

<p>1 Monday, 19 October 2015</p> <p>2 (10.10 am)</p> <p>3 IN THE ABSENCE OF THE JURY</p> <p>4 THE CORONER: Ms Lambert, I understand that the server has</p> <p>5 gone down -- you probably know about this --</p> <p>6 MS LAMBERT: I had heard something of this.</p> <p>7 THE CORONER: -- in London, which means that no transcript</p> <p>8 comes up on the screen. We will try to see how we get</p> <p>9 on, but obviously it does mean that the jury won't have</p> <p>10 the transcript running in front of them, and the members</p> <p>11 of the public won't have the transcript running in front</p> <p>12 of them.</p> <p>13 MS LAMBERT: I don't know whether we have any estimate as to</p> <p>14 how long it will take for the server to be rebooted in</p> <p>15 London.</p> <p>16 THE CORONER: The answer is, we don't know, as I speak.</p> <p>17 Obviously, enquiries are being made. I assume it is</p> <p>18 being worked on.</p> <p>19 MS LAMBERT: Sir, my proposal is we see how we get on. If</p> <p>20 the public find it difficult or if the jury find it</p> <p>21 difficult, then obviously we can stop and regroup.</p> <p>22 THE CORONER: That would seem to me to be sensible.</p> <p>23 Mr Brown, shall we do that for the moment and then</p> <p>24 see how we go?</p> <p>25 MR BROWN: I am content with that approach. Thank you.</p> <p style="text-align: center;">Page 1</p>	<p>1 please.</p> <p>2 MRS CAROL LESLEY BARLOW (sworn)</p> <p>3 Examination by MS LAMBERT</p> <p>4 MS LAMBERT: You are Carol Lesley Barlow; is that right?</p> <p>5 <b>A. That's correct, yes.</b></p> <p>6 Q. Mrs Barlow, as you know, I am going to ask you some</p> <p>7 questions to start off with. There may be some</p> <p>8 follow-up questions from Mr Brown and Mr Mylonas.</p> <p>9 <b>A. Okay.</b></p> <p>10 Q. Mrs Barlow, you made a statement concerning your</p> <p>11 involvement in Tony's care in the Northern General</p> <p>12 Hospital on 1 October 2015, and it is behind tab 127 of</p> <p>13 our bundles, and it is already open at the right place</p> <p>14 for you.</p> <p>15 Mrs Barlow, can I ask you just to confirm one or two</p> <p>16 points by way of background? In 1989, you were a staff</p> <p>17 nurse at the Northern General Hospital based in the</p> <p>18 cardiac intensive care unit; is that correct?</p> <p>19 <b>A. That's correct, yes.</b></p> <p>20 Q. Are you still, in fact, in the nursing profession?</p> <p>21 <b>A. I am, yes.</b></p> <p>22 Q. You are now nursing matron at the Northern General?</p> <p>23 <b>A. That's correct, yes.</b></p> <p>24 THE CORONER: Mrs Barlow, forgive me interrupting, could you</p> <p>25 talk as loudly as you can into the microphone?</p> <p style="text-align: center;">Page 3</p>
<p>1 THE CORONER: Let's have the jury. We should just explain</p> <p>2 it to the jury. Perhaps you would like to do that,</p> <p>3 Ms Lambert?</p> <p>4 (10.14 am)</p> <p>5 IN THE PRESENCE OF THE JURY</p> <p>6 THE CORONER: Good morning, members of the jury.</p> <p>7 Ms Lambert, I think you are going to explain the</p> <p>8 slight computer problem that we have.</p> <p>9 MS LAMBERT: Sir, before we continue with the evidence</p> <p>10 concerning Tony Bland, can I say that there is a problem</p> <p>11 with the server in London, the effect of which is that</p> <p>12 the live transcript will not be appearing on our screens</p> <p>13 just for the moment. It is being worked on as I speak</p> <p>14 and, when it is up and running, then we will be able to</p> <p>15 reconnect the monitors and the LiveNote will be</p> <p>16 displayed.</p> <p>17 Sir, my proposal is that we do start. If either the</p> <p>18 jury have a difficulty in following the evidence without</p> <p>19 the transcript or the Bland family, or indeed anyone in</p> <p>20 the public gallery, then of course if that could be</p> <p>21 indicated by one means or another, and we will take</p> <p>22 a pause.</p> <p>23 THE CORONER: Just signal to me if there is a problem, would</p> <p>24 you?</p> <p>25 MS LAMBERT: Sir, could I ask Mrs Barlow to be sworn,</p> <p style="text-align: center;">Page 2</p>	<p>1 <b>A. Sorry, yes.</b></p> <p>2 THE CORONER: Particularly as there is no running transcript</p> <p>3 for everybody to read what you are saying.</p> <p>4 <b>A. I apologise, yes.</b></p> <p>5 MS LAMBERT: Just staying with your role in 1989, you were</p> <p>6 a staff nurse in the cardiac ICU, as it was called,</p> <p>7 CICU.</p> <p>8 <b>A. Yes.</b></p> <p>9 Q. You had at that time six months' experience within that</p> <p>10 particular environment; is that right?</p> <p>11 <b>A. That's correct. Yes.</b></p> <p>12 Q. You described yourself in your statement of October 2015</p> <p>13 as being the junior intensive care nurse on the unit?</p> <p>14 <b>A. I wasn't the most junior intensive care nurse, but I was</b></p> <p>15 <b>junior at that stage, yes.</b></p> <p>16 Q. Mrs Barlow, in your statement, you describe how you</p> <p>17 became involved or you became aware of the influx of</p> <p>18 casualties to the hospital, first of all learning of</p> <p>19 the disaster via the television and then becoming aware</p> <p>20 of the influx of patients to the hospital; is that</p> <p>21 right?</p> <p>22 <b>A. That's correct, yes.</b></p> <p>23 Q. I want to take you straight, please, to the note that</p> <p>24 you made, as I understand matters, in Tony's records.</p> <p>25 <b>A. Okay.</b></p> <p style="text-align: center;">Page 4</p>

<p>1 Q. Are you content for me to do that?</p> <p>2 <b>A. Yes.</b></p> <p>3 Q. It will come up on your screen. We can make available</p> <p>4 a hard copy if it helps you. Can we start, please, at</p> <p>5 INQ000069910476.</p> <p>6 THE CORONER: Could you give me the reference, please,</p> <p>7 Ms Lambert?</p> <p>8 MS LAMBERT: Yes. It is in our slim bundle. It is actually</p> <p>9 in my bundle behind tab 3. It is quite some little way</p> <p>10 into the bundle. If you look for suffix 476.</p> <p>11 THE CORONER: Thank you.</p> <p>12 MS LAMBERT: It is the first substantive nursing note.</p> <p>13 THE CORONER: Yes, thank you.</p> <p>14 MS LAMBERT: It starts off, 15 April 1989, at half past 5.</p> <p>15 Jyo, can I ask you to maximise the hop half of this</p> <p>16 page for us so we can read it through together.</p> <p>17 You made quite a long entry, over a page and a half</p> <p>18 in Tony's nursing records.</p> <p>19 <b>A. Yes.</b></p> <p>20 Q. When was that note made?</p> <p>21 <b>A. It was made later that evening, after we'd transferred</b></p> <p>22 <b>to the Hallamshire, so it was written retrospectively.</b></p> <p>23 <b>It wasn't written at 17:30. That was an approximation</b></p> <p>24 <b>of the time I thought Tony had arrived.</b></p> <p>25 THE CORONER: You're dropping your voice a bit.</p> <p style="text-align: center;">Page 5</p>	<p>1 ground."</p> <p>2 Pausing there, certainly by the time you wrote this,</p> <p>3 you were aware that you were dealing with a crush</p> <p>4 injury?</p> <p>5 <b>A. I was.</b></p> <p>6 Q. "Injuries: head injury? Trauma?"</p> <p>7 <b>A. Query trauma, query hypoxia. So I'm questioning the</b></p> <p>8 <b>cause at that point.</b></p> <p>9 Q. So you were aware there was a head injury, possibly as</p> <p>10 a result of some form of trauma to the head, possibly as</p> <p>11 a result of oxygen deprivation?</p> <p>12 <b>A. That's correct.</b></p> <p>13 Q. You then wrote:</p> <p>14 "Bil pneumothoraces."</p> <p>15 Bilateral pneumothoraces. Are you there referring</p> <p>16 to that condition that we described on Friday, whereby</p> <p>17 the lung tissue is compressed as a result of air getting</p> <p>18 into the skin that surrounds the lung?</p> <p>19 <b>A. I am, yes.</b></p> <p>20 Q. The pleural sac?</p> <p>21 <b>A. Yes.</b></p> <p>22 Q. "Multiple contusions", is that what you wrote, "mult</p> <p>23 contusions"?</p> <p>24 <b>A. I think that says multiple. I'm not sure, but it</b></p> <p>25 <b>certainly says contusions.</b></p> <p style="text-align: center;">Page 7</p>
<p>1 <b>A. Sorry.</b></p> <p>2 MS LAMBERT: We understand that Tony arrived at the Royal</p> <p>3 Hallamshire sometime after 9 o'clock that night. Is</p> <p>4 this right, that you went with Tony in the ambulance</p> <p>5 that transferred him to the Royal Hallamshire Hospital?</p> <p>6 <b>A. That's correct, yes.</b></p> <p>7 Q. So would this note have been made by you following that</p> <p>8 transfer?</p> <p>9 <b>A. Yes.</b></p> <p>10 Q. Either at the Royal Hallamshire --</p> <p>11 <b>A. It was at the Royal Hallamshire.</b></p> <p>12 Q. So it was made at the Royal Hallamshire because, of</p> <p>13 course, these notes were left at that hospital?</p> <p>14 <b>A. Yes.</b></p> <p>15 THE CORONER: The transcript is working again, Ms Lambert.</p> <p>16 MS LAMBERT: Can I just confirm that the jury's screen is</p> <p>17 working. Excellent.</p> <p>18 If we might start off with your note, what I would</p> <p>19 like to do, please, is just to read it through and then</p> <p>20 ask you some questions about it. But let's understand</p> <p>21 what you wrote:</p> <p>22 "E/A ..."</p> <p>23 Is that emergency admission?</p> <p>24 <b>A. It is, yes.</b></p> <p>25 Q. "... via casualty following crush injury at football</p> <p style="text-align: center;">Page 6</p>	<p>1 Q. Contusion is another word for bruise?</p> <p>2 <b>A. Yes.</b></p> <p>3 Q. So you are referring there to your examination of Tony's</p> <p>4 skin generally?</p> <p>5 <b>A. Yes.</b></p> <p>6 Q. "On arrival" -- you are referring there to Tony's</p> <p>7 arrival at the CICU?</p> <p>8 <b>A. Yes. I had not met him before that.</b></p> <p>9 Q. So we are talking about a time after 5 o'clock?</p> <p>10 <b>A. Yes.</b></p> <p>11 Q. "Unconscious and intubated"?</p> <p>12 <b>A. Yes.</b></p> <p>13 Q. Just to remind ourselves of the evidence on Friday, we</p> <p>14 know, of course, that Tony was intubated on ward 60,</p> <p>15 following that short deterioration in his condition?</p> <p>16 <b>A. Yes.</b></p> <p>17 Q. You then say he required certain drugs. Are you able to</p> <p>18 describe those drugs for us?</p> <p>19 <b>A. Yes. The first one is pancuronium, which is</b></p> <p>20 <b>a paralysing agent; the second one is midazolam, which</b></p> <p>21 <b>is a sedative.</b></p> <p>22 Q. That was in order that he might be ventilated?</p> <p>23 <b>A. That's correct, yes.</b></p> <p>24 Q. Initially, on 50 per cent oxygen?</p> <p>25 <b>A. Yes.</b></p> <p style="text-align: center;">Page 8</p>

<p>1 Q. Then can you read the next entry for us?</p> <p>2 <b>A. It says "MV 10x12 breaths", it's the ventilation</b></p> <p>3 <b>setting, so that's minute volume of 10-litres in</b></p> <p>4 <b>12 breaths.</b></p> <p>5 Q. So you are describing there the fact he's being given</p> <p>6 50 per cent oxygen on the ventilator, and the pressure</p> <p>7 settings of the ventilator are there described?</p> <p>8 <b>A. Not the pressure, the number of breaths per minute.</b></p> <p>9 Q. Number of breaths per minute?</p> <p>10 <b>A. Yes.</b></p> <p>11 Q. You then say:</p> <p>12 "Gases good."</p> <p>13 What are you referring to there?</p> <p>14 <b>A. I'm referring to the ones that were taken in A&amp;E that</b></p> <p>15 <b>the lady doctor, whose name I have forgotten now, wrote.</b></p> <p>16 Q. Dr Naidoo?</p> <p>17 <b>A. Yes.</b></p> <p>18 Q. So you are referring there to those entries that</p> <p>19 indicate that the oxygen content of Tony's blood -- I'm</p> <p>20 putting it in a very simple way, so that I understand --</p> <p>21 the oxygen levels in Tony's blood were good?</p> <p>22 <b>A. As far as I was aware. I had only got those gases to go</b></p> <p>23 <b>on, because we'd not put the arterial line in at that</b></p> <p>24 <b>initial point.</b></p> <p>25 Q. You then say this:</p> <p style="text-align: center;">Page 9</p>	<p>1 <b>A. That would have been an observation that I made.</b></p> <p>2 <b>I would have commented on what I was suctioning from his</b></p> <p>3 <b>chest, because it would be important to determine how we</b></p> <p>4 <b>would treat what did turn out to be the aspiration.</b></p> <p>5 Q. Just so that we follow what we have recorded here, in</p> <p>6 addition to Tony being ventilated, so a machine</p> <p>7 effectively doing the breathing for him, you were</p> <p>8 sucking out debris and fluid from his throat; is that</p> <p>9 right?</p> <p>10 <b>A. No, from further down.</b></p> <p>11 Q. From further down?</p> <p>12 <b>A. Yes. You can pass -- once a patient is intubated, you</b></p> <p>13 <b>can pass a suction catheter down as far as the carina,</b></p> <p>14 <b>which is where the trachea branches into two, and you</b></p> <p>15 <b>can suction contents that are actually on the lungs.</b></p> <p>16 Q. So you are talking about aspirating or sucking out</p> <p>17 debris from those tubes that go down to the lungs?</p> <p>18 <b>A. Yes.</b></p> <p>19 Q. You obviously had an opportunity of seeing what you were</p> <p>20 sucking out?</p> <p>21 <b>A. Yes.</b></p> <p>22 Q. It included food?</p> <p>23 <b>A. It did.</b></p> <p>24 Q. You then refer to another line being inserted -- again,</p> <p>25 Mr Barham told us something of this on Friday when he</p> <p style="text-align: center;">Page 11</p>
<p>1 "Arterial line inserted."</p> <p>2 I think Mr Barham last Friday told us about the</p> <p>3 purpose of the arterial line. It was a line that was</p> <p>4 inserted into one of the major vessels of Tony's body so</p> <p>5 that there could be detailed and accurate monitoring of</p> <p>6 his condition?</p> <p>7 <b>A. Yes. It would be in the radial artery at the wrist. It</b></p> <p>8 <b>gives a continuous monitoring of blood pressure, and we</b></p> <p>9 <b>can also sample arterial blood to analyse the oxygen and</b></p> <p>10 <b>carbon dioxide levels, amongst other things.</b></p> <p>11 Q. "Heart rate 133."</p> <p>12 Is that correct?</p> <p>13 <b>A. Yes, that's correct.</b></p> <p>14 Q. "Blood pressure 125/70."</p> <p>15 You then make reference to Tony being catheterised?</p> <p>16 <b>A. Yes.</b></p> <p>17 Q. I don't think I need to ask you any more about the entry</p> <p>18 that follows the reference to catheterisation.</p> <p>19 Can I go on to the next entry, three lines down,</p> <p>20 which may be of some importance:</p> <p>21 "? Aspirated, alcohol + semi-digested food on</p> <p>22 endotracheal suction."</p> <p>23 <b>A. That's correct.</b></p> <p>24 Q. Are you referring there to an observation that you made</p> <p>25 or something that you were told by others?</p> <p style="text-align: center;">Page 10</p>	<p>1 gave his evidence -- a CVP line, a central venous</p> <p>2 pressure line, is it?</p> <p>3 <b>A. That's correct, yes.</b></p> <p>4 Q. That would not have been inserted by you?</p> <p>5 <b>A. No. No.</b></p> <p>6 Q. So you are recording here what was done by others?</p> <p>7 <b>A. Yes.</b></p> <p>8 Q. Following the insertion of that line, you noted that</p> <p>9 airway pressures increased suddenly?</p> <p>10 <b>A. Yes.</b></p> <p>11 Q. What are you referring to there?</p> <p>12 <b>A. When a patient is on a ventilator, we monitor the</b></p> <p>13 <b>pressure that's required to deliver the gas to the</b></p> <p>14 <b>patient's lungs, and an increase in airway pressures</b></p> <p>15 <b>obviously indicates that it's harder to ventilate the</b></p> <p>16 <b>patient. So the ventilator was struggling to get the</b></p> <p>17 <b>oxygen and air into Tony at this point, indicating that</b></p> <p>18 <b>there was something obstructing, either the</b></p> <p>19 <b>pneumothorax, as we found out that it was, or that there</b></p> <p>20 <b>was bronchospasm.</b></p> <p>21 Q. Then you go on to say "CVP" -- is that "transduced"?</p> <p>22 <b>A. It is, yes.</b></p> <p>23 Q. What are you referring to there?</p> <p>24 <b>A. We transduced the pressure onto a monitor, so there is</b></p> <p>25 <b>a system that interprets the pressure and the waveform</b></p> <p style="text-align: center;">Page 12</p>

