrequently.
7 THE CHAIRMAN: But is that not something that happened
8 anyway, doctor? Is it anything new to say that if
9 there's a problem in Daisy Hill or the Erne or Craigavon
10 that you can't resolve locally, ring the consultant
11 paediatricians and anaesthetists at the Royal? Is that
12 not what goes on for many years?
13 A. It does. I suppose they're just being explicit about
14 it.
15 THE CHAIRMAN: Exactly.
16 MS ANYADIKE-DANES: That's what I meant. This might be the
17 Royal taking on -- we've been discussing how the Royal
18 perceived itself in providing a regional service, if you
19 like, but here's an explicit reference to the Royal
20 doing exactly that. It's going to be the point of
21 contact if matters can't be resolved locally and this
22 laminated poster is there throughout all hospitals and
23 wards which are likely to treat children.
24 A. I take your point on that, yes.
25 Q. So all I'm pointing to is that this is an example of the

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1 MR STITT: That's it.
2 THE CHAIRMAN: And it's discussed certainly at the end of
3 the judgment of Mr Justice Gillen at page 16,
4 paragraph 120. Thank you.
5 (1.08 pm)
6 (The Short Adjournment)
7 (2.00 pm)
8 MS ANYADIKE-DANES: Dr Crean, ultimately the structure of
9 the guidelines was to have these general guidelines
10 in the sort of laminated poster form, and then for each
11 area to produce more tailored protocols, if I can put it
12 that way, dealing with their own circumstances. So it
13 may well be that the Children's Hospital's protocol,
14 given the sorts of children it dealt with, would look
15 different from another hospital's protocol. But in any
16 event, that was the structure. Were you aware of that?
17 A. Yes, I've read it recently, yes.
18 Q. I thought you said that you helped on developing the
19 protocol.
20 A. I know. There have been so many different guideline
21 groups and I --
22 THE CHAIRMAN: Do you sit on too many committees, doctor?
23 A. Unfortunately, I do, Mr Chairman.
24 MS ANYADIKE-DANES: In any event that was the structure,
25 wasn't it?

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1 A. Yes.
2 Q. Do you know when and how that arose? Because it
3 obviously would change the nature of the guidelines if
4 you were going to do it in that way.
5 A. Why it arose that way?
6 Q. Yes.
7 A. I think ... There was a central structure there, which
8 I feel was quite robust. It was about the management of
9 children generally, about the assessment of children,
10 the monitoring of children. That would be the kind of
11 central theme.
12 Q. You mean the weighing and then the carrying out of the
13 U&Es, that sort of --
14 A. Yes.
15 Q. How often you did that?
16 A. Yes, and the calculation of maintenance fluids and
17 things like that. That would be the sort of central
18 themes that would be there. I think probably people
19 didn't want to be too prescriptive in what fluids you
20 would use in what circumstances. There were givens
21 there, like the resuscitation fluid we've already talked
22 about, and there were only fluids you could use there.
23 For example, it would give people the flexibility to use
24 maybe one kind of fluid in a medical ward, one kind of
25 fluid in a surgical ward, for example, and various

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1 Q. Yes, you're right, he did. He referred to that letter
2 in a letter that he wrote to the coroner later on,
3 in February 2003. We can pull up this because that sort
4 of encapsulates the point at 064-006-033. You can see
5 the point he's making in the penultimate paragraph, the
6 last sentence:
7 "There are clearly two camps with quite clear and
8 reasonable arguments about the use and abuse of this
9 fluid, Solution No. 18."
10 And so did that become clear to you and the others,
11 for that matter, as you were discussing the exact
12 wording of this, that you may not get consensus about
13 what to do about Solution No. 18?
14 A. Yes, I think so, yes. I mean -- probably wrongly now
15 when I look back on it -- I was of the view that we
16 couldn't ban a fluid that sort of a UK national agency
17 wasn't happy to do so. It would have been very hard for
18 me to go against an official organisation like that,
19 I feel, at the time.
20 Q. But in fact, what you're referring to is 064-010-038.
21 A. Yes, that's right.
22 Q. This is the letter that comes back to Dr Taylor's
23 letter, and it refers to the fact that:
24 "... hyponatraemia is a risk during the use of that
25 solution [but then] electrolyte imbalance is a risk with

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1 people would have various views on that. I'm only
2 suggesting that's maybe --
3 Q. There was a difference of view, wasn't there --
4 A. There was, yes.
5 Q. -- as to what to do about the reference to
6 Solution No. 18?
7 A. Yes.
8 Q. And in fact, whether to explicitly refer to it at all.
9 A. Yes.
10 Q. And I think Dr Taylor's view -- I think it was Dr Taylor
11 who referred to it, as to whether it was a fluid that
12 should be named and shamed, for example, or not, and
13 I think you were of the view that you perhaps you didn't
14 have to explicitly refer to a fluid.
15 A. Yes, it was the -- he wrote to the Medicines Control
16 Agency --
17 Q. He did.
18 A. -- and they came back and said something like, "No, we
19 can't do that. Every fluid, if it's used
20 inappropriately, can be dangerous". And it's really
21 about using a fluid appropriately and not in a dangerous
22 way. And my view then was if a central UK agency was
23 saying, that it would be very difficult for us to go out
24 on a limb and ban it, really. I would have difficulty
25 with that.

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1 the use of all intravenous solutions."
2 And then it goes on to make a point that you,
3 I think, have made, is that what's crucial is:
4 "... careful monitoring of children after surgery
5 and care not to overload patients with intravenous
6 fluids if they were oliguric as part of the normal
7 response to surgery."
8 So that's the potential for SIADH, I presume?
9 A. That's right, yes.
10 Q. So they weren't going to amend the product information
11 at that stage. Ultimately, of course, they did, but
12 they weren't going to do it at that stage. Was your
13 view, if they're not going to do it, we couldn't take it
14 upon ourselves in Northern Ireland to go a step further
15 and say something explicit about Solution No. 18?
16 A. I think so, really, because again there were strong
17 arguments being put forward in the medical literature at
18 that time that this was an appropriate fluid to use as
19 maintenance fluid if it was given in an appropriate way.
20 So I wasn't completely -- this is my own personal view.
21 At the time I wasn't completely convinced that we could
22 ban it and that it was more about how you use it and the
23 monitoring of children and things like that.
24 Q. Was not the issue that, if there was poor practice, it
25 could become dangerous? Many things, of course, can

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1 become dangerous, but if you've got enough experience of
2 there being poor practice like that then although the
3 fluid in itself is not dangerous, the chance of poor
4 practice may be sufficiently high that it's something
5 that you recommend people not to use or not to have?
6 A. I take your point and I agree with you. I think that
7 looking back on it now, it would provide a safety net
8 for it not to be used. If you look at what's happened
9 recently, it was only, what, in October last year that
10 the MRHA came out against it and the British National
11 Formulary for Children, as late as December last year,
12 said it shouldn't be used routinely in children. It has
13 taken a long time for the organisations with power to
14 come round to that.
15 Q. Yes.
16 A. And in the meantime we have all moved away from it. But
17 you're right, looking back on it now, I would agree with
18 everything you said.
19 Q. And that's actually what Altnagelvin did in their own
20 protocol, isn't it?
21 A. It is. They started using Hartmann's, I think, and
22 reading Dr Nesbitt's -- when he was here the other day,
23 what then happened, I believe, was that people generally
24 agreed, and we were part of that agreement as well that
25 in the post-operative period they would change -- they

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1 about the use of Solution No. 18, although, of course,
2 the guidelines themselves don't explicitly exclude it.
3 Then you see right down at the bottom the structure of
4 what's being proposed:
5 "The guidance is designed to provide general advice
6 and doesn't specify particular fluid choices. Fluid
7 protocols should be developed locally to complement the
8 guidance and provide more specific direction to junior
9 staff."
10 And there are some instances where that would be
11 particularly important. Then it goes on to say:
12 "It will be important to audit compliance with the
13 guidance and locally developed protocols and to learn
14 from clinical experiences."
15 And then the guidance comes. So that's what comes
16 into each hospital and you have obligations, each trust,
17 in relation to disseminating those, making sure there's
18 adequate training around them and that they're being
19 implemented and, of course, you have devised your own
20 protocols, they're disseminated, they're implemented,
21 and both sets of guidance are audited.
22 I'm going to ask you a little bit about that process
23 as we work our way up to the revision to the guidelines.
24 But in the interim, of course, there is an inquest in
25 Raychel's case and her case is discussed at the

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1 changed from Hartmann's to half-normal saline. And
2 I think generally that's what all the hospitals were
3 using post-surgery in children. And now we have moved
4 back to normal saline and Hartmann's. So in many ways
5 he was ahead of the game. Maybe it was kind of like
6 a regressive step moving back to the half-normal saline
7 back in 2003 and maybe what he was suggesting was the
8 way we should have gone. I think that people were just
9 concerned that moving to those isotonic solutions could
10 possibly do harm. That was all.
11 Q. In any event, the guidelines are produced and with that
12 sort of -- the general being in the laminated poster and
13 the particular, if I can put it that way, being in the
14 protocols that are to be developed by the respective
15 trusts. They come to the trust with a letter from the
16 CMO. In fact, she writes twice. She writes first on
17 25 March just to telling everybody they're coming.
18 We can pull that up because there are some features to
19 it. It's 006-054-436 and 437.
20 In the meantime, these guidelines have received the
21 endorsement of CREST, and it rehearses the problem, and
22 you see it in the middle:
23 "Any child receiving IV fluids or oral rehydration
24 is potentially at risk from hyponatraemia."
25 Then it does go on to recite a specific concern

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1 Children's Hospital.
2 So I want to ask you about the inquest. You attend
3 that inquest and you're the person who's referred
4 Raychel's case to the coroner. You attend and give
5 evidence in relation to what happened at the Children's
6 Hospital, presumably.
7 A. That's correct, yes.
8 Q. You don't refer to that issue of mismanagement that you
9 discuss in October 2001. This inquest now is taking
10 place in 2003; is that correct?
11 A. I submitted my statement to the coroner, and basically
12 what that usually is is just your involvement with the
13 child. That's usually what you do.
14 Q. Sorry, you faded away slightly there.
15 A. Sorry, you usually would just provide a statement of
16 your involvement with the child. You don't -- well,
17 I haven't, anyway, given anything more than that, a view
18 or anything like that. It's really just a verbatim
19 account of what had happened.
20 Q. Well, let's have a look at it. You're right that the
21 statement you give is very brief. One can see it at
22 095-020-092. That's a statement that is ultimately
23 translated in your deposition. Do you recognise that?
24 A. Yes, that's right.
25 Q. Just a short factual account. And then there is a note

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1 of what was discussed. You were asked certain
2 questions. We can see the coroner's note of that at
3 012-032-160. So that's his writing and you sign it.
4 This is what he has added to your statement:
5 "It was obvious that she has sustained
6 a catastrophic insult to the brain. It was clear that
7 she was suffering from severe hyponatraemia."
8 And then you talk about the practice in Belfast of
9 using a nasogastric tube.
10 A. Yes. I think what had happened was that Dr Sumner in
11 his expert witness report said that in such a situation
12 he would have put a nasogastric tube in place to be able
13 to accurately measure the gastric losses. What I'm
14 saying here is that in Belfast we would use
15 a nasogastric tube not routinely. So I was saying,
16 actually, we wouldn't usually do that in a child
17 following a routine appendicectomy. A nasogastric tube
18 would be used for, you know, children undergoing major
19 abdominal procedures where their bowel maybe wasn't
20 working for a few days.
21 Q. There's a little bit more as to what you said. The
22 coroner takes a succinct account of the part that he is
23 particularly interested in and that's what he records
24 there and you sign it. Meanwhile, others on behalf of
25 the trust were attending and taking their own notes.

