

2 (10.30 am)

3 (Delay in proceedings)

4 (10.45 am)

5 THE CHAIRMAN: Good morning, ladies and gentlemen.

6 Thank you for waiting. As you know, we have essentially  
7 finished the evidence in the investigations we've been  
8 conducting into the treatment and deaths of Adam Strain  
9 and Claire Roberts. Today marks the opening sequence  
10 in the public hearings aspect of the investigation into  
11 the treatment and death of Raychel Ferguson in 2001.

12 Ms Anyadike-Danes is going to present an oral  
13 summary of the written opening of the inquiry team,  
14 which has been circulated. Mr Quinn, I think, is then  
15 going to make an opening on behalf of the Ferguson  
16 family. I don't think we've been notified of any other  
17 openings that anyone intends to make.

18 Just before we hear those openings, let me make two  
19 points. The first is that we have received a further  
20 statement from Mr Gilliland of Altnagelvin. That is  
21 largely a response to the criticisms which have been  
22 made of him by an inquiry expert, Mr Foster. We have,  
23 at the moment, received an unsigned statement and  
24 I think, Mr Stitt, that it has been indicated to us  
25 that, as soon as is possible, we will receive a signed

1 cannot be signed and served on all parties today.  
2 I agree, with respect, that it is important that  
3 everybody has the opportunity before the evidence begins  
4 on Tuesday to consider Mr Gilliland's response. I will  
5 also take instructions in relation to the Orr report.

6 THE CHAIRMAN: Thank you very much indeed.

7 Ms Anyadike-Danes?

8 Opening submissions by MS ANYADIKE-DANES

9 MS ANYADIKE-DANES: Good morning, Mr Chairman. Good  
10 morning, everyone.

11 I should first pay special thanks to my juniors who  
12 have very much assisted me in providing the written  
13 opening that was circulated about a week ago. These  
14 things aren't possible without a team and I'm very  
15 fortunate to have a good one.

16 Raychel Ferguson was born on 4 February 1992. She  
17 was one of four children and her family's only daughter.  
18 At the time when we start to consider her case, she was  
19 a primary five pupil at St Patrick's Primary School in  
20 Derry. Her mother describes her as:

21 "A very popular girl, who was caring and helpful to  
22 her many friends."

23 So that is the child. And you will hear much more  
24 about her, I'm sure, in the opening that my learned  
25 friend Mr Quinn will give, who is senior counsel for the

1 statement, which will be the one which is circulated to  
2 all the parties.

3 MR STITT: Yes, of course sir. We thought it important  
4 at the outset to ensure that the inquiry had his  
5 thoughts in writing and then, of course, we will perfect  
6 it.

7 THE CHAIRMAN: That's fine. I don't have a difficulty with  
8 that, and I should say that that statement was provided  
9 in accordance with the amended procedure, which is that  
10 no witness can volunteer a statement without receiving  
11 the inquiry's consent. That procedure was followed and  
12 I'm quite content with that. But it is important that  
13 before the evidence starts on Tuesday that the parties  
14 have a chance to see that statement. So if it could  
15 possibly be forwarded to us in its signed version either  
16 this afternoon or, at worst, first thing on Monday so it  
17 can be circulated because Mr Quinn for the family hasn't  
18 seen it and he needs to.

19 I understand that the Trust has also instructed an  
20 independent expert called Mr Orr.

21 MR STITT: That's correct.

22 THE CHAIRMAN: I understand his report might well be through  
23 later on today.

24 MR STITT: Yes. In relation to the first of those two  
25 points, sir, I see no reason why the Gilliland report

1 family. So that's a matter that he will address and  
2 I don't propose to talk very much about her as a child.  
3 But I just wanted to start like that because, although  
4 we will fairly quickly get into technical matters of  
5 treatment and the implications and consequences of it,  
6 of course, all that was happening to this daughter of  
7 the Ferguson family.

8 There is an awful lot of material -- and I'm sure  
9 you're aware of it -- to try and distil and present to  
10 get an account of what happened so that you,  
11 Mr Chairman, can form a view as to what ought to have  
12 happened and what are the implications of those things  
13 that did happen and those things that didn't happen.  
14 The inquiry has tried to put together some schedules, as  
15 we have in previous cases, to distil that information  
16 and present it in a way that aids, I hope, analysis.

17 There is, for example, at a straightforward level,  
18 a list of persons. Let me just open that up quickly so  
19 those who haven't been involved previously can see what  
20 I mean. It's at 312-003-001. There we are. It is set  
21 out in sections. The first section is the family  
22 section. And the idea of it, just so you can see the  
23 structure of it, is to say who the person is, what their  
24 position was at the time in question -- which  
25 is June 2001 -- their actual role in the case and

1 whether they've made any statements before and what  
2 those statements are, and in particular, to identify the  
3 inquiry witness statements.

4 And that goes all the way through and, so far as  
5 we can, we have tried to identify all of those who have  
6 come across our path in relation to the treatment and  
7 care of Raychel. These are working documents; if there  
8 are others, we will certainly add to them and you can  
9 always find them on the website.

10 There's also a chronology. It's 312-004-001. This  
11 chronology isn't everything that people say happened to  
12 Raychel because some of the things are contentious and  
13 we hope to identify them in the course of the oral  
14 hearing. In fact, that is a very important part of the  
15 oral hearing, to see if we can resolve some of those  
16 differences between witnesses. But what we have tried  
17 to do is to put into this chronology the things that  
18 don't seem to be in any dispute and, importantly, the  
19 things that are recorded. So it's limited to that  
20 extent, but nonetheless it's quite detailed, as you can  
21 see, and let me help you quickly with how it works.

22 There's a date and then there's the time, when  
23 we have it, then the particular event and then the  
24 source of that. Usually, that will be something from  
25 her charts, her medical notes and records. If there

5

1 over a critical period, which really starts with her  
2 examination with Dr Kelly and goes up to her transfer to  
3 the Children's Hospital. So it's really her time in  
4 Altnagelvin.

5 Let me help you a bit with that, because there's  
6 a lot there. The time is running along the bottom. The  
7 very first band across the top is to identify where she  
8 was, where Raychel was, that is. So obviously, A&E  
9 Ward 6, then she's in surgery and recovery, and then  
10 there's a very long period of time when she's back to  
11 Ward 6 and then there's a very short period of time when  
12 she's in the recovery room.

13 The two bands immediately below that are to try --  
14 so far as we can do it because we don't have rotas --  
15 and identify, during that period of time, who were the  
16 nurses who were on duty. That's that blue line, and you  
17 can see the names of the nurses there. If you drop  
18 down, you can see those bands correspond to times.

19 Then below that is, so far as we can tell, when  
20 Raychel's parents were with her. Sometimes they're both  
21 there, and that's the green, and sometimes one or other,  
22 and you can see that is identified there. In fact, if  
23 you look along there, you will see that, with the  
24 exception of those very stark white spaces, there was  
25 someone there with Raychel, other than just the nurses

7

1 doesn't seem to be very much dispute about it, then it  
2 can be from a witness statement, if we don't have it  
3 in the charts. Actually, that is one of the issues,  
4 that many of these things are not actually recorded  
5 in the charts and so we've done our best to present  
6 a neutral view of the events.

7 In addition to that and to help you, there is  
8 a compendium glossary of medical terms, 312-005-001.  
9 We have added to a glossary that was started in Adam's  
10 case and then also in Claire's case, and this is so that  
11 you don't have to go back to different glossaries to  
12 find out terms that are common to the cases. So we have  
13 a running glossary of medical terms and we add to it as  
14 more terms are referred to in either the  
15 clinicians'/nurses' statements or the experts' reports,  
16 and we hope that that is of some assistance. It's  
17 supposed to be like a medical dictionary, really, but  
18 dealing only with the terms that are relevant to these  
19 cases.

20 Then there are some other documents and I'm going to  
21 talk a little more about them later on. The first of  
22 them is a timeline, 312-001-001. There we are. There's  
23 an awful lot of information on this document and it's  
24 intended actually to try, so far as we can, in a graphic  
25 way, to depict the information in relation to Raychel

6

1 who were on duty, during the length of her stay. And  
2 we are trying to see if it would be appropriate to plug,  
3 if it can be done, those white spaces with any other  
4 independent person who might be there.

5 That pale yellow band coming down, that is her  
6 period in surgery so far as we can tell. Then if we go  
7 along the bottom, that is really to indicate the  
8 interaction with either the doctors or other things that  
9 are of note that we have identified from her medical  
10 notes and records. Usually, the administration of some  
11 sort of drug or a result of her serum sodium or the  
12 passage of urine, which only happens once so far as it  
13 has been recorded. But you can see where she's examined  
14 by Dr Kelly, then you can see the prescription of the  
15 Cyclimorph, of which much has been written about, then  
16 the examination by Mr Makar, then her entirely normal  
17 serum sodium result of 137. We see the examination by  
18 Dr Gund and then there is the ward round by Mr Zafar and  
19 then the attendance.

20 Some of these times are a little bit approximate  
21 coming from witness statements, they're not entirely  
22 clear, doing the best we can. That is Mr Makar's  
23 attendance. Then we see Dr Butler coming in and  
24 changing the IV bag. We see the attendance of Dr Devlin  
25 at 6 o'clock in the evening and the administration of

8

1 the Zofran, as the anti-emetic, and paracetamol  
2 administered. Dr Curran coming in and the cyclizine, a  
3 further anti-emetic, then the new IV bag, and the  
4 seizure at 3 o'clock in the morning. 3 o'clock on the  
5 Saturday morning. She comes in on the Thursday.

6 Then there are the serum sodium results and the  
7 attendance by Dr Trainor, and there are others, of  
8 course, who come in at that stage. And then you see the  
9 transfer to the Children's Hospital at about 6 o'clock.

10 Going diagonally up are two bands, one of which is  
11 a cumulative fluid band, and that is -- I suppose you'd  
12 call that a royal blue. That is higher than the other  
13 because it takes account of the -- the other one, the  
14 other blue one, is the Solution No. 18 band. The royal  
15 blue is slightly higher because it takes account of the  
16 200 ml, we think, of Hartmann's solution that was  
17 administered to her during surgery.

18 If we stick with the royal blue line, we can see  
19 various observations on there. The ones in yellow are  
20 the recorded vomits. The square red ones are the vomits  
21 that either a nurse, doctor, Dr Curran, for example, or  
22 the family have identified as having happened. We've  
23 done the best we can with approximations.

24 I should say one of the things to help with this  
25 part of this timeline is a schedule of observations.

9

1 Then you have an observation by others, in this case  
2 it's Mrs Elaine Duffy, and she's there in the ward as  
3 her child is also a patient. That is the form that  
4 where we work through her time in Altnagelvin.

5 If you go back to where we were on the timeline,  
6 312-01-001, that is what we've tried to depict there as  
7 well as some of the descriptions and some of the people  
8 interacting.

9 The FEC is the fluid balance chart. That's what  
10 that stands for. That other line is the cumulative  
11 total of her Solution No. 18. Those little diamonds are  
12 really to indicate when that observation was being  
13 recorded. The initials are the nurse who has signed off  
14 as having done that.

15 But if you look at where I was just taking you  
16 before, you can see that if one was only to look at the  
17 recorded vomits, then you would have quite substantial  
18 gaps between, but if you add in the vomiting observed,  
19 the picture looks completely different. That is  
20 a matter for evidence as to how accurate those  
21 observations are, but if you add them in, you can see  
22 that with the slight exception of between about  
23 3 o'clock in the afternoon and about 6 o'clock in the  
24 evening, there's fairly regular observations of  
25 vomiting. So that is the timeline and I will go back to

11

1 And if I pull that up now because that might be helpful  
2 to see, it's 312-009. There we are. There has been  
3 an issue as to how extensive or not the observations  
4 were that were recorded of Raychel. What we've tried to  
5 do is pull together both what is recorded about her and  
6 what the different people who are with her say.

7 So you can see that obviously we have the time. If  
8 you go to the next page, there's more detail there.  
9 There we are. You'll see there she is at A&E. Then  
10 you have what is recorded in the hospital notes and  
11 records. Then you have the parents' observations next,  
12 then the nurses' observations, then observations by  
13 others. As you go through it, you will be able to see  
14 that we have highlighted in red and yellow to  
15 distinguish between those observations of vomits that  
16 are actually recorded and those that people have  
17 described in their witness statements as having  
18 occurred.

19 I will give you an example. If we go to page 007,  
20 you can see that between noon and 1 o'clock, there was  
21 a recorded vomit, "vomited plus plus", and if you can go  
22 down to the reference, that will tell you where that  
23 comes from. Then you see the observations of  
24 Mrs Ferguson, it was, at the time, and you can see where  
25 that comes from. Then you see the nurses' observation.

10

1 the timeline probably during this opening, but just to  
2 help you with that.

3 These are the other documents that I'm going to talk  
4 a little bit more about. There is the table of the  
5 clinicians' duty times. That's 312-006. Just briefly,  
6 how this works: we've not been able to receive the  
7 actual rotas of the clinicians, so other than by virtue  
8 of who signed on a chart or who is referred to in  
9 a witness statement in a way that has not been  
10 challenged, we don't really know who was on duty, but  
11 this is doing the best that we can. You can see by  
12 those blocks of colour, they are to indicate where we  
13 just don't know who was either on duty or on call.

14 There are three different schedules of these  
15 corresponding to the three different days, so here is  
16 for 7 June. It goes up in their order of seniority,  
17 which is the JHO, SHO, special registrar and consultant.  
18 We have in the past, for Adam's case, produced  
19 a nomenclature to guide you as to what those terms mean.  
20 If I just give you the reference to it and show you the  
21 first page so you can see what I mean, we're dealing  
22 with the doctors here, so if we go to 303-003-048.

23 That is to tell you what those -- the JHO is really  
24 the PRHO, so that is pre-registration, just to help you  
25 with that. The SHO, you see that, senior house officer,

12

1 then registrar and senior registrars and so on. That  
2 terminology changed at some point and this nomenclature  
3 goes on to describe that, but this is just to give you  
4 its reference so you know where to find it. The same is  
5 true of the nurses, although that usually produces less  
6 difficulty. That is 303-004-051. There it is. That is  
7 the terminology, that is what that implies in terms of  
8 the likely length of their experience and so on.

9 If we go back to the table that we were on before in  
10 terms of the times of the clinicians. Alongside is the  
11 seniority. Then we see for the anaesthetists, we see  
12 that Doctors Gund and Jamison were both on call.  
13 Dr Gund is first on call, Jamison second. Then we see  
14 the surgeons on that day: we see Mr Makar; the  
15 registrar, Mr Zawislak; and the consultant,  
16 Mr Gilliland. We have absolutely no knowledge as to who  
17 was about, if I can put it that way, in relation to the  
18 paediatricians.

19 I should say we have no knowledge at this stage. We  
20 certainly hope to have knowledge by the time we've  
21 concluded the oral hearing.

22 If we go over the page, this is now 8 June. We  
23 don't really know who the JHO was for the anaesthetist,  
24 but we know who the SHO and the registrars were and you  
25 can see that their. You can see their times too, and

1 they're registered with full or provisional GMC  
2 registration.

3 You can see just below, for example, that  
4 Claire Jamison had her provisional in 1998, and that  
5 would be because at that stage she was just a JHO. Then  
6 if we stick with Dr Gund, just to show you how it works,  
7 you can see the next column is when he came to  
8 Altnagelvin. In his case, it was May 2001. Just to  
9 give you some idea of how familiar these doctors are  
10 likely to be with any of the practices that were in  
11 operation in Altnagelvin at the time.

12 Then there's another column, which shows what was  
13 their grade, if I can put it that way, when Raychel was  
14 admitted, and he was an SHO in anaesthesia, and then the  
15 final column is just to show where they are now, and  
16 he's a consultant anaesthetist.

17 Then the next two columns are all to do with  
18 education, training and experience. The first is  
19 pre-registration, which is to give you, Mr Chairman,  
20 what we have gleaned from their CV, for example, or what  
21 is on their witness statement, about what they knew  
22 about hyponatraemia and record keeping and fluid  
23 management in their pre-registration period, which would  
24 be undergraduate, postgraduate, all the way up until  
25 they were fully qualified and could have had GMC

1 some of them go over into another day. This is Friday,  
2 and you can see, for example, Dr Allen carries on, on  
3 call, on an on-call basis, up until the 9th. Then you  
4 see, for the surgeons and the paediatricians, we have  
5 some gaps there. We don't know who the consultant  
6 anaesthetist was at that stage.

7 If we go to the next page, this is the final period.  
8 By about 6 o'clock on the morning of this day, Raychel  
9 was being transferred to the Children's Hospital. But  
10 in any event, before we get to that, these are, so far  
11 as we are aware of them, the medics and clinicians who  
12 were on duty or on call, and you can see once again  
13 we have some gaps there. That's what we hope to  
14 address.

15 So that is who was about, if I can put it that way,  
16 for the doctors. In terms of how qualified they were or  
17 what was their experience, we've produced two other  
18 schedules dealing with the trainee doctors and nurses.  
19 312-008-001. This is quite a dense document, as is its  
20 companion document for the nurses, but broadly what it's  
21 trying to do is it deals with the anaesthetists, the  
22 surgeons and the paediatricians, the ones that had  
23 contact or involvement in Raychel's case. So  
24 if we start with Dr Gund, for example. You can see when  
25 he qualified in 1992. Just below that is the date when

1 registration.

2 Then the next column is what they gained after that.  
3 In particular, where did they have that experience, and  
4 that's what we're trying to show there. For example, in  
5 the case of Dr Gund, he had 2 years' experience as an  
6 SHO in anaesthesia before he came to Altnagelvin. So he  
7 was really quite experienced. If we go over the page,  
8 for example, you see, for example, Aparna Date. She is  
9 1992 qualified. So she's also quite experienced. So  
10 this is just to give you an idea of those who were  
11 about, what was their level of experience, their  
12 familiarity with the procedures in Altnagelvin.

13 The final column is whether or not they had an  
14 induction in Altnagelvin. Some of these doctors were  
15 not, as you will appreciate, from Northern Ireland or  
16 maybe even if they were, not necessarily familiar with  
17 how things are done in Altnagelvin, so whether they  
18 received any form of induction or training relevant to  
19 the matters in this case, and that's what that final  
20 column is trying to show.

21 There is a companion one for the nurses. That's  
22 312-007-001. This is set up on a similar model. So  
23 you have the name, obviously. If we start with  
24 Staff Nurse Patterson, you see her registration, that's  
25 1988. And then when she came to Altnagelvin and at what

1 grade she came to Altnagelvin, what grade she was at the  
2 time of Raychel's admission and what her current grade  
3 is. A similar thing, what does she say she received by  
4 way of pre-registration education, and then her  
5 post-registration experience. For example, for her she  
6 was three years as a staff nurse at the Children's  
7 Hospital. And then there's also the final column to do  
8 with whether they received any form of induction when  
9 they were taken on in Altnagelvin. And that's worked  
10 through for the nurses who have contact with and the  
11 care of Raychel.

12 So that's more or less it in terms of the documents  
13 that we have put together. If I now turn to open the  
14 case properly for you, Mr Chairman. Having gone through  
15 the documentation and distilled the information, if one  
16 were able to sum this case up at all -- and it's not  
17 always an easy thing to do and certainly not when we're  
18 at the stage of still trying to extract information for  
19 you, but two things do seem to be recurring themes, and  
20 they are to do with knowledge and management.

21 In some respects, it would appear that those who had  
22 the knowledge maybe didn't always have the management of  
23 Raychel's care, and those who did have the management of  
24 Raychel's care didn't always have the knowledge.  
25 I don't mean that to be at all flippant, but as one

17

1 team.

2 Sixthly, whether the nursing and medical teams who  
3 cared for Raychel adequately monitored her condition and  
4 whether they provided her with appropriate treatment  
5 before and after she suffered her seizure at 3 o'clock  
6 in the morning of Saturday. And if not, what steps  
7 should have been taken to adequately monitor her  
8 condition and to provide her with appropriate treatment.

9 Then the ninth is whether any lessons learned from  
10 Adam's death in 1995 from the inquest into his death in  
11 1996, from Claire's death in 1996, and from  
12 Lucy Crawford's death in April 2000, affected how  
13 Raychel's death was managed and, if so, in what way.  
14 And if it didn't affect it, how it might have affected  
15 it if other things had been done. And that's part of  
16 the continuing process in taking one child after the  
17 other, to look at that, which is really a governance  
18 matter, Mr Chairman, but some of it -- the groundwork  
19 for some of that can be started in the questions during  
20 this hearing.

21 So then we start, if we put the timeline up,  
22 312-001-001, that is there for reference. We start with  
23 Raychel coming home from school at about 3.20, it's  
24 believed, on the Thursday. And Mrs Ferguson finding her  
25 in good form at that stage. She goes out to play, she

19

1 works through just who was interacting with Raychel and  
2 what they claim to have known and understood about fluid  
3 management. That is a theme that seems to recur.

4 Then if I start to open the case for you, the  
5 starting point is probably the list of issues for  
6 Raychel. The list of issues is, of course, published,  
7 and one finds that at 303-038-478. There are really  
8 nine that we have identified as relevant issues for  
9 Claire that come out of the inquiry's terms of  
10 reference. The first is to do with prescription and  
11 administration of intravenous fluids and the choice of  
12 it and the infusion rate and the total amount. The  
13 second is the monitoring and management of Raychel's  
14 fluid balance. The third, the consideration given to  
15 the appropriateness of her IV fluid management,  
16 including communication about it between the nurses and  
17 the doctors. Fourth, whether her care plan should have  
18 been reassessed and, if so, at what time and in response  
19 to what events. Probably in there is whether it was  
20 adequate to start off with. Then fifth, whether there  
21 was a delay on the part of the surgical team in  
22 responding to calls from the nursing team to see  
23 Raychel, and if so, why that delay occurred and whether  
24 nursing staff should have taken any further steps to  
25 secure the prompt attendance of a member of the surgical

18

1 returns at 4.30, when she's asked for her dinner, and  
2 she experiences what she describes at that stage as  
3 "hunger pains" in her stomach. Mrs Ferguson becomes  
4 concerned about her and the upshot of that is that she  
5 is taken to hospital, which isn't that far away from  
6 where the Fergusons actually live. She arrives at  
7 hospital shortly after 7 o'clock that evening. She's  
8 examined in A&E and the first person who we understand  
9 has contact with her is a triage nurse,  
10 Staff Nurse McGonagle. That is recorded at 20.05 and  
11 the notes give her temperature and her blood pressure,  
12 which are normal.

13 Then she's seen by an SHO, Dr Barry Kelly, and he  
14 notes that Raychel is complaining of a sudden onset of  
15 abdominal pains, that she has been complaining of  
16 nausea, but there's been no actual vomiting, and he  
17 notes her weight at 26 kilos. She describes pain on  
18 passing urine and on the examination of the abdomen,  
19 Dr Kelly finds clinical signs of tenderness to the right  
20 iliac fossa, particularly over McBurney's point. This  
21 McBurney's point, we have actually a pictorial  
22 representation of where that is, and when we get into  
23 some of the clinical evidence, I'll probably put that up  
24 for you so you can see where it is and how they work out  
25 where it is and why it's significant for a diagnosis of

20

1        appendicitis.  
2            There's also rebound tenderness and guarding and so  
3 he suspects appendicitis and he asks for a surgical  
4 assessment. Raychel's pain on passing urine is recorded  
5 in two places. It's recorded on the Accident &  
6 Emergency sheet and on the nursing observation sheet.  
7 Blood tests are arranged and a urine test is conducted  
8 and it reveals +1 protein.