<p>1 <b>of that pressure onto an intensive care monitor and it</b>  2 <b>gives us a reading of the pressure at the right side of</b>  3 <b>the heart.</b>  4 Q. Then you say this:  5 "Suddenly became blue."  6 <b>A. Yes.</b>  7 Q. Are you describing there Tony's face becoming  8 discoloured?  9 <b>A. I remember his lips becoming blue as the airway</b>  10 <b>pressures increased.</b>  11 Q. So as there was a problem with the ventilator pushing  12 the air into Tony's lungs --  13 <b>A. That's correct.</b>  14 Q. -- he became blue?  15 <b>A. Yes.</b>  16 Q. Was that an observation that you made?  17 <b>A. It was, yes.</b>  18 Q. Its significance?  19 <b>A. That there's a reduction in the oxygen in the blood</b>  20 <b>supply.</b>  21 Q. The oxygen content of the air being squeezed into Tony's  22 lungs was increased to 100 per cent?  23 <b>A. That's correct.</b>  24 Q. Then you wrote:  25 "Gases poor"?</p> <p style="text-align: center;">Page 13</p>	<p>1 Q. -- by the air gaining access to that skin around the  2 lung?  3 <b>A. Yes.</b>  4 Q. You then say this:  5 "Confirmed on X-ray."  6 <b>A. I believe that that's an error on my part, and that an</b>  7 <b>X-ray wasn't done at this point. As I say, I did write</b>  8 <b>these notes probably four hours later than this. I have</b>  9 <b>some clear memories of Tony on that day, and one of</b>  10 <b>the very clear memories I have is the speed at which we</b>  11 <b>reversed this situation. There wouldn't have been time</b>  12 <b>to do an X-ray. We would have had to wait a long time</b>  13 <b>for an X-ray on that day.</b>  14 <b>We acted very quickly. We were putting chest drains</b>  15 <b>in within minutes -- well, I wasn't, the doctors were,</b>  16 <b>and there would not have been time to do that X-ray.</b>  17 Q. Thank you for that. So you believe that that reference  18 to an X-ray having been taken to confirm the problem in  19 the lungs, you think that was a mistake that you made  20 because obviously you were writing these notes many  21 hours later --  22 <b>A. That's correct.</b>  23 Q. -- and doing your best to record relevant matters, and  24 you think you got that wrong?  25 <b>A. I think it's in the wrong place. He would have had an</b></p> <p style="text-align: center;">Page 15</p>
<p>1 <b>A. I did. I was referring to the ones that Mr Barham</b>  2 <b>described on Friday, which were taken on 60 per cent</b>  3 <b>oxygen, I believe.</b>  4 Q. Can we look at those just for a moment. Jyo, we will  5 come back to this entry. STH000000790009?  6 THE CORONER: Could you give me the hard copy reference,  7 please?  8 MS LAMBERT: Yes, it is behind tab 1 and it is three pages  9 in.  10 Which reference are you referring to here?  11 <b>A. I think I was referring to the ones done at 18:00, where</b>  12 <b>you've got a pO2 of 11.2 and a pCO2 of 4.33.</b>  13 Q. You are referring to blood gases, in other words,  14 a check of the oxygen content in Tony's blood, at around  15 about 6 o'clock?  16 <b>A. Yes.</b>  17 Q. Going back to your note, a nebuliser given because it  18 was thought that there may be a problem with spasm in  19 Tony's bronchi?  20 <b>A. Yes.</b>  21 Q. Then you say:  22 "Clinically bilateral pneumothoraces."  23 So you were obviously then aware that, clinically,  24 on both sides, the lung tissue had been compressed --  25 <b>A. Yes.</b></p> <p style="text-align: center;">Page 14</p>	<p>1 <b>X-ray to confirm that the lungs were reinflated and the</b>  2 <b>drains were well positioned.</b>  3 Q. But later?  4 <b>A. Much later.</b>  5 Q. "Bilateral chest drains inserted". That is to suck out  6 the air that's got into that skin around the lungs?  7 <b>A. That's correct.</b>  8 Q. Again, Mr Barham described those on Friday. You then  9 say:  10 "Immediate improvement in colour and ABGs", those  11 blood gases?  12 <b>A. Yes.</b>  13 Q. Oxygen then turned down to 50 per cent. If we go back,  14 Jyo, keeping this page on the left-hand side, to the  15 blood gas results, STH000000790009, we can see that at  16 7 o'clock there's an entry indicating in the "Action"  17 section on the right-hand side of the page that the  18 oxygen content had been taken back down to 50 per cent?  19 <b>A. That's correct, yes.</b>  20 Q. You then go on to say:  21 "Paralysed and sedated", and observations made:  22 "Now stabilised."  23 You go on to note various other measurements. Just  24 pausing there, if I may, Mrs Barlow, to try to  25 reconstruct some parts of what you have recorded in your</p> <p style="text-align: center;">Page 16</p>

4 (Pages 13 to 16)

<p>1 note, you have a note here which appears to suggest that</p> <p>2 Tony suddenly became blue following the insertion of</p> <p>3 the central venous pressure line?</p> <p>4 <b>A. It was shortly after, yes.</b></p> <p>5 Q. Shortly after that?</p> <p>6 <b>A. Yes.</b></p> <p>7 Q. You also noted that gases were poor and there was</p> <p>8 a diagnosis made of a lung problem?</p> <p>9 <b>A. Yes.</b></p> <p>10 Q. There was then a confirmation of that lung problem and</p> <p>11 correction of that lung problem via the chest drains?</p> <p>12 <b>A. That's correct.</b></p> <p>13 Q. Are you able to assist us with how long it took</p> <p>14 following Tony's condition deteriorating, his colour</p> <p>15 changing, his blood gases becoming poor, how long</p> <p>16 between his condition deteriorating and effectively the</p> <p>17 problem being corrected?</p> <p>18 <b>A. I can't tell you exactly. I know it was minutes.</b></p> <p>19 <b>I think -- the diagnosis of a bilateral pneumothorax was</b></p> <p>20 <b>made almost instantly. A pneumothorax is a recognised</b></p> <p>21 <b>complication of inserting one of those lines, and it is</b></p> <p>22 <b>one of the things that you were looking for whilst you</b></p> <p>23 <b>insert the line, both the doctor doing it and the nurse</b></p> <p>24 <b>assisting. So we were mindful of that.</b></p> <p>25 <b>The diagnosis was made clinically very quickly, and</b></p> <p style="text-align: center;">Page 17</p>	<p>1 <b>A. Yes. I understand that there was a needle aspiration in</b></p> <p>2 <b>that. I can't remember that. But I know from the</b></p> <p>3 <b>documentation that it happened.</b></p> <p>4 Q. So we really are, so far as your recollection is</p> <p>5 concerned, talking about a very short period of time,</p> <p>6 indeed?</p> <p>7 <b>A. Yes.</b></p> <p>8 Q. I understand you to be saying that that is consistent</p> <p>9 with those around Tony being aware that one of the risks</p> <p>10 of inserting this line was the possibility of Tony's</p> <p>11 condition deteriorating?</p> <p>12 <b>A. That's correct.</b></p> <p>13 Q. And you didn't have far to go in the unit to actually</p> <p>14 get the kit to correct it?</p> <p>15 <b>A. That's correct.</b></p> <p>16 Q. You have already told us that you went with Tony in the</p> <p>17 ambulance to the Royal Hallamshire?</p> <p>18 <b>A. Yes.</b></p> <p>19 Q. Do you go on to describe events in the ambulance?</p> <p>20 <b>A. I can't remember events in the ambulance. As far as I'm</b></p> <p>21 <b>aware, he wasn't particularly unstable. I know in my</b></p> <p>22 <b>notes that I mention his heart rate drops transiently,</b></p> <p>23 <b>but I don't remember that.</b></p> <p>24 Q. Can I just ask you about that particular entry. It is</p> <p>25 the only one that I need to take you to. You have</p> <p style="text-align: center;">Page 19</p>
<p>1 <b>I remember leaving Tony to go and fetch the kit to put</b></p> <p>2 <b>chest drains in, and that was kept within the intensive</b></p> <p>3 <b>care unit, in the same room.</b></p> <p>4 Q. So you didn't have far to go to get the drains?</p> <p>5 <b>A. No. It is a room smaller than this, at that time.</b></p> <p>6 Q. Were you with Tony throughout this period?</p> <p>7 <b>A. Yes.</b></p> <p>8 Q. There was no need for Tony to be anaesthetised for the</p> <p>9 purpose of inserting those drains?</p> <p>10 <b>A. He was already lightly anaesthetised by the use of</b></p> <p>11 <b>the pancuronium, which is a muscle relaxant, and the</b></p> <p>12 <b>midazolam and, latterly, the Omnopon, which is an</b></p> <p>13 <b>opiate. So he was sedated, but there was no further</b></p> <p>14 <b>anaesthetic. I think where he refers to "no</b></p> <p>15 <b>anaesthetic", he means no local anaesthetic at the site</b></p> <p>16 <b>of insertion, and we wouldn't have had time for that.</b></p> <p>17 Q. Trying to use your memory and reconstruction of events,</p> <p>18 from that deterioration to the insertion of the chest</p> <p>19 drains, you say a matter of minutes. Tell me if I am</p> <p>20 taking you into areas that are pure speculation, but are</p> <p>21 we talking about a period of 5 minutes, 10 minutes,</p> <p>22 15 minutes, what's your best judgment, if you can give</p> <p>23 me one?</p> <p>24 <b>A. My recollection is less than five.</b></p> <p>25 Q. Less than five?</p> <p style="text-align: center;">Page 18</p>	<p>1 recorded -- Jyo, could you just point this out for us:</p> <p>2 "HR 130. Dropped to 80 in the ambulance but</p> <p>3 reverted spontaneously."</p> <p>4 <b>A. Mmm-hmm.</b></p> <p>5 Q. So no need for you to do anything to restore the heart</p> <p>6 rate?</p> <p>7 <b>A. That's correct. But a heart rate of 80 is still normal.</b></p> <p>8 Q. So although it dropped, it wasn't a drop that caused you</p> <p>9 any concern?</p> <p>10 <b>A. No. I don't recall it doing.</b></p> <p>11 Q. You then go on to describe further drugs that were given</p> <p>12 and some general observations also. If we could just</p> <p>13 show the jury the second part of this note, please, Jyo,</p> <p>14 suffix 77. I am not going to ask you any particular</p> <p>15 questions about it, but it is a general note of drugs</p> <p>16 given and the fact that neuro observations were</p> <p>17 performed?</p> <p>18 <b>A. Yes.</b></p> <p>19 Q. Mrs Barlow, can I take you to another document -- I am</p> <p>20 sure you anticipate the document that I am going to take</p> <p>21 you to -- just to see if you can help us. It is the</p> <p>22 document that is after the blood gas results.</p> <p>23 STH000000790010.</p> <p>24 Are any of the entries on this chart in your</p> <p>25 handwriting?</p> <p style="text-align: center;">Page 20</p>

5 (Pages 17 to 20)