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1 were expressing views about certain sorts of things,
2 could you not have taken the opportunity to express
3 a view about the likely implications of her fluid
4 management in Altnagelvin in the development of her
5 condition?
6 THE CHAIRMAN: Is there not a risk that such a question,
7 suppose it came on behalf of the Ferguson family, might
8 have been stopped by the coroner because it points
9 towards civil liability? Is that not what happened,
10 Mr McAlinden? If Mr Foster who was representing the
11 family had asked the doctor what he thought about the
12 standard of fluid management in Altnagelvin, the coroner
13 might well have disallowed the question.
14 MS ANYADIKE-DANES: He might if he'd asked it in that way,
15 Mr Chairman, and I take your point.
16 THE CHAIRMAN: The point is, if this is a record of
17 questions and answers, we don't know what question was
18 asked.
19 MS ANYADIKE-DANES: No. What I'm putting to Dr Crean is
20 whether, given that he at that stage had made the
21 connection between her fluid management -- and I'm not
22 saying it in terms of negligence in that way. But with
23 a child, post-operatively, who's vomiting like that and
24 who's continuing to receive low-sodium fluids above the
25 level required for maintenance, that that is a risk for

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1 These are not official notes, but they're indicative
2 perhaps of what somebody heard in the evidence. We can
3 pull up 160-010-024 and alongside it 025.
4 There we are. So you see your name there at the
5 bottom half, and the discussion goes on to the other
6 page. Is there any reason why, in a discussion like
7 this, about what happened, the heightened awareness that
8 you now have at the Children's Hospital about
9 hyponatraemia and the importance of fluid management --
10 is there any reason why you couldn't also have expressed
11 the view as to her management at Altnagelvin? Because
12 you knew about her management in Altnagelvin by now.
13 This is 2003.
14 A. Well, surely what I'm saying is that protocols will
15 spread news, heightened awareness, it would be helpful
16 to do this throughout the UK. So this is about learning
17 and --
18 Q. Yes, that's learning now. That's not the point that I'm
19 making. The point I'm asking you is: this is not
20 strictly just evidence about your observations
21 in relation to Raychel at the Children's Hospital, your
22 treatment of Raychel at the Children's Hospital, and the
23 result of it. This is a slightly different phase in the
24 questioning where you're expressing views about certain
25 sorts of things and all I'm asking you about is: if you

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1 hyponatraemia. You'd formed a view about that and what
2 I was wondering is why you didn't feel that you could
3 share that view with the coroner in the interests of an
4 investigation into Raychel's death and its causes.
5 A. The coroner will be in control of the questioning and
6 what happens there. I mean, he did have an expert to
7 review the case very completely, and all of the things
8 that you have mentioned, the comments you have
9 mentioned, were actually laid out in that expert review
10 of Raychel's case. I got a copy of that before the
11 inquest itself, so it's laid out there quite plainly by
12 the expert. There was really nothing none of us could
13 have added to that, I think.
14 Q. Thank you. Then if I go on to mortality, which is also
15 something that happened afterwards. If we pull up
16 321-074-001 and 321-074-002. The first is not
17 a contemporaneous document, but Dr Taylor was responding
18 to a query as to whether Raychel and/or Lucy were
19 discussed in an audit meeting. This is the response he
20 gets from Dr Taylor, that Raychel was discussed at an
21 audit meeting on 10 April 2003. If we move them along
22 and drop the 001 and bring up 003.
23 You can see that this is, on the right-hand side,
24 the minutes, and four cases are being discussed. And
25 then, if you look on the left-hand side, Raychel is one

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1 of them, and you can see it has you there as --
2 I presume it's a consultant -- and Dr Herron is doing
3 the post-mortem. You can see that the inquest is over
4 at this stage and the chart is with litigation and the
5 date is April 2003, as the minutes show.

6 Did you attend that?

7 A. Honestly, I just can't remember if I attended that.
8 That was 10 years ago. I can't remember.

9 Q. Would you expect to attend it?

10 A. I would have expected either myself or Dr Hanrahan to
11 have been there because we were the two lead people
12 there. My name is probably on that because, again, we
13 go back to the yellow flimsy. But to have done
14 something like that with someone from pathology, they
15 would not have come unless a clinician would have been
16 present at the same time. And the clinician would have
17 given the clinical information and then the autopsy
18 findings would have been presented by the pathologist.

19 Q. If you look at the minutes, it couldn't be briefer. It
20 says four cases were presented and discussed. What
21 we were being told in relation to Adam way back in 1996
22 about those sorts of things is that this was all sort of
23 maybe to promote more open discussion and so forth. But
24 this is now 2003. Is there any reason why matters
25 couldn't have moved on and you could have a more helpful

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1 happening then. There was nothing -- I suppose, I guess
2 I could have. If I felt that this was an important
3 issue that things should change I could have brought
4 that up with the medical director.

5 Q. When we looked at the one in relation to Lucy, I think
6 we were able to see signed attendance sheets. We don't
7 know who attended this one. Given that this is now 2003
8 and what was thought about how matters had happened in
9 Altnagelvin, was there any reason why the clinicians
10 from Altnagelvin couldn't have been invited?

11 A. No, but I don't remember that happening, really.
12 I can't think of a case where that has happened. But
13 no, there's no reason why it can't. Well, for example,
14 in the Children's Hospital the neurosurgeons aren't part
15 of our team, if you like, although they come over. But
16 for example we would have to, if it was a neurosurgical
17 patient, get them across and things like that. But we
18 didn't usually -- I can't remember an incident or an
19 instance of inviting someone from another hospital.

20 Q. I wonder if you might help me then with what you meant
21 in this comment you made. It was in the course of
22 giving your evidence in Adam's case. So that's the
23 transcript for 20 June 2012, page 11. If we could
24 please pull that up.

25 (Pause).

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1 summary of what was being discussed?

2 A. I don't think in that respect things had changed at all
3 over those intervening years. There had been no
4 directive of what should or should not have been
5 included in that. I think people were probably just
6 doing what had happened previously. I think that
7 obviously -- well, you know things have changed now,
8 that there is a summary kept and everything else and
9 things are quite different, but that's just, if you
10 like, a recent thing that's happened.

11 Q. When you say "no directive", who would have to issue
12 a directive like that?

13 A. I'm not sure. It would have been something that would
14 have happened probably high up in the organisation,
15 whether it was the medical director or someone else,
16 I just don't know. Would it be someone from -- it
17 wouldn't have been litigation. It may have come from
18 the medical director's office. Something like that.

19 Q. Could you have suggested it, as the clinical director
20 for surgical paediatrics and critical care, "Look, this
21 would actually be a lot more useful if we at least
22 summarised the main points"?

23 A. I think this was the way audit meetings -- the mortality
24 section of the audit meeting was being held at that
25 time. I think this was probably the routine that was

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1 I'm afraid I'll have to read to you what it says.
2 I apologise for that.

3 THE CHAIRMAN: I'm sorry, can we check that again? I'm not
4 sure why we don't have the transcript for an earlier
5 part of the hearing. Would you mind just trying it one
6 more time?

7 MS ANYADIKE-DANES: It's 20 June 2012. (Pause).

8 THE CHAIRMAN: I think there's some help coming. Just give
9 us a moment. (Pause).

10 MR McALINDEN: Mr Chairman, for assistance, it's on the
11 computers here. It's actually Day 30. (Pause).

12 MS ANYADIKE-DANES: If we can go to page 11. Thank you.

13 What I was asking you to explain is that comment
14 that you didn't have people come from other hospitals.
15 This is a question dealing with the mortality meeting
16 for Adam and who you would invite to attend and so on.
17 And then if you look at your answer at line 10 what
18 you're trying to say is that we tried to invite
19 individuals so that everybody who was involved would be
20 there, but there are times when that couldn't happen.
21 And I've asked you -- you're being asked why that might
22 not be possible and you say:

23 "They may have to attend a mortality meeting
24 elsewhere, in a different hospital, for example."

25 What did you mean by that?

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1 A. Okay. It was the Royal Hospitals back then and maybe
2 I was going through an identity crisis. I see myself as
3 being part of the Royal Belfast Hospital for Sick
4 Children. You've got the Royal Maternity Hospital, you
5 have the Royal Victoria Hospital and you have the dental
6 hospital, but they're part of the Royal Hospitals. So
7 you could easily have a neurosurgeon, for example, who
8 has to attend a mortality meeting in the Royal Victoria
9 Hospital. I see that as being a separate hospital to
10 mine.
11 Q. So what you mean is it wouldn't be your practice to
12 invite somebody from a different trust?
13 A. Yes. Sorry, that is what I meant.
14 THE CHAIRMAN: That's fine.
15 MS ANYADIKE-DANES: Thank you.
16 Did you know at that stage whether Altnagelvin had
17 actually instituted its own audit or adverse incident
18 procedure in relation to Raychel?
19 A. I don't think I would have known that.
20 Q. Would you have thought to communicate with Altnagelvin
21 the outcome of the discussion of Raychel at the
22 Children's Hospital?
23 A. I think -- I'm not sure the outcome of our discussion
24 would have been basically the work that happened with
25 the Department of Health, to be quite honest with you,

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1 U&Es, and so forth. So a range of things that are just
2 not very good practice.
3 A. Okay, I'm not aware of the detail of this because
4 I haven't been following that part of ...
5 Q. The point that I'm putting to you is some of those
6 things may have come out in a discussion about Raychel
7 in the Children's Hospital, and what I'm inviting you to
8 think on is whether the Children's Hospital would have
9 regarded it as helpful to have communicated to
10 Altnagelvin whatever was the results of its own
11 discussion.
12 A. I think we would have all found it helpful, both
13 learning from what Altnagelvin had done and vice versa
14 as well. I think communication is both ways and I think
15 we both would have benefited from that communication and
16 learning.
17 Q. Yes. Would there be any reason why that wouldn't
18 happen? You can recognise a potential benefit, but why
19 wouldn't it happen at least from the
20 Children's Hospital's side?
21 A. It may seem very obvious today looking at this, but
22 I don't think it was obvious to us at the time to --
23 Q. What?
24 A. To share that, what we had -- what people may or may not
25 have said at the meeting. I don't think that was

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1 I think.
2 Q. Sorry?
3 A. I think much of our discussion would have been bringing
4 to the people who attended the meeting the outcome of
5 the working group from the Department of Health. To me,
6 that was the main outcome, highlighting the fact that
7 hyponatraemia can occur if fluids are not given in an
8 appropriate way, and what the recommendations from that
9 working group were. That's what I think probably would
10 have been the centre of the discussion there.
11 Q. Yes.
12 A. And that's probably what happened in Altnagelvin, if
13 they had a --
14 Q. I was simply asking you if you knew what happened there.
15 A. No, I don't know what happened.
16 Q. The reason I was asking is, from the public point of
17 view, Altnagelvin had quickly identified an issue with
18 Solution No. 18. And in fact, that was what spurred
19 them on to make -- not only that, but an important
20 motivating factor for communicating with the CMO and
21 others because they identified a potential risk around
22 the use of Solution No. 18. But in fact, as we have
23 heard from them, they had also, in their own meeting,
24 identified fairly basic issues to do with poor fluid
25 practice: the record keeping, recording of vomit, urine,

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1 something that was obvious to us at the time. That's
2 what I'm saying, really.
3 Q. Professor Scally produced a report in relation to Lucy,
4 which has some similarities in terms of you receiving
5 a child with a certain condition when there wasn't very
6 much more that you could do at the Children's Hospital
7 and then having concerns about fluid management. We
8 don't need to pull it up, but the reference for it is
9 251-002-017. And he says that if there was any
10 significant suspicion amongst the staff at the
11 Children's Hospital that Lucy's death was due to
12 inadequate treatment then the matter should have been
13 reported within the mechanisms available within the
14 Children's Hospital. He says:
15 "In addition, under these circumstances, the Sperrin
16 Lakeland Trust should also have been informed in
17 a formal manner."
18 And that was his view in relation to Lucy. I'm
19 asking you whether you don't think the same would apply
20 in relation to Raychel, the following year.
21 A. Well, I would consider his view would be the same,
22 I just think we were lagging behind that at the time.
23 I don't think that -- I don't believe that was maybe our
24 culture at the time. That's not the way we did our
25 business, that way.