9            Dr Scott-Jupp, who's the inquiry expert in  
10 paediatrics, is of the view that Dr Kelly's assessment  
11 and management of Raychel in A&E was entirely  
12 straightforward and, he says, in keeping with best  
13 practice. Mr Foster, who's the inquiry's expert on  
14 general paediatric surgery, notes that Dr Kelly's  
15 post-qualification experience of working with children  
16 was limited at that time, and he explains that  
17 diagnosing appendicitis -- and this is an extract from  
18 his report:

19            "... particularly in the face of a short history and  
20 normal vital signs, requires considerable experience,  
21 since tenderness, guarding and rebound are extremely  
22 difficult to clarify in a child."

23            He considers it unfortunate that Dr Kelly came  
24 rapidly to the diagnosis of possible appendicitis.

25            The one thing, apart from taking that note, that

21

1        Cyclimorph could mask signs that should otherwise be  
2 there for the surgeon for his diagnostic purposes. He  
3 says if the pain was the issue, which it was, then that  
4 could have been addressed through the prescription of  
5 paracetamol. He regards Cyclimorph as a powerful  
6 intravenous analgesic.

7            He also thinks that unless the symptoms are very  
8 severe, then it's standard surgical teaching that  
9 analgesia should be deferred until a patient has been  
10 seen by a surgeon. Mr Makar doesn't agree, and he is of  
11 the view that the administration of that Cyclimorph  
12 would not have detrimentally affected his ability to  
13 examine Raychel. And he doesn't think it would have  
14 masked the peritoneal signs appendicitis or peritoneal  
15 infection.

16            That is a difference between the inquiry's expert  
17 and Mr Makar and it's, to some extent, a difference also  
18 with Mr Gilliland because Mr Gilliland is, to that  
19 extent, supportive of Mr Makar's position.

20            So that is an issue that we will hope to clarify  
21 in the oral hearing as to whether it was appropriate to  
22 administer the Cyclimorph in those circumstances.

23            So the next event is Mr Makar comes to examine  
24 Raychel. He makes an untimed note of his attendance,  
25 and that is going to be an issue throughout the oral

23

1        Dr Kelly does do, is he prescribes IV Cyclimorph,  
2 2 milligrams of pain relief and that is administered at  
3 20.20 and you can see that there on the chart.  
4 Mr Ferguson remembers that injection and considered that  
5 Raychel was well improved. Mrs Ferguson, she agrees,  
6 says Raychel began to brighten up, her colour returned,  
7 and Mr Foster thinks that that's significant. He states  
8 that the immediate effect of the injection suggests that  
9 Raychel's pain was not due to inflammatory factors, but  
10 was more likely visceral in origin, and he says, if you  
11 take those together with her normal tests, Raychel's  
12 positive response to the analgesic ought to have  
13 prompted a review of the appendicitis diagnosis. It  
14 didn't, so far as we're aware.

15            Mr Foster has then gone on to criticise Dr Kelly's  
16 decision to administer Cyclimorph before the surgeon had  
17 actually had an opportunity to examine Raychel. And if  
18 you look at that, you can see that she's being examined  
19 by Dr Kelly, and then where she gets examined by  
20 Mr Makar. So there's not that long a period of time.  
21 One of the things we hope to explore is whether Dr Kelly  
22 was aware of how quickly Mr Makar could come and attend  
23 to Raychel. But in any event, Mr Foster is critical of  
24 it and the main reason he's critical of it is because he  
25 says that there is a real possibility that administering

22

1        hearing, the adequacy or not of the record keeping.  
2 Having referred Raychel to the surgical team, Dr Kelly  
3 believes that he would have had a discussion with the  
4 surgeon about his clinical findings and Raychel's need  
5 for assessment, but he can't recall the actual  
6 conversation. That might also be an issue, whether, if  
7 there was going to be a discussion like that in aid of  
8 diagnosis, whether that should have been recorded.  
9 Mr Chairman, you'll be aware of some of those sorts of  
10 discussions that happened in relation to Claire's case,  
11 and even Adam's case, as to whether they should have  
12 been recorded or not.

13            So a repeat urine test is carried out, and Mr Makar  
14 reached the view that Raychel is suffering from acute  
15 appendicitis and an obstructed appendix. He, in his  
16 evidence, says he explains the consent process, and what  
17 he believes he said is:

18            "I obtained informed consent for an appendicectomy  
19 after explaining the operation, the risks involved in  
20 surgery, including general anaesthesia and the  
21 possibility of having normal appendix versus the risks  
22 of waiting and the risks of morbidity from acute  
23 appendicitis."

24            There is an issue to be explored further as to  
25 exactly what he did say. Raychel's parents don't

24

1 recollect matters in quite that way. In fact, their  
2 recollection appears to be that they thought the signing  
3 of the consent form was precautionary and that the  
4 surgery was only going to go ahead if her pain  
5 increased, since by the time they left, her pain hadn't  
6 increased. In fact, it had abated. One of the things  
7 to explore is exactly what they did have in their minds  
8 as to what was to happen to Raychel when they left. In  
9 any event, that is a difference because it would seem  
10 that Mr Makar believed that he had made the position  
11 clear, that she was going to have to have surgery, and  
12 essentially it was a matter of waiting for an  
13 appropriate slot, bearing in mind when she had last  
14 eaten.

15 That's a point, Mr Chairman, that apart from the  
16 good order of working on(?) consent, it's an issue to do  
17 with the level of communication between the doctors and  
18 the family, and that's one of the very specific things  
19 that the inquiry's charged to look at, the quality of  
20 the information flow.

21 So Raychel is admitted, her admission to Ward 6 is  
22 timed at 21.41, and she's admitted under the care of  
23 Mr Gilliland, who's the consultant. That is going to be  
24 an issue because it would appear -- although from  
25 Mr Gilliland, in what I believe is going to be

25

1 That care plan is the subject of some criticism by  
2 the inquiry's expert on nursing. She says that the  
3 possibility of postoperative nausea and vomiting was not  
4 identified as a potential problem in the care plan and  
5 she says that considering the frequency of this problem  
6 in children, it was an omission in the care plan to fail  
7 to include this. So Mr Chairman, so far as the  
8 inquiry's expert is concerned, the care plan starts off  
9 rather inadequately, and then you will hear evidence as  
10 we go through as to whether it remained, so far as some  
11 are concerned, inadequate.

12 Mr Makar says that he discussed the presentation of  
13 Raychel and the plan for an appendicectomy that evening  
14 with Mr Zawislak, who was the on-call surgical  
15 registrar. He says that he contacted him via the  
16 switchboard and then he contacted him again before he  
17 went to start the operation. That's important because  
18 until he said that -- which is I think something that he  
19 says for the first time in a second witness statement  
20 for the inquiry -- until he said that, there was some  
21 criticism made by the inquiry's expert Mr Foster in him  
22 not contacting somebody more senior before he embarked  
23 upon a late-evening appendicectomy on Raychel.

24 That statement by him is not accepted by  
25 Mr Zawislak. Mr Zawislak says in his witness statement

27

1 Mr Gilliland's most recent statement, there seems to  
2 have been a slight lack of clarity on the point, but  
3 until that time it seemed clear that he didn't know that  
4 Raychel had been admitted under his care or a child like  
5 Raychel had been admitted under his care and, in fact,  
6 didn't know anything about it until Raychel was actually  
7 dead. That's how it appeared from all the papers and  
8 we'll see how it's put in his most recent statement.

9 So this is a move on from the position that you had  
10 with Claire, Mr Chairman, where the consultant that she  
11 was admitted under at some point knew that Claire was  
12 her patient, but didn't actually see Claire until Claire  
13 had had her collapse, if I can put it that way. Here  
14 we have the consultant who doesn't appear to know that  
15 Raychel is his patient and doesn't know anything about  
16 it until she's actually dead and that will be an issue,  
17 of course, that we will return to during the course of  
18 the oral hearing.

19 An episodic care plan is formulated for Raychel by  
20 Staff Nurse Patterson, and that started at about 21.50.  
21 Interestingly, she notes in the care plan that, on  
22 admission, Raychel was complaining of only slight pain.  
23 And in fact, there's never -- after she receives that  
24 Cyclimorph, there's never any indication that Raychel  
25 was truly in pain prior to her surgery.

26

1 for the inquiry:

2 "I have no recollection of being contacted by  
3 anybody to discuss the treatment of Raychel Ferguson on  
4 the night of 7 June. I was not involved in her  
5 treatment at that stage. This was a very high-profile  
6 case -- and a very tragic case -- and should I have been  
7 involved in any way, I would have remembered it."

8 So that is an issue to be addressed during the oral  
9 hearing.

10 So the parents leave and they're home at about 11.30  
11 that evening. Then very shortly after that, at 22.50  
12 [sic], they're contacted to say that they're taking  
13 Raychel to theatre, and they literally turn round and  
14 come back again.

15 The next point to examine is the -- although I don't  
16 need to do it in very much detail for the purposes of  
17 this opening -- the decision to operate at all.  
18 Mr Foster considers that the decision to operate on  
19 Raychel, certainly at that stage, was reached on tenuous  
20 grounds. He finds it difficult to accept the factors  
21 that Mr Makar says he relied on in support of his  
22 diagnosis and his reason to proceed to surgery. He also  
23 considers it significant that the indication that  
24 Raychel was experiencing pain on passing urine was not  
25 identified as an issue, and he feels that that is

28

1 something that should have been factored into the  
2 decision-making.

3 The inquiry also has Dr Simon Haynes as an expert in  
4 paediatric anaesthesia. He was an expert for the  
5 inquiry in Adam's case and Claire's case, and he shares  
6 Mr Foster's concern that the decision to proceed with  
7 surgery was debatable. He says that the wisdom of  
8 proceeding so rapidly to surgery has to be questioned  
9 since Raychel was not febrile, the severity of the  
10 abdominal pain had decreased by the time she was taken  
11 to theatre and her white cell count was not elevated.

12 Mr Foster and Dr Haynes each consider that an  
13 alternative case -- and I think they would say a more  
14 prudent course -- would have been to admit Raychel for  
15 observation and proceed to the appendicectomy the  
16 following day if that was definitely indicated.

17 Mr Gilliland disagrees with that, and as I indicated  
18 before, he is supportive of not only Mr Makar's  
19 diagnosis in the circumstances, but also of his decision  
20 to proceed to surgery. Dr Scott-Jupp, who's the  
21 paediatric expert for the inquiry, broadly agrees with  
22 Mr Gilliland.

23 So there is obviously an issue to be explored there  
24 about taking Raychel to surgery in the first place.  
25 Really, from the perspective that one could say that if

1 surgery that evening.

2 As regards that specific point on NCEPOD,  
3 Mr Gilliland says that, in June 2001, he actually wasn't  
4 aware of the conclusions of the NCEPOD. He recognises  
5 that the recommendations of NCEPOD were not applied in  
6 Raychel's case, although he has indicated that whether  
7 they ought to have applied in a case of a previously  
8 healthy 9 year-old child undergoing an appendicectomy is  
9 a matter for debate. Doubtless, we will hear his views  
10 on it. In any event, at the relevant time, he didn't  
11 know anything about NCEPOD and now that he does know, he  
12 accepts that it wasn't followed in Raychel's case.

13 Then if one moves on to the preoperative involvement  
14 of senior anaesthetic staff. Dr Gund is an SHO in  
15 anaesthesia, as you saw from the training and education  
16 schedule. He was the lead anaesthetist during Raychel's  
17 appendicectomy and he had commenced working in  
18 Altnagelvin Hospital only on 10 May 2001, which is one  
19 of the reasons for putting that column up. So in terms  
20 of how familiar he was likely to be with how they do  
21 things, if they did do things in a particular way, then  
22 he's unlikely to be very familiar with it. He wasn't  
23 aware of NCEPOD or of a requirement to inform the  
24 consultant anaesthetist if he was planning to  
25 anaesthetise a child.

1 she had never gone to surgery, all the events that  
2 followed on from that, which was really to do with her  
3 post-operative fluid management, arguably wouldn't have  
4 happened and there would have been a whole different  
5 chapter in her family's life.

6 If I then turn to the preoperative involvement of  
7 senior surgical staff, which is an issue that bears on  
8 that decision-making process. One of the reasons  
9 Mr Foster is a little critical -- in fact, quite  
10 critical -- of the decision to proceed to surgery  
11 is that he refers to the 1989 report of the National  
12 Confidential Enquiry into Perioperative Deaths, NCEPOD:

13 "Consultant supervision of trainees needs to be kept  
14 under scrutiny. No trainee should undertake any  
15 anaesthetic or surgical operation on a child without  
16 consultation with their consultant."

17 For these purposes, "trainee" means everybody who is  
18 not a consultant, as you can see if you look at the  
19 nomenclature. Then he says in his report:

20 "Surgery conducted on children at night should be  
21 performed by a senior operator."

22 And Mr Chairman, this is the force of trying to find  
23 out whether Mr Makar did indeed contact Mr Zawislak and,  
24 if they did, then what was the assurance or comfort that  
25 Mr Zawislak gave him that he could continue on with that

1 He did report the case, though, to the second  
2 on-call anaesthetist, who's Dr Claire Jamison. She was  
3 an SHO as well. It's not clear whether there was any  
4 discussion about the appropriateness of the surgery  
5 itself. But Dr Jamison is also unaware, or was at the  
6 time, of NCEPOD requiring her to inform her consultant  
7 prior to undertaking anaesthesia on a child, and she  
8 said it would have been normal practice to inform the  
9 consultant on call if there was a child on an emergency  
10 list, but she can't remember if she did that or if it  
11 was done in Raychel's case.

12 Then if we go to the fluid management  
13 preoperatively. That's very important, Mr Chairman,  
14 because it turns out that what happened preoperatively  
15 was going to dictate what happened post-operatively, so  
16 it's quite important to look at it and see why that  
17 particular regime was being prescribed.

18 Mr Makar started off by prescribing Hartmann's. He  
19 did that at A&E. We haven't actually seen the written  
20 record of it, but we're told that that is what happened.  
21 He says he wrote and signed for Hartmann's solution on  
22 a fluid balance sheet in the A&E, and he explains -- and  
23 this I think is material -- that he chose Hartmann's --  
24 so it wasn't just something that was routine, he chose  
25 it -- because of its isotonic nature. But having done

1 that, he was asked by Staff Nurse Ann Noble, who was the  
2 nurse on duty on Ward 6, to change the fluid  
3 prescription to Solution No. 18. And the reason they  
4 said that is because this was the recommended solution  
5 at that time for the children in the paediatric Ward 6  
6 and, not to put too fine a point of it, Mr Chairman,  
7 that's how they did things on Ward 6.

8 Mr Makar recalls that Ward 6 didn't apparently  
9 routinely keep Hartmann's in its stock, and he makes it  
10 clear that he was only prescribing in respect of the  
11 preoperative period when Raychel would have been  
12 fasting. So that's part of the factor that he's taking  
13 on board when he decides what he's going to prescribe  
14 for her and at what rate, more to the point, he's going  
15 to prescribe it.

16 So having received that information from  
17 Nurse Noble, it gets changed to Solution No. 18, and  
18 that is written up and signed up for by Mr Makar. In  
19 fact, Nurse Noble explains the position in terms of why  
20 she gave that information as being:

21 "When I arrived on Ward 10, paediatrics, May 1990,  
22 Solution No. 18 was prescribed for pre and post-surgical  
23 and medical patients and it was the practice of both  
24 medical and surgical doctors to prescribe Solution No.  
25 18. That was commonly used as the first choice of

33

1 but if one looks in a little more detail, what the  
2 surgeons thought was going to be the position and what  
3 the anaesthetists thought was going to be the position  
4 don't all fit with what is described. The nurses are  
5 all pretty uniform as to what they say the practice was,  
6 it's just that they are describing a practice that  
7 doesn't necessarily accord with what the anaesthetists  
8 and surgeons say. You've actually identified a very  
9 real difficulty, which is when you ask what is the  
10 Trust's position, it's not clear what the Trust's  
11 position is when you have the three main disciplines who  
12 are dealing with Raychel at that time having slightly  
13 different views as to what the regime was on Ward 6.

14 THE CHAIRMAN: Okay.

15 MS ANYADIKE-DANES: That is something that we're trying to  
16 explore with the Trust, to find out whether there was  
17 a practice and, if so, if there was one, how do you have  
18 such differing views about it, if I can put it that way.

19 In terms of the nurses being the front line, if you  
20 like, to communicate to who may be quite senior SHOs,  
21 albeit not terribly long at Altnagelvin, in terms of  
22 them being the people to communicate the fluid  
23 management regime, Dr Haynes makes a point in his  
24 report. He says:

25 "Although the nurses had knowledge of and were able

35

1 fluids, so that's what we did."

2 One of the things that might be a little troubling  
3 is that Nurse Noble puts herself in the position of  
4 advising Mr Makar about the appropriateness of the fluid  
5 that he had decided to prescribe and for which he had,  
6 he would say, very good reason. Mr Foster believes that  
7 the admission of Nurse Noble at Raychel's inquest that  
8 she had never heard of hyponatraemia in her 14 years of  
9 nursing, that should be of concern if she's the person  
10 who is guiding, if I can put it that way, Mr Makar as to  
11 what the preoperative fluid regime should be.

12 THE CHAIRMAN: Sorry, am I right in understanding that  
13 Altnagelvin has not contradicted Nurse Noble's position  
14 that Solution No. 18 was prescribed for pre and  
15 post-surgical and medical patients in Altnagelvin?

16 MS ANYADIKE-DANES: Not that we've heard yet.

17 THE CHAIRMAN: So whatever criticism might be made of  
18 Nurse Noble on various issues, if that statement is not  
19 contradicted, it accurately reflects what the  
20 Altnagelvin position was and it's reasonable for her to  
21 bring the Altnagelvin position to the attention of  
22 Mr Makar.

23 MS ANYADIKE-DANES: Well, yes. The difficulty is,  
24 Mr Chairman, and as we get into what the different teams  
25 thought -- that might be what she as a nurse thought,

34

1 to recite to junior medical staff what was routinely  
2 prescribed on the ward [and I think this is your point,  
3 Mr Chairman] they were unlikely to have a proper  
4 understanding of fluid and electrolyte balance or  
5 understand how abnormalities could arise."

6 Dr Haynes adds:

7 "Seemingly, nobody took ownership of the supervision  
8 of fluid and electrolyte balance, not surgeon,  
9 anaesthetist nor paediatrician."

10 So he's identified that there isn't unanimity of  
11 view and, in any event, he queries the wisdom of it  
12 falling to the nurses to explain these matters when they  
13 are not -- or should not be -- as alive to the  
14 significance of the condition in relation to the  
15 prescription, so the presentation of the child and the  
16 fluid being administered.

17 THE CHAIRMAN: In other words, who's in charge?

18 MS ANYADIKE-DANES: Exactly.

19 THE CHAIRMAN: Or, as Thursday night went into Friday, was  
20 anybody in charge?

21 MS ANYADIKE-DANES: Exactly. That is exactly the point.

22 And if we then go to the rate of fluids, the  
23 prescription sheet indicates that Solution No. 18 was  
24 going to be administered or was to be administered at  
25 a rate of 80 ml an hour. That was erected at 22.15, as

36

1 you'll see from the timeline, by Nurse Patterson, and it  
2 was checked -- and this is part of good practice, as  
3 I understand it from our nursing expert -- checked by  
4 Staff Nurse Bryce. All that is confirmed on the fluid  
5 balance sheet.

6 She received a total of 60 ml of that Solution No.  
7 18 preoperatively. But that's not the significance of  
8 it. The significance of it is the rate and how that  
9 affects the post-operative administration of fluids.  
10 Dr Haynes refers to something that's called the  
11 Holliday-Segar formula, and that is just a formula for  
12 how you calculate the normal daily maintenance of fluid.  
13 I am not sure, ultimately, that there has been any great  
14 difference between everyone as to what figure that  
15 produces. You use the child's weight and you have  
16 a figure for an initial 20 kilograms and then a figure  
17 for a further 5 kilograms and you end up in this case,  
18 given Raychel's weight, with 65 ml an hour.

19 Dr Haynes, Mr Foster and Ms Ramsay all consider that  
20 the decision to set the rate, as Mr Makar did, at 80 ml  
21 an hour was in excess of Raychel's maintenance  
22 requirements of 65 ml an hour.

23 Mr Chairman, you will, of course, recall from Adam  
24 and Claire that one's always dealing in these matters of  
25 fluid administration with two issues. One is fluid

37

1 administered for about an hour or so, so it was a short  
2 time in those particular circumstances, and he thought  
3 80 ml was adequate or appropriate for that.

4 There are some issues as to why he was estimating  
5 Raychel's weight at 26 kilos and why didn't he just use  
6 her actual weight, which was 25. Those sorts of  
7 details, Mr Chairman, I don't propose to go into in this  
8 opening, it's all in the written opening so that people  
9 can read the likely significance of that.

10 THE CHAIRMAN: It's not the most significant point in terms  
11 of overload of fluid?

12 MS ANYADIKE-DANES: No, it's not. It's one of those factors  
13 about care and attention to detail, if you like, but not  
14 the most significant thing for her fluid management, no.

15 So then Raychel's brought to the theatre at 23.10.  
16 The intraoperative record shows what she was given then  
17 and you can see her period in theatre on the timeline.  
18 There's a retrospective note, which Dr Nesbitt requests,  
19 and that gives us this detail, that although she had  
20 a one-litre bag of Hartmann's solution put up, she only  
21 received 200 ml of that, and Dr Jamison has signed off  
22 on that retrospective note. When she goes into theatre,  
23 she receives Hartmann's, and that's something that the  
24 anaesthetist Dr Gund would have wanted. So the  
25 operation starts at about 23.30 and lasts up until about

39

1 replacement, so if you have lost fluid from diarrhoea or  
2 vomiting and so forth, that needs to be replaced. And  
3 then there's an entirely different thing called  
4 maintenance. The body just needs a certain level of  
5 fluid in there, and that's the maintenance level. The  
6 maintenance level that was being recommended as a result  
7 of using that formula would have been 65 ml an hour for  
8 Raychel, and 80 therefore, the experts say, was too  
9 high.

10 THE CHAIRMAN: They all formed that view about the  
11 appropriate rate separately and independent of each  
12 other?

13 MS ANYADIKE-DANES: Yes. So Mr Makar accepts the  
14 implications of the Holliday-Segar formula, but he says  
15 that there were some other factors that he applied to  
16 increase that to the 80 ml that he prescribed. One of  
17 them was that she had been fasting since 5.30 that  
18 evening. The other is that she had been in a warm  
19 hospital environment, so she's going to perspire and so  
20 on, and that's part of her maintenance requirement. And  
21 then the fluids were only started at 10 o'clock in the  
22 evening and he thought there would be a little bit of  
23 a fluid deficit before then, but fairly quickly she  
24 would be going into her surgery -- and this is perhaps  
25 an important bit -- that they were only going to be

38

1 20 minutes past midnight.