<p>1 <b>A. They are. I am certain that 18:40 onwards is my</b>  2 <b>handwriting. I think possibly 18:00 is, too, but I'm</b>  3 <b>not absolutely certain.</b></p> <p>4 Q. Jyo, can I ask you to pivot this? Thank you.  5 We have the times, don't we, written on what is now  6 the right-hand part of our document as we look at the  7 screen. How accurate would those times have been?</p> <p>8 <b>A. They would be accurate for when they were written, but</b>  9 <b>the observations at 18:40 above been written -- well,</b>  10 <b>the pleural drains would have been written after they</b>  11 <b>were put in and would not have recorded observations</b>  12 <b>while Tony was so unstable and we were needing to</b>  13 <b>deliver care. Hence the gap in observations.</b></p> <p>14 Q. So you appear to have recorded here pleural drains  15 between 18:40 and 18:50. Is that referring to the fact  16 that pleural drains were in situ rather than the time  17 when they were placed in Tony's chest?</p> <p>18 <b>A. It does, yes. I feel that -- that's recorded at 18:40,</b>  19 <b>which is the first opportunity that I had to write any</b>  20 <b>observations after the emergency situation of putting</b>  21 <b>the drains in for the pneumothoraces.</b></p> <p>22 Q. So likely that the pleural drains were in fact inserted  23 some time before 18:40?</p> <p>24 <b>A. Yes.</b></p> <p>25 Q. But on the basis of this document, difficult for you to</p> <p style="text-align: center;">Page 21</p>	<p>1 <b>have that equipment on the intensive care unit.</b></p> <p>2 Q. Just so we understand the significance of that, a pulse  3 oximeter is a device which will give immediately and  4 continuously the value of the oxygen content in the  5 blood; is that right?</p> <p>6 <b>A. That's correct, yes.</b></p> <p>7 Q. You don't think that that was available in the ICU at  8 that time?</p> <p>9 <b>A. I don't think so, no.</b></p> <p>10 Q. So in order to understand the oxygen content in the  11 blood, would that have involved blood having to be taken  12 and put into a machine?</p> <p>13 <b>A. It would, to get accurate recordings, yes, but obviously</b>  14 <b>the clinical picture would give us an idea as well.</b></p> <p>15 Q. When you say "the clinical picture", you are referring  16 there to his colour?</p> <p>17 <b>A. To his colour, possibly his cardiovascular observations.</b></p> <p>18 Q. And the other observations?</p> <p>19 <b>A. Yes.</b></p> <p>20 MS LAMBERT: Mrs Barlow, thank you very much, indeed. Those  21 are my questions.</p> <p>22 <b>A. Thank you.</b></p> <p style="text-align: center;"><b>Examination by MR BROWN</b></p> <p>24 MR BROWN: Good morning, Mrs Barlow. My name is Nick Brown  25 and I am asking questions on behalf of Tony's family.</p> <p style="text-align: center;">Page 23</p>
<p>1 say precisely when they were inserted?</p> <p>2 <b>A. I can't remember that, I'm sorry.</b></p> <p>3 Q. One further point, Mrs Barlow: as we understand  4 matters -- tell me if I am wrong -- when Tony was in the  5 cardiac intensive care unit, he would have been  6 monitored continuously; is that right?</p> <p>7 <b>A. That's correct, yes.</b></p> <p>8 Q. What would have been your normal practice for recording  9 vital signs -- blood pressure, heart rate, and so  10 forth -- in the cardiac intensive care unit?</p> <p>11 <b>A. Immediately following admission, every 15 minutes, and</b>  12 <b>that's what I would have strived to do. But once the</b>  13 <b>need to deliver care overtakes that, then they're</b>  14 <b>recorded when the opportunity arises.</b></p> <p>15 Q. The need to provide care, to go and get drains,  16 et cetera, that takes priority over recording?</p> <p>17 <b>A. Absolutely, yes.</b></p> <p>18 Q. But would those in the room with Tony have been aware  19 continuously of his heart rate and his blood pressure  20 from the equipment around him?</p> <p>21 <b>A. Yes.</b></p> <p>22 Q. Was there a pulse oximeter present on the cardiac ICU at  23 the time?</p> <p>24 <b>A. I don't believe so. I can't remember exactly when they</b>  25 <b>were introduced. I know in my early career we didn't</b></p> <p style="text-align: center;">Page 22</p>	<p>1 As I understand it, you made your first witness  2 statement about your involvement with Tony on 1 October  3 this year.</p> <p>4 <b>A. That's correct. Yes.</b></p> <p>5 Q. Presumably, you would accept that your memory may not be  6 perfect, looking back over all those years, and you may  7 from time to time perhaps be mistaken in what you think  8 you can recall?</p> <p>9 <b>A. I would accept that, but that was a momentous day, it</b>  10 <b>was an incredibly sad day, and days like that, you do</b>  11 <b>have flashbacks of accurate memory, and there are things</b>  12 <b>that I remember well. There are things that I don't</b>  13 <b>remember well, too.</b></p> <p>14 Q. Perhaps we will look at a few of those in a minute.  15 What I am suggesting to you is, just as a matter of  16 commonsense, you would probably place greater weight on  17 the near contemporaneous note that you made on 15 April  18 at the Royal Hallamshire Hospital in the nursing records  19 we have been looking at than you would on your own  20 memory, if there is any difference between what your  21 memory is now and what's contained in those notes.  22 Would that not be sensible?</p> <p>23 <b>A. That would be sensible, yes.</b></p> <p>24 Q. Your memory, looking at your witness statement, was that  25 Tony was actually the first casualty from Hillsborough</p> <p style="text-align: center;">Page 24</p>

6 (Pages 21 to 24)

1 who was admitted into the ICU on 15 April?  
 2 **A. That's correct, yes.**  
 3 Q. Even if that may not be correct, and he may not have  
 4 been the first casualty, what you do remember, clearly,  
 5 is that there was bed space available, plenty of beds  
 6 available, for Tony when he was brought up onto the ICU  
 7 that night?  
 8 **A. He certainly was the first patient through the doors,**  
 9 **into the intensive care unit, and, yes, there was a bed**  
 10 **available.**  
 11 Q. Just thinking about how sometimes it can be difficult to  
 12 remember things, you said just now, in answer to  
 13 questions from my learned friend, Ms Lambert, that you  
 14 weren't sure that that first entry, the 18:00 entry, on  
 15 the observation chart was yours?  
 16 **A. I'm not 100 per cent sure, no.**  
 17 Q. But when you made your first witness statement just two  
 18 or three weeks ago -- we can go to it if you want, it is  
 19 on page 2 of that witness statement. The reference is  
 20 INQ000524590002. If we could enlarge the bottom half of  
 21 the page, and we are looking about six or seven lines  
 22 down from that, the beginning of that paragraph:  
 23 "I recognise some of the writing on the chart to be  
 24 mine and I can see my first entry is timed at  
 25 18:00 hours."  
 Page 25

1 So two or three weeks ago, there didn't seem to be  
 2 any doubt in your mind that you had made the entry at  
 3 18:00 hours?  
 4 **A. At that point, it was the first time I'd been shown**  
 5 **those documents, and I do think that writing looks like**  
 6 **mine, but having looked at it again, I am not**  
 7 **100 per cent sure that it is mine.**  
 8 Q. There is no significance, potentially, in the fact that,  
 9 as you've said, you'd ordinarily expect your  
 10 recordings -- you to record the vital signs -- blood  
 11 pressure, and these sorts of details -- every 15 minutes  
 12 if something had not been happening?  
 13 **A. Sorry, could you repeat that?**  
 14 Q. I'm just wondering whether or not you've thought through  
 15 this, what happened that day, since, and if your  
 16 entry -- I mean, if you did make the original entry at  
 17 18:00 hours, then you'd have expected a further entry  
 18 made by yourself at about quarter past 6, about 18:15?  
 19 **A. I would.**  
 20 Q. The implication would be that something was happening at  
 21 about 18:15 that would prevent you from making that  
 22 entry?  
 23 **A. That's correct. I cannot remember the timings, but it's**  
 24 **around about then, and that would be the reason that**  
 25 **I wasn't making observations -- or documenting**  
 Page 26

1 **observations.**  
 2 Q. Going back to the fallibility or possible fallibility of  
 3 your memory, your recollection, I think, when you did  
 4 this witness statement, you couldn't remember whether or  
 5 not Tony had been intubated before he was brought up  
 6 onto the intensive care unit; correct?  
 7 **A. In my mind, I can't remember that he did have an ET tube**  
 8 **in on arrival. I can see from my notes that he did.**  
 9 **But that's not something that I can remember, no.**  
 10 Q. I think if we look at page 3 of your witness statement,  
 11 you say that you have quite a vivid memory of actually  
 12 helping a consultant anaesthetist gown up in order to  
 13 insert this jugular line. Is that not correct? Perhaps  
 14 we should turn over the page. Jyo, it is suffix 3.  
 15 INQ000524590003.  
 16 If we could enlarge the middle paragraph, please?  
 17 **A. I didn't say a consultant anaesthetist, I said an ICU**  
 18 **anaesthetist.**  
 19 Q. Sorry, an ICU anaesthetist.  
 20 **A. I later, when I was giving my statement, did say to the**  
 21 **policeman, having read the notes, that I'm not convinced**  
 22 **it was an anaesthetist. It would be normal practice for**  
 23 **an anaesthetist to insert such a line. But it was**  
 24 **a case of, a doctor was present inserting that line.**  
 25 **I did, on the handwritten transcript, correct that, or**  
 Page 27

1 **I certainly thought I had, at the time.**  
 2 Q. You read the witness statement through before you signed  
 3 it, presumably?  
 4 **A. Yes, and I signed -- from my recollection, we crossed**  
 5 **through "anaesthetist" later on in the statement and**  
 6 **said it was a doctor. I cannot remember the doctor.**  
 7 **I've made an assumption that it's an anaesthetist,**  
 8 **because that is normal practice.**  
 9 Q. You saw Mr Barham give evidence on Friday. You wouldn't  
 10 dispute the fact that he was the doctor who carried out  
 11 that procedure?  
 12 **A. I don't remember him per se, but, yes, if that's what**  
 13 **the evidence says.**  
 14 Q. Can we now look at the nursing record that you made at  
 15 the RHH. The reference is tab 129 in the bundle I have,  
 16 INQ000069910476.  
 17 If we look at the top half of the page -- I'm going  
 18 to start at "On arrival, unconscious and intubated". We  
 19 then have:  
 20 "Required pancuronium 4mg and midazolam 5mg to  
 21 ventilate. 50 per cent oxygen."  
 22 You then give the minute volume. You say gases  
 23 good?  
 24 **A. Yes.**  
 25 THE CORONER: We have been through all this, Mr Brown.  
 Page 28

<p>1 MR BROWN: Okay. There is a reason for it. 2 Then you say: 3 "Arterial line inserted. Heart rate 133. Blood 4 pressure 125/70." 5 If we can compare that over with the observation 6 chart that we have been looking at, which is tab 99, 7 STH00000790010, we can see on the left-hand side of 8 the observation chart the reference to intravenous 9 midazolam being given and intravenous pancuronium being 10 given, 5mg and 4mg respectively, and it looks that that 11 is at about -- is that 5.25 pm? It is not your 12 handwriting, as I understand it. 13 <b>A. It is not. I think that's what it says, but I'm not</b> 14 <b>sure.</b> 15 Q. If we go up the chart and look at the entry for 17:45, 16 we can see that the blood pressure is 125 over 70, so, 17 again, pretty accurate when you are making your notes, 18 good, accurate recollection. 19 Then if we switch back to the nursing notes, you can 20 see that you have recorded that Tony was catheterised, 21 and then there is the drug that was given, and then: 22 "? Aspirated, alcohol + semi-digested food on ET 23 suction." 24 <b>A. Yes.</b> 25 THE CORONER: You want the jury to follow all this, Page 29</p>	<p>1 <b>context.</b> 2 Q. Sorry, the observation -- entries in the observation 3 charts of the vital signs. Yet we have got a gap here 4 between the entry at 18:00 and 18:40, suggesting there's 5 a potential period when Tony may have been in -- well, 6 urgent to treat Tony because of his deteriorating 7 condition, for up to 40 minutes, according to the 8 observation chart? 9 <b>A. There is a gap of 40 minutes, but the whole of that</b> 10 <b>40 minutes wasn't occupied in regaining oxygenation.</b> 11 <b>Initially, I was assisting with putting the central line</b> 12 <b>in, helping the anaesthetist. It then became apparent</b> 13 <b>that the pneumothoraces had occurred, and that's when</b> 14 <b>the situation became more urgent. So, yes, for</b> 15 <b>40 minutes I was occupied, but he wasn't hypoxic for</b> 16 <b>40 minutes, according to his colour and his</b> 17 <b>cardiovascular status, which is all I had to go on at</b> 18 <b>that time.</b> 19 Q. We know Mr Barham is involved in treating Tony, because 20 he's recorded the blood gas result at 6 o'clock, so we 21 know he's involved at that stage? 22 <b>A. Yes.</b> 23 Q. He told us on Friday that it would only take him a few 24 minutes, 15 minutes, perhaps, he estimated, for him to 25 insert the catheter, to insert the central venous line, Page 31</p>
<p>1 Mr Brown, so we had better take it so that they can 2 follow what you are pointing to. Do you want the 3 pointer at the screen? 4 MR BROWN: Yes, please. 5 Jyo, could you highlight the passage from 6 "Catheterised" down to "food on ET suction". 7 We looked at it on Friday with Mr Barham, but 8 Mr Barham, again, in his notes, confirmed that there was 9 aspiration recorded in his notes. So, again, it looks 10 as if you're accurate. 11 On Friday, Mr Barham told us that the incident when 12 Tony's condition deteriorated took place sometime 13 between 18:00, when he recorded the blood gas results, 14 the first blood gas results we have been looking at, 15 when he noted the increase -- well, he actually 16 increased the proportion of oxygen that Tony was 17 receiving and the rate of ventilation because of Tony's 18 pO2 levels -- do you remember hearing that evidence? -- 19 <b>A. I do, yes.</b> 20 Q. -- and about 18:30, when he made the note. 21 <b>A. Yes.</b> 22 Q. You would say that you would ordinarily have expected 23 these notes to have been made every 15 minutes in the 24 observation chart? 25 <b>A. The observations, yes, not the notes, in the nursing</b> Page 30</p>	<p>1 to insert the jugular line, undertake all three 2 procedures, and you are saying that it was pretty soon, 3 almost immediately afterwards the insertion of 4 the jugular line, that Tony's condition deteriorated. 5 So we are looking at quite a considerable period, just 6 going by the notes, when his condition -- he could have 7 been hypoxic, he could have been in a period of 8 respiratory compromise? 9 <b>A. Between 6.00 and 6.40 -- I didn't record the</b> 10 <b>observations because I spent my time assisting the</b> 11 <b>doctor in caring for Tony. Although it would only take</b> 12 <b>him 15 minutes to insert that line, there's a period of</b> 13 <b>preparation that I would have been involved in, I would</b> 14 <b>have been involved in ensuring that the drugs to keep</b> 15 <b>Tony comfortable were drawn up and available and being</b> 16 <b>delivered. So there's a period of time before that</b> 17 <b>central line was inserted. I don't know what time it</b> 18 <b>was inserted. I cannot remember that. I know once it</b> 19 <b>was inserted, his condition deteriorated fairly quickly.</b> 20 <b>But I don't know how early in that period of time that</b> 21 <b>it was inserted.</b> 22 Q. We have got two references to the central venous 23 pressure being high. We have got the first reference in 24 your nursing record, of it being at 33? 25 <b>A. Yes, I can see that.</b> Page 32</p>

8 (Pages 29 to 32)



1 Q. And we have got a second reference, as we understood it  
 2 from Mr Barham on Friday, to it being 26?  
 3 **A. That's correct.**  
 4 Q. So sustained different figures over a period. It is not  
 5 just one snapshot of it being up at 33?  
 6 **A. I can't remember why I've written 33 or where that**  
 7 **number has come from, because it is clearly not on the**  
 8 **observation chart, and I have no recollection of it**  
 9 **being 33. I can only go on what's written on the**  
 10 **observation chart.**  
 11 Q. That first entry for it being 33 was before Tony  
 12 suddenly became blue, so right at the beginning of  
 13 the process?  
 14 **A. I can't remember.**  
 15 Q. Well, that would be according to your note, just if we  
 16 follow it through chronologically, your note in the  
 17 nursing records. Do you want to look at it again?  
 18 **A. It would --**  
 19 Q. Perhaps it is best -- sorry, Jyo -- if we just get that  
 20 central note -- we may need to increase the size. Go  
 21 slightly lower down the page. From "? Aspirated",  
 22 about eight lines down, to "O2 reduced 50 per cent".  
 23 **A. Looking at that, it looks as though the CVP was 33**  
 24 **immediately, but I cannot remember it being 33 or when**  
 25 **that was.**

Page 33

1 Q. Then, if we read on:  
 2 "Oxygen increased to 100 per cent."  
 3 You have then written "Gases poor"?  
 4 **A. Yes.**  
 5 Q. You said today that you could remember that that  
 6 referred back to the gases which Mr Barham recorded at  
 7 18:00. Is that really likely?  
 8 **A. There aren't any other gases there that I would say in**  
 9 **context are poor. So it can only be those.**  
 10 Q. Is it not much more likely that you were referring to  
 11 the gases at the time of the period of deterioration,  
 12 after he had significantly deteriorated, and that  
 13 actually the mistake is that those gases were never  
 14 recorded?  
 15 **A. I don't believe we would have had time to take them.**  
 16 **I don't believe the gases were taken in that period.**  
 17 **But I can't remember.**  
 18 **Blood gases are printed out on a sheet, and that**  
 19 **would have been transcribed into the notes. We don't**  
 20 **record them from memory. I can't see why they wouldn't**  
 21 **have got transcribed onto that chart.**  
 22 Q. But there wasn't time. Can we just look at the blood  
 23 gas results that we do have. Jyo, sorry to be awkward,  
 24 if you could bring up on the right-hand side of the page  
 25 STH00000790009.