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1 THE CHAIRMAN: In fact, given what you've said about your
2 perspective on Lucy, which you still have some
3 difficulties with --
4 A. Yes.
5 THE CHAIRMAN: -- Raychel would be a clear-cut example?
6 A. She would be much more, yes.
7 THE CHAIRMAN: Thank you. In essence, I understand your
8 answer to be, doctor, that that just isn't what happened
9 at the time. Looking back on it now, there should have
10 been some level of communication, but that just isn't
11 the way things happened.
12 A. I just don't think people had thought the process
13 through properly in that level of detail. The one thing
14 I do know about incident reporting is that -- I mean,
15 I was checking up on stuff the other day and I was told
16 that, you know, what we do today is even completely
17 different from what it was two years ago. Every death,
18 whether it's expected or unexpected nowadays, is now
19 investigated. If a child dies in your hospital and
20 they've come from elsewhere, the first thing you do is
21 fill in an incident report, make sure one's been filled
22 in in the other hospital and you work together on that.
23 The structures are there, the policy is there. It is
24 top-down, that directive. There's no -- you can't not
25 think about it, it's just there to be done. It's

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1 a discharge letter at that stage.
2 A. Not necessarily, because --
3 Q. Well, you'd have been going over her notes for the
4 benefit of the coroner.
5 A. I probably was just looking at the aspects of my report
6 that I needed to fill in. I may not specifically have
7 looked for a discharge summary.
8 Q. But then, Dr Crean, who does look at these things to see
9 what's missing and therefore what should be improved?
10 A. Well, it should have been the consultant in overall
11 charge of her care who did that, and that was not me.
12 It should have been done though.
13 Q. Are you saying that's Dr Hanrahan?
14 A. Yes, because he would have been the person, as
15 Dr MacFaul had stated in his expert report, about the
16 roles and responsibilities of anaesthetists and
17 physicians and surgeons working in the intensive care
18 unit.
19 Q. But if that's Dr Hanrahan, then Dr Hanrahan didn't send
20 one in relation to Lucy in 2000 and hasn't sent one
21 in relation to Raychel in 2001. Who is there to
22 recognise that there is a deficiency that maybe ought to
23 be addressed by some prompting or maybe a little bit of
24 training? Who picks up those sorts of deficiencies?
25 A. I don't know. I don't know who would pick up the fact

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1 totally and utterly explicit now and it wasn't back
2 then. But I take your point exactly: that would have
3 been a very, very good thing to have done. I agree with
4 you.
5 MS ANYADIKE-DANES: Finally, on discharge, you have
6 previously said that -- in fact you said it in your
7 transcript of 4 June 2013 at page 144, but we don't need
8 to pull that up:
9 "It's wrong not to send a discharge letter. It's
10 essential."
11 A. And it was wrong here not to send a discharge letter,
12 I agree. I absolutely agree.
13 Q. But how could that happen in two successive cases?
14 A. I don't know. I ... I honestly don't know. I really
15 don't know. I ... As one of the anaesthetists in the
16 intensive care unit at that time, I don't remember ever
17 myself having written a discharge letter. It was
18 usually done by the consultant paediatrician or surgeon.
19 I think -- I don't know. Whether it's because the notes
20 went away and they would have gone to the pathologist
21 and then gone to litigation and they didn't go back.
22 I don't know. It was an omission and it should have
23 happened.
24 Q. Well, by the time Raychel's case has been discussed
25 in the inquest, you'd have known there wasn't

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1 that ... You know, maybe if the hospital who had
2 referred -- maybe if Altnagelvin had said, "Look,
3 we haven't -- that's not a very satisfactory way that
4 they have to tell you that you should be doing
5 something. There should have been some sort of internal
6 way to do it. I don't know.
7 THE CHAIRMAN: Okay, thank you.
8 MS ANYADIKE-DANES: More to the point, very often those
9 discharge letters go to the GP, and then the GP,
10 properly informed, is in a position to assist the
11 family.
12 If we're keeping it roughly chronological, then that
13 having happened, we're now in the process or the era for
14 the implementing and monitoring of the hyponatraemia
15 guidelines. Although you couldn't recall it again when
16 I put it to you, but you were part of developing the
17 Children's Hospital's protocol.
18 A. Yes.
19 Q. Was it you alone or was there some group for doing that?
20 A. The recent one, you mean?
21 Q. No, no, no, the protocol that the CMO required to be
22 developed alongside the guidelines that she issued
23 in March 2002.
24 A. I'm not sure that was directed towards me, if I remember
25 reading it on the screen there.

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1 Q. No, I didn't say it was, but I thought you had earlier
2 told the chairman that you were involved in doing it.
3 A. What I said I did do was, whenever the NPSA alert came
4 out in 2007, which was later, that I was involved in
5 doing the policy then, and --
6 Q. Then we'll come to that one, Dr Crean. If I may ask you
7 this: who would have been responsible for drafting the
8 Children's Hospital's protocols, to sit alongside the
9 CMO's guidelines?
10 A. I guess that would have come down from the
11 chief executive, the medical director, to the clinical
12 directors to ensure that that was done.
13 Q. And would that have ultimately made it your
14 responsibility to take on, given that you came into
15 being the clinical director in 2003?
16 A. I mean, the ... That would have happened, I would have
17 thought, around the time that the letter came down, and
18 that would have been enacted then.
19 Q. So it would already be in place, you think?
20 A. It should have been in place, I think. I know that
21 there were discussions and things. I was actually
22 trying to find -- and this is maybe what you're coming
23 to -- the sort of policies and guidelines that would
24 have happened then, and I wasn't able to find any on
25 your website. So I ...

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1 And this is the bit I wanted to raise with you:
2 "It was suggested that an audit of the guidelines in
3 due course would be valuable and the CMO asked members
4 to suggest names and contact details of possible
5 registrars in either paediatrics or anaesthetists who
6 would be interested in taking that forward."
7 So you are there along with a number of others,
8 Dr McAloon being one, Mr Boston, and the senior medical
9 officer, Dr McCarthy, and the CMO herself. So there's
10 a group there, discussing the presentation of the
11 hyponatraemia guidelines and it's suggested that audit
12 of the guidelines in due course would be valuable.
13 At that stage, so far as you were aware, had the
14 Children's Hospital put in place any audit for its
15 protocol? Because that was the other thing that the CMO
16 wanted to happen.
17 A. I can't remember of any one at the time. I can't
18 remember. That's not to say one didn't happen, but ...
19 Q. I understand that. If you were going to put in place an
20 audit for the implementation of the guidance and
21 protocol from the Children's Hospital's perspective,
22 what would that involve?
23 A. Well, the gold standard would be 100 per cent compliance
24 with the guideline, so that's what your audit would be
25 measuring against. So it would be about the support

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1 Q. Is that not something, though, that would have involved
2 some discussion, because now you are going to have
3 a prescriptive protocol? So some of the differences in
4 view that Dr Loan had experienced and identified somehow
5 all those have to be resolved so that you can have
6 a protocol that achieves -- well, there would have to be
7 some sort of consensus as to what goes in that protocol?
8 A. I believe what happened then was that the fluid of
9 choice around hospital, or just about everyone apart
10 from the neonates, was half-normal saline in 2.5
11 per cent glucose. That became the standard solution and
12 in theatre we were still using Hartmann's. I think the
13 babies had what was referred to as "basic solution". It
14 was kind of like fifth-normal, but it had 10 per cent
15 glucose in it and some potassium. So generally, the
16 standard solution used everywhere was the half-normal
17 after that.
18 Q. The guidelines come in in March 2002. There is
19 a special advisory committee paediatrics meeting
20 in September 2002. You are there for that. The issue
21 of hyponatraemia is discussed. If we pull up
22 075-077-294 and 295. Under the title "Hyponatraemia" it
23 says:
24 "Members commended the guidance on the A2 laminate
25 circulated previously."

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1 systems that we'd talked about: reassessing children,
2 U&E done every day, fluid calculations done
3 appropriately. Those sorts of things.
4 Q. Those would be the things you'd be auditing. What's the
5 system of audit? Who would be doing it and who would
6 they be reporting to?
7 A. Within the hospital you mean?
8 Q. Yes.
9 A. They would be reporting, I guess, to whoever was leading
10 that audit. You could have got -- if you're trying to
11 assess the quality of the prescribing, it would probably
12 need to be a doctor and a doctor with some experience.
13 So for example, what I've done in the audits I did,
14 I got one of our anaesthetic fellows to do that audit
15 with me, and they would have gone round the wards and
16 looked at all that information. That's the way
17 I collated the information in conjunction with the audit
18 department as well.
19 Q. And when I had asked you before as to where you got your
20 information from to assess the excellence of standards
21 and governance and so forth in your role as chairman of
22 that committee, and you talked about seeing audits, is
23 this the kind of audit that would come to you? Sorry,
24 would you want this kind of audit to come to you?
25 A. That particular audit I would have wanted it come to me

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1 because it was an audit, if you like, stipulated by the
2 Chief Medical Officer. So it's kind of an important
3 audit, it's one of the things you'd want to tick-off of
4 having been done and reassured that you could stand over
5 it, I would have thought.

6 Q. So --

7 A. But I don't remember --

8 Q. I appreciate you don't remember any of this, but this is
9 the kind of audit that you'd want to see and keep an eye
10 on, if I can put it that way?

11 A. I would like to see that it was done.

12 Q. Yes, thank you. Also, at that same meeting, it's item
13 number 9 -- I'm going to give the reference although
14 I don't think we can access it at the moment.
15 075-077-298. That item 9 is the upper age limit for
16 admission to the Children's Hospital, and there's
17 a paper been provided for it. Dr Craig is enquiring
18 about raising the limit for admission and referral to
19 the Children's Hospital from 12 years to 14 years. And
20 there's a general discussion about that.

21 Why I raise that is, in the course of your
22 discussions about the guidance and where they might go
23 and the teaching that would have to be built around
24 that, was there any discussion about the fact that some
25 quite small in stature children, although older by

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1 I hadn't actually considered. It's something I'm going
2 to have to take back to them. I hadn't really thought
3 about that.

4 Q. Thank you. Now that I've put it to you in that way,
5 can you recognise that that might be something
6 significant?

7 A. Yes, I do and I hadn't thought of that.

8 THE CHAIRMAN: I'd rather got the impression, doctor, that
9 there wasn't much consistency in hospitals in
10 Northern Ireland or beyond about what the cut-off point
11 is for, say, a teenager being put in a children's or
12 adult ward; is that right?

13 A. I think in the rest of the UK there's a lot more
14 consistency about that. I think that what has happened
15 in the Children's Hospital is that we had capacity
16 issues, we just didn't have the beds. It's not that
17 there was an unwillingness. Okay, it was slightly more
18 than that. There was a capacity issue -- that's one
19 thing -- and there still is. But then there's another
20 issue about children who are adolescents and the sort of
21 medical problems that they may have as well. So you can
22 get girls with gynae problems and we don't have like
23 a resident gynaecologist, so you're moving into kind of
24 a different illness thing as well.

