

OPUS 2

INTERNATIONAL

London Bridge Inquests. Inquests concerning the attackers

Day 9A

July 12, 2019

Opus 2 International - Official Court Reporters

Phone: 0203 008 6619

Email: transcripts@opus2.com

Website: <https://www.opus2.com>

1 Friday, 12 July 2019
 2 (10.05 am)
 3 (In the absence of the jury)
 4 THE CHIEF CORONER: Good morning, Mr Hough.
 5 MR HOUGH: Good morning, sir. (Pause).
 6 THE CHIEF CORONER: Normally the usher comes back relatively
 7 soon with the jury whether he has found a problem.
 8 (In the presence of the jury)
 9 THE CHIEF CORONER: Good morning. Nice to see you all.
 10 Mr Hough.
 11 MR HOUGH: Sir, the two witnesses today are both
 12 pathologists who will be giving evidence as to the
 13 post mortem examinations of the three attackers.
 14 THE CHIEF CORONER: Yes.
 15 MR HOUGH: As yesterday with the ballistics expert, we'll be
 16 illustrating the injuries using stylised body maps which
 17 are obviously not as graphic as photographs of the
 18 post mortem examinations but they do have the capacity
 19 to distress.
 20 THE CHIEF CORONER: Yes.
 21 MR HOUGH: I just thought I would make that clear at the
 22 outset of today for everybody in court.
 23 THE CHIEF CORONER: Thank you very much indeed.
 24 MR HOUGH: So with that preliminary, our first witness is
 25 Dr Nathaniel Cary.

1

1 DR NATHANIEL CARY (affirmed)
 2 THE CHIEF CORONER: Good morning, Dr Cary.
 3 A. Good morning.
 4 THE CHIEF CORONER: Nice to see you again. Please do make
 5 yourself comfortable. If you wish to sit, that's
 6 absolutely fine.
 7 A. I'm more than happy to stand, my Lord.
 8 THE CHIEF CORONER: Thank you.
 9 Questions by MR HOUGH QC
 10 MR HOUGH: Would you please give your full name to the
 11 court?
 12 A. Yes, it's Nathaniel Roger Blair Cary.
 13 Q. Dr Cary, by profession are you a Home Office forensic
 14 pathologist?
 15 A. That's correct.
 16 Q. In that capacity, did you perform post mortem
 17 examinations on two of the deceased in these Inquests,
 18 Youssef Zaghba and Rachid Redouane?
 19 A. Yes, that's right.
 20 Q. Before I turn to your reports, can you provide your
 21 relevant qualifications in brief?
 22 A. Yes. So I'm a master of arts of the
 23 University of Oxford, a medical graduate of the
 24 University of London, I hold a directorate by thesis in
 25 medicine, I'm a fellow of the Royal College of

2

1 Pathologists and I hold the diploma in medical
 2 jurisprudence. I practise as a full time consultant
 3 forensic pathologist. In that capacity I'm on the
 4 Home Office register. I've been on that register for
 5 nearly 27 years.
 6 A forensic pathologist is a pathologist who is
 7 involved in cases often where the police are
 8 investigating a suspicious death, and that was the basis
 9 on which I was asked to be involved in these cases by
 10 the coroner.
 11 I have a particular interest of my own in
 12 firearms-related injuries and I've done many cases in
 13 the past involving high velocity gunshot wounds.
 14 Q. Before you performed the post mortem examinations in
 15 these two cases were you provided with background
 16 information about the attack in which the two
 17 individuals had been shot?
 18 A. Yes, I was. Obviously elements of that may not turn out
 19 to be correct, but that's the basis on which the
 20 autopsies were carried out.
 21 Q. Were you also given access to CT scan reports helping to
 22 show the internal injuries?
 23 A. Yes, I was. These are very important in gunshot-related
 24 wounds because they help you find the bullets, if there
 25 are any left in the body.

3

1 Q. May I deal with the two separately.
 2 First of all, Youssef Zaghba, your report dated
 3 14 November 2017. You may refer to that as you wish.
 4 A. Thank you.
 5 Q. May I first ask you about your external examination and
 6 do so using some body map images which will come up on
 7 the screen next to you and the screens in court.
 8 {PM0103/3}, please.
 9 May I begin with the head. What injuries did you
 10 find here?
 11 A. Yes, I should just make the point that these are
 12 a representation of injuries that were present and we
 13 look at everything, so this first injury is actually
 14 a trivial injury compared to a gunshot wound, but
 15 everything is recorded, but you can get distracted by
 16 the trivial so the gunshot wounding is what matters
 17 here.
 18 That's a small abrasion or graze there just above
 19 his left eyebrow, 1 by 0.6 cm.
 20 Q. May we now turn to the torso, where there are more
 21 significant injuries. {PM0103/4}, please. First of all
 22 at mark 2.1, what was the injury you found?
 23 A. 2.1 you could actually feel that there was a bullet
 24 under the skin there. This is quite common in gunshot
 25 wounding that the bullet doesn't quite make it out of