2 The surgical findings, I can deal with very briefly.  
3 Mr Makar recorded there was a mildly congested appendix  
4 with an intraluminal faecolith and that the peritoneal  
5 cavity was clean. The upshot of it is that when they  
6 examined the appendix, actually it was a healthy  
7 appendix, but nobody knows that at the start, so there's  
8 just the issue -- the issue really is what was the  
9 information available to make the original diagnosis and  
10 the original decision to proceed to surgery. As it  
11 happens, it turned out that possibly the surgery was  
12 unnecessary, but hindsight is always a wonderful thing.

13 There's a little bit of a concern for the parents as  
14 to how long she remained in the recovery room and what  
15 they were being told about that, and that will be  
16 an issue to do with communication, which we can take up  
17 during the oral hearing itself.

18 Then we go to a quite important period of time,  
19 which is the responsibility for the post-operative fluid  
20 management. Raychel returns to the ward at  
21 approximately 1.55, and her intravenous fluids are shown  
22 as having recommenced at that time. The investigation  
23 that we have conducted, that's the inquiry's legal team,  
24 has revealed that amongst those who had responsibility  
25 for caring for Raychel, there was a great deal of, it

40

1 seems to us, confusion and uncertainty surrounding the  
2 arrangements of fluid management in that post-operative  
3 period.

4 Dr Haynes says that's not uncommon for the  
5 boundaries of responsibility for post-operative fluid  
6 management to be a little vague and he says, to this  
7 day, they can be a little vague in most hospitals. But  
8 the fact that the boundaries might be a little vague --  
9 I would say, Mr Chairman, we have to look at if what was  
10 actually happening was in any way uncertain because the  
11 child has to be treated and has to be treated  
12 competently.

13 So we have set out the different approaches to that,  
14 and these are actually quite important because it's in  
15 this, Mr Chairman, that one sees the very point that you  
16 were alluding to, which is: who knew what and did they  
17 all know the same thing? Dr Gund explains in his  
18 witness statement about having written the prescription  
19 of Hartmann's for Raychel's post-operative fluids. So  
20 he writes a prescription for Hartmann's to be  
21 administered to her whilst she's in the operating  
22 theatre. He also writes a prescription for her to have  
23 Hartmann's after she leaves the theatre, presumably  
24 because he thought that was the most appropriate fluid  
25 for her. In fact, Dr Haynes says that was entirely

41

1 Solution No. 18.

2 Dr Gund says his understanding was that once Raychel  
3 was established back on the ward, a nurse would ask  
4 a paediatrician to prescribe for Raychel's ongoing fluid  
5 needs. The significance of that, Mr Chairman, is that  
6 whatever they thought was the practice that happened  
7 in that ward, Dr Gund's view, his evidence, is that some  
8 clinician was going to make that decision, not that one  
9 would simply continue with whatever had been prescribed  
10 for her before surgery, but a clinician would actually  
11 make a decision. As it happened, he was being told it  
12 wasn't for him to do it.

13 If one moves to the approach of the nurses, we start  
14 with the recovery area care record. That's written by  
15 Nurse McGrath, who was the theatre nurse. She indicates  
16 that fluids are to be recommenced in ward. That's what  
17 she notes. She says in her inquiry witness statement:  
18 "This record was based on the anaesthetist's verbal  
19 instructions, which stated that the Solution No. 18 that  
20 was in progress preoperatively should be recommenced on  
21 Raychel's return to the ward and that this was the  
22 normal practice."

23 There is a difference right there between the  
24 theatre nurse and Dr Gund because she is referring to  
25 having received an actual instruction to have the

43

1 appropriate that he should select Hartmann's. He takes  
2 issue with the rate of 80 ml. He said that was  
3 excessive, it was excessive beforehand, and he felt it  
4 was excessive post-operatively.

5 Then Dr Gund's evidence is, having done that, he was  
6 told by his colleague Dr Jamison to cross a prescription  
7 off because fluid management on the paediatric ward was  
8 managed by ward doctors. This is the point where  
9 perhaps his relative inexperience of Altnagelvin  
10 procedures was to his detriment. He may have been  
11 conscious that since he was only there for four weeks,  
12 that he should adhere to the practice as being described  
13 to him by Dr Jamison. That's going to be an issue.

14 Dr Jamison says she can't recall discussing with  
15 Dr Gund how Raychel's fluids were to be managed  
16 post-operatively. She says in her witness statement  
17 that it would have been usual for fluids to have been  
18 managed on the paediatric ward, although in general  
19 terms she said:

20 "If the anaesthetic team felt it necessary to  
21 prescribe post-operative fluids, then they would have  
22 done so."

23 That was exactly what Dr Gund did do. So then how  
24 that fits in with the practice or protocol is unclear if  
25 the anaesthetist prescribes something other than

42

1 Solution No. 18 regime restarted post-operatively.

2 That is clearly something that will have to be addressed  
3 during the oral hearing. I would rather have liked it  
4 to have been given to us before then, how those two  
5 things are compatible, but in any event, it's something  
6 that we will definitely be exploring.

7 What does happen is that Nurse Patterson reconnects  
8 the intravenous fluids for Raychel when she gets back on  
9 to the ward and, what does she do, she reconnects  
10 Solution No. 18 at the rate of 80 ml an hour, which was  
11 the rate that Mr Makar says he only set at 80 ml a hour  
12 because of the special circumstances that I addressed  
13 you on earlier, Mr Chairman.

14 What was the understanding of the surgeons? The  
15 inquiry's investigation has identified some  
16 misunderstandings of the process for post-operative  
17 fluid management. Mr Gilliland's understanding seems to  
18 be this:

19 "Initial post-operative fluids are usually  
20 a continuation of fluids prescribed intraoperatively,  
21 not preoperatively."

22 Intra, in other words, whatever was happening during  
23 theatre:

24 "This prescription should be started by the  
25 anaesthetist in theatre and taken over by the surgical

44

1 team on return to the ward. Thereafter, the  
2 prescription of intravenous fluids is usually the  
3 responsibility of the pre-registration house officer."

4 Well, if that was going to happen then the  
5 Hartmann's, which was started in theatre, would have  
6 been continued in line with Dr Gund's prescription and  
7 continued on possibly to the end of the bag, and then  
8 somebody, a surgeon, would review and decide what the  
9 fluid regime was to be thereafter. That's what  
10 Mr Gilliland thinks is the position. But as you know,  
11 Mr Chairman, that isn't what happened.

12 Mr Makar also doesn't seem to be aware of how the  
13 post-operative fluids were actually managed. He says he  
14 understood that the anaesthetist would write the  
15 recovery post-operative fluids, which would cover the  
16 period post surgery, until the morning surgical ward  
17 when the surgeons would take over. He understood that  
18 the anaesthetist would actually write a prescription,  
19 the anaesthetist would be responsible for this period,  
20 according to Mr Makar's understanding of the  
21 arrangements, because the fluid to be given  
22 post-operatively depended on what had been given  
23 intraoperatively and whether there had been a fluid  
24 deficit or overload.

25 So Mr Chairman, they simply don't accord with the

45

1 lines of responsibility, generated a system at  
2 Altnagelvin where intravenous fluid prescriptions for  
3 post-operative surgical patients were being dictated to  
4 the junior medical staff by nursing staff on the basis  
5 of custom and practice rather than by patient  
6 observation and informed by individual patient need."

7 And I'm sure, Mr Chairman, we will return to that  
8 issue in governance. But in any event, that is his very  
9 clear view as to how inappropriate the regime was, if  
10 indeed it was the way that the nurses have described it.

11 If I then go on to deal with the details of the  
12 post-operative fluid management. The start of that is  
13 the fluid balance chart because that's where one sees it  
14 all recorded. That was maintained by the nurses and you  
15 can see their initials on that timeline as to who was  
16 recording what. There is an observation about that,  
17 because if you look at that timeline, it goes up almost  
18 as if it was drawn with a ruler. There are no  
19 variations in it at all. Sally Ramsay, the inquiry's  
20 expert, has commented in her report about that. She  
21 says:

22 "The fluid balance chart shows the total amount of  
23 intravenous fluid given and it appears Raychel received  
24 the exact same amount every hour. In my experience, the  
25 hourly volumes vary as it is unlikely that a nurse can

47

1 view that the nurses had, but unfortunately it was the  
2 nurses who appeared to be in control of that process.  
3 If one goes to the paediatricians, it's no more  
4 illuminating, but I won't go through it all. We have  
5 done an analysis of it. Our experts' view is, if one  
6 takes Dr Haynes, that it's the anaesthetist who should  
7 have been responsible for the initial fluid  
8 prescription, both rate and type of fluid, on return to  
9 the ward, with the surgical team taking over the role  
10 either at the next ward round or, if the patient's  
11 condition changed. That's how that should work. And  
12 the reason it is is because it's the anaesthetist who's  
13 had the opportunity to assess the fluid status of the  
14 patient preoperatively.

15 He says that it's completely inappropriate -- in  
16 fact, if I just take you a bit to his report, he says:

17 "It is completely inappropriate for the system that  
18 has been described to have been put in place. The  
19 problem was that there was no clear structure, no  
20 acceptance of responsibility between the senior staff  
21 in the three specialties, surgery, anaesthesia and  
22 medical paediatrics, regarding this important aspect of  
23 patient management. It appears to have always been  
24 somebody else's job. The consultant staff in each of  
25 the three departments, by failing even to meet to agree

46

1 read them at precisely the same time each hour. It is  
2 an unusual practice to record both the hourly amount and  
3 the cumulative total, and the entries suggest the chart  
4 has been completed with expected volumes infused rather  
5 than actual volumes."

6 That is obviously something that we will have to  
7 take up during the oral hearing because if that's the  
8 case, that has very serious implications for being able  
9 to manage this child's fluids if one's looking at  
10 a chart that doesn't perhaps accurately capture exactly  
11 what is happening as it is happening.

12 There are some other criticisms about that in terms  
13 of its failure to fully, so the evidence suggests,  
14 record all the input and output. At least one of those  
15 vomits is a vomit that happens when Dr Curran is there,  
16 and he actually sees it, yet that doesn't appear on the  
17 fluid balance sheet.

18 Mr Chairman, where I really wanted to go to next was  
19 to start with the next day. But I'm conscious of the  
20 time and I wonder if this is a ...

21 THE CHAIRMAN: We'll go on for a while longer.

22 MS ANYADIKE-DANES: The next day really starts with the  
23 surgical ward round and with Mr Zafar's attendance.  
24 It is very difficult to tell exactly the precise time of  
25 it, but it's some time before 9 o'clock. Unfortunately,

48

1 when it happens, Mr Ferguson has just stepped out to get  
2 a colouring book for Raychel, so he's not actually there  
3 when it happens. But there's no record or mention of  
4 Mr Zafar asking where Raychel's parents are so that he  
5 can discuss her condition and treatment plan with them,  
6 and he's the first of five doctors who attends with  
7 Raychel during that time. No doctor saw Raychel more  
8 than once and there is no evidence available to the  
9 inquiry to suggest that the doctors who saw her actually  
10 spoke to each other about her condition.

11 Sister Millar is there, present when Mr Zafar is  
12 carrying out the ward round. She places it at some time  
13 between 8.30 and 10. He makes a very short note:

14 "Post appendicectomy, free of pain, apyrexial,  
15 continue observations."

16 But he also says -- and this is point of difference  
17 between he and Staff Nurse Millar, who is a very  
18 experienced staff nurse -- he provided verbal  
19 instructions during the ward round to start Raychel on  
20 sips of oral fluid and gradually reduce the IV fluids.  
21 When he was asked about that in a second inquiry witness  
22 statement, he said that he advised that the rate of  
23 fluid should be reduced. But Mr Chairman, there's  
24 absolutely no written record of that having happened,  
25 and that, one might like to think, is quite an important

49

1 is Mr Zafar. Mr Gilliland has said that, on 8 June, he  
2 would have been available for consultation or for the  
3 direct clinical care of somebody like Raychel if that  
4 had been thought to be necessary. So there is an issue,  
5 which I'm not going to go into in great detail now,  
6 because it's set out in the opening, as to whether that  
7 ward round should have been taken by Mr Gilliland or  
8 whether it should have been taken by one of the  
9 registrars. And in any event, if it wasn't going to be  
10 somebody more senior, should it at least have been taken  
11 by Mr Makar, who was about, because shortly after that  
12 he came to see Raychel.

13 The issue about the registrar is one that we will  
14 have to explore a little further because there is  
15 a reference to a registrar being about on the ward and  
16 so we will need to see whether -- we haven't been told  
17 yet as to who that person might be, but we are trying to  
18 find out who that registrar was. If there was one, then  
19 we'll need to try and identify the person and to see why  
20 that person didn't feel it necessary or appropriate to  
21 come and examine Raychel.

22 It's not entirely clear what Mr Zafar did during his  
23 examination of Raychel or indeed the extent to which he  
24 examined her at all. He doesn't seem to have come back  
25 or doesn't seem to have made any attempt to come back

51

1 instruction, apart from anything else, because it does  
2 deal with the reduction, but it doesn't, unless he went  
3 on to expand upon it verbally, appear to say, "To be  
4 reduced" what to, at what rate, what should trigger the  
5 reduction, and so on. And those are all issues to be  
6 explored further in the oral hearing.

7 What we do know is that there wasn't a prescription  
8 written up to reflect that view if that is what he told  
9 the staff nurse. He makes no reference and doesn't  
10 appear to factor in the fact that Raychel had a vomit at  
11 8 o'clock that morning, which would have been shortly  
12 before his ward round. In his witness statement, he  
13 said that she was bright and alert, free of pain and  
14 nausea or vomiting.

15 He does say, had he known that she had vomited, then  
16 he would have arranged for a blood test of urine and  
17 electrolytes, which might turn out to be significant,  
18 because Sister Millar says she told Mr Zafar that  
19 Raychel had vomited at 8 o'clock, and anyway it was on  
20 the fluid balance sheet, so if he'd looked at the fluid  
21 balance sheet, he'd have seen that. So that's an issue  
22 to be explored further.

23 There is a question as to who should have taken that  
24 ward round. The person who carried out her surgery is,  
25 of course, Mr Makar. The person who did the ward round

50

1 and speak to her parents. Mr Ferguson, on his evidence,  
2 wouldn't have been away for more than about 15 minutes  
3 and that will be an issue to do with communications with  
4 parents.

5 Dr Haynes is quite clear that:

6 "All inpatients should be seen, examined, and the  
7 results of appropriate investigations scrutinised on at  
8 least a daily basis during the course of a formal ward  
9 round, ideally supervised directly by the responsible  
10 consultant."

11 And he was surprised that Mr Gilliland did not do  
12 a ward round of surgical patients admitted under his  
13 care in the 24 hours prior to that 9 o'clock on 8 June,  
14 and he regards that as having been standard practice.

15 Mr Foster has also noted that Mr Zafar's limited  
16 experience of working with children -- he had only been  
17 4 months as an SHO. He considered it:

18 "... entirely unsatisfactory and unsafe that  
19 a clinician with such limited experience was left to  
20 conduct a ward round of such importance in the absence  
21 of a specialist registrar or consultant."

22 And that is particularly why we are keen to see  
23 whether there was a registrar available on that ward and  
24 why that registrar didn't attend if there was one.

25 Then we have Mr Makar. He comes at 9 o'clock. Why

52

1 it was not possible for them to coordinate their  
2 attendance on Raychel isn't clear, but that didn't  
3 happen. In fact, it's Mr Makar who makes reference to  
4 a registrar. He says that he was told that he had just  
5 missed the other surgical team, which comprised  
6 a registrar and an SHO. So that's where that came from.

7 But in any event, Mr Makar comes, he doesn't examine  
8 Raychel, but Mr Ferguson is back there at that stage and  
9 he does have a discussion with him. But because  
10 Mr Makar is of the view that Raychel's now in the care  
11 of Mr Zafar, he doesn't regard it as part of his role to  
12 consider what her fluid management regime is, to see the  
13 significance of the fact that she has vomited, or, for  
14 that matter, to discuss anything with Mr Zafar. His  
15 view is he's written a detailed operative note, it's all  
16 there and Mr Zafar can glean what he needs from it.

17 Then if we go to the post-operative nausea and  
18 vomiting, because this proves to be the most significant  
19 thing that happened during that Friday, 8 June.  
20 You will see on that timeline the incidents, those that  
21 are recorded and those that are recalled but not  
22 recorded. In addition to those, Mrs Ferguson -- and you  
23 can see her recollections -- personally recalls vomiting  
24 at 11 o'clock, 12 o'clock, two vomits at midday and  
25 3 o'clock, and two vomits at 3.45 in the afternoon.

53

1 and at 3, but these weren't large amounts and, as far as  
2 she was concerned, Raychel continued to be stable, in  
3 good form, and gave no cause for concern."

4 Sister Millar is on duty until 8 o'clock in the  
5 evening.

6 So that is a factual difference that has to be  
7 addressed during the course of these oral hearings.

8 The cause of the post-operative nausea and vomiting  
9 is something that is important for us to explore in the  
10 hearings because of the extent to which it points  
11 towards hyponatraemia and hyponatraemia left untreated  
12 is, as we all know by now, a very dangerous thing,  
13 particularly if, as it develops, one continues to infuse  
14 with low-sodium fluids.

15 So Dr Haynes says, according to him:

16 "Post-operative vomiting related to anaesthesia and  
17 operation per se [so if there is post-operative vomiting  
18 that is caused by the operation and the anaesthesia  
19 itself] that usually settles within the first six hours.  
20 It is sometimes troublesome for up to 24 hours."

21 In addition, some of the opiate drugs used for pain  
22 relief have nausea and vomiting as possible side  
23 effects. So it's to be expected that there could be  
24 some post-operative vomiting. As you'll recall,  
25 Mr Chairman, that's one of the reasons why Ms Ramsay,

55

1 In her view, when she gave her evidence to the  
2 inquiry in her witness statement, she said that Raychel  
3 was just being sick all the time and heaving  
4 continually. Mr Ferguson also remembers Raychel  
5 vomiting he says that:

6 "Raychel remained in bed while I was there and  
7 vomited several times and I recall taking several kidney  
8 trays filled with vomit out to the nurses."

9 That doesn't fit at all with what Sister Millar  
10 says. If you look along the top, you'll see who was  
11 there. During this period of time, you're really  
12 dealing with Sister Millar, nurses McAuley, Roulston --  
13 they're the ones who are on duty up until 8 o'clock that  
14 evening.

15 THE CHAIRMAN: So there's a minimum of seven vomits in  
16 15 hours if we go by the fluid balance record --

17 MS ANYADIKE-DANES: Yes.

18 THE CHAIRMAN: -- and a query about whether there are six  
19 more?

20 MS ANYADIKE-DANES: That's exactly it.

21 What Sister Millar says is -- she agrees that  
22 Raychel was generally bright and happy in the morning  
23 and Mr Ferguson has talked about her being able to walk  
24 around. She says that:

25 "She vomited undigested food at 10.30 and again at 1

54

1 the inquiry's expert, says that should have been built  
2 into the care plan just because it is to be anticipated.

3 Dr Scott-Jupp says that because Raychel didn't vomit  
4 until some eight hours after she left theatre, he  
5 thought it was unlikely that it was the anaesthetic  
6 agents or the operation itself causing the vomiting. So  
7 in his view, if one takes that to its logical  
8 conclusion, somebody should have been asking: why is she  
9 vomiting then some eight hours afterwards?

10 Mr Foster notes Raychel was initially well and  
11 mobilising and she gradually became drowsy and  
12 non-communicative. This is a point of difference  
13 between the nurses and the parents and some of the other  
14 people in the ward. But in any event, on those people's  
15 views, she did become drowsy and non-communicative, and  
16 both he and Mr Foster consider that the initial causes  
17 of post-operative nausea and vomiting were likely to  
18 have been progressively overtaken by the onset of  
19 hyponatraemia, which itself was likely to have been  
20 caused partly by electrolyte loss in vomit and partly by  
21 SIADH.

22 So then if we go to the post-operative  
23 hyponatraemia, which is really at the heart of it for  
24 the purposes of this inquiry's investigation. Dr Haynes  
25 and Mr Foster have explained the main causes of

56

1 hyponatraemia during the post-operative period and  
2 there's no real difference between them: the  
3 administration of low-sodium fluid, hypotonic solutions,  
4 low urine output, which can be caused by SIADH. And  
5 Mr Chairman, I'm sure that you know by now that the  
6 issue is that ADH, antidiuretic hormone is produced  
7 naturally, the body does that as a response to surgery  
8 or stress. What that does is to restrict the expulsion  
9 of urine, so that free water is retained, it's  
10 reabsorbed into the blood by the kidneys and dilutes the  
11 serum sodium concentration.

12 If that happens too much, as I understand it, that's  
13 called the inappropriate SIADH, then that can contribute  
14 towards the development of hyponatraemia. So that's the  
15 second issue. The third issue is sodium depletion  
16 caused just by chronic losses from the gastrointestinal  
17 tract, vomiting in the case of Raychel. So Raychel  
18 could potentially have ticked all those three boxes.

19 Then we come to a very important point, which  
20 is: what was the knowledge of those who were caring for  
21 Raychel about that? Mr Chairman, that goes back to the  
22 very first thing I said, which is whether those who had  
23 the care of her had the knowledge and whether those who  
24 had the knowledge had the care of her.

25 Mr Foster refers to that mechanism of ADH secretion

57

1 neither -- and this is a critical point that he makes --  
2 neither felt empowered to insist on what they knew to be  
3 the correct course of action. And that is definitely  
4 a point to be taken on, not just in the oral hearings in  
5 this clinical phase, but certainly into governance.

6 Dr Scott-Jupp, of course, wants to point out -- and  
7 that's a fair point to make -- that post-operative  
8 hyponatraemia is very rare and he would have expected  
9 a junior surgical doctor in a district general hospital  
10 to have a very limited understanding of, if any, the  
11 risks of hyponatraemia anyway.

12 But Dr Devlin, who's the JHO, in his witness  
13 statement, he says he was aware of some factors that  
14 could cause electrolyte imbalance in post-operative  
15 patients, and he lists any number of them, including  
16 vomiting, diarrhoea, fluid administration, hormonal  
17 response to surgery -- that's the ADH -- as factors  
18 which could all cause an electrolyte imbalance and he  
19 believed that Raychel was suffering from post-operative  
20 vomiting at the time he saw her, and he thought that  
21 Solution No. 18 was an appropriate choice of fluid in  
22 those circumstances. How the knowledge that he has just  
23 explained to us fits with what he actually saw on the  
24 ward and thought was appropriate is something to take up  
25 with him during the course of this hearing.

59

1 following any stressful event such as surgery being  
2 a physiological fact that is core knowledge, and he  
3 would have expected any appropriately trained doctor and  
4 nurse to have known about that. He cites three standard  
5 surgical textbooks, which emphasise the potentially  
6 serious combination of low urine output, vomiting and  
7 the administration of hypotonic fluids.