25 THE CHAIRMAN: When you say there's more consistency in

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1 chronological age, are admitted to hospital and you
2 would want to make sure that their treatment was being
3 covered in a way that complied with the guidelines? Was
4 there any kind of discussion about that?

5 A. Sorry, I'm not concentrating very well. Could you
6 repeat that last bit? I'm sorry.

7 Q. Yes. Not all children fit the profile for their
8 chronological age.

9 A. Yes.

10 Q. Some children, for various reasons, are actually very
11 much smaller than their chronological age.

12 A. So for example a 18 year-old who's maybe the size of
13 an 8 year-old; is that what you mean?

14 Q. Exactly. In fact, we have a child and elements of their
15 treatment that we are looking at in the investigation of
16 Conor Mitchell. And he had the body habitus of an 8 or
17 9 year-old, even though I think he was about 15. So was
18 there any discussion that there are children like that
19 and one would have to be alive to that if you wanted
20 their treatment to comply with the guidelines?

21 A. I don't remember that having happened. Even looking
22 at the NPSA guideline, they just look at children from
23 4 weeks of age up to their 16th birthday. Even in the
24 stuff I'm doing with NICE at the moment, we have only
25 just looked again in an age range, and that's something

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1 Great Britain than there is in Northern Ireland, what --

2 A. I just think that, you know, that most
3 children's hospitals and departments would usually take
4 children up to their 16th birthday. I can't remember
5 the name of the papers now, but they get children up to
6 their 19th birthday even. Some of the recommendations
7 and standards are for the care and treatment of children
8 and young people because they extend it. They don't
9 just stop at children, they go up to young people up to
10 the age of their 19th birthday.

11 THE CHAIRMAN: Thank you.

12 MS ANYADIKE-DANES: The point that the chairman was making
13 is there in another special advisory committee
14 paediatrics meeting that you attended. It was revised
15 in January 2005, the notes of it. We might be able to
16 pull this one up, 320-057-002.

17 This is a meeting that seems to have started
18 in October 2003, reconvened in February 2004 and finally
19 revised in January 2005, but leaving that aside. The
20 point that the chairman, I think, was putting to you, is
21 that -- you see it there under "Upper age limit for
22 admission to Children's Hospital":

23 "Custom and practice has evolved independently in
24 trusts and there was a disparity in practice between
25 different trusts, as well as within trusts, between

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1 elective and emergency admission."
2 Therefore, I presume that that might have some
3 impact on the age of children going in. Then there's
4 the reference to:
5 "Members from the Children's Hospital highlighted
6 that provision was being made to accommodate up to 15 or
7 16 as part of phase 2 planning."
8 But that's the new addition to the
9 Children's Hospital, isn't it?
10 A. That's correct, yes.
11 Q. So at that time you had recognised that you needed to
12 build in a facility to take account of these adolescents
13 that you have just been talking about?
14 A. Absolutely, yes.
15 Q. But had you appreciated, or not, the chairman's point
16 that there could actually be a significant variation
17 between the trusts as to what they considered
18 paediatric?
19 A. I think that the Royal Belfast Hospital for Sick
20 Children was lagging behind what was happening in other
21 trusts in that I think that --it's my belief anyway that
22 they were able to accommodate children up to an older
23 age than we were. We just didn't have that capacity
24 at the time. And nowadays, I think we are up to almost
25 our 14th birthday now.

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1 or as the chairman of the excellence and governance
2 committee, would you expect to see a letter like that?
3 A. I don't know. Certainly if I had seen a letter like
4 that, then that was basically a job for me to do because
5 that's the level of the organisation I was at. If I'd
6 received that, then basically that's basically telling
7 me to get on with it and give feedback so that they can
8 respond to that, I would have thought.
9 Q. If the chief executive was going to respond to the CMO,
10 from whom would the chief executive get the information
11 to be able to respond, given the structure of the
12 hospital as it then was?
13 A. Well, it would have to have gone down through the
14 organisation to someone like me to get that sort of
15 information, I would have thought.
16 Q. Yes. In fact, there are responses to that within the
17 time limits that the CMO asked for, which is 16 April,
18 but not from the Children's Hospital or in fact the
19 Royal Hospitals. What happens is that the senior
20 medical officer, Dr McCarthy, writes out on
21 3 November 2004, looking for the remaining responses,
22 the Royal being one of the remaining. And ultimately,
23 that's answered on 16 December 2004. 073-030-136.
24 It's extremely short:
25 "Dear Dr McCarthy. Thank you for your letter [of

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1 Q. Yes. Then there are two things that have to be audited.
2 One is your own protocol and the other is the CMO wanted
3 the guidelines and adherence to her own guidelines
4 audited. If we take the individual protocols, the CMO
5 writes on 4 March 2004. One sees that at 007-075-148.
6 She says in the middle paragraph:
7 "When the guidance was issued, trusts were concerned
8 to develop local protocols to complement the guidance.
9 Emphasis was given to the need to ensure implementation.
10 It was also noted that the guidance should be
11 supplemented locally in each trust with more detailed
12 fluid protocols relevant to specific specialty areas."
13 Then it goes on to say:
14 "The purpose of this letter is to ask you to assure
15 me that both of these guidelines [that's her guidelines
16 and the local protocols] have been incorporated into
17 clinical practice in your trust and that their
18 implementation has been monitored."
19 Were you aware of that letter?
20 A. I don't remember seeing that letter, but there's been
21 lots of things today, unfortunately, I just can't
22 remember.
23 Q. I understand. But in your position, either as clinical
24 director, which is what you were at that time, and also
25 one who had been present in the original working group,

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1 the relevant date]."
2 THE CHAIRMAN: Sorry, who wrote the letter?
3 MS ANYADIKE-DANES: Dr Michael McBride, who was the then
4 medical director. And since you don't have it, let me
5 tell you exactly what it says:
6 "Thank you for your e-mail dated 3 October 2004.
7 Please find enclosed copy correspondence dated July 2003
8 and March 2002 [that's from their end]. I write to
9 confirm this information was disseminated within the
10 trust."
11 So what's actually being asked is that:
12 "... you assure me that both of these guidelines
13 have been incorporated into clinical practice in your
14 trust and that their implementation has been monitored."
15 There's absolutely nothing in that letter from
16 Dr McBride to say whether they have been monitored, or
17 if they have been monitored, what the result of the
18 monitoring is.
19 There is that kind of information from other trusts,
20 but not from the Children's Hospital. Do you know
21 whether, at that stage, the Children's Hospital was
22 monitoring either the CMO's guideline or its own
23 protocol?
24 A. I know I wasn't, but I can't answer if anyone else was.
25 I just can't remember and I just don't know.

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1 THE CHAIRMAN: Okay.
2 MS ANYADIKE-DANES: Well, given your position as chairman of
3 the committee of excellence and standards or standards
4 and excellence, shouldn't you have known that?
5 A. I can't remember if ... I can't remember if it was
6 being done. It may or may not have even been known to
7 me as chairman of that committee.
8 Q. Sorry?
9 A. It may or may not have been known to me at that
10 committee if it hadn't come down that far to be enacted,
11 is what I'm trying to say. I just can't remember.
12 Q. But you would have known, as part of the original
13 working group, that these things were to be audited.
14 I mean, in your position as a member of that working
15 group, because that's what's part of the record of that
16 minute of that first meeting, and you were there at the
17 SAC paediatric committee meetings, which talks about "we
18 ought to have these things audited". So you were in
19 a particularly good position to know that the Royal
20 ought to put in place some mechanism for auditing
21 compliance and standards.
22 A. You would think so, yes, but I honestly just can't
23 remember.
24 Q. Then the CMO, in a separate way, wants to review the
25 guidelines themselves to see if there needs to be any

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1 A. Only because I saw it a couple of days ago.
2 Q. You didn't see it?
3 A. I just can't remember. I just ... I saw this a couple
4 of days ago on the inquiry website, but I can't
5 remember. I'm sure I did see it previously, but I just
6 don't remember.
7 Q. Did you know Dr McAloon was conducting an audit of this
8 type?
9 A. I have to say I'd forgotten about this audit altogether,
10 but there's something at the back of my mind that it had
11 happened. This was about 10 years ago; isn't that
12 right?
13 THE CHAIRMAN: Seven.
14 A. I thought it said --
15 MS ANYADIKE-DANES: 2004.
16 Is there any reason why the Children's Hospital, as
17 the regional hospital who might see not just their own
18 cases but referrals of serious cases to them, couldn't
19 have put itself forward to carry out the regional audit?
20 A. We weren't in that audit; is that what you're saying?
21 Q. No, no.
22 THE CHAIRMAN: Ms Anyadike-Danes, we don't need to go into
23 that. If it's a regional audit and it's coming from
24 this group, the Royal doesn't have to put itself
25 forward.

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1 further development. In fact, you include it on your
2 CV, the fact that you were part of the Northern Ireland
3 regional paediatric fluid therapy working group, 2006.
4 Is that the group that you mean, the group that was
5 reviewing the 2002 guidelines?
6 A. Was that the one Dr McAloon was chairing?
7 Q. Yes.
8 A. Yes. I was a member of that, yes.
9 Q. What happens first of all is that, having been there at
10 that SAC paediatrics meeting when it's said that
11 it would be a good idea to have the guidelines audited,
12 that's exactly what happens with Dr McAloon. He appears
13 to take it upon himself to do that very thing. He
14 conducts a regional audit of adherence to the
15 guidelines. In fact, we can pull up 007-092-234.
16 This is Dr McAloon and he is attaching to this
17 letter that he's directing to Dr Campbell, the CMO, the
18 regional audit that was conducted in 2003 to 2004 to
19 examine adherence to the guideline and he said he was
20 going to submit it to the Ulster Medical Journal, which
21 he did, and it was duly published the following year,
22 2005.
23 The actual audit itself -- if we pull up
24 007-092-235, and pull alongside that 236; do you
25 recognise this?

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1 MS ANYADIKE-DANES: No, no, I'm simply asking whether there
2 was any thought amongst its own clinicians that they
3 might do it.
4 A. Honestly, I just can't remember.
5 Q. But what the audit found was that there was not full
6 compliance with the CMO's guidelines. In fact, one can
7 pick that up if we go to -- if we can put page 238 and
8 239 alongside each other. Then you see it, just in the
9 bottom paragraph where it says:
10 "In March 2002 ... the evidence from this regional
11 audit is that implementation has so far been
12 incomplete."
13 I'm not sure of the reasons for it, but that is the
14 evidence that they receive, or at least that's what they
15 conclude from the work they've done.
16 Then if you look at the actual conclusion it says:
17 "To conclude, it is probable that the current
18 guidelines will be modified in conjunction with the
19 developing evidence base on appropriate fluid therapy in
20 situations where physiology is not normal, such as [and
21 of course the case of Raychel is a case of that]
22 post-operatively."
23 I take it from the answers that you've given to me
24 so far about this is you don't know how the
25 Children's Hospital fared in terms of compliance with

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1 the CMO's guidelines?
2 A. I honestly -- I'm sorry, I just can't remember. But
3 that was a very important point they've made there
4 in the conclusions because it's identifying children,
5 sick children, and children post-operatively, because
6 I think in the past we had made assumptions based on
7 normal fit and healthy children about fluid practice and
8 fluid management, and I think that this was a very
9 important step forward here to highlight those specific
10 areas there.
11 Q. Is that not the lesson in Arieff's 1992 paper?
12 A. Yes, it was, very much so, but you can see that --
13 I mean, I see it sort of day and daily now. People
14 think very carefully about fluids in children. If you
15 look round the wards in the audits that I've been doing
16 to try and get children who have been on fluids from the
17 day before and are on fluids today, it's really hard to
18 find children like that anymore because the fluids are
19 taken down so quickly now. They're not just left on
20 fluids and they are started on oral fluids as quickly as
21 they can. So people think very hard now about whether
22 -- looking at the need for fluids at all. So it has
23 definitely worked its way through.
24 Q. Yes. Then after this, it's Dr McCarthy who writes to
25 a number of clinicians, you included, on 12 August 2004.