Page 34

1 Can I just ask you to look at this set of results.  
 2 Mr Barham said that he was responsible for the 18:00  
 3 entry and the 19:00 entry?  
 4 **A. Yes, he did.**  
 5 Q. Is that your handwriting for the untimed entry?  
 6 **A. It isn't, no. I don't recognise that.**  
 7 Q. So you can't help us with when that was?  
 8 **A. I'm sorry, I can't.**  
 9 Q. Sorry to switch you back -- I realise I'm juggling you  
 10 about a little -- could we go back to the nursing  
 11 records. You have then written "nebuliser".  
 12 **A. I have.**  
 13 Q. That, again, is accurate, we know from Mr Barham's note,  
 14 because he has recorded -- we probably don't need to  
 15 bring this up -- "Bronchospasm. Start terbutaline", ie,  
 16 start the nebuliser?  
 17 **A. Yes.**  
 18 Q. Presumably, that was a process that took at least  
 19 a little time to identify this as a problem, to get the  
 20 nebuliser, to try the nebuliser, to see whether or not  
 21 it was having some form of effect?  
 22 **A. That would have been a first line, to try and achieve**  
 23 **better oxygenation. Drugs like that are readily**  
 24 **available on intensive care. I wouldn't have had to go**  
 25 **and fetch them from anywhere, they would have been in**

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1 **the drawers at the bedside, along with the kit to**  
 2 **deliver the nebuliser. It would have been immediate.**  
 3 **Whilst I was starting that nebuliser the process of**  
 4 **assessment by the doctor would have been taking place.**  
 5 **It would have been a continuous process.**  
 6 Q. Then we come to possibly the key three lines in this  
 7 nursing record:  
 8 "Clinically bilateral pneumothoraces."  
 9 **A. Yes.**  
 10 Q. This is what you have written, and apparently in  
 11 chronological order:  
 12 "Confirmed on X-ray."  
 13 Ie, it would appear, on the face of your record,  
 14 that that is the next event:  
 15 "Bilateral chest drains inserted. Immediate  
 16 improvement in colour and ABGs."  
 17 **A. That is what I've written.**  
 18 Q. You're writing this note within three hours of this  
 19 incident, approximately, when you get to RHH. The same  
 20 evening. How could you possibly make an error -- you  
 21 have said frankly today, "Well, it was clearly written  
 22 in error" -- how could you, frankly, make an error like  
 23 that just three hours after the event?  
 24 **A. I just think I've got the chronology wrong and I'm**  
 25 **talking about the X-ray that was taken after the drains**

Page 36

1 **were inserted. I don't remember if an X-ray was taken.**  
 2 **What I do remember is the very short space of time we**  
 3 **took to treat Tony with the chest drains, and we**  
 4 **wouldn't have had time.**  
 5 Q. Isn't it because if X-rays had been taken, you would  
 6 have taken quite a considerable period of time to do  
 7 that, and, therefore, Tony would have been exposed to  
 8 this period of hypoxia for longer than he ought to have  
 9 been. Is that not what is guiding your suggestion that  
 10 this was clearly written in error?  
 11 **A. I don't believe so. I believe, if we had have waited**  
 12 **for an X-ray with the situation as it was, Tony would**  
 13 **have deteriorated far more rapidly and would have**  
 14 **suffered a cardiac arrest. You've got a bilateral**  
 15 **tension pneumothorax. If we'd have waited the**  
 16 **20 minutes or longer that it may have taken to get**  
 17 **a portable X-ray, he would have arrested. He would have**  
 18 **deteriorated far greater.**  
 19 Q. You're a very experienced nurse now, aren't you?  
 20 **A. I am now, yes.**  
 21 Q. You were really quite a junior nurse at the time?  
 22 **A. I was.**  
 23 Q. Mr Barham was really quite a junior doctor?  
 24 **A. He was, but neither of us were alone in our actions.**  
 25 **There were senior doctors and senior nurses present at**  
 Page 37

1 **the time.**  
 2 Q. None of whom have made notes of what happened?  
 3 **A. I can't --**  
 4 Q. Of them being involved in what happened?  
 5 **A. I can't account for why senior doctors didn't write**  
 6 **a summary. But so far as intensive care nursing is**  
 7 **concerned, I was the primary nurse for Tony. Therefore,**  
 8 **I was responsible for writing those notes. Nobody else**  
 9 **would have got involved with that. We clearly did**  
 10 **record some observations at the time, they were present,**  
 11 **but they wouldn't have written the notes. It's routine**  
 12 **practice for the nurse caring for the patient to write**  
 13 **those. In addition to that, I was the only nurse at the**  
 14 **Hallamshire with him.**  
 15 Q. What I am suggesting to you is, isn't it really likely  
 16 to be the case that this near contemporaneous note that  
 17 you wrote that very same evening is much more likely to  
 18 be accurate than your memory is now?  
 19 **A. I accept what you are saying, but the period of his**  
 20 **deterioration is one of the things that I can remember**  
 21 **well. I can remember when he came through the door, and**  
 22 **I can remember this period of deterioration clearly.**  
 23 **I also know, if we'd have left him 20 minutes, he**  
 24 **wouldn't have survived.**  
 25 MR BROWN: Mrs Barlow, thank you very much. I have no  
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1 further questions.  
 2 Examination by MR MYLONAS  
 3 MR MYLONAS: Mrs Barlow, my name is Michael Mylonas. I act  
 4 for the hospitals. I have three areas to ask you short  
 5 questions about.  
 6 Firstly, there was reference to continuous  
 7 monitoring, which might have suggested there was  
 8 continuous monitoring by machinery. On the ICU, how  
 9 many patients did you have oversight for on that day?  
 10 **A. On that day, only Tony.**  
 11 Q. When you have responsibility for a patient on the ICU,  
 12 how much of your time is spent by the patient and how  
 13 much of your time is spent elsewhere on the ward?  
 14 **A. With the exception of going to fetch the kits to put the**  
 15 **central line in and the chest drains, which was in the**  
 16 **same room, I was there all of the time.**  
 17 Q. So in terms of responding to any deterioration, can we  
 18 assume that any response would be immediately the  
 19 deterioration is noticed?  
 20 **A. Yes.**  
 21 Q. Secondly, as to blood pressure monitoring, is that  
 22 instantaneous or is that something that you have to take  
 23 a cuff out and monitor each time?  
 24 **A. No. Once there's an arterial line inserted, you have**  
 25 **a continuous readout of the patient's blood pressure.**  
 Page 39

1 **The ones prior to the arterial line would have been**  
 2 **recorded on a cuff. But once it was in, continuous.**  
 3 Q. We know you have recorded a fair amount of detail --  
 4 blood pressure, heart rate, and so on. There is no  
 5 suggestion that his blood pressure dropped to  
 6 a concerning level as a result of the deterioration that  
 7 you have documented?  
 8 **A. I think it dropped to just above 100, from what**  
 9 **I remember of the observation chart, which, again, is**  
 10 **lower than it had been but it's within a normal range.**  
 11 THE CORONER: I think that's correct, isn't it, on the  
 12 observation chart?  
 13 MR MYLONAS: It is. It is 100/50, I think.  
 14 The final issue: the suggestion being put to you by  
 15 Mr Brown, just so we are entirely clear about this, is  
 16 that, having noticed this deterioration in Tony, you and  
 17 the doctors around you would have waited I think up to  
 18 about 20 minutes for an X-ray to be carried out before  
 19 you resuscitated him. Even as a junior doctor [sic],  
 20 how likely do you think you would have been to wait for  
 21 that period of time before responding to that sort of  
 22 emergency?  
 23 **A. We would respond immediately.**  
 24 MR MYLONAS: Thank you very much.  
 25  
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<p>1 Examination by MS LAMBERT</p> <p>2 MS LAMBERT: Just one point, Mrs Barlow, concerning your</p> <p>3 note and the error that you have very candidly accepted</p> <p>4 that you made in your note concerning clinical bilateral</p> <p>5 pneumothoraces confirmed on X-ray. What we were told by</p> <p>6 Mr Barham on Friday is that that lung problem was in</p> <p>7 fact confirmed by needles being inserted into Tony's</p> <p>8 chest.</p> <p>9 <b>A. That is the way that it would normally be diagnosed.</b></p> <p>10 <b>I don't remember that happening, but yes.</b></p> <p>11 Q. Do you think it is possible that when you came to make</p> <p>12 up your notes sometime later, you recollected that there</p> <p>13 was some clinical confirmation of the existence of this</p> <p>14 lung problem before the chest drains were inserted; what</p> <p>15 you have got wrong is the fact that that was done with</p> <p>16 an X-ray as opposed to with the needles?</p> <p>17 <b>A. I think that's possible, yes.</b></p> <p>18 MS LAMBERT: Mrs Barlow, thank you very much, indeed. No</p> <p>19 further questions from me.</p> <p>20 THE CORONER: Thank you, Mrs Barlow.</p> <p>21 (The witness withdrew)</p> <p>22 MS LAMBERT: May I call, please, Dr Jerry Stock. Tab 106.</p> <p>23 DR JEREMY GUY LOUIS STOCK (sworn)</p> <p>24</p> <p>25</p> <p style="text-align: center;">Page 41</p>	<p>1 <b>A. Yes.</b></p> <p>2 Q. They are, sir, behind tab 2 of our bundle, immediately</p> <p>3 following Mr Barham's notes. There are two pages, or</p> <p>4 just over two pages of notes.</p> <p>5 Dr Stock, they will come up on your screen.</p> <p>6 <b>A. Okay, thank you.</b></p> <p>7 Q. INQ000103860008. If we could maximise the handwritten</p> <p>8 entry. I would just like to take you to some parts of</p> <p>9 this note, Dr Stock, if I may --</p> <p>10 <b>A. Okay.</b></p> <p>11 Q. -- and ask you, first of all, to confirm they are in</p> <p>12 your handwriting?</p> <p>13 <b>A. That is correct.</b></p> <p>14 Q. We see your signature at the bottom right-hand side of</p> <p>15 the screen; is that right?</p> <p>16 <b>A. Correct.</b></p> <p>17 Q. The timing of this note is half past 7.</p> <p>18 <b>A. Yes.</b></p> <p>19 Q. Would that have been the time that you started making</p> <p>20 the note?</p> <p>21 <b>A. With regard to this note, yes. I believe it would have</b></p> <p>22 <b>been.</b></p> <p>23 Q. "Discussion with D/W neurosurgical registrar."</p> <p>24 Is that referring to a discussion with</p> <p>25 a neurosurgeon at a different hospital?</p> <p style="text-align: center;">Page 43</p>
<p>1 Examination by MS LAMBERT</p> <p>2 MS LAMBERT: Can I ask you to confirm for me that you are</p> <p>3 Jeremy Guy Louis Stock; is that correct?</p> <p>4 <b>A. Correct.</b></p> <p>5 Q. Dr Stock, you were, in 1989, a consultant anaesthetist</p> <p>6 at the Sheffield Area Health Authority; is that correct?</p> <p>7 <b>A. It's correct.</b></p> <p>8 Q. On 15 April 1989, were you working at the Northern</p> <p>9 General Hospital?</p> <p>10 <b>A. Yes. I had responsibilities as a consultant in the</b></p> <p>11 <b>Northern General and at the Royal Hallamshire Hospitals.</b></p> <p>12 Q. During the course of the afternoon of 15 April, were you</p> <p>13 at the Northern General?</p> <p>14 <b>A. I did attend. I wasn't on duty. I wasn't on call. But</b></p> <p>15 <b>I, at some point, became aware of the disaster that had</b></p> <p>16 <b>occurred and I went in spontaneously, because I felt</b></p> <p>17 <b>that I could be of assistance.</b></p> <p>18 Q. Did you go to the cardiac intensive care unit?</p> <p>19 <b>A. I have -- I'm afraid I have no clear recollection of</b></p> <p>20 <b>what time I attended the hospital or where I went. But</b></p> <p>21 <b>I believe that I went to the cardiac intensive care</b></p> <p>22 <b>unit.</b></p> <p>23 Q. Dr Stock, can I ask you -- you will appreciate the</p> <p>24 form -- to go to the notes that you made concerning</p> <p>25 Tony Bland.</p> <p style="text-align: center;">Page 42</p>	<p>1 <b>A. It is.</b></p> <p>2 Q. Is that the neurosurgical oncall team at the Royal</p> <p>3 Hallamshire Hospital?</p> <p>4 <b>A. It is.</b></p> <p>5 Q. "Clinically hypoxic brain injury. Requires scan to</p> <p>6 exclude focal lesion. Will arrange scan. Ambulance</p> <p>7 booked. Unless he requires neurosurgery to transfer</p> <p>8 back to the CICU at Northern General Hospital."</p> <p>9 <b>A. Yes, that's what I wrote.</b></p> <p>10 Q. So you have a discussion with the neurosurgical</p> <p>11 registrar on call at the Royal Hallamshire Hospital and</p> <p>12 describe your impression of the existence of a brain</p> <p>13 injury caused by oxygen deprivation?</p> <p>14 <b>A. That is correct. That was the presumption at this time.</b></p> <p>15 Q. After discussion with the neurosurgeon, requires some</p> <p>16 imaging of his brain, a scan, to exclude -- now, you say</p> <p>17 a focal lesion. Is that --</p> <p>18 <b>A. Yes -- sorry, I beg your pardon.</b></p> <p>19 Q. Well, you tell us in a sentence what a focal lesion is?</p> <p>20 <b>A. Well, in this context, we want -- it would be necessary</b></p> <p>21 <b>to exclude, for example, any evidence of brain or head</b></p> <p>22 <b>trauma or an intracranial or cerebral bleed.</b></p> <p>23 Q. Are you referring there to some injury to the brain in</p> <p>24 a specific part of the brain?</p> <p>25 <b>A. Yes.</b></p> <p style="text-align: center;">Page 44</p>