8 Mr Chairman, you will remember that if you look at  
9 this timeline here, you will see that there is only one  
10 record of Raychel having actually passed urine. Now,  
11 it's known that she went to the bathroom, but nobody is  
12 trying to see how much is she passing, when is she doing  
13 it, what is the significance of that. And then if one  
14 considers the vomiting, there's certainly vomiting and  
15 the administration of hypotonic fluids -- well, she's  
16 certainly getting that. Those textbooks go back to  
17 1969, 1964, so there's nothing new there as far as  
18 he was concerned.

19 Then Dr Haynes is of the opinion that fluid and  
20 electrolyte physiology is part of the undergraduate  
21 medical curriculum and that knowledge is certainly  
22 expected in the first part of surgical and anaesthetic  
23 postgraduate examinations. He believes it's clear that  
24 Mr Makar and Dr Gund knew what was correct, they knew  
25 about Hartmann's rather than Solution No. 18, but

58

1 Dr Curran, he's the JHO, he doesn't believe that he  
2 had any experience or awareness of the condition of  
3 hyponatraemia or other electrolyte imbalance in the  
4 post-operative patient. He was unaware of the risks of  
5 hyponatraemia at the time and he didn't give  
6 consideration to the type of fluid.

7 Then if one turns to Mr Gilliland, in his deposition  
8 to the coroner, he said he only became aware of  
9 hyponatraemia after Raychel's death. And when he was  
10 asked to explain that, he put that down to or  
11 distinguished hyponatraemia from dilutional  
12 hyponatraemia. In other words, I think, Mr Chairman,  
13 he was trying to say it wasn't that he didn't know about  
14 hyponatraemia, what he wasn't familiar with was  
15 dilutional hyponatraemia, and he said at the time of  
16 Raychel's death:

17 "I had never encountered a case and there were no  
18 regional policies on its prevention or treatment."

19 Mr Chairman, you will recall the draft statement  
20 that was produced in relation to Adam's case and it was  
21 gone through, not just in relation to his clinical case  
22 but also his governance. Just for the purposes of  
23 juxtaposing that with what Mr Gilliland says,  
24 if we quickly could pull up 011-014-107A.

25 This is the draft statement that -- and you know its

60

1 genesis -- was attached to Dr Taylor's deposition to  
2 the coroner. If one sees in that middle section,  
3 leaving aside the major paediatric surgery:

4 "Furthermore, the now known complications of  
5 hyponatraemia in some of these cases will continue to be  
6 assessed in each patient and all anaesthetic staff will  
7 be made aware of these particular phenomena and advised  
8 to act appropriately."

9 In the light of what Mr Gilliland is saying, it is  
10 quite clear that a message like that never got to him.  
11 And if one looks at the first part of it, the first part  
12 is to refer to a paper by Arieff. All of the clinicians  
13 were asked whether they were aware of that paper and the  
14 papers that came after it, and to a man and a woman,  
15 they said that they were not. But if that statement had  
16 travelled further afield than the very few people who  
17 saw it in the Royal, somebody might have asked: I wonder  
18 what that paper says, since this statement is being  
19 drafted in the light of it. And had they been moved to  
20 look at the paper -- if I can just pull up 011-011-075,  
21 for the benefit of those ... Can we just highlight that  
22 table at the bottom, please?

23 This is a paper written in 1992 after a study of  
24 some 16 patients. All these patients developed  
25 hyponatraemia. If you look at the clinical outcome, you

61

1 THE CHAIRMAN: He would have known about it if the message  
2 had travelled from the Royal after Adam's death?

3 MS ANYADIKE-DANES: Exactly.

4 THE CHAIRMAN: That brings us back to the issue in Adam's  
5 case: what the purpose of this note was. Was it to keep  
6 the coroner quiet and to keep the message inside the  
7 Royal?

8 MS ANYADIKE-DANES: Yes, Mr Chairman.

9 I was then going to turn to the nurses' knowledge.  
10 So that was the knowledge of the surgeons. If we go to  
11 the nurses, it's at this point that I'd like to look  
12 at the education schedule that I mentioned before.  
13 That's at 312-007-001. If we start with  
14 Staff Nurse Patterson. She was an experienced nurse,  
15 she was registered in 1988, and she joined Altnagelvin  
16 in 1999, grade D. She also had three years of training  
17 in the Children's Hospital. In fact, she was a grade D  
18 at the Children's Hospital for three years after that,  
19 so she was trained there and she did three years  
20 post-registration at the Children's Hospital. If one  
21 looks at what her knowledge was -- this is just  
22 a synopsis that has been pulled together by the legal  
23 team. I, of course, take responsibility for it. It may  
24 be that I have not accurately captured all that they  
25 have to say about it and I hope, if I haven't, I will be

63

1 can see if they didn't die, then they either lapsed into  
2 a vegetative state or they had some significant mental  
3 retardation. But look at the sort of patients that  
4 there are -- this is not major surgery. If you look  
5 at the top, you can see "tonsillitis, tonsillitis,  
6 tonsillitis" and if you look at the outcome, for all of  
7 those, with the exception of the first one, who lapsed  
8 into a vegetative quadriplegic state, they all died. So  
9 if that statement had gone out and any enquiring doctor  
10 had said, "I wonder what Arieff said in that British  
11 Medical Journal article in 1992", they only had to turn  
12 to the second page to see that this condition of  
13 hyponatraemia is something that can result from surgery  
14 of the type that they did in Altnagelvin.

15 THE CHAIRMAN: Sorry, I don't think they did all die, apart  
16 from the first one.

17 MS ANYADIKE-DANES: I said that if they didn't die, they  
18 ended up in a vegetative state or with severe mental  
19 retardation.

20 So if they didn't die, they were very, very  
21 seriously affected by it. And the point that I'm  
22 putting -- and it's something that we will take up in  
23 governance, I'm sure -- is that Mr Gilliland doesn't  
24 know about that, but he arguably could have known about  
25 it, had the message travelled.

62

1 corrected on it, but this was my reading of it.

2 So if one looks down at the bottom of it, she  
3 obviously has no knowledge of the Arieff paper and she  
4 says she wouldn't be expected to and I think that that  
5 would probably be something that the experts would agree  
6 on. But she was also not aware of the term "hypotonic"  
7 and therefore was:

8 "... not aware of any dangers that could occur as  
9 long as a child was receiving intravenous fluids. This  
10 would maintain their hydration."

11 So as long as you just keep on administering the  
12 fluids, that's fine.

13 If we look at Staff Nurse Noble, she's also a very  
14 experienced nurse. She was registered in April 1985,  
15 and she came also to Altnagelvin in 1999. She had  
16 worked as a paediatric nurse from 1989. She has had no  
17 specific training at all about hyponatraemia and her  
18 post-operative fluid management training seems to have  
19 been to ensure that children receive intravenous fluids  
20 until they're able to drink and pass urine.

21 What I'm trying to do, Mr Chairman, is to juxtapose  
22 the people who had the care, their knowledge, with those  
23 who perhaps ought to have had the care.

24 If one goes on to the next page, the nurse who is  
25 sort of slightly out of step and who does seem to know,

64

1 this is Marian McGrath. She also is extremely  
2 experienced: 1976 is her registration and she has been a  
3 theatre nurse since 1980. And she understood:  
4 "If a child who was already on hypotonic fluids was  
5 experiencing prolonged vomiting, that child would have  
6 required urgent medical intervention."  
7 She knew that. And an issue to be explored during  
8 the hearing is: why did some of the others not know or  
9 appreciate that? And if one looks at Michaela Rice, she  
10 qualified in 1999. She has three years' training at the  
11 Children's Hospital and she's also in the neurological  
12 ward of the Children's Hospital for eight months, which  
13 is a ward where maybe you think they might be familiar  
14 with some of these sorts of issues. She has a diploma  
15 in children's nursing from Queen's, and that included  
16 working with paediatric surgical cases and her post-op  
17 experience included recording fluid balance charts,  
18 inputs and outputs, recording oral fluids and IV fluids  
19 and recording output, urine and vomiting. One would  
20 like to think that the fluid balance chart might be, at  
21 least, at a reasonable standard.  
22 She also, if one goes over the page, actually  
23 remembers that during her training, hyponatraemia was  
24 mentioned. How that was brought to bear on what  
25 actually happened during her care of Raychel is a matter

65

1 year before, in March 2000. She describes the  
2 practice -- this is quite important -- this is what she  
3 thought was happening:  
4 "The practice was for the admitting surgical JHO or  
5 SHO to prescribe intravenous fluids for the surgical  
6 patients. It was more frequent that the SHO or the  
7 registrar will actually carry this out. For the  
8 immediate 12 hours post-operatively, the anaesthetic  
9 team were responsible for prescribing post-op fluids and  
10 checking electrolytes. Thereafter, it was the  
11 responsibility of the surgical team."  
12 So that is who she thinks are those responsible.  
13 And what she says about the choice of fluids is:  
14 "Hartmann's solution may have been given  
15 intraoperatively, but on return to the ward, the  
16 intravenous fluid was continued as Solution No. 18. The  
17 intravenous fluid was continued as prescribed prior to  
18 theatre or the surgical doctor was asked to re-prescribe  
19 the fluid. Solution No. 18 was perceived to be the safe  
20 intravenous fluid, whereas intravenous Hartmann's was  
21 not, due to it having no glucose."  
22 And she did not understand there to be dangers for  
23 a child with prolonged post-surgical vomiting who was on  
24 hypotonic intravenous fluids because the losses were  
25 being replaced and hydration was being maintained. So

67

1 to be explored.  
2 If you look at Avril Roulston, she's registered in  
3 1984. She has 3 years at the Children's Hospital, two  
4 on Musgrave Ward at the Children's Hospital. She's also  
5 gone on a "Children's nursing: creating the future"  
6 course in 1997, and on a "Developing care for children"  
7 course in 1998. Well, what did she say about fluid  
8 management?  
9 "If the child was on IV fluids, I was not aware that  
10 there could be an electrolyte imbalance and I was not  
11 aware of the dangers involved for a child experiencing  
12 prolonged post-surgical vomiting who was on hypotonic IV  
13 fluids, as long as the child was receiving IV fluids."  
14 I'm not going to go through all of them, but I would  
15 like to take you to Sister Millar on this schedule at  
16 005. An extremely experienced nurse. January 1971, she  
17 was registered. From 1976 in paediatrics. She was a  
18 ward sister. She had three years' training at the  
19 Children's Hospital. She's a registered sick children's  
20 nurse in 1971, she had five years at the Children's  
21 Hospital, two of which was as a ward sister from 1974 to  
22 1976, and then she was acting sister in Altnagelvin  
23 before she actually became a ward sister in 1986.  
24 She had been on courses on international paediatric  
25 nursing in 1998, paediatric update -- that was just the

66

1 that's the most senior nurse on the ward and that is the  
2 view that she would be communicating to her other also  
3 very senior nurses and to the junior doctors. So that's  
4 why, Mr Chairman, exactly what the practice was becomes  
5 so important. Because if it's as described there, one  
6 sees the implications of it.  
7 Then I was going to go on to deal with the salient  
8 factors that happen actually during the day and  
9 culminate in the response at 3.  
10 THE CHAIRMAN: Okay. I think we'll need to give the  
11 stenographer a break, but the question is how long for.  
12 Between you and Mr Quinn, how long might the openings  
13 take?  
14 MR QUINN: Mr Chairman, mine should be no more than about  
15 35, 40 minutes at most.  
16 THE CHAIRMAN: Ms Anyadike-Danes?  
17 MS ANYADIKE-DANES: I would like to think that I'd finish by  
18 1, maybe just after.  
19 THE CHAIRMAN: Let's take a 15-minute break and then not  
20 break for lunch.  
21 MR QUINN: That would suit.  
22 THE CHAIRMAN: Okay.  
23 (12.30 pm)  
24 (A short break)  
25 (12.45 pm)

68

1 (Delay in proceedings)  
2 (12.55 pm)  
3 MS ANYADIKE-DANES: Could we put the timeline back up?  
4 312-001-001. Thank you.  
5 Mr Chairman, we've now reached the stage where  
6 I would like to address you on some of the issues  
7 in relation to Raychel's condition going through 8 June,  
8 which is really the primary period for her in terms of  
9 observing what was happening in relation to what was  
10 being done to her.  
11 THE CHAIRMAN: This is all day Friday?  
12 MS ANYADIKE-DANES: Exactly. Sometimes it is easier to  
13 think of it as Thursday, Friday, and Saturday. It might  
14 be significant that things happen on Friday evening  
15 going into the Saturday for the purposes of the  
16 allocation of medical resources or personnel, more to  
17 the point.  
18 The nurses who saw Raychel in the early part of the  
19 Friday: Sister Millar, nurses Roulston and McAuley,  
20 they've all explained to the inquiry that they weren't  
21 unduly concerned about her because they didn't think  
22 that the vomiting was unusual following surgery and, in  
23 any case, as I have read out to you from those extracts  
24 from that schedule of their training and education,  
25 Raychel was receiving IV fluids. So as far as they were

69

1 12.10. Dr Butler is being asked by Nurse McAuley to  
2 prescribe a further bag of Solution No. 18. From that  
3 training schedule, you have seen that Dr Butler was the  
4 paediatric senior house officer. The Solution No. 18  
5 bag has run out and she's asked to replace it,  
6 essentially. She's not a member of the surgical team  
7 who has had any care of Raychel, but she was one of two  
8 paediatric SHOs who would be about. She makes no note  
9 in the clinical notes of her attendance, she signs the  
10 prescription sheet, that she prescribed it.  
11 She doesn't really remember very much about it, but  
12 to the extent she does she said no concern was expressed  
13 by the nursing staff regarding Raychel's condition and,  
14 had she been aware of any concerns, she would have  
15 examined her. She doesn't examine her and she writes up  
16 the prescription and the solution is recommenced.  
17 She doesn't take the opportunity to question that  
18 rate of fluid -- it's still running at the 80 ml  
19 an hour -- or the type. In fact, it's not clear that  
20 she questions anything at all, other than to simply  
21 write the prescription and hook up another bag.  
22 Dr Haynes says that Dr Butler should have performed  
23 a calculation before renewing the intravenous  
24 prescription. He's of the view that the majority of  
25 paediatric trainees would always check the weight of the

71

1 concerned, their stated evidence is that that didn't  
2 present a problem for them.  
3 There are some factual conflicts and we hope to  
4 address those in terms of the frequency and severity of  
5 her vomiting and also her general level of activity. In  
6 fact, that one about the general level of activity may  
7 turn out to be really quite significant.  
8 If we go to that period of 10 to 12, and you can see  
9 it there on the timeline, and what is recorded as  
10 happening then. At about 10 or 10.25, Raychel is  
11 recorded as having vomited, and that's described as  
12 a large vomit. So that's an important factor. Her  
13 mother has described that in her evidence. She has also  
14 described -- at about 12 o'clock, she says she took  
15 Raychel to the toilet and as she was about to leave the  
16 toilet:  
17 "Raychel began to vomit, which was large in volume  
18 and she was bright red and came out in a cold sweat."  
19 She returned to bed and Mrs Ferguson said that she  
20 informed the nurse that Raychel had been sick, but the  
21 nurse said that was normal. So that's obviously  
22 something that we have to take up, exactly what the  
23 nurse understood by Mrs Ferguson's description, and why  
24 she regarded it as being normal.  
25 Then if we go to the attendance by Dr Butler at

70

1 patient and ensure that the correct rate of fluid  
2 administration was in order and that she should have  
3 done so.  
4 Mr Chairman, one view of it is that that is her  
5 responsibility, she's the doctor and she has to satisfy  
6 herself that what she's doing in relation to Raychel is  
7 appropriate and correct.  
8 Dr Scott-Jupp is not critical of Dr Butler. He says  
9 it's a normal situation on any children's ward for  
10 a passing doctor to be asked by a nurse to write up  
11 a routine prescription, either for IV fluids or  
12 antibiotics and so on, and so there will be an issue  
13 whether renewing the fluids at that stage should be  
14 regarded as a routine prescription. And if it wasn't  
15 a routine prescription, whether that means that  
16 Dr Butler really ought to have taken matters a little  
17 further than she actually did.  
18 Then we have the period from 1 to 3. At 1 o'clock,  
19 Raychel is recorded as having "vomited plus plus".  
20 There is a criticism about the note keeping in the sense  
21 that those sorts of observations are subjective in any  
22 event, Mr Chairman, but there is an issue about their  
23 precision and what people are supposed to make of "plus  
24 plus" or that kind of grading, if I can put it that way.  
25 Anyway, Nurse McAuley says she gave no consideration

72

1 to seeking medical advice following the third recorded  
2 episode of vomiting because since -- and here we go  
3 again -- Raychel already had IV fluids in progress, she  
4 had no concerns about her vomiting. So that is their  
5 view: if the child is vomiting, but on IV fluids, that's  
6 not problematic.

7 She says that she wasn't aware of any episodes of  
8 vomiting other than those that are recorded on the fluid  
9 balance sheet. So to the extent that the parents say  
10 they made their views clear about the incidents of  
11 Raychel vomiting, that will be an issue to be explored  
12 during the hearing.

13 Mrs Ferguson is quite clear. She says:

14 "As the day progressed, Raychel became sick more and  
15 more often and, at one point, she was vomiting bile on  
16 the bed. A nurse said her stomach was empty and that  
17 she would not be sick any more."

18 Mr Ferguson has a similar recollection. He says:

19 "[I] was taking several kidney trays filled with  
20 vomit out to the nurses. The vomit seemed watery."

21 If that's their recollection and they say they were  
22 communicating that to the nurses, then there's an issue  
23 as to how that was being dealt with.

24 If we go from 3 o'clock to 6 o'clock, Raychel is  
25 again recorded as "vomiting plus plus", and after the

73

1 appeared listless. At least there's a record of her  
2 seeming to do that. But she has since clarified her  
3 position. Where she says that is to be found at -- we  
4 don't have to pull it up, but the record of it is at  
5 098-018-044. It's her evidence at the inquest. She  
6 says:

7 "It was further put to her [that's Sister Millar]  
8 that Mrs Ferguson had thought the child was unwell  
9 during the period. The sister had no concerns, the  
10 sister said that she would be prepared to agree with the  
11 description of Raychel as being 'listless'."

12 That's important at that stage because it seems that  
13 she's accepting Mrs Ferguson's description, but then she  
14 has explained further her position on it, and she said:

15 "I will be prepared to agree with Mrs Ferguson's  
16 description of Raychel as listless because I believe  
17 that parents often know their children best and it would  
18 have been wrong of me to disagree with Mrs Ferguson.  
19 However, I am firmly of the belief that Raychel did not  
20 display signs of listlessness during my time on duty."

21 And that is her witness statement for the inquiry.  
22 So exactly how that explanation comes about is something  
23 that we will explore further with Sister Millar.

24 Sister Millar goes on to say that she regarded  
25 Raychel as being in good form and she gave no cause for

75

1 fourth recorded episode of vomiting, Nurse McAuley is  
2 still unconcerned. She wants a doctor, but it seems not  
3 to raise any concerns with the doctor about Raychel's  
4 condition, but to prescribe and administer an  
5 anti-emetic, which would simply stop her being sick  
6 because she doesn't accord any degree of concern to the  
7 incidents of her vomiting.

8 So Mrs Ferguson goes home, she has other children  
9 that she needs to attend to, Raychel's godmother is  
10 there and she describes Raychel's condition. She says  
11 she's quiet, which is unusual for her, she's not  
12 speaking, even when she's prompted, and when  
13 Mrs Ferguson returns at 3.45 -- Mr Ferguson is at home  
14 to mind the other children. She says that on her  
15 return, Raychel is listless and was not her lively self.  
16 The inquiry's experts have attached some significance to  
17 her demeanour through the day, and Mrs Ferguson says she  
18 wasn't talkative, she wasn't interested in what was  
19 being said, and she considered her to be much worse than  
20 when she had seen her 10 o'clock. And she recalls her  
21 vomiting again at around 5 o'clock and she says she had  
22 started to panic at that stage because Raychel was, as  
23 far as she was concerned, "really just moving around  
24 like a zombie".

25 Sister Millar, at one point, had agreed that Raychel

74

1 concern and, although she was vomiting, it wasn't large  
2 amounts. She regarded Raychel as remaining bright and  
3 alert during the vomits and that she was giving no other  
4 cause for concern. She appreciated the need to  
5 administer an anti-emetic, but Raychel's vital signs  
6 were stable and she was on IV fluids, so she wasn't  
7 concerned.

8 Nurse Roulston has a similar view. She says Raychel  
9 was on IV fluids and it wasn't unusual for  
10 post-operative children to vomit:

11 "As her observations were satisfactory, I wasn't  
12 concerned."

13 There are others there during the period when --  
14 that's one of those periods I was referring to,  
15 Mr Chairman, when neither Mr or Mrs Ferguson are there.  
16 One set of people who are there are Mr and Mrs Duffy,  
17 and they gave their accounts in PSNI statements. Just  
18 for reference purposes, the one for Mrs Duffy --  
19 incidentally, I should say Mr and Mrs Duffy don't appear  
20 to have any prior knowledge of the Fergusons; it is just  
21 that they had a daughter in the same ward. The one for  
22 Mrs Duffy, for reference, is 095-007-022. She gives  
23 quite a bit of detail. She says:

24 "Raychel did seem alert earlier on the Friday  
25 morning, but she seemed to get very sick and deteriorate

76

1 during the rest of the day. From midday onwards,  
2 Raychel started to be very sick. She started to vomit.  
3 During the course of the day [she says she went home at  
4 9 pm] she had vomited so many times and I could not say  
5 exactly how many. It was at least five vomits that  
6 I witnessed. Either her mother or the nurses removed  
7 the trays with the vomits in it."

8 She goes on:

9 "Raychel was becoming so sick that at one stage her  
10 father had to carry her to the toilet. Raychel was  
11 crying and moaning with pain. I remember the nurse  
12 trying to assist her with her headache. I don't  
13 remember the name of the nurses. This was in the  
14 evening before I left for home. Raychel was crying with  
15 the pain and it was quite distressing and on reflection  
16 it is even more distressing."

17 So that's the evidence of Mrs Duffy, which perhaps,  
18 Mr Chairman, you can see how that compares with the  
19 observations of Sister Millar.

20 Then the nursing care plan and notes are there to  
21 assist, but there was no change to Raychel's nursing  
22 care plan to reflect the fact that she was still  
23 vomiting more than 12 hours after the completion of her  
24 surgery.

25 I'm not going to go through the details of the care

77

1 Possibly, he was dealing with other matters. According  
2 to Sister Millar, Nurse McAuley attempted to contact the  
3 surgical SHO, but did not receive a response.  
4 Nurse McAuley states that she bleeped the surgical JHO  
5 and, in her statement to the inquiry, Sister Millar  
6 mentioned difficulties in contacting surgical doctors.  
7 This is her statement:

8 "... as they were in theatre and did not answer  
9 their bleeps."

10 That is something that we will take up.

11 Mr Foster has said that if that is correct, that is  
12 a very unsatisfactory situation and quite unacceptable  
13 practice for an SHO or a JHO on call in a busy hospital  
14 to have made no arrangements for someone to answer their  
15 bleep.