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1 Q. Well then --
2 A. Maybe you can help me with that.
3 Q. I might be able to help you with that. This is what
4 I was wanting to know because it seems to me that at
5 some stage things change and you don't seem to be part
6 of taking matters forward. It's 320-126-125. This
7 letter is from the CMO. You see it's dated
8 5 November 2004. There, they're discussing not revising
9 the guidelines any more, you see it in the first
10 paragraph, but rather having a care pathway for fluid
11 management. So leaving the guidance as it is and to
12 produce this care pathway for fluid management, which
13 she seems to think is an excellent approach.
14 Then as a result of that, she is asking Dr McAloon
15 if he would convene and chair a small multidisciplinary
16 group to take that forward. Were you aware of this?
17 A. Honestly, I can't remember, but it seems to be a very,
18 very sensible approach.
19 Q. Do you know what the difference is? What a care pathway
20 is?
21 A. Yes. It's a very, very structured thing that all
22 children would fit into in relation to their fluid
23 balance. You can have care pathways for cardiac
24 surgery, you can have care pathways for the management
25 of asthma. It's a structured approach in the management

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1 007-055-124. This is really part of taking the
2 guidelines forward. The guidelines were produced in
3 2002. We're now two years down the track. There's been
4 an audit of compliance and this is now looking to what
5 revisions, if any, one might make to the guidelines.
6 You can see you're there in the distribution, Dr Crean.
7 She's seeking a short meeting to facilitate discussion
8 on proposed amendments.
9 So far as you were aware, had matters reached
10 a stage where you thought there was benefit in revising
11 those guidelines?
12 A. Again, I'm ... I keep going on like this. I just
13 really can't remember.
14 Q. Do you know why you might have been being selected to be
15 part of this group to discuss possible amendments?
16 A. No, I don't, no. Dr McCarthy may remember, but I just
17 can't remember.
18 THE CHAIRMAN: I presume it's because you're a paediatric
19 anaesthetist of considerable experience in the
20 specialist regional centre.
21 A. Thank you for that.
22 MS ANYADIKE-DANES: What happens to that? Do you
23 participate in the revisions?
24 A. Um ... Again, I'm not sure. I just can't remember.
25 I just can't remember.

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1 of children, and, if you like, it takes the guidelines
2 and sets it in stone and that's the way you follow it.
3 It's the next way forward in many ways.
4 Q. And is a care pathway something that was ultimately
5 produced in relation to Alert No. 22?
6 A. Um ... Let me see what we did. We produced a policy so
7 that we enacted the alert into our own hospital. The
8 policy is basically the law, you have to do what's
9 there. We put together a brand-new fluid balance and
10 prescription chart, and on that chart, all the prompts
11 will be there to make sure things are done. It's not
12 quite a care pathway, but it's probably as good as you
13 can get on a fluid balance and prescription chart.
14 Q. I see. So the next correspondence that we have seen
15 in the inquiry actually relates to taking that fluid
16 management care pathway group forward. We don't see you
17 involved in that. Can you help us with that?
18 A. I'm not sure. I know that Dr McAloon and Dr Jenkins
19 worked together in the same hospital, so it may well
20 have been that it was easy for them to do this
21 themselves. They may have -- I don't know, they may
22 have phoned us up or phoned me up or phoned other people
23 up, just to keep abreast of what was going on or for
24 advice, I don't know. But I would trust Dr McAloon very
25 much in his abilities to carry something like this

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1 forward.
2 Q. There's no suggestion of that. It's just that when you
3 said that you were part of the regional working group,
4 I was trying to see what happened with that group and
5 your role within that.
6 A. Okay. I just -- I don't have any of those things in
7 front of me today.
8 Q. We have only actually been provided with one set of
9 minutes of the group, 320-126-114. In fact, it's 2005.
10 You can see Andrea Volprecht, for example, Paul Loan,
11 Jarlath McAloon. They all seem to be part of the group,
12 but we saw no further reference to your involvement
13 after that initial letter asking you to be part of
14 something with a view to revising the guidelines. No
15 longer revising the guidelines, now into the care
16 pathway. But we've seen no reference to your
17 involvement and I was wondering if you could help us
18 with -- as the chairman said, you're a very senior
19 paediatric anaesthetist. What was your involvement in
20 taking the guidelines forward, revising them or making
21 them more appropriate for the times?
22 A. I don't know, I just can't remember. I have no idea.
23 Q. Were you aware of being involved at all?
24 A. I just can't remember. I've taken over other
25 responsibilities at that time as well. All I can

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1 saline, and then that, I think, in 2003, was in the
2 bulletin -- the Royal College of Anaesthetists have
3 a journal that comes out every month and they also have
4 a bulletin with that. That same thing that came out
5 in the RCPCCH went into the bulletin, and I think it was
6 a banner headline on the college's website at that time.
7 And Isabelle Walker was the senior author of that paper.
8 What she was doing was trying to find if people had
9 implemented that kind of statement that came on the
10 college's website. And in fact, I remember talking to
11 her and saying, "Look, I know that NPSA are working on
12 this and trying to come out with an alert, maybe you
13 should contact them about the work that you're doing."
14 But the NPSA thing came up through a different
15 source and in parallel with that the Way article was
16 happening at the same time if that is at all helpful to
17 you.
18 MS ANYADIKE-DANES: So did the "Survey of current
19 prescribing practice" that Way et al carried out, did
20 that influence at all the decision to issue Alert No.
21 22?
22 A. No, because the working party for the NPSA had already
23 been started. They were separate things.
24 Q. In any event, that is carried out and it is provided to
25 the NPSA?

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1 remember is that my life was extremely busy at that
2 time. I just can't remember.
3 Q. Well, maybe you can't remember this either. So far as
4 you're aware, was a care pathway ever devised before
5 Alert No. 22 was issued and things took a slightly
6 different course, so far as you're aware?
7 A. I don't remember one being. I don't ... I ... I mean,
8 I ... I don't think so. I don't think there was. But
9 maybe you can prove me wrong. I just can't remember.
10 Q. No, no, I'm just trying to find out. The origins of
11 Alert No. 22 is in a study that Way and others do as to
12 perioperative fluid therapy in children. They conduct
13 a survey of current prescribing practice, so probably on
14 a slightly larger scale, but maybe not so dissimilar to
15 that which Dr McAloon had done. They do that and it's
16 published in 2006.
17 A. That wasn't anything to do with the alert, with the NPSA
18 alert.
19 Q. It did ultimately translate into that if you'll bear
20 with me. The upshot of the --
21 THE CHAIRMAN: Sorry, if the doctor's saying that that had
22 nothing to do with Alert No. 22 --
23 A. What had happened was that back in 2002 or 2003,
24 something came out from the Royal College of Paediatrics
25 and Child Health about safety issues with fifth-normal

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1 A. Yes, I think some of the prime movers in getting the
2 NPSA to bring this up as an alert were people from
3 Northern Ireland.
4 Q. Yes.
5 A. People like John Jenkins and Miriam McCarthy, for
6 example.
7 Q. And Dr Taylor?
8 A. Maybe, I can't remember. It's just -- I asked -- a girl
9 called Mary Cunliffe in Liverpool was part of that as
10 well and I remember asking her some time ago where did
11 this all come from and she thought a lot of it came from
12 people from Northern Ireland because of their concerns.
13 Q. At that time did Northern Ireland provide its guidelines
14 to the NPSA, so far as you're aware?
15 A. I don't know, but I would have found it difficult to
16 understand if they didn't because they were involved
17 in that. And many of the outcomes of that alert were
18 very similar to the things that were happening here as
19 well. Some of the recommendations, I mean, were very
20 similar to what was happening here.
21 Q. Is it possible, Dr Crean, that at some stage it was
22 thought that it might be preferable, rather than to
23 develop our own care pathway, to persuade the NPSA to
24 issue an alert, which would then be a document that
25 applied throughout the United Kingdom? Might there have

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1 been that thinking?
2 A. I honestly don't know. On the face of it, the care
3 pathway seems very good, but I think people were working
4 through various avenues at the same time to try and
5 get -- getting it moved up from a regional issue to
6 a national issue.
7 Q. And when they finally did get the Alert No. 22, then did
8 that then translate into something that had to be
9 complied with in Northern Ireland?
10 A. Yes.
11 Q. And there was a letter, was there not, from the
12 department, 303-028-367, which is 27 April 2007? You
13 see at the bottom that the Health and Social Care
14 organisations are required to implement the actions
15 identified in the alert by 30 September 2007.
16 A. Yes, I see that.
17 Q. How did you get to hear about that?
18 A. The implementation date?
19 Q. The fact that an alert had been issued, which you were
20 now required, or at least the trust was required, to
21 implement by 30 September 2007.
22 A. At the time I was president of the Association of
23 Paediatric Anaesthetists, and some of our members were
24 on that, so I knew about all this happening almost from
25 the inception of the group that was working on that.

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1 A. Yes.
2 Q. So are you putting in place whatever is required to
3 ensure that the trust will be able to comply with it and
4 demonstrably so?
5 A. Before it came out or afterwards?
6 Q. Ready for when it comes out.
7 A. I don't think we -- I mean, you have to ... With an
8 organisation -- like any of the organisations in the
9 health system, the alert actually has to come out before
10 you -- you can't pre-empt what's coming out.
11 Q. I'm not suggesting you'd set up the whole -- I mean, one
12 of the benefits of knowing that something is coming
13 is that you can begin to work out how we will deal with
14 this, even if --
15 A. Okay. I don't think we did that. I don't think that we
16 tried to put things in place before it happened.
17 Q. Well then, when it did issue, and you receive the letter
18 or the trust received the letter on 27 April 2007,
19 what was put in place to enable the trust not only to
20 comply with it but to confirm that it had done so by
21 30 September 2007?
22 A. Again, I can't remember the detail of what actually was
23 done, but I ... I'm sure there was some sort of
24 priority to get things done at that time.
25 Q. Would that have been something that you would have been

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1 Q. Does that mean you knew that Alert No. 22 was coming?
2 A. Yes.
3 Q. Because they issued it in draft for comment.
4 A. Because our organisation was actually asked to comment
5 on the draft document that came out, I think late in
6 2006. This one -- I think the final document came out
7 in March 2007. And there were timelines in that
8 document that various things had to be done.
9 Q. Yes. Therefore, did you know, at that early stage, that
10 when this was finalised into the alert that was going to
11 be issued, that we would -- "we" as a trust -- have to
12 comply with it?
13 A. Compliance with the document should have taken place.
14 I think, though, that that compliance was patchy. For
15 example --
16 Q. No, sorry, that's a slightly different point. You know
17 it's coming --
18 A. I know it's coming.
19 Q. -- because you're in a group in which you have that
20 early information. Not only that, you are asked, and
21 you do, to provide commentary on a draft version of it.
22 A. Yes.
23 Q. And when it finally issues you know that you're going to
24 have to -- well, not you personally, but the trust is
25 going to have to comply with it.