<p>1 Q. "Will arrange scan", that's the neurosurgical registrar 2 will arrange the scan? 3 <b>A. Yes.</b> 4 Q. And an ambulance is booked. There were no scanning 5 facilities at the Northern General Hospital at the time, 6 hence the need for his transfer to the 7 Royal Hallamshire? 8 <b>A. That's absolutely correct. At that time, there was no 9 such scanner available in the Northern General Hospital, 10 so it was necessary to transfer Tony in order that he 11 could have that radiological procedure.</b> 12 Q. So he was being transferred so that an imaging procedure 13 could be performed on his brain, and the intention was 14 that, if he needed neurosurgery, he would stay at the 15 Royal Hallamshire; if he didn't, he would come back to 16 the Northern General? 17 <b>A. I don't recollect that in any detail, but that's what 18 I wrote at the time, so that would have been the 19 discussion.</b> 20 Q. You then go on to describe Tony's condition at the time. 21 He was on a ventilator, and the chest drains which we 22 know were inserted by Mr Barham to drain off the air so 23 that the lungs could re-expand were still in place? 24 <b>A. Yes.</b> 25 Q. You also describe that Tony's oxygenation or the oxygen Page 45</p>	<p>1 You start off with his history in ward 60: 2 "Initial presentation - semi-conscious, breathing 3 spontaneously, moving all limbs, good circulation." 4 Then a reference to his CNS, his central nervous 5 system, "at that time pupils small and equal", an 6 increase in the tone of his muscles, moving limbs but in 7 a non-purposeful way? 8 <b>A. That is what I have written, yes.</b> 9 Q. Clearly, your description of his condition in ward 60 10 troubling? 11 <b>A. Yes.</b> 12 Q. Semi-conscious. An increase in the tone of his muscles, 13 which is not a good thing? 14 <b>A. No, that he was, yes, semi-conscious -- I have written 15 semi-conscious, you know, unconscious and not making any 16 purposeful response, and an increase in muscle tone 17 would all be, yes, worrying signs from the point of view 18 of brain function.</b> 19 Q. You then go on to describe his deterioration in ward 60? 20 <b>A. I've summarised it, yes.</b> 21 Q. "Deterioration in respiration over 5-10 minutes. 22 Reviewed by thoracic surgeons. ? Pneumothorax - needle 23 aspiration both sides" -- is that right? -- 24 "Mid axillary area, NAD [no abnormality detected]. 25 Clinically inadequate respiration, therefore intubated." Page 47</p>
<p>1 content in his blood was reasonable? 2 <b>A. Yes. I described the blood gases on 100 per cent oxygen 3 at 19:00 hours, and that the oxygen level -- they were 4 sufficiently good that it was acceptable to reduce 5 the -- "FiO2" is a medical abbreviation for inspired 6 oxygen, so it was reduced from 100 to 50 per cent, 0.5.</b> 7 Q. Moving on then to suffix 9, please, is this right, you 8 then wrote a short summary to go with Tony so that the 9 doctors at the Royal Hallamshire Hospital have an 10 understanding of the relevant parts of his history? 11 <b>A. Yes. I should point out that I don't recall with any 12 clarity writing that note. But on reading it numerous 13 times since July of this year -- I should point out that 14 I hadn't seen this note for 26 years -- but on reading 15 it and re-reading it, it is clear to me that it is 16 written by me, most certainly, and it is a summary note 17 for the purposes of informing the team at the receiving 18 hospital of a summary of what had occurred.</b> 19 Q. So it is a summary note of his clinical history at the 20 hospital? 21 <b>A. It is.</b> 22 Q. Written by you? 23 <b>A. Correct.</b> 24 Q. You write: 25 "Summary of presentation/treatment." Page 46</p>	<p>1 Were you present on ward 60 when this procedure was 2 performed? 3 <b>A. I'm sorry, I don't recall. I have no memory that I was 4 present at that time.</b> 5 Q. If you weren't present on ward 60 when Tony's condition 6 deteriorated, how would you have come by this 7 information? 8 <b>A. I would have to have taken this information from talking 9 to anaesthetic and non-anaesthetic colleagues who were 10 present. But I'm afraid I have no memory of those 11 discussions.</b> 12 Q. So you can't help us as to whether or not you were there 13 on ward 60 and this came from your own knowledge, but if 14 you weren't there, you would have spoken to somebody and 15 obtained this account? 16 <b>A. Yes. I had no spontaneous recollection of attending 17 Tony in ward 60, and even re-reading the notes many, 18 many times, I still retain -- I still have no such 19 memory, so I cannot say that I was present.</b> 20 Q. Any corrections that you would wish to make to that 21 note? 22 <b>A. As I don't recall being there and I don't recall making 23 the note, there are no corrections that I would offer, 24 no.</b> 25 Q. Then you go on to describe in your note how the Page 48</p>

12 (Pages 45 to 48)

<p>1 intubation was performed --</p> <p>2 <b>A. Yes.</b></p> <p>3 Q. -- with a particular form of tube.</p> <p>4 <b>A. Yes.</b></p> <p>5 Q. The fact that there was no relaxant and no drugs given,</p> <p>6 no time to get them drawn up:</p> <p>7 "Good colour. Initial gases good. Circulation good</p> <p>8 throughout. No hypotension", no drop in blood pressure?</p> <p>9 <b>A. Yes.</b></p> <p>10 Q. Then you refer to the X-ray in A&amp;E?</p> <p>11 <b>A. Yes.</b></p> <p>12 Q. Again, we are on ward 60. You describe, either through</p> <p>13 your own involvement or through speaking with others,</p> <p>14 that there had been an intubation in ward 60, obviously</p> <p>15 as a matter of urgency, because no muscle relaxant had</p> <p>16 been used?</p> <p>17 <b>A. That's correct. I feel that I would have documented</b></p> <p>18 <b>that because it was unusual to have intubated without</b></p> <p>19 <b>the use of muscle relaxant and a small -- probably</b></p> <p>20 <b>a small dose of a hypnotic or sedative drug as well,</b></p> <p>21 <b>which indicated to me that there was a degree of</b></p> <p>22 <b>urgency, and I think that's something that I would have</b></p> <p>23 <b>wanted to convey in the summary.</b></p> <p>24 Q. The reason why you might want to use drugs to sedate</p> <p>25 Tony is because there may have been some residual airway</p> <p style="text-align: center;">Page 49</p>	<p>1 Tony's condition over a period of up to 10 minutes. It</p> <p>2 was recognised. The thoracic surgeons came to view him</p> <p>3 and review Tony. The possibility of this problem with</p> <p>4 the lungs was raised. Tony was then intubated as</p> <p>5 a matter of emergency, but overall circulation was</p> <p>6 maintained throughout and there was no drop in his blood</p> <p>7 pressure.</p> <p>8 <b>A. I must emphasise that I don't have clear recollections</b></p> <p>9 <b>of all of those points, but that's exactly as I've</b></p> <p>10 <b>summarised it, yes.</b></p> <p>11 Q. So although a worrying event, nonetheless in terms of</p> <p>12 Tony's condition, you're suggesting that his circulation</p> <p>13 was maintained throughout?</p> <p>14 <b>A. Yes.</b></p> <p>15 Q. I am not going to ask you about the X-rays in A&amp;E. You</p> <p>16 then describe "Transfer to the CICU"?</p> <p>17 <b>A. Yes.</b></p> <p>18 Q. And the insertion of the -- Jyo, can I just ask you to</p> <p>19 maximise the bottom half of the page, because it is --</p> <p>20 I hope you will agree with me, Dr Stock, not your fault,</p> <p>21 but because of the photocopies that we are all working</p> <p>22 from, it is quite difficult to read?</p> <p>23 <b>A. Yes.</b></p> <p>24 Q. "Transfer to CICU."</p> <p>25 Reference to an NG tube, a nasogastric tube. What's</p> <p style="text-align: center;">Page 51</p>
<p>1 reflexes which, if they'd been triggered, would have</p> <p>2 made intubation difficult?</p> <p>3 <b>A. Yes, that's correct. The use of a muscle relaxant would</b></p> <p>4 <b>be normal, and actually intubation could be very tricky</b></p> <p>5 <b>without it and could have led to a serious problem. One</b></p> <p>6 <b>would normally give a small -- even in an unconscious</b></p> <p>7 <b>patient, a small dose of a hypnotic or sedative to</b></p> <p>8 <b>prevent a -- or to help minimise a rise in blood</b></p> <p>9 <b>pressure on passing the endotracheal tube.</b></p> <p>10 Q. Could we draw any conclusions from the fact that no</p> <p>11 muscle relaxant was used as to the person who performed</p> <p>12 this intubation? Let me be perhaps more precise: given</p> <p>13 that no relaxant was used because there was no time,</p> <p>14 would you have expected this procedure to have been done</p> <p>15 by an anaesthetist, rather than a more general</p> <p>16 surgeon --</p> <p>17 <b>A. Yes.</b></p> <p>18 Q. -- than a surgeon?</p> <p>19 <b>A. In inexperienced hands -- it is a procedure which</b></p> <p>20 <b>requires a good deal of skill, and I would feel sure</b></p> <p>21 <b>that it would have been done by an anaesthetist.</b></p> <p>22 Q. Then:</p> <p>23 "God colour. Initial gases good. Circulation good</p> <p>24 throughout. No hypotension."</p> <p>25 The suggestion is that there was a deterioration in</p> <p style="text-align: center;">Page 50</p>	<p>1 the purpose of that?</p> <p>2 <b>A. That would be standard in a patient to --</b></p> <p>3 Q. What's the purpose?</p> <p>4 <b>A. The purpose is to allow emptying of the stomach</b></p> <p>5 <b>contents, draining of the stomach contents.</b></p> <p>6 Q. Is that something different from the aspiration we heard</p> <p>7 referred to by Mrs Barlow a moment ago?</p> <p>8 <b>A. Yes, it is. I believe that was referring to aspiration</b></p> <p>9 <b>of the endotracheal tube, that's the tube in the</b></p> <p>10 <b>windpipe. This is a tube passed --</b></p> <p>11 Q. Through the nose?</p> <p>12 <b>A. -- through the gullet into the stomach.</b></p> <p>13 Q. Then you go on:</p> <p>14 "Right internal jugular CVP."</p> <p>15 <b>A. Yes.</b></p> <p>16 Q. So there is an "R" with a circle around it, "internal</p> <p>17 jugular CVP", central venous pressure line?</p> <p>18 <b>A. Yes.</b></p> <p>19 Q. Again, we heard that referred to by Mr Barham on Friday</p> <p>20 and again, obviously, by Mrs Barlow this morning, a line</p> <p>21 that is inserted to facilitate measurements of vital</p> <p>22 signs?</p> <p>23 <b>A. Yes.</b></p> <p>24 Q. In part?</p> <p>25 <b>A. In part, yes.</b></p> <p style="text-align: center;">Page 52</p>

13 (Pages 49 to 52)

<p>1 Q. Then you go on to write: 2 "NM block." 3 That is right? 4 <b>A. Yes, that stands for neuromuscular. It is an 5 abbreviation I would use, personally, regularly and 6 implies the use of a muscle relaxant drug.</b> 7 Q. For the purposes of the insertion of the central venous 8 pressure line? 9 <b>A. No, no, there is a confusion there. That is not 10 required for the insertion of the jugular line; it is 11 required to help control ventilation.</b> 12 Q. You then refer to sedation? 13 <b>A. Yes.</b> 14 Q. There are lots of drugs that you refer to on the 15 right-hand side of the page. I'm not going to take you 16 through those. 17 <b>A. Right.</b> 18 Q. Others may do so, but I am not going to do so. Then you 19 say this: 20 "Immediately" -- is it "post jugular line"? 21 <b>A. Yes, "Immediately post jugular line insertion ..."</b> 22 Q. "... colour deteriorates"? 23 <b>A. Yes.</b> 24 Q. That's the arrow down? 25 <b>A. Yes.</b></p> <p style="text-align: center;">Page 53</p>	<p>1 tissue being compressed: 2 "Both sides chest drains with immediate relief." 3 <b>A. Yes.</b> 4 Q. "Blood gases just before chest drainage." 5 Then there is a couple of words that I've always had 6 difficulty in reading. 7 <b>A. Yes. It is unclear, particularly on the photocopy. 8 What the note actually says -- it says "NB" and two 9 underlines. I forget what the Latin stands for, but 10 "note well", and that refers to the remaining three 11 lines.</b> 12 THE CORONER: NB, is it? 13 <b>A. Yes.</b> 14 THE CORONER: Nota bene. 15 <b>A. Nota bene, yes, sorry.</b> 16 MS LAMBERT: "[Something] okay"? 17 <b>A. Yes. So it then reads: 18 "Blood gases just before chest drainage were okay", 19 full stop.</b> 20 Q. "Were okay"? 21 <b>A. Yes: 22 "Hypoxic insult at this time was extremely brief and 23 there was no hypotension." 24 That's no low blood pressure.</b> 25 Q. Then you go on over the page to describe further</p> <p style="text-align: center;">Page 55</p>
<p>1 Q. So he turns blue? 2 <b>A. That's what I've recorded.</b> 3 Q. Then there is an arrow going upwards? 4 <b>A. Yes.</b> 5 Q. What are the two words after that? 6 <b>A. It says "Inflation", "infl" with a little N. That's my 7 abbreviation for inflation. "Increased inflation 8 pressure". This would refer to the increased pressure 9 required for the ventilator.</b> 10 Q. That's what Mr Barham was talking about on Friday where, 11 when he realised there was a problem with Tony, he 12 adjusted the controls -- 13 <b>A. Yes.</b> 14 Q. -- or the values on the ventilator? 15 <b>A. Correct.</b> 16 Q. "Wheeze on expiration". Is that correct? 17 <b>A. Yes.</b> 18 Q. "Wheeze on exp ..."? 19 <b>A. Yes, "Expirn", expiration, abbreviation again.</b> 20 Q. Then we have the little triangle. Does that mean 21 diagnosis? 22 <b>A. Yes, for me that means diagnosis.</b> 23 Q. "[Both sides] bilateral pneumothoraces under tension"? 24 <b>A. Yes.</b> 25 Q. So again, on both sides, that problem with the lung</p> <p style="text-align: center;">Page 54</p>	<p>1 management and I don't need to take you to that. So you 2 are describing there that event in the CICU that we 3 discussed with Mr Barham and Mrs Barlow over the course 4 of today and on Friday. 5 Were you present during this event in the CICU? 6 <b>A. I'm sorry, I have no clear recollection of that. 7 I cannot say with any certainty that I was or that 8 I wasn't.</b> 9 Q. So far as you were aware, were you involved in the 10 insertion of the chest drains or giving any instructions 11 to anyone? 12 <b>A. I don't believe I was. In my practice -- I'd been 13 a consultant for a little over three years by then. 14 I wasn't involved in cardiothoracic work or intensive 15 care. I wasn't used to putting in chest drains. I had 16 done them as a trainee. I think it is very unlikely 17 that, if I was present, I would have done them because 18 there were people there who would have been able to do 19 it more quickly. But I have no recollection of being 20 there when the chest drains were inserted.</b> 21 Q. But the key lines are: 22 "Hypoxic insult at this time was extremely brief and 23 there was no hypotension." 24 Let's assume for a moment that you weren't there. 25 What would have been the basis or the source of that</p> <p style="text-align: center;">Page 56</p>