16 Mrs Ramsay is also concerned in the delay in  
17 obtaining --

18 THE CHAIRMAN: Sorry, just before you go on: a doctor who's  
19 in theatre is unlikely to be able to answer a bleep,  
20 isn't that right? Mr Foster's criticism isn't of  
21 a doctor who's in theatre failing to answer a bleep, or  
22 is it?

23 MS ANYADIKE-DANES: I think his criticism is of failing to  
24 make an arrangement.

25 THE CHAIRMAN: That somebody else would be bleeped?

79

1 plan and the observations and criticisms made of it.  
2 It's set out in the written opening and it's a matter  
3 that we will be taking up with the nurses during the  
4 oral hearing. But Mr Foster, and for that matter  
5 Ms Ramsay, are critical of the lack of mention anywhere  
6 in the nursing notes of the fact that the junior medical  
7 staff were summoned on three occasions during  
8 8 June 2001. He's of the view that clinical or nursing  
9 notes ought to have been made to record the fact of  
10 these visits and the outcome from them. He adds that:

11 "More detailed records throughout the 8th would have  
12 assisted the nursing staff to detect an ongoing  
13 deterioration throughout the afternoon and evening of  
14 the 8th."

15 And it may be, Mr Chairman, that really what he's  
16 referring to is that if you have got a more accurate  
17 account or a more detailed account, one has an ability  
18 to try and detect a pattern or trend if there is one,  
19 but with such sporadic recording it might be difficult  
20 to see that, particularly if it is not always the same  
21 nurse that is seeing the child.

22 If one moves on to the attendance of Dr Devlin at  
23 6 o'clock in the evening. He was first bleeped at 4.30  
24 to attend the ward. It's not entirely clear why it  
25 seems to have taken him that time to get there.

78

1 MS ANYADIKE-DANES: Yes. If someone needs an SHO or JHO  
2 who's in theatre, and presumably they know they're going  
3 into theatre, there should be some arrangement for how  
4 somebody else can address an urgent call. Obviously, it  
5 can't be them if they are in theatre, but somebody ought  
6 to be available for that. I think Mr Foster says it is  
7 their duty to make sure that there is someone available  
8 to cover.

9 And the way Ms Ramsay says is that if the nurse has  
10 formed the view that they really need some medical  
11 intervention, then for it to take so long, she is  
12 concerned about that.

13 She's also concerned that Raychel had been  
14 experiencing vomiting and associated discomfort by that  
15 time for ten hours from the time of her first episode of  
16 vomiting at 8 o'clock until Dr Devlin attends, and  
17 during that time Raychel's nausea and vomiting was not  
18 controlled in any way -- because that is the first  
19 request for an anti-emetic -- and any sodium loss was  
20 not being replaced because she was on low-sodium fluids.

21 Mrs Ramsay says, though, that if a doctor doesn't  
22 answer the bleep, then it's incumbent upon the nurse to  
23 make a judgment as to who to contact instead. So  
24 whether or not the doctor has made some arrangement, if  
25 you need medical intervention, then you have to get that

80

1 medical intervention.  
2 Then it's somewhere between 5.30 and 6 o'clock  
3 that -- it's unclear exactly when he does attend to  
4 administer the anti-emetic. Sorry, we actually do have  
5 an answer to your more specific question. Later on in  
6 his report, Mr Foster says that when a bleep goes off in  
7 theatre, a member of the theatre team usually first  
8 finds out why the bleep has gone off and reports back.  
9 So it seems even if it goes off in theatre, there's  
10 a way to address it, albeit it's not going to be the  
11 person who's literally conducting the surgery.

12 THE CHAIRMAN: Okay.

13 MS ANYADIKE-DANES: Dr Devlin had come on the ward to see  
14 another patient, but anyway he then sees Raychel. He  
15 makes no note of his attendance, but he signs on the  
16 drug sheet. Sister Millar says that she can't explain  
17 why there are no notes or records that was made  
18 in relation to the attempts to contact a JHO or the  
19 attendance of Dr Devlin and the steps taken by him. So  
20 she seems to accept that it would have been good  
21 practice or appropriate to have recorded the fact that  
22 they were trying to get hold of a doctor, also  
23 appropriate to have recorded when the doctor turned up  
24 and what the doctor did and what happened as a result of  
25 that.

81

1 benchmark that. So that seems to be pretty clear that  
2 that incident of vomiting happened. Why it's not  
3 recorded is difficult to know, though.

4 He was aware that she was on Solution No. 18, but he  
5 didn't check Raychel's rate of administration because he  
6 didn't -- as far as he was concerned, JHOs weren't  
7 responsible for writing up fluids for children. So that  
8 interaction with a doctor passes without any review of  
9 her fluids.

10 Mr Foster says that:

11 "In his view, Dr Devlin had acted appropriately in  
12 the circumstances by administering the anti-emetic as  
13 requested, but it's much to be regretted that nursing  
14 staff didn't insist that he contact a senior colleague  
15 as [he] has no doubt that if he had consulted his senior  
16 colleague or a paediatric colleague, blood tests would  
17 have been ordered and any electrolyte abnormalities  
18 revealed."

19 So whilst Dr Devlin might have been right to say  
20 that JHOs don't write up fluids for children, the issue  
21 is whether the interaction between the nurse and he  
22 should have led to the intervention of somebody more  
23 senior who could then get a grip on matters and get  
24 tests done to see what exactly was happening with  
25 Raychel.

83

1 And both nurses McAuley and Roulston state that the  
2 care plan should have been updated to record the  
3 administration of the anti-emetic and they don't know  
4 why it wasn't; they just know it wasn't. You will  
5 recall, though, Mr Chairman, from the schedule of their  
6 training that they all were -- almost all of them,  
7 I think, are recorded as having said they appreciated  
8 the significance of maintaining good records.

9 So then, Mr Chairman, what's recorded about that  
10 administration is:

11 "Vomiting this pm. Plus IV Zofran given with fair  
12 effect."

13 When one sees the incidents of vomiting that  
14 continued after that, it's not entirely clear when the  
15 fair effect is being evaluated or by whom or how. But  
16 that's what's recorded in the notes.

17 When Dr Devlin actually saw Raychel, she was  
18 literally vomiting when he saw her, and that's not  
19 recorded. So that cannot really be attributed to saying  
20 that the parents were there all day and maybe they're  
21 not entirely precise about when these things were  
22 happening. There is a very clear benchmark for that: it  
23 Dr Devlin, a doctor doing it. He recognised it, it  
24 happens when he's going to administer the anti-emetic.  
25 That is signed off for on the prescription, so we can

82

1 Then, Mr Chairman, we have what's called the coffee  
2 ground vomiting at 2100 hours. Mr Ferguson recalls  
3 that, he said that Raychel sat up in bed and complained  
4 that her head was sore, and that is going to be an issue  
5 of some significance so far as the experts are  
6 concerned. He recalls:

7 "Her face was bright red. She was holding on to her  
8 head with both hands and saying, 'Daddy, daddy, my  
9 head's wild sore', and then she vomited blood on the  
10 bed."

11 The nurses changed the bed and Mr Ferguson noted  
12 that as they did so, Raychel could hardly stand. So  
13 there are two nurses there when that is happening. He  
14 states that Raychel got back into bed, but within  
15 minutes she vomited blood all over the bed again and,  
16 this time, Mr Ferguson indicated to the nurses that  
17 Raychel could hardly stand. He lifted Raychel out of  
18 the bed and put her on his knee and the bed was changed  
19 again. So quite how that doesn't feature as  
20 an important incident is something that the nurses will,  
21 in due course, be asked to explain. Mr Ferguson goes on  
22 to say that he doesn't actually recall Raychel talking  
23 from about 1.30 until she did complain of that sore head  
24 at 9 o'clock.

25 According to Mr Foster, coffee ground vomiting is an

84

1 indication of significant or severe and prolonged  
2 vomiting and retching, and he describes how it happens  
3 as a result of bleeding caused by trauma to the gastric  
4 mucosa. Dr Scott-Jupp disagrees. He says that you can  
5 get coffee ground vomiting, it's not necessarily  
6 diagnostic of severe or prolonged vomiting. But what he  
7 does say, what is important is the frequency and  
8 severity of vomiting. That's what's critical, not  
9 whether you also get coffee grounds with it. And that  
10 frequency is something that I have been taking you  
11 through, Mr Chairman.

12 He considers that Raychel's symptoms at and from  
13 9 o'clock were indicative of a need to do more than  
14 simply administer a second anti-emetic, which is what  
15 happened. He notes that the lack of response to the  
16 administration of two rounds of anti-emetics,  
17 particularly the second, should have prompted more  
18 concern and discussion by the more junior medical staff  
19 with more senior colleagues.

20 Dr Sumner, who is the expert for the coroner,  
21 expresses himself in a like vein. He says:

22 "There is no doubt that the presence of coffee  
23 grounds at 9 o'clock and the petechiae [that's the rash  
24 seen on her neck] suggested that Raychel had suffered  
25 severe and prolonged vomiting."

85

1 he's contacted by Nurse Gilchrist. At that time, he's  
2 covering an on-call overnight surgical JHO shift. He  
3 describes that as being a very busy shift.  
4 Nurse Gilchrist says that she explained to Dr Curran  
5 about Raychel's nausea and vomiting. He comes at about  
6 10 o'clock and he gives cyclizine. That's the second  
7 anti-emetic. He doesn't make a note either in the  
8 clinical file regarding his attendance, he simply signs  
9 off on the drug sheet. And there's no contemporaneous  
10 nursing note made of that attendance.

11 It's not actually clear who attended Dr Curran and  
12 what the exchange was that passed between them or ...

13 THE CHAIRMAN: In other words, how much he knew?

14 MS ANYADIKE-DANES: Precisely, that's exactly it. It's not  
15 clear how much Dr Curran appreciated that she had been  
16 receiving intravenous fluids for almost, at that stage,  
17 24 hours and that she had been vomiting since 8 o'clock  
18 in the morning and vomiting at a pretty regular rate,  
19 and that she had been vomiting blood. It's not clear  
20 that he appreciated all of that at all. But there will  
21 be an issue as to how much he should have tried to find  
22 out. He would have known it was a second anti-emetic,  
23 but there will be an issue as to how much he himself  
24 should have tried to find out about Raychel's condition  
25 at that stage and there obviously is an issue from the

87

1 So if that is what's happening, then all the experts  
2 are in agreement that a senior clinician should have  
3 been seeing her at that stage.

4 Nurse Gilchrist has noted that her colour was  
5 flushed and pale, that she had been vomiting and  
6 complaining of a headache. In fact, the conclusion from  
7 all that is simply to get somebody to give her another  
8 anti-emetic.

9 Then at 21.30, 9.30 in the evening, Nurse Noble  
10 administers the paracetamol. That's to deal with  
11 Mr Ferguson's complaint that Raychel is experiencing  
12 headaches. So that is done and she records that, and  
13 then she records that Raychel settled to sleep. That's  
14 her entry in the episodic care plan.

15 Mr Foster notes that the entry made by Nurse Noble,  
16 in his view, bore no relationship to the reality of the  
17 situation at that time. But there may have been -- he  
18 may have misunderstood the time of that because it looks  
19 like that's happening at 6 am, so there may have been  
20 an issue, and if that's the case, then there may be  
21 an issue with how the episodic care plan can be readily  
22 interpreted by those coming afterwards to try and see  
23 what's happening and what they ought to do about it.

24 If we then move on to the attendance by Dr Curran at  
25 10 o'clock. He's a surgical junior house officer and

86

1 nurses if you've got your medical intervention in to  
2 give an anti-emetic, how much should you be telling that  
3 doctor at that stage. They know why they're asking him  
4 to come, because they're concerned that she's carrying  
5 on vomiting, or rather, they simply want her to stop  
6 vomiting. What that exchange should be and what it  
7 actually was is something that we'll explore further.

8 In any event, whatever it was, he did not pick up  
9 any indication of grave concerns regarding Raychel. And  
10 it may be, Mr Chairman, that's because the nurses didn't  
11 have any grave concerns surrounding Raychel because she  
12 was on IV fluids and that means one doesn't need to have  
13 that kind of concern.

14 THE CHAIRMAN: But they had concerns enough to call him?

15 MS ANYADIKE-DANES: They were concerned enough to call him,  
16 exactly. That's why we need to tease out exactly what  
17 they were thinking and what their rationale was. From  
18 Mr Foster's point of view, he's clearly of the view that  
19 Dr Curran didn't recognise the seriousness and the  
20 significance of the vomiting. But he says that even  
21 a JHO should, without doubt, have understood the  
22 seriousness of continued vomiting and blood. If he had  
23 been told that, he should have appreciated that.  
24 Whether he should have found that out for himself is  
25 another issue. He says that the nurses should have

88

1 insisted on him calling his senior colleague.  
2 He had that view about the earlier intervention, he  
3 certainly has the view about this one, and to have not  
4 done so, he regarded as evidence of substandard practice  
5 and it was much to be regretted because he says, at that  
6 stage, Raychel's situation was retrievable.

7 Dr Haynes also joins in with his concerns. He notes  
8 Raychel's symptoms: the headache, the emesis, nausea,  
9 lethargy, all of that, and receiving hypotonic fluids.  
10 He says Raychel ought to have had a blood taken for  
11 electronic assay. And he notes that the first tier of  
12 response to Raychel's condition was the on-call JHO, who  
13 would have had no formal paediatric experience at  
14 postgraduate level and who remarks upon the fact that  
15 inexperienced doctors such as Dr Devlin and Dr Curran  
16 were placed in a difficult situation where nurses  
17 expected them to prescribe an anti-emetic rather than  
18 give thought to the possible reasons why Raychel was  
19 still vomiting. He believes more experienced medical  
20 input was required during the afternoon and the evening  
21 of 8 June.

22 Dr Scott-Jupp considers that the lack of response to  
23 the first anti-emetic after four hours and the lack of  
24 response to the second one, in the sense that Raychel  
25 had further episodes of vomiting, should have prompted

1 a safety net in a ward where junior house officers were  
2 first on call. It's his view that this safety net was  
3 seriously defective and that this was due to a universal  
4 complacency that all was well until Raychel actually had  
5 her seizure.

6 He says that given the parents' concerns, that  
7 should have alerted nursing staff. So whether or not  
8 they witnessed all those incidents of vomiting, the  
9 family say they were telling the nursing staff that, and  
10 that should have prompted the nursing staff to seek  
11 senior surgical assistance or, at the very least,  
12 discussed her condition with the paediatric staff on the  
13 ward, and that he notes that the paediatric staff were  
14 available on the ward almost all the time.

15 Mrs Ramsay says that nurses can't always be expected  
16 or shouldn't be expected to identify hyponatraemia and  
17 that that was the problem for Raychel, but they ought to  
18 have known that vomiting can cause other medical  
19 difficulties. They should have known that persistent  
20 vomiting can cause dehydration and electrolyte imbalance  
21 and they should have known that fluid lost through  
22 vomiting needs to be replaced. So we're not talking  
23 about maintenance fluids, we're talking about  
24 replacement fluid. She says:

25 "I believe this is basic nursing knowledge of which

1 more concern by junior medical staff and discussion with  
2 senior colleagues. And he says that at that stage,  
3 Raychel's condition necessitated a thorough examination  
4 for signs of reduced consciousness, infection, and for  
5 evidence of surgical complications. More to the point,  
6 he says that blood tests really were mandated, and you  
7 can imagine, Mr Chairman, that a blood test that would  
8 have measured her serum sodium level at that stage might  
9 have assisted them in recognising that this is perhaps  
10 not just post-surgical vomiting, this is something that  
11 had turned more serious and we were perhaps dealing with  
12 hyponatraemia, which can be dealt with.

13 So that all comes down to a point to do with the  
14 quality of the communications between the nursing and  
15 medical staff. Mr Foster has commented on that from the  
16 medical side. He says that the records and events of  
17 that day show all too clearly how a team can be locked  
18 into a mindset of what they expect to happen.

19 By the afternoon, Raychel should have been mobile,  
20 drinking, beginning to eat, talking about going home.  
21 Indeed he says the vast majority of children after  
22 a mild appendicitis would actually have been fit for  
23 discharge on the morning of the Friday and he cannot  
24 understand why nursing staff did not recognise it. And  
25 he explains that nursing staff ought to have acted as

1 all nurses who care for children should be aware."

2 In fact, she offers her own perspective as to what  
3 a nurse faced with persistently vomiting child -- she  
4 said:

5 "Their role was to monitor the patient's progress,  
6 to advise medical staff of any changes or variations  
7 from the expected pathway. In practice, many  
8 experienced nurses help junior doctors in making  
9 decisions regarding treatments. However, the  
10 responsibility for medical management rests with the  
11 doctor caring for the child, who should be under the  
12 direction and supervision of a consultant. If nurses  
13 are to be viewed then, at least in part, as the eyes and  
14 ears of the doctor caring for the child, then they have  
15 to be sensitive to any evidence of departure from the  
16 usual post-operative recovery pathways."

17 And she says that it might have been initially  
18 reasonable for the nurses to expect a normal recovery,  
19 but the second vomit at or about 10 am ought to have  
20 caused the responsible nurse to make contact with the  
21 senior surgical officer. And then, of course, it all  
22 carries on, it doesn't end with just 10 am. She says  
23 that there was a need for medical intervention after the  
24 second vomit. So as early as that, she says there  
25 should have been medical intervention, and that view is

1 shared by just about all the other experts.  
2 In fact, interestingly, the Trust had an expert view  
3 from a Dr Warde, and he prepared a report for  
4 Altnagelvin Hospital Trust. I should say he prepared  
5 this report before the inquest. He says:  
6 "Vomiting as severe and sustained as that  
7 experienced by Raychel is rare and identifies rising  
8 intracranial pressure as a possible contributory  
9 factor."  
10 He described Raychel's vomiting as "severe and  
11 protracted" and advises that, in his opinion:  
12 "Appropriate fluid and electrolyte management in the  
13 post-operative period in a patient with abnormal losses  
14 cannot be achieved without electrolyte measurement and  
15 an accurate estimation of fluid balance."  
16 That was the expert view that the Trust received and  
17 it's not entirely clear why that report was not  
18 disclosed to the coroner, but it wasn't, and neither was  
19 he asked to give evidence. Instead, a report that was  
20 prepared by Dr John Jenkins was submitted to  
21 the coroner, and he was given permission to give  
22 evidence. That report omits the references to vomiting  
23 and its possible significance, as well as the  
24 acknowledgment that Dr Sumner's opinion that Raychel  
25 must have suffered severe and prolonged vomiting may in

93

1 to accelerate urine output of water and reverse what he  
2 considered to have been the effects of ADH. So that is  
3 what he regards as the missed opportunity.  
4 Then if I go to that bit about electrolyte testing.  
5 A blood sample wasn't taken from Raychel during 8 June  
6 for the purposes of electrolyte testing, despite the  
7 fact that IV fluids were administered on a continuous  
8 basis during the day following her return to the ward.  
9 Dr Haynes regards that as a significant omission. He  
10 says that should have happened and that the failure to  
11 acknowledge the severity of the vomiting and to monitor  
12 Raychel's electrolytes is a more significant criticism  
13 than the inappropriate use of the Solution No. 18  
14 itself. Solution No. 18, he says that was in common use  
15 in 2001, albeit that there were criticisms of it, but:  
16 "Nonetheless, that could have been addressed if they  
17 had been attending to the presentation of Raychel and  
18 treating that through measuring her electrolytes and  
19 appropriately addressing her fluid management regime."  
20 He refers to the part of Arieff's paper, just by way  
21 of convenience, to highlight the significant elements.  
22 He talks about headache, nausea, emesis and lethargy.  
23 They're all consistent symptoms of hyponatraemia in  
24 children, and:  
25 "... if the condition is untreated, there can follow

95

1 retrospect have been accurate. That is missing from  
2 Dr Jenkins' report. So that is an issue possibly that  
3 we will take up, if not in these hearings, then  
4 certainly in the governance hearing, as to why  
5 Dr Warde's report wasn't furnished to the coroner.  
6 THE CHAIRMAN: The Trust didn't have to furnish it.  
7 MS ANYADIKE-DANES: No, but if they're trying to assist, as  
8 is at least the doctor's duty, the coroner in his  
9 findings, then if you have an expert who expresses  
10 himself in those terms, well, we'll ask them as to why  
11 they didn't find it appropriate to assist the coroner  
12 in that way.  
13 THE CHAIRMAN: They wouldn't be the first body to have  
14 a report which was unhelpful and not give it to  
15 the coroner.  
16 MS ANYADIKE-DANES: No, Mr Chairman. We will simply ask why  
17 they didn't do it.  
18 Mr Foster has no doubt that if, as all the experts  
19 seem to think, a more senior clinician had been  
20 involved, that would have resulted in blood tests,  
21 a measurement of her urine output and assistance from  
22 paediatrics and anaesthesia and a correction, more  
23 significantly, of the hyponatraemia with saline  
24 fluids -- that's what he thinks would have happened --  
25 and the correction of the fluid overload with diuretics

94

1 an explosive onset of respiratory arrest, coma,  
2 transtentorial cerebral herniation and, when  
3 a paediatric patient receiving hypotonic fluids begins  
4 to have headache, emesis, nausea or lethargy, the serum  
5 sodium concentration must be measured."  
6 And he says that Raychel was experiencing all these  
7 symptoms during the afternoon and the evening of 8 June  
8 and that if, at any point from the late afternoon  
9 onwards, the correct course of action was to take the  
10 blood sample for electrolyte testing and if a suitably  
11 experienced doctor had seen those results, in his view  
12 Raychel would have survived. Instead, surgical JHOs who  
13 did not fully understand and appreciate the need or care  
14 for fluid and electrolyte management, they were the ones  
15 who saw her.  
16 All that they say in relation to the electrolyte  
17 tests is confirmed by Dr Sumner, the coroner's expert  
18 at the time of the inquest. So it's not just our  
19 experts looking at it from the point of view of  
20 2012/2013 eyes, Dr Sumner said at the time:  
21 "It would have been very prudent to check the  
22 electrolytes in the evening of that day [that's 8 June]  
23 as the vomiting had not settled down by that stage.  
24 There is no evidence of any attempt to measure the  
25 gastrointestinal losses or the urine output, both

96

1 essential for correct fluid therapy."  
2 So that is a matter to be explored. Then if I come  
3 now to what is the final stages of Raychel's admission  
4 to Altnagelvin, which starts with the seizure at 3 am on  
5 the Saturday morning. It's the auxiliary nurse, in  
6 fact, who reports that to Nurse Noble. She says that  
7 Raychel is fitting and Nurse Noble attends and she finds  
8 indeed that.

9 She asks Dr Johnson, who's a paediatric SHO, he  
10 happens to be nearby and she gets him to attend to  
11 Raychel urgently. He almost in contradistinction to  
12 anyone else, makes a very detailed note of his  
13 attendance with Raychel and the steps that he took.

14 He notes that she is incontinent of urine,  
15 unresponsive and he administers, initially, 5 milligrams  
16 of rectal diazepam. The seizure activity continues, so  
17 he follows that up with 10 milligrams of IV diazepam and  
18 he administers oxygen through a face mask.