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1 involved in, given your particular position?
2 A. It probably was something I was involved in. I was
3 involved in so many things to do with IV fluids over the
4 past period of time, it's very hard for me to remember
5 each particular bit. I know that the fluid balance and
6 prescription sheet was -- other people had been given
7 the task to take that forward and that had kind of ...
8 They'd had a lot of difficulties moving that forward
9 after a period of time. I know I was brought in to try
10 and make it work, and we did take that forward. People
11 got lost in the detail of it and it was just trying to
12 sort that out, and I was brought in to try and do that.
13 Q. And an important part of that was going to be training?
14 A. Yes.
15 Q. And so that's not something that one necessarily wants
16 to start from scratch, one wants to sort of put in place
17 the way in which that's going to happen because you're
18 going to have to satisfy the department that you are
19 training appropriately. So who would have been in
20 charge of that in the trust?
21 A. I know that the doctors, the new trainees coming in,
22 would have been trained by -- there was an induction
23 programme that they had whenever they started every six
24 months. And fluid therapy would have been part of that
25 induction package, that training that happened. I think

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1 it was maybe Dr Chisakuta who was involved with that at
2 that time. The other thing that people were given to
3 use was the e-learning module of the BMJ.
4 Stephen Playfor, from Manchester Children's Hospital,
5 was the person who developed that and in fact he was one
6 of the external people involved in one of the RQIA
7 visits to the trust looking at IV fluids as well.
8 Q. I'm just about to come on to the RQIA visits, but before
9 I do that, the systems for training and so forth would
10 have had to have been in place, for the CMO's
11 guidelines, for 2002?
12 A. I --
13 Q. You would have had to have a system for training people
14 so that they complied with those guidelines.
15 A. Yes. Paul Loan, actually, if you remember, he was very
16 involved in the training of the junior staff. From
17 memory, anyway, he was the one who would have been
18 involved in the IV fluid therapy training at the
19 induction process.
20 Q. Yes. The point that I'm making is that this is not
21 a new thing. You've already had a set of guidelines for
22 which you'd have to ensure that you've got an
23 appropriate training programme, you've got an audit
24 system that's being complied with, and you've got a way
25 of addressing any failings. So you'd already have to

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1 that's being used everywhere. This really means now
2 that no matter where a trainee starts, they'll be
3 getting the same induction pack, they'll be using the
4 same paperwork, the same fluid balance and prescription
5 charts, and I don't know of any other region in the UK
6 that has done this.
7 In my first meeting with NICE a few months ago,
8 I actually brought one of these along and I said, "Look,
9 this is the way forward. If you are seriously going to
10 consider putting a package together that includes
11 training, that includes fluid balance and prescription
12 charts, this has to be one of the fundamental areas that
13 you look at."
14 We've talked about difficulties in doing that in
15 such a big region as England, but at the end of the day
16 there is something there to work on and it's something
17 I feel very strongly that we in Northern Ireland have
18 brought this forward and certainly that could be
19 disseminated round the United Kingdom.
20 Q. That's part of the benefits of being a smaller territory
21 in a way.
22 A. Yes.
23 Q. It becomes easier to do those sorts of things and also
24 to monitor whether they're being complied with.
25 A. I think it's also the fact that with the inquiry ongoing

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1 have that system up and running.
2 A. Yes. It was pretty loose, I think, but I know that --
3 I don't know if you want me to move forward from there,
4 but certainly things have moved forward and that --
5 I feel that things have moved forward from the
6 e-learning thing as well. I think that what Dr Julian
7 Johnson has done in the Belfast Trust is quite superb in
8 that the slide show he has developed, the PowerPoint
9 slide show about how to use the fluid balance chart and
10 the prescription chart, how to use it, how to fill it
11 in --
12 Q. When was that introduced?
13 A. I think it's been up on our website for about two or
14 three years and -- our Internet site. And what he has
15 now done is he's -- I think we're almost agreed that
16 that is going to go round all the trusts in
17 Northern Ireland. So it means that any trainee -- and
18 I think I spoke to you before about the fluid balance
19 and prescription charts. There has been an agreement to
20 use the same chart in each of the hospitals now.
21 Q. In each of the hospitals in the trust or each of the
22 hospitals in the region?
23 A. No, in each of the hospitals in Northern Ireland. Now,
24 you can badge your chart so it says "Royal Belfast
25 Hospital for Sick Children", but it's the same chart

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1 here at the moment, it's raised the profile of this
2 important part of medicine as well, where it has maybe
3 been forgotten about in many parts of the world.
4 Q. As you're speaking about that, I was going to come to
5 the here and now, where we are and where we go. But
6 just as you mentioned that, is there any other thought
7 about things that could also be standardised for the
8 greater benefit of patient care? I mean in relation to
9 the sorts of things that we're talking about, not
10 everything.
11 A. About fluids?
12 Q. About fluids, about recording. You say that the fluid
13 balance sheet is now a standard, but are there
14 checklists that you can agree on that could be fairly
15 standard?
16 A. I think, for example, drug prescribing and drug kardexes
17 and things like that. I think they've become pretty
18 much standard around Northern Ireland as well, which is
19 very good because if you're -- the trainees nowadays,
20 it's a very complex system that you work in. And if you
21 can at least use the same structures and they're the
22 same, it's much easier when you're training and moving
23 from one hospital to another because there are so many
24 drug errors made today and it's just what happens, that
25 mistakes are made. There are lots of checks that go

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1 along and getting other people to check things with you,
2 but it is, with incident reporting, one of the big
3 spikes that happens there. It's one of the things that
4 occurs commonly. So anything you can do to ensure
5 consistency across the organisation is very, very useful
6 and helpful, I think.

7 Q. Thank you. The result of Alert No. 22 was the subject
8 of a validation visit to the trust, as you probably
9 know. In 2008, RQIA carried out a visit, and the
10 conclusion it reached is that there was not, at that
11 stage, full compliance with Alert No. 22. One of the
12 things that they highlighted was training:

13 "There was evidence that the provision of
14 intravenous prescription and administration training for
15 non-paediatric staff caring for older children on adult
16 wards was poor across all organisations visited by the
17 review team."

18 That's the very point that I was putting to you
19 before, whether any thought had been given to that when
20 you were designing the CMO's guidelines, if you like.

21 That particular issue now arises in relation to
22 compliance with the Alert No. 22, or let's call it
23 the September 2007 guidelines. Were you aware of that?

24 A. That there wasn't any training, do you mean, before --

25 Q. No, I don't think that the report recorded no training,

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1 Children's Hospital and the adult service as well. And
2 there is an adult guideline, but there's a paediatric
3 guideline as well. So what we had to do is sit down and
4 work our way through that and make sure that under
5 a certain age -- under 16, I think it was -- even in the
6 adult service they adhered to the paediatric guideline.
7 And that was something that we worked out and there was
8 training with that as well.

9 The adult physicians, they just -- I think at the
10 time they saw the paediatric prescribing as a lot of
11 work. Adult prescribing in many ways was much simpler
12 and certainly Dr Johnson has lifted up the quality of
13 adult prescribing to the same sort of level as
14 paediatric prescribing now. So this has all had a huge
15 effect not only for children, but for adults as well.

16 Q. Yes. Of course, the CMO did introduce -- not in
17 parallel, but shortly thereafter -- guidelines for
18 adults in IV treatment. The other matter that came out
19 of the validation meeting was actually an incidence of
20 hospitals working in a collaborative way, which is
21 a thing that I was discussing with you earlier. We
22 don't need to pull it up, but I will give the reference
23 for it: 303-058-789. And there, they record:

24 "In the Antrim Area Hospital, trigger lists have
25 been developed to aid the understanding of the types of

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1 but that there was an issue about that, that it was
2 a deficiency.

3 A. I was aware of it that -- when they reported on that.
4 I suppose that working in the Children's Hospital, you
5 just look at the training programmes you have in your
6 own hospital, and maybe we didn't look outwith that
7 at the time. But it is something that, as you know,
8 we have done now.

9 Q. Yes. Then in that same area, the other point was that:
10 "Junior doctors in specialties other than
11 paediatrics do not attend intravenous prescription and
12 administration training that is provided in
13 paediatrics."

14 So they may have their specialisms, not actual
15 paediatricians, but if they're going to deal with
16 children they weren't attending that training and that
17 was another deficiency. Were you aware of that?

18 A. I just can't remember that at the moment.

19 Q. I understand.

20 A. One of the things that has happened, though, and --
21 I helped develop a guideline on the management of
22 children with diabetic ketoacidosis. They come in
23 profoundly shocked, and it's because that middle group,
24 the adolescents and young people, the 12 to 18
25 year-olds, can equally well come into the

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1 incidents to be reported. This tool has been adopted in
2 the Causeway Hospital and in the Royal Belfast Hospital
3 for Sick Children."

4 And they have noted that as an example of sharing
5 good practice. So this is possible. Were you aware of
6 that, that you were adopting their trigger list?

7 A. Yes, I think this was a very innovative thing that
8 Dr McAloon did and it's something we adopted as well.
9 We've had to refine it for our own patient population as
10 well, but it's actually meant that if -- it's a trigger
11 list to fill in an incident form.

12 Q. Yes. Let's pull it up so people can see what you're
13 talking about. It's 303-058-789. It's the second
14 bullet that talks about the trigger lists and then the
15 companion to that really -- because these are all
16 prompters and the third bullet is something that the
17 chairman himself had asked, whether that was possible,
18 and in Antrim Area Hospital and Altnagelvin Hospital
19 they've developed the systems where the biochemical
20 results in a given range would prompt a proactive alert
21 to clinical staff. So if you're above or below,
22 presumably, in an area that's considered serious, then
23 you get a prompt. And so that was another initiative
24 that resulted from the consideration of these issues.

25 Is that something that happens at the

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1 Children's Hospital?
2 A. Yes, that happens routinely, and in fact just recently
3 we uplifted the level at which the prompt occurs. It's
4 in my e-mail somewhere, but there was an issue and
5 people wanted the level to be higher than it had
6 previously been so that that prompt would come through.
7 I think what happens is that if the biochemist sees
8 a sodium level below a certain level, they would phone
9 the ward or department that has sent that result. So
10 that is something that is in place at the moment.
11 Q. Then just to bring us to present day, if you like. You
12 are the chairman of the NICE group that is looking
13 at the paediatric IV fluids. I think you said you'd
14 been appointed chair from April of this year.
15 A. Yes.
16 Q. That gives Northern Ireland a very good opportunity, not
17 only to contribute its own learning, presumably, but
18 also to share in the development of the NICE guidelines
19 and influence them, I suppose.
20 A. I really hope so because I think that we have done so
21 much here. I believe we have. I'm very proud of what
22 we have done and I hope that that can be used by NICE to
23 take it forward. It's a two-and-a-half year project.
24 You have to get ministerial approval to get any
25 guideline adopted. It costs about half-a-million pounds

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1 region?
2 A. In many ways I see NICE as being a bit of a big stick to
3 actually make people do things. The NPSA alert that
4 came out, I don't think that that has been enacted
5 around the UK the way it has been here locally in
6 Northern Ireland. And I'm hoping that what happens with
7 NICE will make that happen. I really do. I think that
8 one of the things we've already mentioned about the
9 education -- I think we need to work on that more to
10 make sure that the standards that we feel that should be
11 met are met, that the quality of prescribing and fluid
12 balance is of the highest order. It's of a good order
13 at the moment, but I would like to see it at the highest
14 order. You can't take your foot off the pedal. It's
15 something you have to keep on working away at.
16 Q. Am I right in understanding that until NICE issues its
17 guidelines, what we have is -- I have called them the
18 2007 guidelines, the Alert No. 22, that's what we have?
19 A. That's correct, yes.
20 Q. So is the effort then to ensure that there is as great
21 a compliance and effective compliance with those
22 guidelines as possible?
23 A. I think that has to be what -- I think that we have to
24 do that, yes.
25 Q. There was a further RQIA report done in 2010. And by