14 (Pages 53 to 56)

<p>1 information?</p> <p>2 <b>A. The source of the information would have been discussion</b></p> <p>3 <b>with those who were there. I would have had an</b></p> <p>4 <b>opportunity to speak to Carol Barlow, the nurse who was</b></p> <p>5 <b>attending Tony continuously, and any other doctors who</b></p> <p>6 <b>had been involved specifically. Mr Barham clearly was,</b></p> <p>7 <b>by his own acceptance.</b></p> <p>8 Q. Would you have considered it necessary, in making this</p> <p>9 note for transfer, to speak to those who were involved</p> <p>10 in this event in CICU?</p> <p>11 <b>A. I would certainly have spoken to the intensive care</b></p> <p>12 <b>nurse involved, because she was the person who would</b></p> <p>13 <b>have been there continuously.</b></p> <p>14 Q. So possibly not Mr Barham, but certainly Mrs Barlow?</p> <p>15 <b>A. I would accept that -- I believe that in my practice</b></p> <p>16 <b>I would have spoken to both, but I am quite certain that</b></p> <p>17 <b>I would have spoken with the attending nurse.</b></p> <p>18 Q. The reason why I ask you about the source of that</p> <p>19 information is this: because if one looks at the</p> <p>20 records, one wouldn't have been able, necessarily, to</p> <p>21 draw that conclusion, would one?</p> <p>22 <b>A. I would accept that.</b></p> <p>23 Q. I'm not going to take you to the charts and to the other</p> <p>24 documents that we have looked at, but you would accept</p> <p>25 that, looking at those charts, one wouldn't have been</p> <p style="text-align: center;">Page 57</p>	<p>1 there to events on ward 60 or events on the CICU?</p> <p>2 <b>A. I have no clear recollection of where that piece of</b></p> <p>3 <b>information -- you know, the source of that piece of</b></p> <p>4 <b>information. It is more likely that it was observed on</b></p> <p>5 <b>ward 60, in my opinion. It's the sort of thing that an</b></p> <p>6 <b>anaesthetist might have observed at the time of</b></p> <p>7 <b>intubation, but that is my speculation.</b></p> <p>8 Q. Just one or two further points from me, Dr Stock. We</p> <p>9 can take the note off the screen.</p> <p>10 Dr Stock, we heard from Mrs Barlow that the CICU was</p> <p>11 not oversubscribed, it was not busy that afternoon?</p> <p>12 <b>A. Yes, I heard.</b></p> <p>13 Q. Is that something that you are able to confirm from your</p> <p>14 own recollection, or not?</p> <p>15 <b>A. I don't have a clear recollection of that. I'm not able</b></p> <p>16 <b>to confirm that or disagree with it.</b></p> <p>17 Q. If that is right, there would have been no reason why</p> <p>18 Tony could not have been transferred straight from the</p> <p>19 A&amp;E department to CICU? If that is right.</p> <p>20 <b>A. Yes, if that is correct, there is no reason.</b></p> <p>21 Q. Thinking back to practices in 1989 -- and I am asking</p> <p>22 you this question because you are an anaesthetist --</p> <p>23 with a patient who was deeply unconscious, not</p> <p>24 responsive to painful stimuli, and who had laboured</p> <p>25 breathing + +, albeit spontaneous, would you have</p> <p style="text-align: center;">Page 59</p>
<p>1 able to gauge that that period of hypoxia was very</p> <p>2 brief?</p> <p>3 <b>A. I would accept that.</b></p> <p>4 Q. So it must have come from -- if you weren't there -- one</p> <p>5 of those people who were there. Would that be fair?</p> <p>6 <b>A. Yes, that's my view.</b></p> <p>7 Q. If the hypoxic insult had been rather more than brief,</p> <p>8 and if in your judgment it may have led to a period,</p> <p>9 a significant period, of reduced brain oxygenation,</p> <p>10 would you have recorded that in this transfer note?</p> <p>11 <b>A. If I'd been made aware in any way of a longer period of</b></p> <p>12 <b>instability and possible -- possibly hypoxia, yes,</b></p> <p>13 <b>I certainly would have recorded it.</b></p> <p>14 Q. Dr Stock, just continuing your note, suffix 10, and to</p> <p>15 look at the final paragraph of this note, if we may,</p> <p>16 "Imp", is that impression?</p> <p>17 <b>A. Yes, clinical impression.</b></p> <p>18 Q. Clinical impression prior to transfer:</p> <p>19 "Hypoxic brain injury.</p> <p>20 "Chest injury - [both sides] bilateral</p> <p>21 pneumothoraces.</p> <p>22 "Possible aspiration. Thick secretions and food</p> <p>23 noted in pharynx.</p> <p>24 "Bruising in left arm."</p> <p>25 The reference to possible aspiration, referring</p> <p style="text-align: center;">Page 58</p>	<p>1 expected such a patient, absent an emergency situation,</p> <p>2 to have been intubated and ventilated and taken to CICU?</p> <p>3 <b>A. I would have expected the patient to be intubated and</b></p> <p>4 <b>ventilated. They wouldn't necessarily have to have gone</b></p> <p>5 <b>to the cardiac intensive care unit, because there was</b></p> <p>6 <b>a general intensive care unit as well. I have no</b></p> <p>7 <b>recollection as to whether that was full at the time.</b></p> <p>8 <b>The cardiac intensive care unit was a unit that</b></p> <p>9 <b>existed really for patients who'd undergone elective and</b></p> <p>10 <b>emergency cardiothoracic surgery, so it was a second</b></p> <p>11 <b>such unit in the hospital, slightly unusual --</b></p> <p>12 Q. If that unit wasn't busy, it would have been a safe</p> <p>13 haven for Tony to be cared for and intubated and</p> <p>14 ventilated and monitored?</p> <p>15 <b>A. Yes.</b></p> <p>16 Q. In 1989, as I say, absent emergency circumstances, you</p> <p>17 would have expected somebody in Tony's condition on</p> <p>18 admission to be taken there or in the event that the</p> <p>19 other ITU was not available?</p> <p>20 <b>A. I would have expected it, but it would be contingent on</b></p> <p>21 <b>the patient having been reviewed by an anaesthetist.</b></p> <p>22 <b>It's not the sort of decision that would have been made</b></p> <p>23 <b>without an anaesthetic review. The patient would have</b></p> <p>24 <b>probably needed to be intubated -- in fact, I would say</b></p> <p>25 <b>they would have needed to be intubated and controlled</b></p> <p style="text-align: center;">Page 60</p>

15 (Pages 57 to 60)

1 **ventilation commenced before transfer, for safety**  
 2 **reasons, and it's clear to me, after hearing some of**  
 3 **the evidence on Friday, that the situation before**  
 4 **I arrived at the hospital was extremely unusual. I'm**  
 5 **not clear in my mind at what point an anaesthetist saw**  
 6 **Tony.**  
 7 Q. Again, setting aside the emergency context for a moment,  
 8 an anaesthetist should have been called to see Tony in  
 9 A&E?  
 10 **A. That's what I would have expected.**  
 11 Q. If, for whatever reason, Tony had found his way to  
 12 ward 60, there should have been an instruction for an  
 13 anaesthetic review on ward 60?  
 14 **A. Yes.**  
 15 Q. With a view to intubation and ventilation?  
 16 **A. Yes.**  
 17 Q. What time did you arrive in the hospital?  
 18 **A. I'm afraid I don't have any clear recollection of that**  
 19 **at all. I know that it was -- it has to have been later**  
 20 **in the afternoon, but beyond that -- you know, I think**  
 21 **it may have been late afternoon/early evening, but**  
 22 **that's just a very vague impression, I'm sorry.**  
 23 Q. You wouldn't have expected in 1989 a casualty such as  
 24 Tony to have been simply given 15-minute neurological  
 25 observations?

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1 **A. Could you clarify that for me? In the intensive care**  
 2 **unit or --**  
 3 Q. No, sorry, my fault. On ward 60.  
 4 **A. No, I don't think I would, no.**  
 5 Q. Dr Stock, one other thing: so far as you can remember,  
 6 was there pulse oximetry available on the CICU?  
 7 **A. I have tried very hard to remember that fact. I didn't**  
 8 **work in the cardiac intensive care unit regularly, so**  
 9 **it's difficult -- I'm trying to remember whether --**  
 10 Q. If you don't know --  
 11 **A. I don't know, but I do know we didn't have it widely**  
 12 **available in all locations in the hospital at that time.**  
 13 MS LAMBERT: Dr Stock, thank you very much, indeed.  
 14 Examination by MR BROWN  
 15 MR BROWN: Good morning, Dr Stock. My name is Nick Brown  
 16 and I'm asking questions on behalf of Tony's family.  
 17 The first matter I wanted to ask you about was, when  
 18 you were making the sort of summary of Tony's  
 19 presentation and treatment at the Northern General  
 20 Hospital in preparation for his transfer, to what extent  
 21 did you rely on look at the existing medical records  
 22 that were available for Tony at that time, or to what  
 23 extent did you rely on word of mouth, what you were  
 24 told?  
 25 THE CORONER: It depends what he can remember, doesn't it,

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1 Mr Brown?  
 2 MR BROWN: Well, can you help us with that?  
 3 **A. I can't help you, really, because I don't have any**  
 4 **substantial memory of my actions on that day. I don't**  
 5 **recall to what extent it was based on discussion and to**  
 6 **what extent it was done on reading the observations. So**  
 7 **I'm unclear, I'm sorry.**  
 8 Q. The reason I ask this initially is -- sorry, we got your  
 9 summary note. It is perhaps easiest to bring it up  
 10 immediately. INQ000103860009. Right at the top, the  
 11 first four or five lines, the top third of the page, if  
 12 we bring that up, you can see "In ward 60. Initial  
 13 presentation", and then you've written the word  
 14 "semi-conscious"?  
 15 **A. Yes, I have.**  
 16 Q. We know from all the medical evidence and medical  
 17 records that no-one suggested at any time during his  
 18 time at the Northern General Hospital that Tony was  
 19 anything other than unconscious, I think my learned  
 20 friend used the words "deeply unconscious", "not  
 21 responsive to painful stimuli". You can't help us  
 22 with --  
 23 **A. I can't help you. I think it is poor terminology on my**  
 24 **part. I am not in any way suggesting that I have any**  
 25 **recollection of Tony being -- I wasn't there, but**

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1 **I never heard any description of him being anything**  
 2 **other than unconscious.**  
 3 Q. You were a consultant back then, a consultant  
 4 anaesthetist?  
 5 **A. I was a consultant then, yes.**  
 6 Q. Is it really likely that it was a poor choice of  
 7 phraseology on your part or possibly the problems of  
 8 oral information being passed on from one person to  
 9 another, that what is reported is not necessarily  
 10 accurate?  
 11 **A. I can't exclude the fact that that may be incorrect.**  
 12 Q. Could we go down the page, Jyo, to about the middle  
 13 third, because I'm particularly interested in the  
 14 passage, "Circulation good throughout":  
 15 "Good colour (initial gases good).  
 16 "Circulation good throughout -- no hypotension."  
 17 This was your understanding of Tony's condition in  
 18 ward 60 after the period of respiratory compromise?  
 19 **A. Yes. That's a description of Tony's condition after the**  
 20 **intubation had been carried out.**  
 21 THE CORONER: In ward 60?  
 22 MR BROWN: In ward 60.  
 23 Who on earth would have been available to you to  
 24 give that information when you're writing -- if you're  
 25 writing this note some time after 7.30 in the CICU?

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1 **A. I'm quite clear in my mind that there were a number of**  
 2 **anaesthetists present in the hospital, and I'm sure that**  
 3 **I would have taken the opportunity to discuss it with**  
 4 **them. But I don't recall the names of any of**  
 5 **the individuals who were attending at the time.**  
 6 Q. Just focusing in on those words "no hypotension", can  
 7 I ask you to look at the observation chart, please,  
 8 which, Jyo, is at STH000000790010, and specifically  
 9 looking at the entry for 5.30 pm, because one of  
 10 the things we have got there is the blood pressure  
 11 doesn't seem to have been recorded, does it?  
 12 **A. No.**  
 13 Q. So, actually, at this crucial time, after this first  
 14 period of respiratory compromise, we have got no blood  
 15 pressure recorded?  
 16 **A. There's no recording of it.**  
 17 Q. There is a gap between the 5 o'clock entry and the 5.30  
 18 entry and the first recorded further blood pressure is  
 19 at 5.45; is that correct?  
 20 **A. Yes.**  
 21 Q. There is a gap throughout that 45-minute period?  
 22 **A. Yes. Part of that, from -- based on reading the other**  
 23 **notes that were written at the time, would be during**  
 24 **transfer from ward 60 to the cardiac intensive care**  
 25 **unit.**

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1 Q. Right. Which seems to have taken place at about 5.30?  
 2 **A. Yes.**  
 3 Q. But, I mean, is the truth of the matter that you really  
 4 have no idea as to the extent to which Tony's condition  
 5 deteriorated on ward 60?  
 6 **A. I have no memory of that --**  
 7 THE CORONER: Mr Brown, I think the position is clear. The  
 8 notes that Dr Stock made were made on the basis of what  
 9 he was told by one or more people.  
 10 MR BROWN: The difficulty is, you don't know the primary  
 11 facts at all.  
 12 THE CORONER: That's where we are.  
 13 MR BROWN: You have no idea about the primary facts, the  
 14 reliability of the information that was passed on to  
 15 you?  
 16 **A. No, but I have no reason to have doubted it.**  
 17 Q. Just looking at your note, crucially, you noted that  
 18 there was clinical inadequate respiration. But you  
 19 can't help us for how long that period was, except to  
 20 say that the manner in which Tony was intubated  
 21 suggested that this was a real emergency situation?  
 22 **A. It was certainly an urgent situation that required**  
 23 **a skilled anaesthetist to carry out an intubation.**  
 24 Q. So that you think that after the thoracic review  
 25 following a period of five to ten minutes'

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1 deterioration, and after they'd carried out this needle  
 2 aspiration procedure, another doctor would have to have  
 3 been found, probably a consultant anaesthetist?  
 4 **A. I can't say. I wasn't there and I don't have any**  
 5 **recollection.**  
 6 Q. You can't help us as to what the indications were for  
 7 suspecting a pneumothorax at that time?  
 8 **A. I can't say what was in the minds of the people who were**  
 9 **present at that time, but there was a suspicion of**  
 10 **fractured ribs. I know that was subsequently disproved.**  
 11 **But certainly, in that situation, one would have**  
 12 **a reduced threshold for suspecting pneumothorax.**  
 13 Q. You can't comment on whether or not they should have  
 14 suspected that the underlying problem here was that Tony  
 15 had aspirated some of his regurgitated stomach contents?  
 16 **A. Well, that's a possibility, and they may have been**  
 17 **thinking of both at the same time.**  
 18 THE CORONER: He can't take it any further, Mr Brown.  
 19 MR BROWN: I understand. Moving on to your note about what  
 20 happened on the CICU --  
 21 THE CORONER: Are you going to be very much longer, because  
 22 we ought to have the break? I am rather anxious to  
 23 complete Dr Stock's evidence, if at all possible.  
 24 MR BROWN: I will be a few more minutes.  
 25 THE CORONER: We will have our break, members of the jury.