19 Why is she unresponsive at that stage? Well,  
20 obviously that's something that will be looked at very  
21 closely. From Mr Foster's point of view, he thinks that  
22 that was probably due to brain damage caused by the  
23 continued increasing intracranial pressure. But the  
24 view that Dr Johnson reaches is that it's to do with the  
25 administration of diazepam and Dr Foster accepts that

97

1 out that:

2 "Dr Johnson's realisation that this could be an  
3 electrolyte abnormality displays that knowledge of  
4 hyponatraemia and its effects were within the core  
5 knowledge expected of junior clinicians."

6 Whereas he might not have named it as hyponatraemia,  
7 he was at least recognising the potential electrolyte  
8 problem.

9 Dr Haynes notes that since Dr Curran was unable to  
10 secure the attendance of senior surgical staff and since  
11 Dr Johnson's more experienced colleague, Dr Trainor, was  
12 otherwise deployed in another area of the hospital,  
13 it would have been perfectly reasonable for either  
14 Dr Johnston, or the nursing staff on his behalf, to hav  
15 contacted Dr McCord, that's the consultant, at an early  
16 earlier juncture, to have asked him to attend.

17 Dr Haynes is of the view that:

18 "Senior input was necessary because, not  
19 unreasonably, Dr Johnson was unsure of how best to  
20 manage the problem. He had dealt with matters  
21 initially, but clearly he recognised that Raychel was in  
22 need of senior clinical assistance."

23 That's something we're going to explore,  
24 Mr Chairman.

25 So then if we go to the involvement of Dr Trainor.

99

1 for him, that might have been a reasonable theory at  
2 that time. But in any event, what then happens is that,  
3 at 3.10, Nurse Noble finds Raychel's pupils to be equal  
4 but reacting, albeit briskly to light. She measures her  
5 oxygen saturations and Dr Johnson calls Dr Curran and  
6 asks him to contact his surgical registrar. He directs  
7 Dr Curran to obtain an ECG and blood samples urgently  
8 for investigation and to send the samples to the  
9 laboratory because he suspects there's an electrolyte  
10 abnormality. He thinks that's what might be the likely  
11 cause of the fit.

12 He's not thinking particularly about hyponatraemia,  
13 but he's thinking, the experts would say, along the  
14 right lines as to what might be the underlying problem.  
15 Dr Curran does do that, he takes the blood sample and he  
16 contacts Mr Zafar. It's not entirely clear when and how  
17 all that happens, but for whatever reason Mr Zafar  
18 doesn't actually arrive until 4.45. That's about  
19 an hour after attempts have been made to contact him  
20 during that period. And during that time, Dr Curran,  
21 the JHO, is the only member of the surgical team present  
22 at that time of crisis.

23 It should be said that Mr Foster praises Dr Johnson  
24 for acting commendably and quickly and showing those  
25 qualities expected of a good clinician. He also points

98

1 At about 4 o'clock in the morning, Dr Johnson sees that  
2 Raychel is stable after that initial sign of fitting, so  
3 he goes off to look for Dr Trainor. She is a second  
4 term -- that's how she describes herself -- paediatric  
5 SHO, and he asks Dr Trainor to come and review Raychel.  
6 In fact, as he's doing that, apparently, he's beeped  
7 that Raychel is now looking even more unwell, so the  
8 arrangement is that he stays with Dr Trainor's patient  
9 and Dr Trainor comes directly herself and that's exactly  
10 what she does.

11 Meanwhile, Mr Ferguson arrives back at the hospital  
12 -- he has been contacted -- and he states -- this is his  
13 description of it, it must have been horrific for him --  
14 that it was "complete chaos". He recalls Raychel  
15 shaking and trembling and, to some extent, that's  
16 confirmed by Nurse Noble who says that Raychel remained  
17 the subject of intermittent tonic episodes.

18 Raychel's pupils were found to be sluggish, but they  
19 were still reacting to light. Mr Ferguson telephones  
20 his wife immediately and she makes her way to hospital  
21 and she recalls her husband crying and saying that  
22 Raychel's heart had stopped and that the staff were  
23 working with her.

24 Let's go to the electrolyte results because they do  
25 get these now. Dr Curran was checking Raychel's blood

100

1 results on the computer when Dr Trainor arrived and  
2 Dr Trainor saw that Raychel's sodium was low and  
3 Nurse Gilchrist gives the time of that at about 4.20 in  
4 the morning. The first set of lab results show a serum  
5 sodium concentration of 119. Mr Chairman, you'll know  
6 from the results that we've seen before in Adam and  
7 Claire, that 119 is a very low level value indeed. And  
8 the sample time is noted at 3.30.

9 Dr Trainor wants to confirm that the sample hasn't  
10 been take from the same arm where the drip is -- and  
11 you'll have heard something of that in relation to  
12 Claire I believe -- and that's confirmed, it isn't.  
13 Then she directs Dr Curran to repeat the electrolytes  
14 urgently, do blood cultures and a venous gas. During  
15 that time, Raychel's fluids are not changed. The second  
16 repeat set of blood results show a serum sodium  
17 concentration of 118. That sample is noted at 4.35.

18 Following the receipt of that second result,  
19 Raychel's fluids are restricted to half the original  
20 infusion rate and they're changed to Solution No. 19.  
21 So she has her seizure at 3 am and it's when you get to  
22 4.35 that that happens.

23 We will, of course, explore with Dr Trainor what she  
24 did and why she did what she did at that time and what  
25 her alternatives were. So that is set out in the

101

1 situation, could have been made of the little time that  
2 was available to them.

3 THE CHAIRMAN: But this is against the background that it's  
4 only Dr Haynes who has recently raised issues about  
5 Dr Johnson, Dr Trainor or Dr McCord, isn't that right?

6 MS ANYADIKE-DANES: Not entirely. Dr Warde, who, I should  
7 have said, is the consultant paediatrician that the  
8 Trust has. He expresses a similar view, perhaps  
9 slightly more nuanced.

10 THE CHAIRMAN: Sorry, I think his view is some distance away  
11 from Dr Haynes.

12 MS ANYADIKE-DANES: Yes. What he says is:

13 "One could question why, upon receipt of the initial  
14 electrolyte results revealing sodium 119, Dr Trainor did  
15 not immediately alter the IV fluid therapy to 0.9  
16 per cent sodium chloride, but instead asked for a repeat  
17 estimation. Whether or not this would have made  
18 a difference to the ultimate outcome, we do not know,  
19 but it may have been beneficial."

20 THE CHAIRMAN: So we have a contrast between Mr Foster, who  
21 isn't critical, in fact gives praise, Dr Warde who has  
22 a degree of a reservation, and Dr Haynes, who has now  
23 raised issues of criticism, potentially.

24 MS ANYADIKE-DANES: Yes. I suspect much of this is going to  
25 hang on exactly what people knew and understood and what

103

1 written opening and I don't want to go into that in too  
2 much detail, save to say that there is a real issue as  
3 to when Dr McCord is first contacted, leaving aside the  
4 question of whether he could and should have been  
5 contacted before, what exactly passes between them, what  
6 information she gives him so that he can best guide her  
7 on what to do in that situation as he's making his way  
8 to the hospital, and if she gives him the appropriate  
9 information, what is exactly the guidance that he gives  
10 her. It doesn't appear to involve changing the fluids,  
11 and that is an issue to be explored during the oral  
12 hearings.

13 I should say, though, that Mr Foster does praise  
14 Dr Taylor [sic] for acting with commendable speed and  
15 Dr Haynes says that:

16 "The staff responded quickly, recognising at an  
17 early stage that an electrolyte abnormality was likely  
18 to be the cause of her fit and intubated and ventilated  
19 Raychel without delay."

20 But at this stage, one is dealing with precious  
21 minutes, so although I'm not going to set out here as  
22 those minutes ticked by, that is something to be  
23 explored with those staff who were available then and  
24 those who are being called exactly what the best use,  
25 reasonably considering that they were in an extreme

102

1 information was conveyed to the more senior people.  
2 That's precisely what we have to try and explore during  
3 the hearing. We don't have a very clear account of what  
4 was actually said or what views they formed at the time.

5 THE CHAIRMAN: As long as we know we are not looking for  
6 perfection.

7 MS ANYADIKE-DANES: No, I think we're a long way from that.

8 THE CHAIRMAN: Good.

9 MS ANYADIKE-DANES: Just as you mentioned, I could say that  
10 Dr Scott-Jupp thinks that it was appropriate to do the  
11 second blood set of tests and it was appropriate to wait  
12 until the repeat result came back before acting upon it,  
13 due to the risks of taking action on a false result and  
14 appropriate steps were taken after the receipt of the  
15 repeat results, but unfortunately, in his view, it was  
16 probably too late at that stage for a change in  
17 treatment to make much difference. But as I say, that's  
18 an area to be addressed.

19 When Dr McCord arrives, Raychel has been intubated  
20 at that stage and she's being manually ventilated. He  
21 found her to be perfused and unresponsive and her pupils  
22 remained fixed and dilated and he said that:

23 "Raychel had a marked electrolyte disturbance with  
24 profound hyponatraemia and low magnesium."

25 In Dr Haynes's view:

104

1 "By the time Dr McCord arrived at the hospital,  
2 Raychel's situation was irretrievable since her pupils  
3 were fixed and dilated and she required manual  
4 ventilation."

5 At that stage, of course, a number of other  
6 clinicians come. Mr Zafar comes, Mr Bhalla comes, who's  
7 the surgical registrar, and they all seem to arrive at  
8 roughly the same time that Dr McCord does. Mr Foster  
9 makes the obvious point that it's regrettable that none  
10 of those doctors could have come to her earlier when  
11 their expertise could have made a difference to the  
12 outcome.

13 There is an issue about the absence of the  
14 consultant surgeon on call. Mr Foster has no doubt  
15 whatsoever that the consultant surgeon on call, which  
16 seems to have been Mr Neilly, should have come in to  
17 note events, make a clinical note, and above all see the  
18 parents. Mr Bhalla states that he didn't contact the  
19 consultant surgeon as his initial assessment of Raychel  
20 strongly suggested a metabolic septic cause of her  
21 deterioration. In other words, it had moved away from  
22 being a surgical issue. But I think Mr Foster's view  
23 is that she had been or was still a surgical patient  
24 under the care of a surgical consultant and a senior  
25 member of the team, a consultant, should have been

105

1 abnormality was demonstrated."

2 That issue of a subarachnoid haemorrhage is  
3 something that needed to be further explored. The  
4 inquiry's own expert in neuroradiology, Dr Forbes, is  
5 not critical of Dr Morrison for, as it turned out,  
6 erroneously suggesting the presentation of  
7 a subarachnoid haemorrhage. He says that:

8 "CT scans demonstrating severe cerebral oedema are  
9 not infrequently misdiagnosed as a subarachnoid  
10 haemorrhage by inexperienced radiologists in training or  
11 even consultant radiologists who have had limited  
12 involvement in acute neurological illnesses and cases of  
13 severe brain swelling."

14 What he did do though is, Dr Morrison sought  
15 a second opinion from a consultant neuroradiologist, who  
16 was Mr McKinstry from the Royal, and you'll recall  
17 Mr McKinstry has given evidence before in relation to  
18 earlier cases. After the CT scan, Raychel is brought  
19 into the intensive care unit, she's anointed by  
20 a priest, an evaluation sheet is completed with regard  
21 to her history which precipitated that admission to the  
22 ICU.

23 Mrs Ferguson recalls Dr McCord saying to her that  
24 the brain was clear and that if he could get her sodium  
25 up, it would be better, but that the neurological unit

107

1 there.

2 And in fact, he says he just can't believe that  
3 neither Mr Zafar nor Mr Bhalla would have contacted the  
4 on-call surgical consultant. And if they didn't contact  
5 the on-call surgical consultant, then he considers that  
6 to be a very serious issue by way of omission. In fact,  
7 he says the surgical department is scarcely represented  
8 at what he considers to be a crucial time, and that is  
9 something that we are going to explore a little further.

10 We have reached pretty much the final stage for  
11 Raychel at Altnagelvin. That is really the CT scans.  
12 By the time those senior doctors have arrived, it's  
13 clear to them that the next step is to get a CT scan and  
14 see what is happening in her brain. So at about 5.30 on  
15 the Saturday morning, Dr Trainor goes with Raychel to  
16 the X-ray department for the CT scan.

17 Dr Nesbitt, he's the clinical director and  
18 consultant anaesthetist, he has come to the hospital  
19 because Dr Date has called him, and he attends Raychel  
20 while the CT scan is actually being conducted. It's  
21 being conducted by Dr Morrison, he's a consultant  
22 radiologist, but it finishes at a little bit after 6 am.  
23 He reports that:

24 "There is evidence of a subarachnoid haemorrhage  
25 with raised intracranial pressure and that no focal

106

1 at the Royal Victoria Hospital, with whom obviously they  
2 were in contact, needed another scan. That's what  
3 happened.

4 There's a second scan of Raychel's brain, and this  
5 time it's enhanced or contrast enhanced, and that is  
6 done at 8.51. The purpose is to rule out an abscess  
7 in the brain. The note records that the CT scan  
8 produced no new findings, but the scan was later  
9 reported to suggest:

10 "Raised intracranial pressure due to cerebral oedema  
11 and as excluding a subdural collection or subarachnoid  
12 haemorrhage."

13 Dr Morrison is in discussion with Dr McKinstry about  
14 the scan. We're trying to find out a little more about  
15 exactly what they did discuss. Apart from any other  
16 thing, the reason is because of the information that's  
17 provided to the parents about Raychel at that time.  
18 Mrs Ferguson states that following the second CT scan,  
19 they were told by Dr McCord that the doctors at the  
20 Children's Hospital had seen a trickle of blood on the  
21 outside of Raychel's brain and another doctor -- it's  
22 not clear who that is and we're trying to find out --  
23 told them that there was a lot of pressure inside  
24 Raychel's head and that they would operate to reduce the  
25 pressure, and it was indicated that that would take

108

1 place at the Royal.  
2 The earlier reference that Dr McCord makes to  
3 a CT scan -- the best place is the actual note in the  
4 clinical notes and records. What he actually writes is:  
5 "Chart CT, brain."  
6 And then there's an indication of "normal". That  
7 can be seen at 020-015-025. It's quite small,  
8 Mr Chairman. It's almost directly in the middle of the  
9 page with the line going from it saying, "Verbally".  
10 There it is:  
11 "CT brain. Verbally."  
12 And that N in a circle we understand to indicate  
13 "normal". And "verbally" indicates that he had some  
14 consultation with somebody about that. Well, the only  
15 person he'd be having a consultation about it with is  
16 Dr Morrison, and Dr Morrison's view is that that didn't  
17 happen at all. In fact, it's in his witness  
18 statement -- only for reference purposes, we don't need  
19 to pull it up -- at 036/1, page 3. He says:  
20 "At no time did I verbally report the CT scan as  
21 normal. I did not have any direct communication with  
22 Dr Brian McCord, consultant paediatrician. The results  
23 of the CT scan, and accordingly the results of any  
24 discussions, are summarised in my written report."  
25 And he gives a reference for it:

109

1 at the Children's Hospital, and Dr Morrison, as to  
2 whether hope was being held out that something of that  
3 sort could have been done to revive and retrieve  
4 Raychel, save her life, more to the point.  
5 Then, Mr Chairman, this only needs to conclude by  
6 saying that Raychel was transferred to the Children's  
7 Hospital by ambulance at 11.10. She arrived in  
8 paediatric intensive care at 12.30. Nothing happens  
9 during the journey. She remained stable, her condition  
10 is unchanged. She's accompanied by Dr Nesbitt. When  
11 she gets there, Dr Dara O'Donoghue records in the  
12 clinical notes that:  
13 "Raychel appeared to have coned with probably  
14 irreversible brainstem compromise."  
15 Then as you would expect, Mr Chairman, the brainstem  
16 tests are ultimately carried out, the first one, then  
17 the second. Both of them are negative. There is an  
18 inquest, and the post-mortem is carried out by  
19 Dr Brian Herron, who's a consultant neuropathologist, at  
20 that stage, and Dr Al-Husani. You will recall having  
21 heard evidence from Dr Herron in relation to Claire's  
22 case.  
23 In fact, Dr Herron involves Dr Clodagh Loughrey,  
24 who's a consultant chemical pathologist, and he involves  
25 her because of his concerns in relation to

111

1 "And also in my handwritten notes."  
2 And Dr McCord was asked about that because he was  
3 really the person who was providing information at that  
4 stage to the parents. He addresses it in his witness  
5 statement, and that probably is worth pulling up. It's  
6 032/1, page 3. It's (ii) at the bottom. He says that  
7 he made a retrospective note:  
8 "On review, I note that I have commented on the  
9 CT film being 'verbally normal'. I cannot fully explain  
10 this, other than to cite possible sleep deprivation, a  
11 desire to return to normal duties and perhaps  
12 radiographer's comments prior to formal assessment by a  
13 consultant radiologist noting that the initial report is  
14 untimed."  
15 It's not entirely clear what that means by way of an  
16 explanation and we'll seek some clarification of it.  
17 As I say, the main point is to understand what he  
18 understood about Raychel's condition because that is  
19 what he's communicating to the parents, particularly if  
20 there is any suggestion that Raychel's condition could  
21 be relieved surgically. That would indicate that the  
22 parents were being given an impression that something  
23 could still be done at that stage. And we will  
24 therefore need also to know what the level of  
25 communication was between Dr McKinstry, who is an expert

110

1 hyponatraemia. So he brings in an expert just as  
2 we were hearing from the witnesses and experts in  
3 Claire's case about the need sometimes and the  
4 appropriateness of the pathologist bringing in experts  
5 to deal with specialist issues. That's what he does and  
6 she provides a report and her three findings are really  
7 in relation to the acute hyponatraemia. So there's  
8 cerebral oedema secondary to acute hyponatraemia, and  
9 the reasons for that are:  
10 "The infusion of low-sodium fluids post-operatively,  
11 the vomiting and the inappropriate secretion of  
12 antidiuretic hormone."  
13 Then finally one has the report from Dr Sumner,  
14 which concludes that:  
15 "Raychel died from acute cerebral oedema, leading to  
16 coning, as a result of hyponatraemia."  
17 And then the inquest, which finds that -- well,  
18 really, it accepts the findings of the autopsy and it  
19 details in its descriptive part:  
20 "On 9 June [she] suffered a series of tonic seizures  
21 necessitating a transfer to the intensive care unit of  
22 the Royal Belfast Hospital. She died the following day.  
23 Subsequent post-mortem investigation established that  
24 she died from cerebral oedema caused by hyponatraemia  
25 and the hyponatraemia was caused by a combination of

112

1 inadequate electrolyte replacement in the face of severe  
2 post-operative vomiting and water retention resulting  
3 from the inappropriate secretion of antidiuretic  
4 hormone."

5 THE CHAIRMAN: Thank you very much.

6 Mr Quinn?

7 Opening submissions by MR QUINN

8 MR QUINN: Mr Chairman, my much shorter opening address is  
9 really directed at the parents' view of this case.

10 I want to go through this in some detail, but really by  
11 making some very general points.

12 Raychel was born on 4 February 1992. It was  
13 a joyful day for her parents, Raymond and Marie. She  
14 was a beautiful and loving little girl. She was their  
15 only daughter and she gave her parents great joy  
16 throughout her lifetime. They have three other sons.  
17 This family would now be celebrating Raychel's 21st  
18 birth on Monday 4 February 2013 -- that's next Monday --  
19 had mistakes not been made and concerns addressed and  
20 someone in authority had stepped back and looked at the  
21 history of deaths from hyponatraemia in Northern Ireland  
22 during the years before Raychel's death.

23 The day she died, 10 June 2001, remains the darkest  
24 day in the life of this family and they are battered  
25 continually by waves of grief. They have placed their

113

1 will speak for itself.

2 The Ferguson family would like me to deal with the  
3 issues that they feel are important to a family like  
4 themselves, a family who has lost a child in totally  
5 unexpected circumstances. Here we have a series of  
6 events that all parents dread: a completely healthy  
7 child complaining of a sore stomach goes into  
8 Altnagelvin Hospital and is dead in less than 36 hours.  
9 Marie and Raymond Ferguson did what any other parents  
10 would do on that early summer's day: they took their  
11 child to the hospital because she was complaining of a  
12 stomach pain. They put their faith and trust in  
13 Altnagelvin Hospital in Derry, but it is clear to them,  
14 and as I will explain later, that Raychel would not have  
15 died, but for the treatment that she received in  
16 Altnagelvin Hospital.

17 It has not been easy for the Ferguson family.  
18 In the past years since the inquiry was established,  
19 their faith in the process has wavered. The Fergusons,  
20 and particularly Raychel's mum, Marie, have not been shy  
21 about expressing their views. They have suffered all of  
22 the normal human emotions to date: grief, confusion,  
23 loneliness, bewilderment and, without doubt, great  
24 anger. As the evidence will reveal, their anger is not  
25 without justification. The Fergusons intend to let the

115

1 faith in this inquiry. The family has faith in the  
2 system and they look forward to hearing the analysis of  
3 the evidence and the findings of the inquiry when all of  
4 the evidence has been heard.

5 In order to address the terrible injustice inflicted  
6 upon the Ferguson family and the other families involved  
7 in this inquiry, we are confident that no stone has been  
8 left unturned, no file has been left unopened, no office  
9 or warehouse has been left unexplored for various  
10 documents that are integral to the workings of this  
11 inquiry. This family are confident that they will see  
12 justice done for their daughter.

13 At this stage, I want to thank the inquiry legal  
14 team, particularly Ms Anyadike-Danes, for putting  
15 together a clinical opening that traces the history of  
16 Raychel's treatment in clear and concise detail and  
17 places against each piece of the treatment and care the  
18 comments of the inquiry experts, to whom I'll refer  
19 later. I am mindful that this inquiry does not any need  
20 any further analysis of the history of the case or  
21 comments made by the various experts who will be called  
22 to assess the performance of the medical team at  
23 Altnagelvin Hospital during early June 2001. However,  
24 some repetition from the medical reports is unavoidable.  
25 I will keep this to a minimum, trusting the evidence

114

1 evidence in respect of the treatment of Raychel and the  
2 death of Raychel speak for itself. The Fergusons are  
3 confident that this inquiry will, at least, reveal the  
4 true circumstances of the last days of Raychel's life  
5 and what happened afterwards. We also want to examine  
6 what went before and we cannot deal with Raychel's case  
7 without mentioning the case of Lucy Crawford.

8 This was a little girl admitted to the Erne Hospital  
9 who died in similar circumstances on 14 April 2000, just  
10 14 months before Raychel died in Altnagelvin. The  
11 family want to make the point at this early stage that  
12 it would seem that nothing was learned from the death of  
13 Adam Strain in 1995, nothing at all was learned from the  
14 death of Lucy in April 2000, and it would seem that the  
15 death of Claire Roberts, because that was not deemed and  
16 defined hyponatraemia, was not even considered until  
17 2004.

18 We should not forget that it took some brilliant  
19 investigative journalism, which is not now fashionable  
20 in this computer-driven age, to reveal the truth. It  
21 was not until the UTV documentary When Hospitals Kill  
22 was aired in 2004 that this issue came into the public  
23 arena. Arising from this documentary, the family of  
24 Claire Roberts contacted the Royal Victoria Hospital and  
25 this led to a full investigation into Claire's death,

116

1 a full eight years after she died.  
2 The documentary highlighted Lucy's case, but it also  
3 focused on the issues of hyponatraemia and hopefully  
4 this has been useful in preventing other deaths in the  
5 years since the documentary was broadcast and this  
6 inquiry was set up. What the Fergusons want is for  
7 something useful to come out of the inquiry.