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1 to get that done and I believe it's going to be one of
2 the best guidelines on fluids available around the world
3 when it does finally come out.
4 Q. Yes. We don't have it paginated, but it's on the NICE
5 website, and -- because the Department of Health have
6 asked NICE to do it -- its remit is:
7 "To develop a clinical guideline on intravenous
8 fluid therapy in children and young people in hospital."
9 So it will also capture that adolescent group that
10 you were talking about. Does it go up to 18?
11 A. It goes up to 16, but what we've also been doing is --
12 initially I suggested that we do just from four weeks of
13 age up to 16 years because there's an adult guideline
14 from 16 years onwards that is going to be coming out
15 soon, so there didn't need to be any crossover there.
16 It looks as though we're going to include neonates as
17 well, so that will be babies within the first 28 days of
18 their life. That is something that hasn't previously
19 been done. It's a huge amount of extra work that's
20 going to need to be done there, but I think it's going
21 to be very worthwhile.
22 Q. Obviously in your view there are still things that need
23 to be done. Can you say now what you see as some of the
24 practices that could, in advance of the NICE guidelines
25 being issued, could nonetheless be addressed in this

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1 that time, you were one of the professional advisers to
2 the review team, you and Dr McAloon.
3 A. On behalf of the trust, yes, I remember. I remember
4 going to their offices, yes.
5 Q. The result of that was to find that things were better
6 than they were in 2008, but the Alert No. 22 has
7 essentially five guidelines. The use of Solution No. 18
8 is one. Clinical guidelines, another. Staff training
9 is a third. Then the revision of the charts is the
10 fourth. Incident reporting is a fifth. In relation to
11 the staff training, when it comes to the Royal Trust --
12 well, it's not called the Royal Trust any more. But
13 it's still commented that there was no comprehensive
14 database of staff training in hyponatraemia. So in
15 other words, it wasn't possible quite to track exactly
16 who had received training in hyponatraemia. Were you
17 aware of that? You were part of the review group.
18 A. I must have been aware of it at the time. Certainly
19 nowadays it comes up in job planning and it's one of
20 the -- for a consultant, anyway, that whenever you're
21 doing your appraisal every year, the training issue has
22 to be done on a regular basis. You have to do the
23 e-learning thing -- is it every two or three years at
24 the moment?
25 Q. It wasn't so much that you had to do it. That point had

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1 been made quite clear that it had to be done. I don't
2 think there was any criticism of the trust in that way.
3 It was actually being able to identify the database of
4 staff who had done it. That actually was the deficiency
5 being pointed out in that report.

6 And then just finally, if I may ask, to complement
7 the question of "Where are we now?" I know that
8 you sometimes have trouble sorting out the many
9 committees you sit on and what's happened in the past,
10 but if we're sitting here, present day -- so what might
11 be in your mind now -- what has the trust in place in
12 order to ensure that the 2007 guidelines are being
13 implemented?

14 A. Do you want me to go through all the different things
15 we have at the moment?

16 Q. No, not what you're doing, but what's in place so that
17 the trust knows that it is complying with the guidelines
18 of 2007.

19 A. We still have regular meetings about this. Ian Young
20 chairs the fluid therapy group and he feeds back to the
21 medical director of the trust about this.

22 Q. Is it that group that's at the sharp edge of making sure
23 there is compliance?

24 A. Yes, it's just making sure that the charts are
25 up-to-date. I submitted some audits that I'd done

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1 complied with?

2 A. I think in all deaths now there is a record kept of the
3 review of that death at the mortality meeting nowadays.
4 I think there is a note kept of that. Obviously, if
5 there was anything that caused you concern, that would
6 be highlighted and identified in that note as well.

7 Q. The minutes that we've seen of those sorts of meetings
8 haven't been particularly extensive. So is it different
9 now? Is the record of those sorts of meetings --

10 A. Yes.

11 Q. -- sufficiently detailed to capture that?

12 A. Yes, and Dr Keaney has been doing this and what she's
13 been doing as well is she's been sending the minutes to
14 all the consultants in the Children's Hospital. So even
15 if you haven't been to the meeting, at least you can
16 read the minutes and see what people were talking about.
17 So if there was a cause for concern about something,
18 even if you weren't there, at least you're getting the
19 minute on it and you can be advised that way.

20 Q. Then just finally, when we had asked before, as
21 you know, why there wasn't a very full or even any
22 record of the discussion at those meetings, we were told
23 the reason for that was because it was thought that if
24 you didn't record that kind of discussion, it would
25 somehow encourage greater debate and greater debate was

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1 recently as well, just to give reassurance of where
2 we're coming from, that it's okay. They've been doing
3 audits about compliance in other ward areas, including
4 adult areas that look after adolescents as well, so all
5 that sort of thing is being done at the moment.

6 Q. If a case comes up for review or a mortality meeting, if
7 there has been any failure to comply with the
8 guidelines, is there a way of identifying that so you
9 can pick them up?

10 A. I'm ... Could you explain that to me, maybe in
11 a slightly different way? Maybe I'm being a bit stupid
12 at the moment.

13 Q. No, no. At a case review meeting where there's been
14 a death --

15 A. Oh, I see, okay.

16 Q. -- when that child's case is being discussed, along with
17 the many other things that would be discussed as to how
18 that child was cared for, is there any effort to
19 identify a failure to comply with the guidelines?

20 A. With the IV fluid guidelines?

21 Q. Yes.

22 A. Well, I think we would look at the case in its entirety.

23 Q. I'm sure you do. I'm just talking about for recording
24 purposes. Do you seek to record that if you've got
25 a case in front of you where those guidelines weren't

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1 what they wanted to have first and foremost. Has the
2 culture sufficiently changed that you can have the
3 quality of that debate that you want whilst still
4 recording the important elements of it?

5 A. I can't remember exactly where we are today, but
6 I remember a presentation we had a few months ago, and
7 my concern was that if minutes were being kept, that the
8 debate could be stifled. So if there was a child who
9 died and it was an adverse incident -- in other words it
10 was an unexpected death or something like that -- I felt
11 what there should be was a proper review of the case to
12 determine the cause of the death. So if there was any
13 blame towards anyone, that could be done by the review
14 group and they could look into all the detail of that.
15 And then the whole package, if you like, of the review,
16 the findings of the review, could then be presented
17 at the mortality meeting to share that knowledge.

18 Because I felt that if you were going to have an
19 open discussion to -- that was not the place to find out
20 what went wrong. I think there has to be a systematic
21 review of the case, first of all, and present the
22 findings of that so that people know what the findings
23 are, and then there can be an open discussion and
24 learning amongst the staff on that. I just felt that
25 that was the proper way to do it.

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1 Q. But even reaching findings could of themselves be
2 critical, and that's not what you're setting out to do,
3 but the very findings you make may be impliedly critical
4 of any of the nursing staff or clinicians. What I was
5 really inviting you to consider is how the trust has got
6 over that issue that we heard previously in relation to
7 Adam and Claire to encourage the very debate that you
8 want to have, the fullest possible discussion as to what
9 happened, how did the child come to die in those
10 circumstances, whilst capturing that information so that
11 others can learn from it?
12 A. That's the point I was trying to make because by taking
13 the initial discussion away from an open forum like that
14 and investigating the death properly, you can then bring
15 the findings of that. There will be criticism of people
16 there as well, but at least it will be open. The
17 findings will have been done and you can then have an
18 open debate about that. And you're not -- what
19 concerned me was that if you brought a case of a child
20 who had recently died to 30 people and that every minute
21 was going to be taken, there wouldn't be an open debate
22 about what went wrong and there wouldn't be learning.
23 I felt it was much better to provide the findings of
24 what had happened to everyone.
25 THE CHAIRMAN: Yes, to provide the findings would be

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1 provided along with the file to a meeting where there
2 can be a more general debate and that can be recorded.
3 That particular system, is that what's in place now?
4 A. It is, yes. I'm not sure if it's exactly as I've
5 described. This was something that I remember
6 discussing a few months ago. What happened was --
7 Dr Johnson can do this better than I can -- there was
8 a pilot. All deaths now have to be registered on the
9 trust's intranet on a database and there's a timeline
10 for that. Certain things have to be done within
11 48 hours, other things have to be done within four
12 weeks, so that everything has to be done -- for example,
13 there's a timeline for when the death has to be
14 presented at a mortality meeting. So all these things
15 are happening and that has to be done now. And what
16 we have been doing as well -- and I think I mentioned
17 this before -- in the Children's Hospital is reviewing
18 all deaths, even deaths that are expected, children with
19 chronic illness, children with cancer, where they're
20 under palliative care. Even those are now going to be
21 reviewed because there's always learning, there's always
22 something to learn from it. A parent who hasn't been
23 happy with something where you thought you'd done
24 everything right. There's always learning there.
25 So we're moving to try and include everyone in this

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1 helpful, but there were two issues that were raised
2 during the inquiry. One was how willing maybe nurses
3 and junior doctors would be to speak out about
4 consultants or vice versa in the group, and the
5 mechanism that you're talking about is to do an
6 investigation without having 30 people together might
7 help that. But the other problem which was specifically
8 identified was that doctors' insurers were telling them
9 that whatever they said at those meetings, which would,
10 if recorded, become discoverable in the event of
11 litigation. And that was suggested to us to be a major
12 problem which contributed towards the decision not to
13 keep minutes. Have you got round the second problem
14 yet, or is that still --
15 A. Minutes are being kept now and they're being
16 disseminated around the medical staff now. So those
17 minutes are being kept.
18 THE CHAIRMAN: So the reservations of the insurers, have
19 they just been set aside?
20 A. Yes.
21 THE CHAIRMAN: Thank you.
22 A. They were just told: this is what we're going to do now.
23 MS ANYADIKE-DANES: And the system you describe, which is
24 a smaller group of people having an intense discussion,
25 if I can put it that way, reach their findings, that's

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1 process now.
2 Q. Where did that come from? Did that come from within the
3 trust or is that something the department wanted?
4 A. I think it's just -- I think I mentioned a while ago
5 that ... I was speaking to one of the managers a few
6 weeks ago about something else and I hadn't been aware
7 that this is what is happening because I have been out
8 of the governance thing for a while and she said,
9 "Peter, you wouldn't recognise what we've been doing now
10 compared to even two years ago". Things have just moved
11 on and I think people are just looking to improve the
12 quality of these structures on the governance side.
13 MS ANYADIKE-DANES: Thank you. Mr Chairman, I have no
14 further questions.
15 THE CHAIRMAN: Mr Quinn?
16 Questions from MR QUINN
17 MR QUINN: Mr Chairman, I have a question. It relates to
18 Claire Roberts, but it's the only chance we're going to
19 have to air this issue. Mr Roberts has asked me
20 specifically to ask the inquiry if I could.
21 THE CHAIRMAN: What's the question?
22 MR QUINN: If I could have up document 090-009-011, which is
23 the PICU discharge note relating to Claire.
24 Mr Chairman, I've got three, perhaps four,
25 questions. The first question relates to the