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1 (11.53 am)  
 2 (A short break)  
 3 (12.06 pm)  
 4 THE CORONER: There is a question, Ms Lambert. There is no  
 5 reason why I can't read it out straight away. I think  
 6 it can undoubtedly be answered:  
 7 "Could intubation without appropriate relaxant drugs  
 8 have caused a gag reflex which might then have resulted  
 9 in the aspiration of stomach contents?"  
 10 MS LAMBERT: Professor Menon, I have no doubt, will be able  
 11 to deal with that question when he is called in a little  
 12 while.  
 13 THE CORONER: That's what I would have thought. Members of  
 14 the jury, the question will be answered --  
 15 Professor Menon is going to be giving some expert  
 16 evidence about all these topics. Perhaps this could be  
 17 copied and then copies provided.  
 18 MR BROWN: Mr Stock, moving on to the CICU and the period of  
 19 respiratory compromise that Tony suffered there, as we  
 20 understand it, we can effectively bookend the period  
 21 with Mr Barham's evidence interwoven with the  
 22 observation chart and Nurse Barlow's evidence, but at  
 23 the start is Mr Barham's evidence that there was some  
 24 deterioration when he took the blood gas results at  
 25 6 o'clock, because that's why he increased both the

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<p>1 percentage of oxygen and rate of ventilation at that</p> <p>2 stage, even though pO2 levels were normal.</p> <p>3 <b>A. Yes, I heard him say that.</b></p> <p>4 Q. At the other end, you have got his note written at about</p> <p>5 18:30, when he records his notes of the incident that</p> <p>6 took place?</p> <p>7 <b>A. Yes.</b></p> <p>8 Q. Then we have got Nurse Barlow's evidence, where she says</p> <p>9 that she would have expected to be doing -- recording</p> <p>10 checks in the observation chart every 15 minutes. She</p> <p>11 hasn't got an entry for quarter past 6, and her next</p> <p>12 entry is at 18:40. Correct?</p> <p>13 <b>A. Yes, I heard her explain that. It would be entirely</b></p> <p>14 <b>normal for a critical care nurse and critical care</b></p> <p>15 <b>doctors to be focusing on the patient rather than</b></p> <p>16 <b>documenting it at the time.</b></p> <p>17 Q. But the reason why they are focusing on the patient is</p> <p>18 because he needs to be focused on, and, therefore, if</p> <p>19 they are focusing on him throughout that period, it</p> <p>20 suggests a relatively long period, doesn't it, for them</p> <p>21 to need to focus on him?</p> <p>22 <b>A. As I understood, part of the time was taken with what</b></p> <p>23 <b>were relatively routine procedures: the insertion of</b></p> <p>24 <b>the monitoring lines.</b></p> <p>25 Q. Mr Barham said that those routine procedures would not</p> <p style="text-align: center;">Page 69</p>	<p>1 <b>A. Yes.</b></p> <p>2 Q. In your note, and perhaps we should have it up again,</p> <p>3 INQ000103860009. Jyo, it is the bottom part of</p> <p>4 the page, the last few lines highlighted, thank you.</p> <p>5 Again, in your list or summary of what happened</p> <p>6 during this period of deterioration, you make no mention</p> <p>7 of the fact that there was a suspected bronchospasm or</p> <p>8 that a nebuliser was used, do you?</p> <p>9 <b>A. I have noted "wheeze on expiration".</b></p> <p>10 Q. But you haven't mentioned the use of a nebuliser, have</p> <p>11 you?</p> <p>12 <b>A. No.</b></p> <p>13 Q. So, again, what we have got in your summary note is that</p> <p>14 it is incomplete, if we look at the other available</p> <p>15 evidence, isn't it?</p> <p>16 <b>A. I think it records the most important information that</b></p> <p>17 <b>I felt necessary to communicate to the receiving team.</b></p> <p>18 Q. But the importance, isn't it, of someone suspecting that</p> <p>19 the problem might be bronchospasm, and fetching and then</p> <p>20 administering a nebuliser is, all of that would have</p> <p>21 taken time and possibly extended the time during which</p> <p>22 Tony's respiration was compromised. Is that not</p> <p>23 correct?</p> <p>24 <b>A. Sorry, I don't understand your question.</b></p> <p>25 Q. If, as is the case, Mr Barham suspected bronchospasm and</p> <p style="text-align: center;">Page 71</p>
<p>1 have taken more than a few minutes -- 15 minutes I think</p> <p>2 is what he eventually said. So it still leaves quite</p> <p>3 a long period, doesn't it, much more than five minutes?</p> <p>4 <b>A. My experience it is that it can take longer to put these</b></p> <p>5 <b>lines in. You don't always take note of the precise</b></p> <p>6 <b>times of starting and finishing insertion of lines.</b></p> <p>7 <b>I must say, as an anaesthetist over the years, I've</b></p> <p>8 <b>known it to take longer than that. There is time to</b></p> <p>9 <b>prepare as well. Some of these procedures are done as</b></p> <p>10 <b>sterile procedures and the nurses have to prepare an</b></p> <p>11 <b>open sterile pack, all at the bedside, so the patient is</b></p> <p>12 <b>still being continuously observed. I think it is very</b></p> <p>13 <b>difficult sometimes to be precise about timings in that</b></p> <p>14 <b>situation.</b></p> <p>15 Q. So you weren't there, Mr Barham was there. He's given</p> <p>16 his evidence.</p> <p>17 THE CORONER: Well, you asked him, Mr Brown, so don't attack</p> <p>18 him for answering.</p> <p>19 MR BROWN: I put the point to him that that evidence had</p> <p>20 been given. What we are left with is a relatively long</p> <p>21 period of time. What we are also left with is a period</p> <p>22 between 18:00 and 18:40 when in fact we have got, again,</p> <p>23 no record for Tony's blood pressure during that period,</p> <p>24 even though you have put "no hypotension" in your note;</p> <p>25 correct?</p> <p style="text-align: center;">Page 70</p>	<p>1 arranged for a nebuliser to be fetched and then</p> <p>2 administered a nebuliser, all of that would have taken</p> <p>3 some time, wouldn't it?</p> <p>4 <b>A. It certainly would have taken some time, but I heard</b></p> <p>5 <b>Nurse Barlow describe that, as soon as there was</b></p> <p>6 <b>a change in colour, pneumothoraces were suspected and</b></p> <p>7 <b>promptly drained.</b></p> <p>8 Q. The overall point I am making is that -- you have</p> <p>9 summarised the position on the information that you have</p> <p>10 been given, and that information, at least in that</p> <p>11 instance, is clearly not complete, is it, or it hasn't</p> <p>12 been completely summarised by you?</p> <p>13 <b>A. I don't think I can comment on that. The summary which</b></p> <p>14 <b>I wrote 26 years ago is what I wrote. I did it in all</b></p> <p>15 <b>good faith at the time.</b></p> <p>16 Q. Finally, at the time when you wrote this note, you would</p> <p>17 not have had available to you the nursing records, would</p> <p>18 you, because they hadn't been written at that stage?</p> <p>19 <b>A. No, it would have been necessary for me to rely on</b></p> <p>20 <b>verbal handover.</b></p> <p>21 MR BROWN: Dr Stock, thank you very much. I have no further</p> <p>22 questions.</p> <p>23 MS LAMBERT: Dr Stock, nothing further from me, thank you</p> <p>24 very much.</p> <p>25 THE CORONER: Nor from me, Dr Stock. Thank you very much.</p> <p style="text-align: center;">Page 72</p>

18 (Pages 69 to 72)

<p>1 indeed.</p> <p>2 (The witness withdrew)</p> <p>3 MS LAMBERT: Sir, may I move on now to call Dr Howe, and we</p> <p>4 may just take a moment to set up the videolink because</p> <p>5 Dr Howe is in Australia.</p> <p>6 THE CORONER: Is it better for me to adjourn for a moment</p> <p>7 and for the jury to leave for a moment?</p> <p>8 MS LAMBERT: Perhaps very briefly.</p> <p>9 THE CORONER: Let's hope this works speedily, members of the</p> <p>10 jury.</p> <p>11 If you would like to just leave for a moment and we</p> <p>12 will sort out the participants in the conference.</p> <p>13 (12.15 pm)</p> <p>14 (A short break)</p> <p>15 (12.19 pm)</p> <p>16 DR JAMES GORDON HOWE (affirmed)</p> <p>17 Examination by MS LAMBERT</p> <p>18 MS LAMBERT: Dr Howe, I am Christina Lambert. I am</p> <p>19 instructed on behalf of the coroner. I am going to ask</p> <p>20 you some questions to start off with.</p> <p>21 May I ask you to confirm that you are</p> <p>22 Dr James Gordon Howe?</p> <p>23 <b>A. I am, indeed.</b></p> <p>24 Q. You are speaking to us from Melbourne in Australia?</p> <p>25 <b>A. Correct.</b></p> <p style="text-align: center;">Page 73</p>	<p>1 opened and ran a rehabilitation unit for younger</p> <p>2 disabled people and provided a neurology clinic for</p> <p>3 older people and a neurology consultation service to the</p> <p>4 wards?</p> <p>5 <b>A. I did, indeed.</b></p> <p>6 Q. Is it also right, Dr Howe, that you were something of</p> <p>7 a specialist in the condition persistent vegetative</p> <p>8 state?</p> <p>9 <b>A. I think that's a bit strong. I'd seen a few patients,</b></p> <p>10 <b>that's all.</b></p> <p>11 Q. In a sentence or two, if you may, could you describe</p> <p>12 that condition for us?</p> <p>13 <b>A. It's a condition of unawareness, yet the person's eyes</b></p> <p>14 <b>are open, they have sleeping and waking cycles. They</b></p> <p>15 <b>are not able to eat or drink or interact with people.</b></p> <p>16 <b>Depending on how well they are looked after and their</b></p> <p>17 <b>age and general fitness, people can live for a very long</b></p> <p>18 <b>time.</b></p> <p>19 THE CORONER: Do forgive me, Dr Howe. It is the coroner</p> <p>20 speaking. I'm afraid it is breaking up a bit. I don't</p> <p>21 know whether -- I'm not quite sure what the answer to it</p> <p>22 is. I don't know, if you speak more closely to the</p> <p>23 microphone, whether that will help. I am just not sure.</p> <p>24 <b>A. Okay, I'll sit a little closer.</b></p> <p>25 THE CORONER: That is better, thank you.</p> <p style="text-align: center;">Page 75</p>
<p>1 Q. Dr Howe, you have already got the statement that you</p> <p>2 made recently, on 20 September 2015 -- sir, behind</p> <p>3 tab 130 of our bundle -- I think you have got that open</p> <p>4 in front of you, Dr Howe?</p> <p>5 <b>A. I do.</b></p> <p>6 Q. Dr Howe, just so the jury understand where you fit into</p> <p>7 Tony's picture, you were the consultant in charge of</p> <p>8 Tony's care during his admission to Airedale Hospital?</p> <p>9 <b>A. Correct.</b></p> <p>10 Q. So we have missed out, just for the moment, one link in</p> <p>11 Tony's story, because, Dr Howe, just so that you</p> <p>12 understand, we have just been hearing evidence</p> <p>13 concerning Tony's experiences in the Northern General</p> <p>14 Hospital. From there, he went on to the Royal</p> <p>15 Hallamshire Hospital. But he was transferred into your</p> <p>16 care at the Airedale Hospital on 12 May 1989?</p> <p>17 THE CORONER: That being where, Ms Lambert?</p> <p>18 MS LAMBERT: That was the Airedale Hospital.</p> <p>19 THE CORONER: In ...?</p> <p>20 MS LAMBERT: In Yorkshire, Keighley. Is that correct?</p> <p>21 <b>A. That's correct.</b></p> <p>22 Q. Dr Howe, just a word or two about your professional</p> <p>23 background. Is it right that between July 1983</p> <p>24 and June 1995 you were engaged at the Airedale NHS Trust</p> <p>25 as a consultant geriatrician, but during that time, you</p> <p style="text-align: center;">Page 74</p>	<p>1 MS LAMBERT: Yes. We could only hear a little of what you</p> <p>2 said, Dr Howe. Again, the question was, in a sentence</p> <p>3 or two, could you describe the condition persistent</p> <p>4 vegetative state for us, please?</p> <p>5 <b>A. Yes, it is a condition of complete unawareness in which</b></p> <p>6 <b>the person's eyes are still open, they have sleeping and</b></p> <p>7 <b>waking cycles, they are unable to eat or drink, although</b></p> <p>8 <b>they can, to some extent, swallow saliva. They are</b></p> <p>9 <b>unable to move, to interact with their environment.</b></p> <p>10 <b>They can live like that for a long time, depending on</b></p> <p>11 <b>how well they are looked after, and their age and</b></p> <p>12 <b>general level of fitness at the time of the brain</b></p> <p>13 <b>damage.</b></p> <p>14 Q. So you told us that the patient's eyes would be open,</p> <p>15 they might have a sleeping and waking cycle, but they</p> <p>16 are unable -- such patients are unable to interact in</p> <p>17 any way with those around them?</p> <p>18 <b>A. That's correct.</b></p> <p>19 Q. Are they aware of what is going on around them?</p> <p>20 <b>A. Not at all. The pathology evidence and other evidence</b></p> <p>21 <b>from EEG show that the parts of the brain which are</b></p> <p>22 <b>necessary for awareness are destroyed.</b></p> <p>23 Q. Moving on to Tony Bland, what was his condition</p> <p>24 following his admission to Airedale in May 1989?</p> <p>25 <b>A. He was in a vegetative state --</b></p> <p style="text-align: center;">Page 76</p>