8 There are still a number of unanswered questions.  
9 There is still work to be done in relation to training  
10 of staff, the incorporation of guidelines and protocols  
11 into the health system across all of the boards and  
12 trusts and perhaps something could be done to ensure  
13 that there is some form of communal sharing of  
14 information across the various health trusts.

15 It is important that the Ferguson family and all of  
16 the families involved in the inquiry should have faith  
17 in the justice system. There are lots of imperfections  
18 in the system and, in fact, you may be surprised to hear  
19 that Altnagelvin Hospital still has not admitted  
20 liability for Raychel's death.

21 In this age of openness and in the search for truth  
22 and justice, how could this hospital and the trust  
23 responsible for that hospital still maintain that they  
24 are not responsible for Raychel's death? Even the most  
25 basic of investigations would have demonstrated to the

117

1 were negligent or that if there was any failure to apply  
2 appropriate standards or that the failure caused or  
3 contributed to the death of Raychel Ferguson, and  
4 therefore liability is denied."

5 In this open letter, the Trust go on to state:  
6 "The Trust is, however, acutely conscious of the  
7 emotional trauma involved in any litigation and of the  
8 tragic circumstances of this particular case.  
9 Accordingly, it is and remains prepared, on an ex gratia  
10 basis without admission of liability, to pay  
11 compensation to the plaintiff.

12 "That is not an admission of liability [they say],  
13 but we do hope that the plaintiff will be able to  
14 respond to our client's willingness to resolve this  
15 litigation on that basis, remaining safe in the  
16 knowledge that the inquiry is going to deal with all  
17 aspects of the Trust's care and management of  
18 Raychel Ferguson."

19 We say this family did not bring a legal action  
20 against the trust to get money. That's clear. They  
21 brought an action to get to the truth. They want the  
22 Trust to acknowledge that there was negligence on the  
23 part of the staff, that there were errors and omissions  
24 in relation to the system that was in place at the time  
25 of Raychel's death. There was an inquest into her death

119

1 hospital authorities that there were errors and  
2 omissions in the treatment of Raychel during her short  
3 stay at Altnagelvin in June 2001.

4 Mrs Marie Ferguson, on behalf of Raychel, issued  
5 proceedings against Altnagelvin Hospital, claiming among  
6 other things that the staff failed to properly diagnose  
7 and treat the vomiting, that they failed to provide  
8 proper nursing care, that they didn't give her proper  
9 fluids, and that they failed to carry out a blood test  
10 to check her electrolytes.

11 The Altnagelvin Trust served a defence to this  
12 action in November 2005, admitting that Raychel did  
13 develop a cerebral oedema, that she died on  
14 10 June 2001, but they denied that her death had  
15 anything to do with the negligence of any of their staff  
16 in relation to the diagnosis, the treatment and clinical  
17 care afforded to Raychel.

18 To make matters worse for her parents, when their  
19 solicitor, Mr Doherty, asked by open letter to admit  
20 liability for the death of Raychel, a letter from the  
21 Directorate of Legal Services, who represent the Trust,  
22 which was dated 30 June 2005, states that:

23 "While the Trust repeats its sentiments of sorrow  
24 and regret in relation to the death of Raychel, the  
25 Trust does [and I quote] not accept that it or its staff

118

1 in February 2003, during which a report from Dr Warde,  
2 we've already heard about this, compiled for  
3 Altnagelvin Trust into the death of Raychel was not  
4 disclosed to the coroner, nor was he called as a witness  
5 before the coroner.

6 Was this because he identified Raychel's vomiting as  
7 "severe and protracted" and stated that there should  
8 have been electrolyte measurement and an accurate  
9 estimate of fluid balance. Is the failure to release  
10 this report to the coroner part of an attempted cover-up  
11 by the Trust? We would like to hear the reasons why  
12 they didn't release it and, in view of the contents of  
13 that report, which they had before they denied liability  
14 in the action brought by the parents, why do they  
15 continue with such a stance? Why do they still deny  
16 liability?

17 We know that the system has now been changed, we  
18 know that Solution No. 18 is no longer in use, but what  
19 the parents want is an answer as to why Raychel died.  
20 We know that other children -- in fact many, many  
21 children -- are admitted to Altnagelvin for surgical  
22 procedures and that those procedures were totally  
23 successful. What we need to look at is why Raychel's  
24 treatment failed.

25 We're going to hear from a number of experts whose

120

1 evidence has already been outlined in the detailed  
2 opening you have just heard from my learned friend. And  
3 with the greatest of respect, what we must not do is  
4 miss the main points and become swamped in the details  
5 of this case. This is an inquiry into  
6 hyponatraemia-related deaths. The main point of the  
7 investigations relates to fluid management and  
8 mismanagement. Of course, there are other issues that  
9 must be developed and investigated and Mr and  
10 Mrs Ferguson welcome the fact that the inquiry will  
11 carry out a full and thorough investigation into  
12 Raychel's death.

13 They have already attended this inquiry to hear  
14 a considerable amount of the evidence in relation to  
15 Adam Strain and Claire Roberts and they can see that the  
16 inquiry has dealt with the deaths of those two children  
17 thoroughly and comprehensively.

18 Mr and Mrs Ferguson have no background in medicine  
19 and science, therefore they rely on the experts to  
20 provide an explanation of what happened, who was at  
21 fault, the problems with the system, and how all of  
22 those problems can be addressed. They are acutely aware  
23 that had proper investigations been carried out, then  
24 a number of children involved in this inquiry would not  
25 have died.

121

1 remember how Raychel lived and not how she died, but  
2 they do take solace from the fact that lives have  
3 undoubtedly been saved as a result of Raychel's untimely,  
4 unnecessary and totally avoidable death.

5 To demonstrate the failures in the system at around  
6 the time Raychel died, let's look at the following  
7 quote:

8 "There is also a mistake in the calculation of the  
9 ongoing cumulative fluid, which the patient received.  
10 This would be understandable if it had occurred after  
11 the emergency at 3 o'clock, but in fact the inaccuracies  
12 precede that emergency. There is no obvious indication  
13 to suggest that the nursing staff were under excessive  
14 pressure and excessive workload up to that point. If  
15 they were, then the staffing of the ward would need to  
16 be addressed."

17 Just as an aside, we've heard my learned friend  
18 opening the case in relation to how there were problems  
19 with the fluid. The point we make, and I go back to the  
20 document, is this letter was written almost a year  
21 before Raychel died. It is, of course, very relevant to  
22 Raychel's case, but it's not about Raychel. That  
23 comment, in fact, comes from the Lucy Crawford files,  
24 and can be found at reference 043-062-126. No need to  
25 bring that up at the moment.

123

1 Like the other families involved in this inquiry,  
2 the Fergusons want to ensure, as far as is humanly  
3 possible, that no other family has to suffer as they  
4 have suffered in the past 12 years. They want this  
5 inquiry not only to point the finger of blame at those  
6 individuals who should carry the blame, but they also  
7 want the system addressed. They don't want just the  
8 individuals on the ground, those directly treating  
9 Raychel, for example the doctors and the nurses, to bear  
10 all the responsibility. They would also like the  
11 inquiry to identify those in control of the system and  
12 the management structures and who were ultimately  
13 responsible for the failure in the system. This is  
14 a system failure and negligence on behalf of the staff  
15 on the ground.

16 The system undoubtedly failed Raychel and they want  
17 a full and frank investigation of how that occurred and  
18 who was responsible for that failure. They already  
19 recognise, as the chairman of the inquiry stated on  
20 Day 47 to Dr O'Hare, that the position in  
21 Northern Ireland has changed, largely because of the  
22 death of Raychel. This led the Department of Health to  
23 establish a working party which came up with new  
24 guidelines.

25 The parents want me to state that they want to

122

1 It's a letter from Dr Anderson, the then clinical  
2 director of Sperrin Lakeland Trust, to Mr Fee, the  
3 director of acute hospital services at Tyrone Hospital.  
4 It's dated 17 July 2000. Had this investigation into  
5 the death of Lucy been properly followed up, Raychel may  
6 have been celebrating her birthday on Monday.

7 Let's look at the family's approach to the inquiry.  
8 The family appreciate the fairness of the investigations  
9 carried out by the inquiry team. They, as ordinary  
10 people dealing with a massive volume of documentation,  
11 see the case in simpler terms. The issues that they  
12 feel are relevant are, one, should Raychel have had  
13 surgery at all? This issue is fully covered in the  
14 report from Mr George Foster, MD, FRCS, expert in  
15 general surgery and a qualified paediatric surgeon.  
16 He's been referred to by my learned friend extensively  
17 throughout her opening address.

18 He has been retained by the inquiry to give evidence  
19 on this and on a number of other issues. Some might say  
20 that this inquiry is only about fluids and this issue  
21 about whether or not she should have had an  
22 appendicectomy is a side issue. We say that this is an  
23 area of concern in that a general anaesthetic leads to  
24 the use of opiates that may cause vomiting, that could  
25 lead to electrolyte imbalance and, thereafter, the

124

1 mismanagement of fluids that could lead to death, and  
2 certainly it did in Raychel's case.

3 The bottom line is that he is critical -- that is  
4 Mr Foster is critical -- of the fact that Raychel was  
5 the subject of surgery at midnight on 7 June 2001. He  
6 raises a number of issues that we say will be very  
7 difficult to rebut. In a nutshell, he says that Raychel  
8 should not have had surgery. I will expand on this  
9 later.

10 Why was Raychel not seen by a consultant or a senior  
11 doctor? She was in the hospital from early evening of  
12 7 June until she was beyond help in the early hours of  
13 the morning of 9 June. She was admitted under the care  
14 of Mr Gilliland, the surgical consultant. However, he  
15 never saw her at any time during her stay at  
16 Altnagelvin. It would seem that he was never informed  
17 that she had been admitted under his care and he didn't  
18 even know she had died until 11 June. To make matters  
19 worse, he didn't attend the meeting of 3 September when  
20 the family met the Trust representatives to enquire  
21 about Raychel's death. Just for information, this was  
22 a meeting set up by the Trust to provide an explanation  
23 and to which Raychel's mum attended.

24 He confirms that he was informed about the meeting,  
25 but didn't attend as he did not think he could

125

1 no one in the staff -- and I repeat, no one on the  
2 staff -- seemed to be aware that when a child is  
3 vomiting, the electrolyte and fluid balance needs to be  
4 rapidly addressed and the type of fluid reassessed.

5 The fluids that she was receiving and the rate of  
6 infusion was totally and completely wrong in the  
7 circumstances. I add here that even the fact that the  
8 coffee ground vomiting seen by Nurse Gilchrist at  
9 2100 hours didn't ring the alarm bells at that stage.

10 In fact, the surgical team had got it right when they  
11 prescribed Hartmann's solution initially, but it would  
12 seem that they were talked out of this prescription by  
13 the nursing staff, who told them that Solution No. 18  
14 was the solution of choice on the paediatric ward. I am  
15 certain that we're going to hear a lot about this when  
16 the evidence is given.

17 There seems to be a complete and utter lack of  
18 understanding about fluid balance and the choice of  
19 fluids at this time. Even though Mr Gilliland, the  
20 surgical consultant, was not called to attend Raychel,  
21 he states in his statement that if a child vomited more  
22 than twice, then the SHO in surgery should be contacted.  
23 He has stated that, Mr Gilliland.

24 No attempt was made by the nursing staff to do this,  
25 however the most worrying situation is that

127

1 materially contribute. Well, as it turns out perhaps he  
2 couldn't contribute as Mr Foster now makes the point  
3 that Mr Gilliland was not aware of the danger of  
4 infusing hypotonic fluid in children who had prolonged  
5 vomiting. That appears in Mr Foster's report.

6 Number 3. Severe vomiting. There is no doubt that  
7 Raychel suffered from severe vomiting throughout 8 June.  
8 This is one issue that Mr and Mrs Ferguson are extremely  
9 upset about. It would seem that the records, for what  
10 they are, didn't record a number of vomits reported by  
11 the parents, particularly those at 11 am and 12 noon.  
12 Neither was the vomit observed by Dr Devlin at some time  
13 between 15.30 and 18.00 hours recorded. Again, a vomit  
14 noticed by Nurse Bryce at just after midnight, 35  
15 minutes after midnight, on 9 June, was not recorded.  
16 However, seven vomits were recorded on the fluid balance  
17 record. To make things totally clear, Mrs Ferguson  
18 personally recalls vomiting at 1100 hours, 1200 hours,  
19 two further vomits between 1200 hours and 1500 hours,  
20 and two vomits after 1545 hours.

21 We also have the vomits observed by the staff,  
22 that is Dr Devlin and Nurse Bryce. That would mean that  
23 there were eight vomits that were not recorded. The  
24 notes are a complete disgrace. The recording of vomits  
25 is totally inadequate. But the main point is that

126

1 Mr Gilliland, as a senior consultant, also states that  
2 he was not aware in 2001 of the dangers of infusing  
3 hypotonic fluid in children who had prolonged vomiting.

4 Just to deal with that in a little detail,  
5 Mr Gilliland seems to be saying in his statement to this  
6 inquiry that he wasn't aware at this time, in June 2001,  
7 of the dangers of infusing hypotonic fluid in children  
8 with prolonged vomiting and the point being: if  
9 he wasn't aware, who would be aware?

10 The parents want this answered. Does this mean that  
11 the man in charge of the surgical team does not possess  
12 the basic knowledge of fluid balance? Mr Foster  
13 comments on this statement, and this is what Mr Foster  
14 says about the lack of knowledge:

15 "I really don't believe he means this."

16 Meaning that Mr Foster doesn't believe that  
17 Mr Gilliland has actually left himself without that  
18 knowledge. Does that sum it up? This issue needs to be  
19 thoroughly investigated.

20 Number 4. Fluid rate. I have no doubt that this  
21 inquiry will find that it was completely wrong and  
22 negligent to continue to infuse Solution No. 18 into  
23 a child who was constantly vomiting. This should have  
24 been recognised by the ward staff and the fluid should  
25 have been changed to Hartmann's solution or some other

128

1 suitable fluid. None of the experts have challenged  
2 that solution, none. However, there is another problem  
3 in the case, in that it would also seem to be totally  
4 and absolutely clear that the infusion rate was also  
5 wrong. Again, the experts have not challenged this.

6 The inquiry experts, Mr Foster, Dr Haynes, the  
7 consultant anaesthetist, and Ms Ramsay, the nursing  
8 expert, have all concluded that setting a rate of  
9 80 millilitres per hour is in excess of Raychel's  
10 maintenance requirement of 65 millilitres per hour.  
11 This calculation is set out in page 30 of the inquiry  
12 opening for ease of reference. Raychel's total daily  
13 fluid requirement was 65 ml per hour, not the 80 ml per  
14 hour that she was given.

15 Just to make this clear, Mr Chairman, if she gets  
16 80, then she's 35 per cent more than she should be  
17 getting. But to make matters worse, Mr Foster holds the  
18 view -- and no one has demurred from that stance, that  
19 post-operatively Raychel should have been receiving  
20 fluids at a rate of 52 ml per hour. This is to do with  
21 the well-known complication of ADH. And what I say here  
22 is that therefore what he has said in his report is she  
23 should be getting 20 per cent less than the calculated  
24 rate of 65 ml per hour.

25 What that means is that, on our calculations, she

129

1 Raychel on the 8th, including doctors Devlin, Curran,  
2 Butler and Zafar. None of the doctors or nurses noticed  
3 the mistake in the infusion rate. No one did  
4 a secondary check. So once the infusion had been set by  
5 the anaesthetist after the surgery, no one bothered to  
6 check it up.

7 Paragraph 5. The parents feel very strongly that  
8 they were not told the whole truth about Raychel's  
9 death. They feel that Raychel was killed by  
10 Altnagelvin Hospital. They attended a meeting on  
11 3 September 2001, but they got nowhere near the truth.  
12 The consultant, Mr Gilliland, didn't bother to attend  
13 the meeting. Those who did attend denied that they or  
14 their colleagues had done anything wrong. We should  
15 note that this is still the formal stance of the  
16 hospital trust, notwithstanding all that we now know and  
17 the reports that they now hold.

18 What they did do was completely ignore the fact that  
19 Raychel was suffering from severe and protracted --  
20 those are Dr Warde's comments -- vomiting and it would  
21 seem that no one had the required level of knowledge to  
22 change to the correct type of fluid or enough sense to  
23 alter the fluid rate.

24 Clearly, this was negligent. Infusion of the wrong  
25 type of fluid at an excessive rate led to Raychel's

131

1 was getting 54 per cent more than her calculated  
2 requirements in the form of hypotonic saline. So she  
3 was getting 54 per cent more. What I'm saying here is  
4 she was getting 80, she should have got 65 on the  
5 calculated rate, but the experts, certainly Mr Foster,  
6 is telling us that, because she's post surgery, she  
7 should be getting 52 ml per hour. What this means is  
8 she's getting 54 per cent more than the calculated  
9 requirements at that time.

10 When you couple this with the electrolyte loss from  
11 vomiting, this would accelerate the haemodilution and  
12 the onset of electrolyte changes. For ease of  
13 reference, Mr Chairman, this is fully set out and  
14 explained on pages 44 and 45 of the inquiry opening.

15 Mr Foster, the expert, has calculated that she's  
16 getting almost a third more than the accepted rate, but  
17 the true calculation is 54 per cent more than the  
18 accepted rate when you take into account the reduced  
19 rate for ADH. Therefore, not only was she getting the  
20 wrong fluid, she was being infused at a rate of 54  
21 per cent more than she should have had.

22 In effect, Raychel had no chance. She was getting  
23 the wrong type of fluid at the wrong rate and at 54  
24 per cent more than she should have got it.

25 We will hear that a number of doctors attended

130

1 death. Of course, everyone now points the finger at  
2 someone else, but the parents have carefully read  
3 Dr Foster's report and even as people with no prior  
4 knowledge of science or medicine, they can see that  
5 mistakes have been made and that staff have been  
6 criticised.

7 I intend to briefly analyse Dr Foster's report and  
8 his most recent addendum with a view to pointing out  
9 some of those criticisms.

10 Then I go on to number 6, the medical notes. At the  
11 meeting of 3 September 2001 and the issues regarding --  
12 the medical notes, the meeting of 2001. The issues  
13 regarding the notes are probably best left to  
14 governance, which will be dealt with later by this  
15 inquiry. But I feel that something has to be said in  
16 this opening to allow a full and frank investigation of  
17 those notes to be carried out and for them to be  
18 assessed in relation to the clinical issues.

19 The bottom line is that there are no notes worth  
20 talking about. It is hard to believe that during  
21 8 June 2001, when Raychel was desperately ill and  
22 continually vomiting, that only one sentence of notes  
23 appears in the clinical records. The only note in the  
24 clinical file prior to Raychel having a fit at 3 o'clock  
25 in the morning on 9 June is an untimed and barely

132

1 initialled one sentence note made by Mr Zafar, surgical  
2 SHO, which states:

3 "Post appendicectomy, free of pain, Apyrexial.  
4 Continue observations."

5 That's it, eight words. That's it for the whole  
6 day. She gets eight words and, by 3 o'clock the next  
7 morning, she is dead. The next note is an urgent note  
8 made at 3.15 on 9 June by Dr Johnston, who had been  
9 summoned when Raychel suffered a fit. It seems that  
10 we will now hear from Dr Zafar that he gave verbal  
11 instructions. Why did he not note those instructions?  
12 If they were given, then why did the nurses not note  
13 them? Why did the other doctors who were called during  
14 the day -- and we can see the timeline that we've had up  
15 most of the morning. Why did those other doctors, who  
16 were administering drugs, not take any notes? Why did  
17 they not make any notes on the clinical records?

18 It is clear that there is a complete and utter lack  
19 of training, lack of care and lack of appreciation of  
20 proper note taking at Altnagelvin Hospital.

21 The nursing notes are little better and in relation  
22 to requests for assistance from the nurses to the  
23 doctors. At page 13 of his report Mr Foster says:

24 "I cannot find any written confirmation on any  
25 contemporaneous nursing record of these requests for

133

1 issues. Why were no blood tests carried out? This is  
2 central to the issue of hyponatraemia. By means of  
3 a simple blood test, the drop in sodium would have been  
4 immediately revealed and hyponatraemia recognised as  
5 a problem. The very sad truth is that had anyone had  
6 the sense to order a blood test at any time on 8 June,  
7 then Raychel could probably have been saved. Even as  
8 late on as 9 or 10 o'clock at night, there's still  
9 evidence that the situation was retrievable. It wasn't  
10 until the blood test was taken after she fitted in the  
11 early hours of the morning that her drop in sodium was  
12 revealed.

13 We know that Dr Curran arrived on the ward at 22.15  
14 and prescribed cyclizine, which was administered at  
15 once, but of course there's no nursing record to confirm  
16 the doctor's visit, its timing and the action taken.  
17 Dr Curran himself made no note of any of it in the  
18 clinical pages of the file, so he made no note at all.  
19 The only confirmation of this is that we have  
20 a statement from Nurse Gilchrist.

21 The whole course of treatment and nursing care was  
22 a complete and utter inadequately-documented shambles.  
23 If the child was suffering from excessive vomiting, as  
24 Raychel undoubtedly was, then someone should have  
25 ordered a blood test. It was clearly negligent not to

135

1 medical assistance, their timings or outcomes. There is  
2 uncertainty regarding the time of Dr Devlin's visit.  
3 When Dr Devlin wrote up the ondansetron, no time was  
4 recorded and he made no note at all on the clinical  
5 file. To make matters worse, Dr Devlin has stated that  
6 when he saw her in late afternoon, he was told that  
7 Raychel had been vomiting, but had been drinking fluids.  
8 When he saw her, he recalled [he actually recalled and  
9 has stated] that she was actively vomiting, but there is  
10 no record in the fluid balance chart of this vomit."

11 There is no evidence that Dr Devlin looked at the  
12 fluid balance chart or considered it necessary to  
13 consult a senior colleague about what was now, at least,  
14 five episodes of vomiting. And I make the point: those  
15 are the episodes that have been recorded plus the  
16 episodes that the mother and father witnessed and plus  
17 the vomiting that he himself was witnessing at that  
18 time.

19 Finally, Mr Gilliland accepts that, prior  
20 to June 2001, there was no formal advice given to new  
21 members of the surgical team regarding hyponatraemia,  
22 post-operative fluid management or record keeping.  
23 I have to say, Mr Chairman, the parents find that  
24 completely irresponsible on behalf of the hospital.

25 This brings me finally to one of the most important

134

1 do so. No one took control of the situation, the  
2 parents' pleas, many of which there are in their  
3 statements, about excessive vomiting were ignored.  
4 Despite the fact that Raychel was given drugs to stop  
5 her vomiting, no one thought of the more dangerous  
6 implications of that condition.