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1 consultant's name. Did Dr Crean sign his name, fill in
2 his name, or is that just as a matter of course as to
3 how his name got there as the consultant in charge?
4 That's the first point.
5 THE CHAIRMAN: Can you help us on that, doctor?
6 A. My name went on all the yellow flimsies of admissions,
7 really. That's really why it was there. I can tell you
8 about the form itself, if you want me to.
9 MR QUINN: Yes, please. We've never investigated this
10 really. But you see, that's not your writing; is that
11 correct?
12 A. No, that's not my writing.
13 Q. What we expected was this was just something that was
14 filled in on your behalf.
15 A. My name went on everything, it went on the X-ray
16 reports, it went on the CT scans, the MRIs, and it was
17 just to identify it as an ICU episode. You've got the
18 ward there as well, but it was just kind of like
19 a generic thing that was done. This discharge summary
20 was a triplicate thing and it was for all the wards.
21 What happened was -- I mean, we were in the intensive
22 care unit, okay, but there are medical wards there as
23 well. So what you would do there is that, for example,
24 if a child came in with a pneumonia and was being
25 discharged home on different medications, like

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1 THE CHAIRMAN: Mr Quinn thought the third one might be
2 "other". We can double-check this in other forms.
3 A. I think it's just giving different fields of "others" in
4 case there was more than one "other", maybe.
5 THE CHAIRMAN: Thank you.
6 MR QUINN: I was coming to that point. Before I come to
7 that point, is it signed by someone who we think is
8 Dr Mannam, M-A-N-N-A-M. Do you recognise that
9 signature?
10 A. It just looks like a squiggle.
11 Q. But just below that, in block letters, M-A-N-N-A-M.
12 Does that name ring a bell with you?
13 A. No, I'm sorry, it doesn't.
14 THE CHAIRMAN: It's not Hannam? Is it an H rather than
15 an M?
16 MR QUINN: We think it's Mannam.
17 A. It's very hard to see.
18 THE CHAIRMAN: Can I ask, does either name ring a bell or
19 any variation on Mannam?
20 A. I'm sorry, chairman, it doesn't.
21 MR QUINN: Then I want to ask you: in the normal
22 procedure -- if we could have the middle of the form
23 again, please -- in relation to the diagnoses that were
24 listed, who would normally fill that area in?
25 A. It's usually done by one of the junior medical staff

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1 antibiotics or something or bronchodilators, you could
2 put the drug and dosage on those so they could take
3 those to the GP so the GP could then write
4 a prescription for another seven days for the family.
5 Q. That leads me then to ask, on the next three lines down
6 we have a diagnosis, and the last one which I can't
7 quite make out, I think it's "other diagnosis". It's
8 blacked out on the side where the holes are punched.
9 You will see that against "other diagnosis" is
10 "hyponatraemia".
11 A. Okay, yes.
12 Q. Did you write that?
13 A. I don't think I was involved in any way in Claire's --
14 Q. And if we could please have the --
15 THE CHAIRMAN: Sorry, just before you bring it up. I'm
16 afraid this copy is rather blurred. Just hold the
17 screen for a moment.
18 You might be familiar with this form, doctor. Where
19 it says "cerebral oedema", does that say "principal
20 diagnosis" on the left? Is that the style of the form?
21 A. It seems to be, yes, "principal diagnosis", yes.
22 THE CHAIRMAN: Then the next one is --
23 A. I think that's "status epilepticus".
24 THE CHAIRMAN: Is that "secondary diagnosis"?
25 A. Is it "other diagnosis"? Is it "other"?

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1 in the ward that would fill that form in as part of the
2 housekeeping, really.
3 Q. And if beside that document we could have up
4 090-006-008. What I'm putting up there is
5 a demonstration of the same signature, which looks as
6 though it reads "Mannam".
7 A. It does seem to be, yes.
8 Q. Does that ring a bell with you at all?
9 A. I'm sorry, it doesn't.
10 Q. It looks as though Dr Mannam is a senior house officer.
11 A. It does, yes.
12 Q. And would it normally be a form that would be filled in
13 by a senior house officer, that is the discharge form on
14 the left?
15 A. Yes, it could very well be, that would be the normal
16 practice on the wards.
17 Q. What would the normal practice be in relation to
18 arriving at the diagnosis of the three-part diagnosis
19 that appears in the form?
20 A. Well, the junior medical staff would be part of the team
21 and they would be hopefully au fait with what the
22 diagnoses were of the child.
23 Q. I don't want to go into this in any great depth. I'm
24 mindful of the time. Given that we've heard about
25 Claire's case and the difficulty with the diagnosis,

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1 where would the junior doctor get the diagnosis that
2 arrives on that form? Where would that be extrapolated
3 from, if I may use that term?
4 A. It could ... I wasn't involved in Claire, but just
5 generally, it could be from the notes themselves. It
6 could be from speaking to one of the consultants about
7 that as well.
8 Q. Just for the record, could you read in what it says as
9 the three-part diagnosis, please?
10 A. I think it says:
11 "Cerebral oedema. Status epilepticus and ..."
12 Q. "Other diagnosis, hyponatraemia?"
13 A. It seems to be hyponatraemia, it's quite unclear, but it
14 seems to be hyponatraemia.
15 MR QUINN: Thank you, sir.
16 THE CHAIRMAN: Any more questions from the floor?
17 Mr McAlinden?
18 Doctor, can I pick up one point with you. I think
19 you touched on it earlier. When Dr Carson was here last
20 week, the week before, he said that -- we were talking
21 about the lack of exchanges between the Royal and
22 Altnagelvin in Raychel's case, and he said there is now
23 a different approach to dealing with what were poorly
24 managed cases between hospitals. In other words,
25 we were probing the fact that nobody in the Royal had

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1 reviewed". So that incident report would be reviewed
2 locally in the Children's Hospital and it will go up the
3 organisation, and that would then be shared with the
4 other hospital as well.
5 If it was a serious adverse incident, that becomes
6 an SAI and that comes under the PHA, Public Health
7 Authority, and the Health and Social Care boards. It's
8 at that level, a serious adverse event, and they would
9 oversee any review of what had happened. So it goes --
10 it is escalated very, very quickly. In fact, what seems
11 to happen nowadays is that things are escalated very
12 quickly to that level and they can be de-escalated if
13 they're not deemed to be serious. So the escalation
14 happens. So there would be more escalations to an SAI
15 then there would be reviews and things may be
16 de-escalated to a lower status.
17 THE CHAIRMAN: That step would be taken on this scenario in
18 the Royal even if there had been no failing in the
19 treatment in the Royal?
20 A. Yes, absolutely.
21 THE CHAIRMAN: So the incident report completed in the Royal
22 would be raising issues about what had happened in, say,
23 Daisy Hill or Craigavon?
24 A. Any death like this would become an SAI -- an unexpected
25 death like this would immediately become an SAI. That

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1 really engaged with Altnagelvin to say, "Mistakes were
2 made here. How are you going to learn from them or how
3 can we help you learn from them?"
4 A. Yes.
5 THE CHAIRMAN: You said perhaps earlier on, perhaps before
6 lunch, that now the system is that each hospital fills
7 in its own incident form and we work together on it.
8 A. Yes.
9 THE CHAIRMAN: Let's suppose that there was another disaster
10 like Raychel's next week and Altnagelvin did another
11 critical incident review and the equivalent child to
12 Raychel was transferred to the Royal and similar
13 problems about the way she had been treated were
14 identified in the Royal. What would happen in practical
15 terms next in terms of the Royal and Altnagelvin working
16 together?
17 A. What I've seen to happen is that if a child comes in --
18 okay, it maybe isn't a death, but something's happened
19 and concern has been raised in the Children's Hospital.
20 I've seen colleagues getting on the phone to another
21 hospital -- I'm not going to mention them -- and say,
22 "Look, we've got concerns here, this has happened. What
23 we're going to do is fill in an incident report here on
24 this and it would probably be best if you do the same
25 thing as well because I think that this needs to be

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1 would happen within about 24 hours. Because what now
2 happens in the hospital is that the senior nurses want
3 any adverse incidents that are serious to be brought to
4 their attention within a 24-hour period, so they're not
5 left there in a book and they don't know anything about
6 them.
7 THE CHAIRMAN: Okay. Could I ask you one more point? It's
8 slightly different. One of the big concerns for the
9 inquiry and for the families is that Lucy's death did
10 not lead to a timely inquest and, even worse, Claire's
11 death did not lead to a timely inquest. We've heard it
12 mentioned in passing a few times that the bar for
13 reporting deaths to the coroner has been lowered over
14 the years, not because of a change in legislation, but
15 just there's a different approach taken. Can you
16 comment on that?
17 A. I think it has. I mean, I ... I think because of
18 concerns of what had happened in the past -- and you can
19 help me here -- is it the medical assistant who's ...
20 THE CHAIRMAN: The coroner's office has a -- yes, the
21 coroner now has a medical assistant in the office.
22 A. I think the appointment of the medical assistant has
23 been a big step forward as well because you've then got
24 access to medical advice at the coroner's office,
25 someone that you can actually talk to who's a doctor and

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1 he'll give you advice. So I think that the trigger for
2 informing the coroner is much, much lower now.
3 THE CHAIRMAN: That might make a difference in Lucy's case
4 because there was some contact with the coroner, however
5 adequate it was or not, we've heard evidence about it.
6 But that wouldn't make a difference in Claire's case
7 because in Claire's case there wasn't any contact with
8 the coroner, the coroner was never contacted about
9 Claire, so the fact that the coroner now has a medical
10 assistant doesn't obviously lead to a call being made to
11 the coroner. But are you saying, just on the general --
12 A. I just think that even if Claire had not been -- she
13 wasn't referred to the coroner. I think nowadays, where
14 it wasn't an expected death, that that case then would
15 have been reviewed within the Children's Hospital.
16 There would have been a formal review of that death.
17 THE CHAIRMAN: Okay. Thank you very much indeed.
18 MR QUINN: Mr Chairman, if I can just ask one question. It
19 may be relevant. When I thought about what I'd asked --
20 Mr Chairman, through you could I ask: where does that
21 flimsy go to that the doctor referred to, the flimsy
22 that we had on the screen, the discharge summary from
23 PICU?
24 A. I think it's in triplicate. I think one goes to the
25 pharmacy and one stays in the notes and either -- does

1 one go to the GP or ... Maybe one's sent to the GP so
2 that they get an idea of --
3 Q. Can I just confirm that one goes on the notes; is that
4 correct?
5 A. Yes, one would stay in the notes and that's probably the
6 copy that you saw on the file there.
7 MS ANYADIKE-DANES: I wonder if I might seek clarification
8 of a point that you had raised, Mr Chairman? When you
9 said if those sorts of cases happen now -- and Raychel's
10 case was the example you were given -- that would be
11 a critical incident report, a serious adverse incident.
12 A. That would be escalated as an SAI.
13 Q. And you would do that in the Children's Hospital
14 irrespective of the fact that you may have given no
15 treatment whatsoever. What happens in the referring
16 hospital? Do they have to complete a report themselves
17 so far as you're aware of the --
18 A. Yes, they should be doing that because an adverse event
19 happened there as well.
20 MS ANYADIKE-DANES: Thank you very much.
21 THE CHAIRMAN: Doctor, thank you very much for coming.
22 Apart from going back over the history of events, since
23 the families have been constantly concerned to be
24 reassured that there have been improvements, I hope that
25 the evidence that you've given has actually helped them

1 in that way because whether there are some remaining
2 imperfections, it sounds, on your evidence, as if we've
3 moved on a long way from 2001.
4 A. Thank you, Mr Chairman.
5 (The witness withdrew)
6 THE CHAIRMAN: Thank you. Ladies and gentlemen, we're now
7 adjourning until Tuesday morning at 10 o'clock when
8 we have Mrs Burnside. Thank you very much.
9 (4.15 pm)
10 (The hearing adjourned until 10.00 am
11 on Tuesday, 17 September 2013)
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1	I N D E X
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3	DR PETER CREAN (called)1
4	Questions from MS ANYADIKE-DANES1
5	Questions from MR QUINN180
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