<p>1 THE CORONER: Forgive me, Dr Howe. If you keep forward,</p> <p>2 I think that is a bit clearer than if you move back.</p> <p>3 MS LAMBERT: I was asking you, Dr Howe, about Tony's</p> <p>4 condition on arrival. If we look together at what you</p> <p>5 wrote in your statement to the Operation Resolve team,</p> <p>6 page 8 of 17, did you say this:</p> <p>7 "Tony arrived at Airedale in the afternoon."</p> <p>8 You examined him at 6 o'clock. He had</p> <p>9 a tracheostomy tube in situ, so a tube in his throat,</p> <p>10 and various other tubes and catheters to permit drainage</p> <p>11 of fluids:</p> <p>12 "His eyes were opening spontaneously."</p> <p>13 Do you see that?</p> <p>14 <b>A. Yes, that's correct. Yes, yes, I have got that.</b></p> <p>15 Q. "No eye contact. No response to visual menace. He</p> <p>16 grimaced. His respiratory rate increased. There was</p> <p>17 flexion of all four limbs to peripheral painful</p> <p>18 stimuli."</p> <p>19 <b>A. Yes.</b></p> <p>20 Q. I have just picked out certain parts of what you have</p> <p>21 written in your statement. Would you like to add to</p> <p>22 that in any way?</p> <p>23 <b>A. No, I think that's a good enough description of what he</b></p> <p>24 <b>was like.</b></p> <p>25 Q. Was Tony in a persistent vegetative state upon his</p> <p style="text-align: center;">Page 77</p>	<p>1 did not change?</p> <p>2 <b>A. It did not at all during the time that he was with us.</b></p> <p>3 Q. He never became conscious; is that right?</p> <p>4 <b>A. That is correct.</b></p> <p>5 Q. Notwithstanding your team's best efforts?</p> <p>6 <b>A. Yes.</b></p> <p>7 Q. He remained unresponsive?</p> <p>8 <b>A. Yes.</b></p> <p>9 Q. Is this right, Dr Howe, that a difficult decision was</p> <p>10 made jointly by the family and the treating clinical</p> <p>11 team that life-prolonging treatment, including</p> <p>12 artificial nutrition and hydration, should be withdrawn?</p> <p>13 <b>A. That was our feeling, yes.</b></p> <p>14 Q. Were a number of experts, independent experts, called</p> <p>15 upon to assess Tony?</p> <p>16 <b>A. They were. That was at the request of the High Court,</b></p> <p>17 <b>when the Trust made an application to withdraw</b></p> <p>18 <b>treatment.</b></p> <p>19 Q. You've beaten me to it. The decision that was made</p> <p>20 jointly by the family and the clinicians that</p> <p>21 life-prolonging treatment should be withdrawn involved</p> <p>22 you going to court?</p> <p>23 <b>A. That's correct.</b></p> <p>24 Q. Indeed, it is right, isn't it, that the case, as</p> <p>25 described, went to the House of Lords?</p> <p style="text-align: center;">Page 79</p>
<p>1 arrival at Airedale?</p> <p>2 <b>A. He was. He was in a vegetative state. Technically, we</b></p> <p>3 <b>don't use the term "persistent" until a longer time has</b></p> <p>4 <b>passed. Most authorities would consider it to be</b></p> <p>5 <b>persistent after one year.</b></p> <p>6 Q. So from his arrival at Airedale, he had no awareness at</p> <p>7 all of his surroundings?</p> <p>8 <b>A. We couldn't see anything to suggest that he had.</b></p> <p>9 Q. Moving on, Dr Howe, to Tony's course in hospital, is it</p> <p>10 right that it was by no means straightforward in this</p> <p>11 sense, that Tony suffered from a number of infections?</p> <p>12 <b>A. Correct.</b></p> <p>13 Q. Respiratory tract infections, urinary tract infections</p> <p>14 and various other problems?</p> <p>15 <b>A. That's correct.</b></p> <p>16 Q. That was notwithstanding a very high level of care?</p> <p>17 <b>A. I think that's correct, yes.</b></p> <p>18 Q. Not just from you and your medical team, but also from</p> <p>19 a wide range of therapists?</p> <p>20 <b>A. Yes.</b></p> <p>21 Q. Physiotherapists and speech therapists called upon to</p> <p>22 assist with swallowing, and also care from Tony's</p> <p>23 family?</p> <p>24 <b>A. That's correct.</b></p> <p>25 Q. Is it right, Dr Howe, that Tony's underlying condition</p> <p style="text-align: center;">Page 78</p>	<p>1 <b>A. It did, indeed.</b></p> <p>2 Q. Following the decision of the House of Lords, was life</p> <p>3 support then withdrawn?</p> <p>4 <b>A. It was.</b></p> <p>5 Q. And artificial nutrition and hydration?</p> <p>6 <b>A. That's right.</b></p> <p>7 Q. Is it right that Tony in fact died in 1993, on 3 March?</p> <p>8 <b>A. Yes.</b></p> <p>9 Q. So after some years in your care?</p> <p>10 <b>A. Yes.</b></p> <p>11 MS LAMBERT: Dr Howe, thank you very much, indeed. Those</p> <p>12 are my questions. There may be some further questions</p> <p>13 from Mr Wilcock, who sits behind me.</p> <p>14 <b>A. Thank you.</b></p> <p>15 <b>Examination by MR WILCOCK</b></p> <p>16 MR WILCOCK: Dr Howe, as you have heard, I represent the</p> <p>17 Bland family. Can you see me?</p> <p>18 <b>A. I can see you. Yes.</b></p> <p>19 Q. I think you will agree with me that you got to know the</p> <p>20 Bland family well over the nearly four years that you</p> <p>21 and your team cared for Tony. Is that right?</p> <p>22 <b>A. That is, indeed, right, and I remain in contact with</b></p> <p>23 <b>them to this day.</b></p> <p>24 Q. You will therefore know that they -- you won't be</p> <p>25 surprised they have specifically asked me to make clear</p> <p style="text-align: center;">Page 80</p>

20 (Pages 77 to 80)

1 their appreciation for all the skill and care that both  
 2 you and your team devoted to caring for Tony in the four  
 3 years that he was with you. But having done that, can  
 4 I just ask a few questions, just to make clear their  
 5 role in the process and the events that followed and  
 6 clear up a few other matters.  
 7 First question: can you confirm that throughout the  
 8 period Tony was at your hospital, Allan, Barbara and  
 9 Angela did everything they possibly could to help Tony?  
 10 **A. They did, indeed. In fact, Mr Bland even hopped into**  
 11 **the physiotherapy pool to help the physiotherapist when**  
 12 **he was having stretches and so on in the pool.**  
 13 Q. The reason it was necessary for him to have those  
 14 stretches in the pool is that, over the years that Tony  
 15 was at the hospital, as a result of his condition his  
 16 limbs contracted, didn't they?  
 17 **A. That's correct. That's what always happens to such**  
 18 **injuries.**  
 19 Q. So that by 1992, Tony's arms were lightly flexed across  
 20 his chest?  
 21 **A. Tightly flexed, yes.**  
 22 Q. Lightly flexed?  
 23 **A. Tightly.**  
 24 Q. Tightly.  
 25 **A. I thought you said "lightly". Tightly.**

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1 Q. Tightly flexed across his chest. His right leg was  
 2 extended at all joints and his left leg was flexed and  
 3 internally rotated at the hip, flexed at the knee and  
 4 extended at the ankle. Is that a fair description?  
 5 **A. That's correct.**  
 6 Q. Are you able to describe --  
 7 **A. It is.**  
 8 Q. -- what that description meant in other terms than the  
 9 ones I have just used?  
 10 **A. One of the most important things it means is there is**  
 11 **great difficulty in maintaining hygiene. At, for**  
 12 **instance, the elbow flexure, if you can see me on the**  
 13 **screen, and in the armpits and the groin, because the**  
 14 **limbs are so tightly pressed together.**  
 15 Q. In addition to the work in the pool, is it right that  
 16 the family regularly visited, sitting by his bedside,  
 17 stroking him and playing him tapes of his favourite  
 18 music?  
 19 **A. Indeed, that's correct. Somebody was with him every**  
 20 **single day of the time that he was with us at Airedale.**  
 21 Q. During the time the family did that, did Tony make any  
 22 response to questions or commands?  
 23 **A. Not that any of us ever saw.**  
 24 Q. Did he make any purposeful movement or show any sign of  
 25 interaction with his environment to those who were

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1 tending for him?  
 2 **A. Not at all.**  
 3 Q. I'm sorry, I didn't hear the answer to that?  
 4 **A. Not at all.**  
 5 Q. You've spoken about one of the symptoms of persistent  
 6 vegetative state being that people still have a sleeping  
 7 and waking cycle. Is it right --  
 8 **A. Yes.**  
 9 Q. -- that Tony's eyes were open?  
 10 **A. Yes, for a good part of the day, his eyes were open.**  
 11 Q. But they would be unfocused?  
 12 **A. That's right. People in a vegetative state have what**  
 13 **they call moving conjugate eye movement.**  
 14 Q. What does that mean?  
 15 **A. The eyes are aiming in parallel, but roving around**  
 16 **purposelessly, never fixing on any particular object in**  
 17 **the environment.**  
 18 Q. That would have been Tony's presentation throughout the  
 19 time his family were visiting, would it?  
 20 **A. That's right, yes.**  
 21 Q. So does it follow that Tony would never have made any  
 22 form of eye contact with his visitors?  
 23 **A. None at all.**  
 24 Q. He would be fed --  
 25 **A. Or in a chair. We'd get him out into a chair as well.**

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1 Q. He would have been fed through his nose?  
 2 **A. Yes.**  
 3 Q. And is it right that Allan in fact sometimes used the  
 4 vacuum drip and suction device to clear part of Tony's  
 5 throat when he choked --  
 6 **A. Yes, that's right.**  
 7 Q. -- or did not swallow saliva --  
 8 **A. Correct.**  
 9 Q. -- or when there was a regurgitation of his liquid feed?  
 10 **A. Yes, that would be true.**  
 11 Q. Would it be correct to say that from the beginning you  
 12 spoke to Mr and Mrs Bland about what the outcome for  
 13 Tony might be?  
 14 **A. Yes. At the beginning, I told them what we were going**  
 15 **to do and what we hoped might happen, because some**  
 16 **patients with brain injury will recover from the**  
 17 **vegetative state, but as time passed, it became clear**  
 18 **that there weren't going to be any improvements, and it**  
 19 **was obvious to everybody concerned with his care, his**  
 20 **family included.**  
 21 Q. Did you tell the family that, to your knowledge, there  
 22 were no cases of good recovery from persistent  
 23 vegetative state after one year?  
 24 **A. That's right, yes. At that time, we had data from the**  
 25 **US Coma Data Bank which -- somewhere around 600 patients**

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1 (inaudible).  
 2 Q. After about three to four months, when it became  
 3 apparent there was no improvement, did you begin to  
 4 discuss the fact that there can be no improvement in  
 5 patients with this condition with Mr and Mrs Bland?  
 6 A. I did.  
 7 Q. Was it in that context that you started the process  
 8 which eventually ended with the House of Lords declaring  
 9 in 1993 that you and your colleagues could lawfully  
 10 discontinue all life-sustaining treatment?  
 11 A. That's right.  
 12 Q. When did it first become clear to you that the courts  
 13 would have to be involved in that process?  
 14 A. Well, it first became clear when I contacted Mr Popper  
 15 and outlined to him what we planned, and he wrote  
 16 a letter pointing out that, as the law stood in England  
 17 and Wales, I would be risking the charge of murder.  
 18 Q. Do you agree that when it first became clear that the  
 19 courts would have to be involved, the Blands were  
 20 unwilling to your hospital trust making the necessary  
 21 application?  
 22 A. Yes, that's right. They didn't -- they had great  
 23 difficulty understanding why it should have to be like  
 24 that.  
 25 Q. You have subsequently written, haven't you, that the

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1 family's sadness at the circumstances they found  
 2 themselves in since the disaster was so profound that  
 3 they just could not contemplate further involvement with  
 4 authority. Is that still your recollection?  
 5 A. Yes, it is. I think that's correct. The process of  
 6 going to court, when we eventually got there, was in  
 7 fact quite traumatic for them.  
 8 Q. I think that is nearly predictable, and we will come to  
 9 it in a minute. But you told us that, up until 1993,  
 10 Tony suffered many symptoms, including recurrent  
 11 respiratory tract infections, recurrent urinary tract  
 12 infections, but did he also suffer from various penile  
 13 infections as a result of the catheters?  
 14 A. The urinary tract infection eventually developed  
 15 a fistula from his perineum to the tract, so as well as  
 16 having the catheter in his bladder, urine was also  
 17 draining through the fistula in his perineum.  
 18 Q. Was it necessary, in the course of that process, to make  
 19 an incision into Tony's scrotum?  
 20 A. Yes. My colleague, Mr Appleyard, did that in theatre.  
 21 Q. Was that done with or without anaesthetic?  
 22 A. It was done without a general anaesthetic.  
 23 Q. Did Tony make any behavioural response to that incision?  
 24 A. Mr Appleyard reported to me that he made none at all.  
 25 Q. Was it partly as a result of that that you were able to

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1 persuade Mr and Mrs Bland to let Airedale Trust make the  
 2 required application sometime in 1992?  
 3 A. Yes. The episode with the fistula was -- at first, we  
 4 had thought maybe we shouldn't treat the fistula  
 5 straight away and we spoke to a lawyer who was  
 6 recommended to us through the Regional Health  
 7 Authority's solicitor, and his advice was that, since  
 8 this was a very minor procedure, we really ought to go  
 9 ahead with it. During the course of those discussions,  
 10 it became clear to Mr and Mrs Bland that, really, it  
 11 would be best to go ahead with the court application.  
 12 Q. The court application involved appearances in the Family  
 13 Court, the Court of Appeal and the House of Lords, did  
 14 it not?  
 15 A. Yes. No witnesses appeared in the Court of Appeal and  
 16 the House of Lords, but the four expert witnesses and  
 17 myself gave evidence at the application.  
 18 Q. Having heard that evidence and reviewed it on appeal,  
 19 permission was given to withdrawing the treatment as you  
 20 and your team sought; is that correct?  
 21 A. That's correct.  
 22 Q. In one of the judgments, Sir Stephen Brown stated that  
 23 if the withdrawal you and your team proposed took place,  
 24 Tony Bland would, himself, be totally unaware of what  
 25 was taking place. Do you agree with that?

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1 A. I do. My observations after we withdrew treatment were  
 2 that there was no change in his responses at the  
 3 beginning of that time after we'd withdrawn treatment.  
 4 MR WILCOCK: Thank you very much. Can I again thank you on  
 5 behalf of the family for the support you have given them  
 6 over the years.  
 7 THE CORONER: Thank you, Mr Wilcock.  
 8 Thank you very much, Dr Howe. Thank you very much,  
 9 indeed. Thank you for giving evidence.  
 10 A. Thank you.  
 11 (The witness withdrew)  
 12 THE CORONER: I think what we might do is take our break  
 13 now, Ms Lambert, and resume at 1.30 pm.  
 14 MS LAMBERT: Certainly, sir.  
 15 THE CORONER: Shall we do that, members of the jury?  
 16 (12.43 pm)  
 17 (A short break)  
 18 I N D E X  
 19  
 20 MRS CAROL LESLEY BARLOW (sworn) .....3  
 21  
 22 Examination by MS LAMBERT .....3  
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