7 What the Ferguson family will have to hear is  
8 a continuous stream of evidence along the lines that  
9 Raychel could have been saved if anyone had the good  
10 sense to order a blood test. Not only that, there were  
11 numerous opportunities to recognise that Raychel was  
12 slipping away and someone should have done something  
13 about it. By the time she had the fit in the early  
14 hours of the morning, around 3.15, it was probably too  
15 late, but even then there may have been some emergency  
16 action that could have saved her life, if not all of her  
17 faculties.

18 Then I would like to deal with the conclusions  
19 reached by Mr Foster, the inquiry expert. We would  
20 submit that Mr Foster has dealt with Raychel's treatment  
21 history and tragic unnecessary death by applying his  
22 medical expertise, but he has discussed it in a factual  
23 way that makes it easy to understand. Therefore, I deal  
24 with the issues that Mr and Mrs Ferguson and the family  
25 circle see as relevant for the family to address. The

136

1 following is a list of questions that the Ferguson  
2 family have for the inquiry that arise out of  
3 Mr Foster's report and out of their own analysis of the  
4 papers and recollection of the events as they saw them  
5 in the days that Raychel was in Altnagelvin.

6 The first point is that Dr Foster, in concluding his  
7 report, has addressed a number of areas in which he says  
8 the surgical care of Raychel "fell below a satisfactory  
9 standard". Those are his words:

10 "There are ten general points where the care fell  
11 below a satisfactory standard and 13 specific points  
12 where the care fell below a satisfactory standard."

13 Dr Foster is clear in stating that there is no  
14 criticism of the actual surgical procedure that was  
15 carried out, that is the appendicectomy was carried out  
16 satisfactorily and successfully in that the appendix was  
17 removed and Raychel was returned to the ward.

18 The parents do wonder why it took so long for her to  
19 come back, so perhaps the inquiry could look at the  
20 drugs that were given before, in A&E, and during the  
21 surgery, and the length of the recovery period because  
22 that is concerning them.

23 More importantly, the parents want to address the  
24 fact that Mr Foster has questioned the decision to  
25 operate after she attended A&E on 7 June. There was

137

1 whether or not the appendix had anything wrong with it.  
2 And it should be recalled that the final histology  
3 report on the appendix confirmed:

4 "An entirely normal appendix."

5 So therefore, there's no doubt that this appendix  
6 was normal. It would therefore seem likely, and it  
7 follows from that reasoning, that Raychel didn't require  
8 an appendicectomy at all, that this surgery was done  
9 without consultation with a senior doctor and was  
10 contrary to the NCEPOD recommendations. So therefore,  
11 Mr Chairman, there's a number of faults in this.

12 There certainly was no consultation, and I'm going  
13 to come back to that point later. It was done against  
14 the recommendations and, in fact, by the time she got  
15 into surgery, the subjective signs were that she  
16 shouldn't have had surgery. Mr Foster deals with this  
17 and concludes on page 6 of his report:

18 "To conclude this section, I believe that the  
19 decision to operate here was made by a junior surgeon  
20 without good evidence and without consultation. On  
21 balance, I cannot help but conclude that this operation  
22 was unnecessary and, if deferred, would likely have  
23 never been performed."

24 Mr Chairman, we submit it couldn't be clearer.

25 The inquiry is impelled to investigate this decision

139

1 a very short history of symptoms and there were no signs  
2 of inflammation on blood testing, that is the white cell  
3 count was normal. There was no temperature, no rise in  
4 pulse rate and therefore it is questionable as to  
5 whether or not surgery should have been done.

6 Of course, also, Mr Chairman, remember that by the  
7 time she got to surgery, she was no longer in pain.  
8 Further, Raychel had been given a strong painkiller and  
9 by the time she got there, she was no longer in pain,  
10 and therefore, given that the decision to operate was  
11 made at a senior house officer level without  
12 consultation with a senior doctor, it is difficult to  
13 understand why this surgery was proceeded with.

14 The fact that it was proceeded with without  
15 consultation with a senior doctor, which is contrary to  
16 the National Confidential Enquiry into Perioperative  
17 Deaths, NCEPOD. This is a 1989 report, which states:

18 "Consultant supervision of trainees needs to be kept  
19 under scrutiny. No trainees should undertake and  
20 anaesthetic or surgical operation on a child without  
21 consultation with their consultant."

22 THE CHAIRMAN: That's 12 years before Raychel was treated.

23 MR QUINN: Yes, it's 12 years before this surgery was  
24 carried out. What we say is: this is even more relevant  
25 when one considers that there was some doubt as to

138

1 in relation to surgery and also, (a), why did Dr Kelly,  
2 who first examined Raychel in the Accident & Emergency  
3 department, who was a relatively inexperienced doctor,  
4 decide to administer intravenous Cyclimorph, which is  
5 a commonly used combination of morphine and cyclizine.  
6 This is a powerful analgesic and would likely cause  
7 difficulties in evaluating symptoms and findings later  
8 on. Why didn't he prescribe simple paracetamol?

9 The next point is: why did Mr Makar decide to  
10 operate given all of the relevant circumstances? And  
11 what I'm doing here is I'm going through Mr Foster's  
12 report and making the points from that report.

13 Mr Makar described the appendix as obstructed, but  
14 the inquiry expert Mr George Foster dismisses this,  
15 saying, and this is a very interesting quote:

16 "I believe Mr Makar was using it [that is the  
17 description of the appendix] retrospectively to justify  
18 operating on a child with a very short history of pain.  
19 After all, once you bear in mind that Raychel was in  
20 a hospital where repeated examinations and vital sign  
21 recording could be done, blood tests (all initially  
22 normal) should be repeated when required and imaging  
23 done if necessary. Proteinuria had been noted and urine  
24 microscopy should have been performed."

25 That appears at page 7 of his addendum report.

140

1 The lawyers in this room may look at this subject  
2 and comment that it is not really relevant to your  
3 hyponatraemia investigation. However, the public at  
4 large -- and certainly the family -- see this as a very  
5 relevant issue and they want the actions of Mr Makar  
6 fully investigated. It is also relevant that out of  
7 this, two other very relevant topics arise.

8 The first one is that Mr Makar has averred in his  
9 statement that he did in fact discuss his plans for the  
10 surgery in the course of two conversations with the  
11 general surgical registrar, Mr Zawislak. Mr Zawislak  
12 now emphatically denies that he was contacted by anyone  
13 to discuss Raychel's case and states that he definitely  
14 would have remembered such an event had it occurred.

15 It's also relevant, I'll add this in, that  
16 Mr Gilliland who investigated this immediately after the  
17 death of Raychel never mentioned it in any of his  
18 investigation reports or his statement. This is  
19 an issue that must be fully investigated by the inquiry  
20 as there is now a direct conflict between Mr Makar, who  
21 said that he contacted Mr Zawislak, but Mr Zawislak  
22 emphatically denies that he was ever contacted in such  
23 terms. It is very relevant because it really goes to  
24 the heart of the surgical procedure and whether or not  
25 Mr Makar was in fact dealing with the case in accordance

141

1 made such a direction when he was not involved in  
2 Raychel's care until very much later, and want to test  
3 Dr Jamison's recall of this, given that she left the  
4 operating theatre before the surgery concluded and, in  
5 her statement to the coroner, initially stated that  
6 Raychel received 300 ml of Hartmann's solution. It's  
7 relevant as someone now recognises that fluids are going  
8 to be a very, very serious issue in this inquiry and  
9 throughout the investigation of Raychel's death.

10 The next point is: was there an incorrect  
11 calculation of the intravenous fluid volumes? I've  
12 dealt with this earlier in detail. I've already pointed  
13 out that Raychel was receiving approximately 35 per cent  
14 more fluid than was appropriate on the base calculation.  
15 But the point we're making is that, on Mr Foster's  
16 figures, which seem to be accepted, she's 54 per cent  
17 above the correct rate. There were a number of junior  
18 doctors called to examine Raychel and stop her vomiting  
19 and several of them administered drugs to stop the  
20 vomiting. There was Dr Joe Devlin, Dr Michael Curran,  
21 and Dr Butler and Mr Zafar who did the ward round.  
22 Then, of course, there are all of the nurses who were in  
23 charge of Raychel that day. Why did no one check the  
24 intravenous fluid rate, which remained uncorrected for  
25 more than 24 hours? Why was that basic procedure not

143

1 with the NCEPOD recommendations.

2 THE CHAIRMAN: And to put it bluntly, your proposition is to  
3 query whether Mr Makar has belatedly introduced  
4 a reference to Mr Zawislak in order to cover his back?

5 MR QUINN: Exactly. That's exactly what we're saying.  
6 Because it would look as though this was a very late  
7 addition to his statement and certainly wasn't picked up  
8 by Mr Gilliland when he reported on the matter or the  
9 police or the coroner.

10 My second point arising out of this is: not only is  
11 there criticism of the notes, the notes are added to  
12 after the event. This is probably a matter that should  
13 be dealt with during the governance hearings, but the  
14 family are very upset when they consider that  
15 Dr Nesbitt, the then clinical director of childcare, and  
16 who was the consultant anaesthetist at Altnagelvin,  
17 directed the assistant anaesthetist involved in the  
18 surgery, that's Dr Claire Jamison, to add to the  
19 anaesthetic case notes after Raychel's death.

20 That retrospective note dated 13 June appears at  
21 020-009-016. I don't think there's any need to bring it  
22 up. What it records is that Raychel receives 200 ml of  
23 Hartmann's solution during the surgery. To be fair, the  
24 retrospective note is properly signed and dated.  
25 However, the Ferguson family want to know why Dr Nesbitt

142

1 looked into?

2 The next point is that the use of intravenous  
3 hypotonic solutions in a vomiting patient is highly  
4 dangerous, and this is made clear by Mr Foster in his  
5 report. However, the danger of this was not recognised  
6 by the nursing staff, nor the junior doctors, and it  
7 seems that even her consultant has a problem in  
8 understanding this issue. How could this point have  
9 escaped their basic training and we await the findings  
10 and recommendations of this inquiry to hopefully ensure  
11 that this doesn't happen again and also to investigate  
12 how it did escape their basic training.

13 The next point is that in spite of the frequency and  
14 the volume of vomiting, no blood tests were done  
15 throughout 8 June. Mr Foster is very critical of this  
16 and the point is that had a blood test been done,  
17 particularly in the late afternoon of that day, it would  
18 probably have shown that Raychel's sodium level had  
19 dropped to a dangerous level. When blood tests were  
20 eventually carried out in the early hours of the  
21 morning, the sodium level had dropped to 119 at 3.30 am,  
22 and then, when they had a repeat test at 4.35, it was  
23 118.

24 This was well below an accepted level and  
25 represented a grave danger to Raychel. She was at this

144

1 stage suffering from hyponatraemia. The situation at  
2 that stage was probably irretrievable. Why did none of  
3 the staff recommend the blood test, particularly in view  
4 of the excessive vomiting? Why did they not order  
5 a blood test to be carried out, given there were so many  
6 nurses and so many doctors who saw her that day?

7 The next point is that it seems that there were no  
8 attempts made to measure the estimated volume of vomit  
9 and in fact there was absolutely no effort made to  
10 measure the volume of any liquid such as urine that was  
11 lost. We know that she did go to the bathroom, but  
12 nothing was done in relation to measuring the volume.  
13 How could basic training have missed this point?

14 The next point is really one of the main points, and  
15 that is: why did none of the junior doctors not send for  
16 more senior staff at an earlier stage? Mr Foster is  
17 highly critical of the staff on this issue, as is  
18 Dr Scott-Jupp and as are the other experts. We say this  
19 failing should be thoroughly investigated and I make it  
20 at this stage, and I'll deal with it and expand it  
21 later, because even the consultant in charge,  
22 Mr Gilliland, will say that after the second vomit,  
23 something should have been done. It's that point, the  
24 second vomit.

25 The next point is that Raychel suffered a fit at

145

1 "A very serious issue. It is an oversight by those  
2 doctors."

3 The next point is that the ward round -- a very  
4 basic point -- that was conducted on Ward 6 by  
5 Mr Zafar -- his note was extremely brief. He allowed  
6 Raychel to continue to receive both Solution No. 18 and  
7 at an infusion rate of 80 ml per hour. Perhaps that  
8 should have been looked at by Mr Zafar.

9 The next point is that, as we see it, the recurring  
10 theme throughout the experts' reports is that Raychel  
11 could probably have been saved had she been reviewed by  
12 an experienced competent doctor later on in the day. We  
13 know that after the second vomit, which occurred  
14 relatively early, that someone should have been called  
15 to review her. But it gets worse in the afternoon  
16 because she's continually vomiting, and this gets to the  
17 crux of the issue: who was managing her care? Had the  
18 nurses and doctors realised that Raychel was in deep  
19 trouble, as evidenced by the headaches and listlessness,  
20 as well as the vomiting, then they would probably have  
21 asked for a review from a more senior doctor. It is  
22 evident that no one took control. There is a complete  
23 lack of authority. If a blood test had been carried  
24 out, her electrolytes would have been checked and  
25 it would have been observed that her sodium level had

147

1 around 3.30 am. She was examined by the paediatric  
2 doctor, she was given prompt attention and he recognised  
3 that there probably was brainstem damage at that stage.  
4 This was a critical event and the child was about to be  
5 transferred to Belfast, but it took one and a half hours  
6 for the surgical SHO and registrar to appear. Mr Foster  
7 has criticised this and I've listened to what you have  
8 said and my learned friend, Mr Chairman, but the point  
9 is that there was nothing put in place at the time where  
10 the bleeps could be answered. And during the time that  
11 the resuscitation team, comprising of the junior house  
12 officer, the paediatricians up to consultant level --  
13 Dr McCord was there -- and the full anaesthetic team  
14 were in place, Mr Foster comments that the surgeon  
15 should have been present to give support to the team.  
16 Where was the consultant surgeon?

17 Mr Foster states and I quote this, and I want this  
18 recorded:

19 "I cannot believe [that's what he says] that  
20 Mr Zafar and Mr Bhalla did not contact the on call  
21 consultant."

22 It's not the on call consultant's fault if the  
23 junior staff don't contact them, but that's what  
24 Mr Foster states: I can't believe that the staff didn't  
25 contact the consultant. And he states this is:

146

1 dropped. Of course, we now know that the surgical team  
2 didn't answer their bleeps. This is totally and  
3 completely unsatisfactory and has been heavily  
4 criticised by the experts.

5 But we must also criticise the nursing staff. The  
6 junior doctors cannot take all the blame as they were  
7 only called to answer emergencies and to administer  
8 drugs. It was the nursing team who were observing  
9 Raychel on the ground, on the ward at that time. When  
10 Dr Curran saw Raychel later in the afternoon, he should  
11 have been informed by the nursing staff that Raychel had  
12 been vomiting coffee grounds, which is a serious  
13 condition and which would immediately alert a doctor  
14 that further investigations were required. Coffee  
15 grounds, as you know, Mr Chairman, is really blood  
16 that's coming up and put into small grounds and  
17 regurgitated. It would seem that Dr Devlin acted  
18 appropriately but that Dr Curran should have recognised  
19 the problem and taken matters further, though I would  
20 add that he seems to be hamstrung by the nurses' failure  
21 to make a full report on the vomiting.

22 There can be no doubt that Raychel was very ill.  
23 Not only do the family confirm this, but the friends and  
24 neighbours who visited, such as the Duffys, the  
25 McCulloughs(?), and her godmother, Margaret Harrison.

148

1 All comment on her lack of vitality and response and the  
2 word "listless" is used. They also comment on the level  
3 of vomiting. Mr and Mrs Ferguson don't accept the  
4 nurses' position on this matter. Mr and Mrs Ferguson  
5 say that they are wrong in relation to their assessment.  
6 Sister Millar, nurses Roulston, Gilchrist, Bryce, Noble  
7 and McAuley can't be correct when they indicate little  
8 concern about Raychel's demeanour.

9 THE CHAIRMAN: In essence, you say it doesn't even seem  
10 right that a girl who's regularly vomiting is also  
11 described as being bright and cheery.

12 MR QUINN: It just can't be right. We say it just cannot be  
13 correct. The other point is even more basic than that,  
14 and this is where I say that the nurses have to stand up  
15 and take some liability in this case, some  
16 responsibility for what happened. Even if they got the  
17 demeanour wrong, how do they not recognise the need for  
18 medical intervention after the second vomit when all of  
19 the consultants, all of the experts, all recognise that  
20 the vomiting should have not been allowed to go on?

21 This is supported by a number of experts who have  
22 commented on this, including Dr Haynes, Mr Foster and  
23 Ms Ramsay, as does the surgical consultant,  
24 Mr Gilliland. What happened later, that is Raychel  
25 fitting, demonstrates that the nurses' assessment was

149

1 in the ward and test the evidence of the witnesses who  
2 saw this child, the family who were looking after her,  
3 and the nurses who are going to give evidence about  
4 this.

5 Moving to another point, the note taking. The  
6 record keeping and the communication between the staff  
7 and the parents was a complete and utter mess. That's  
8 all you could describe it as. There seems to be  
9 a complete lack of training, direction and coherence,  
10 and Mr Foster makes the point and goes through them in  
11 bullet points. Dr Makar, what did he do? He took  
12 a history and wrote an operation note only. Mr Zafar  
13 took a brief recording of his visit on the morning of  
14 the 8th and Mr Foster states that these notes are  
15 "barely adequate". There will now be an issue as to  
16 whether he verbally told the nurses about the care that  
17 was required, about the volume reducing and the liquid  
18 sips being given, because he didn't know any of that.

19 Moving to Dr Devlin. Apart from a drug chart entry,  
20 Dr Devlin made no notes on the clinical file, and this,  
21 according to Dr Foster, is unacceptable practice.  
22 Again, he's critical of this practice. No note.  
23 Dr Curran, apart from a drug chart entry, made no note  
24 in the clinical file and this also is, he states,  
25 unacceptable practice. Unacceptable.

151

1 wrong. She just went downhill, Mr Chairman. Even if  
2 their assessment of her demeanour was correct, they  
3 still must call for assistance after the second vomit.  
4 But we now know that not only was there a second vomit,  
5 we know that there were many, many recorded vomits and  
6 that it went on through the day. They were negligent  
7 not to do so. Raychel's life could have been saved if  
8 anyone had taken time to look at her care, look at her  
9 case and recognise that she had serious problems.

10 On page 40 of his report, Mr Foster states, and  
11 I quote carefully:

12 "Personally, I believe that in a specialised  
13 paediatric ward such as this, the nursing staff  
14 themselves should have told the doctors of their  
15 concerns. I cannot understand why they regarded  
16 multiple episodes of vomiting as the normal  
17 post-operative course of a mild appendix case. There  
18 was obviously confused communication between the nurses  
19 and each other and the mindset that did not seem to  
20 accept that a serious problem was occurring. Dr Curran,  
21 I believe, should on his own initiative have approached  
22 a senior colleague, but Dr Devlin did all that could  
23 have been expected of him."

24 That leaves you, Mr Chairman, to test this evidence  
25 in relation to what happened that day on the ground

150

1 There are also issues in relation to the lack of any  
2 nursing note or record that the relatives requested to  
3 bleep Dr Zafar and relating to the visits of Doctors  
4 Butler, Devlin and Curran, together with the timings of  
5 those visits. What that means is that here were the  
6 nurses calling doctors to give medication, but nobody  
7 has noted it. So we don't have a record of what  
8 actually happened.

9 THE CHAIRMAN: So as each doctor comes along, that doctor  
10 doesn't have a clear picture of what was going on  
11 earlier.

12 MR QUINN: Exactly.

13 THE CHAIRMAN: Because the notes, if they're there at all,  
14 are inadequate.

15 MR QUINN: Well, no one notes what was given on the clinical  
16 records so no one notes what Raychel was given before.  
17 The nursing notes -- they haven't recorded who they've  
18 bleeped in to give the medication so they don't know,  
19 there's nothing in those notes to indicate what happened  
20 before. It's a complete and utter shambles.

21 THE CHAIRMAN: So if you're the third or fourth doctor who's  
22 called to intervene, you would realise that the problem  
23 was growing in its seriousness, provided that you knew  
24 you were the third or fourth doctor --

25 MR QUINN: Of course. Only provided you knew that you were

152

1 coming behind another doctor and another doctor and  
2 another doctor. But that's the point I'm making. The  
3 nurses were on the ground the whole time. So therefore,  
4 we say it would seem that the level of note taking and  
5 communication was unacceptable. Not only is Mr Foster  
6 critical of the note taking and communication between  
7 the staff, he also records that he is disappointed at  
8 the communication that took place between the surgical  
9 team and Raychel's parents. When Raychel suffered a fit  
10 and it was obvious that she was seriously ill, the  
11 consultant on call should have attended and seen Mr and  
12 Mrs Ferguson urgently. The surgical team should also  
13 have been present at the meeting with the family  
14 in September 2001.

15 I come to an end by stating what the inquiry expert,  
16 Mr Foster, finishes his report by stating, and I quote  
17 again:

18 "As I think I have demonstrated in this analysis of  
19 this case, the system in place in June 2001 had serious  
20 flaws."

21 Serious flaws. So what we have is Dr Foster  
22 criticising a number of doctors and nurses for  
23 unacceptable practice and notes that are barely  
24 adequate. But he states that there are serious flaws  
25 in the system that was in place in Altnagelvin

1 hearing. I should say that I've been told in the last  
2 few minutes that we've now received Mr Gilliland's  
3 signed statement. I'm glad that's come through. If you  
4 stay for a few more minutes, we will arrange for that to  
5 be paginated and provided to everyone here so that you  
6 can take it away and you'll have it for the weekend.  
7 You know why we're not sitting on Monday, it would have  
8 been Raychel's 21st birthday, and unless anyone has any  
9 point to raise, we'll gather here on Tuesday morning,  
10 Tuesday 5 February, and we'll start with the evidence of  
11 Dr Kelly. Thank you very much.

12 (3.00 pm)

13 (The hearing adjourned until Tuesday 5 February at 10.00 am)

14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

1 in June 2001, yet we still have a case where the civil  
2 claim is denied and there are letters going back and  
3 forward to the parents saying that they don't admit  
4 there's any fault on behalf of the staff.

5 The inquiry expert Mr Foster may have concluded his  
6 report, highlighting those serious flaws, yet the  
7 hospital deny all of this. They deny anything is wrong  
8 with the system. They deny their staff were negligent.  
9 They deny they contributed to Raychel's death. How can  
10 that be? Why did a healthy nine year-old girl die in  
11 a modern hospital with a full complement of nursing and  
12 clinical staff? How could that be? Why did it happen  
13 and who was responsible? It didn't just happen. There  
14 must be reasons for it happening and we ask why.

15 The Ferguson family now want the full unexpurgated  
16 truth about their daughter Raychel's avoidable death to  
17 come out, the truth unadulterated, the complete truth  
18 plain and simple, painful for them as it may be. Thank  
19 you, Mr Chairman.

20 THE CHAIRMAN: Thank you, Mr Quinn.

21 You have heard, ladies and gentlemen, Mr Quinn's  
22 detailed opening and you've heard Ms Anyadike-Danes give  
23 a summary of a much longer, complex analysis and summary  
24 of the issues and the evidence which we have to address  
25 over the next few weeks. That brings an end to today's

1 I N D E X

2

3 Opening submissions by MS .....3  
ANYADIKE-DANES

4 Opening submissions by MR QUINN .....113

5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