4

1 the body and so it's palpable under the skin, and that
 2 bullet was subsequently recovered.
 3 Q. And as we see that's in a position on the left side of
 4 the chest?
 5 A. Exactly.
 6 Q. At 2.2, so in the centre part of the chest, which we can
 7 see more clearly on {PM0103/5}, what did you find?
 8 A. Yes, I call that a gunshot wound of entry, that's where
 9 a bullet has gone in. These bullets are 0.556
 10 ammunition and they are designed to hopefully either
 11 lose most of their energy in the body or completely lose
 12 energy in the body and so in many instances they go in
 13 but don't come out, but sometimes some of the bullets
 14 would have gone in and come out because they haven't
 15 dissipated all their energy in the body.
 16 Gunshot wounds of entry have a fairly characteristic
 17 appearance in many instances and I was quite confident
 18 that this was a gunshot entry wound.
 19 Q. We'll look at the particular gunshot tracks shortly, but
 20 continuing with the external examination performed, may
 21 we look at {PM0103/6} of the body maps, and first of all
 22 can you identify what you found at marks 2.3 and 2.4
 23 over the lower right flank?
 24 A. Yes, so 2.3 is an abrasion or graze. It's become
 25 parchmented, which means it's dried out. It's in that

5

1 region. It measured 2.5 cm long by up to 1 cm wide.
 2 Q. Were those two, 2.3 and 2.4, relatively trivial
 3 injuries?
 4 A. They were. They may be actually a bullet just skimming
 5 over the skin.
 6 Q. 2.6, the right back area, what did you find?
 7 A. So that was a wound that I thought was likely to be exit
 8 or entry. Sorry, 2 point?
 9 Q. 2.6.
 10 A. Yes, I thought that was a presumptive entry wound and
 11 that measured 0.8 cm long by up to 0.7 cm wide, and then
 12 it had features that suggested to me that it was
 13 a gunshot entry wound. The reason for saying
 14 presumptive, it's not until you've done the internal
 15 dissection that you come to a final decision about
 16 whether something is an entry or an exit wound.
 17 Q. May we now move on to the upper limbs and {PM0103/8} of
 18 the body map, please.
 19 A. I think we haven't had 2.5, forgive me.
 20 Q. If we can go back -- sorry, PM0103/7}, please, I'm
 21 sorry.
 22 A. That's it.
 23 Q. On the back of the trunk, upper central back, what did
 24 you find there?
 25 A. As with the presumptive entrance wounds, I felt that

6

1 this was likely to be an exit wound, in other words,
 2 a bullet that's gone in and then come out again.
 3 Q. Then back to {PM0103/6}, please. So you've identified
 4 those two bullet hole wounds?
 5 A. Yes.
 6 Q. Then move on to the upper limbs, please {PM0103/8}.
 7 What did you find on the left hand?
 8 A. This is a different character of wounding. This is
 9 an incised wound or a cut caused by a sharp-bladed
 10 weapon and you can see it's quite a large cut. It
 11 measures up to 10 cm long.
 12 Q. And {PM0103/9} please, moving to the right arm. What
 13 wounds did you find on the right forearm and hand?
 14 A. So a number of things going on there. Firstly, 3.2 are
 15 just some abrasions, parchmented. 3.3 is a stab wound,
 16 so this is a third kind of injury, this is caused by the
 17 tip of a bladed weapon penetrating into the forearm, and
 18 that showed the characteristics of measuring about
 19 2.6 cm long externally.
 20 Then finally, it looks trivial but it is actually
 21 nevertheless quite an important injury, 3.5 is some red
 22 stippling, and this is recognised as a near effect from
 23 a gunshot wound, so the spent powder and unspent powder
 24 that comes out of the weapon may cause this sort of
 25 injury if the weapon is discharged relatively closely,

7

1 probably within a metre or so.
 2 Q. The jury heard from a ballistics expert yesterday --
 3 A. Excellent.
 4 Q. -- Dr Ritchie, who concurred with your assessment of
 5 that injury, and who said that the discharge was
 6 consistent with a firearm being fired from a range of
 7 60 cm or less.
 8 A. Yes.
 9 Q. Then if we can go to {PM0103/10}, please, is this
 10 a wound which also relates to one of the wounds you just
 11 identified?
 12 A. Yes, exactly. So the stab wound shown on the back of
 13 the forearm has actually penetrated right through the
 14 forearm to come out again at 3.4, and that measured
 15 4.6 cm long.
 16 Q. May we now move to the internal examination, unless
 17 there's anything else in the external examination you
 18 would particularly like to mention?
 19 A. No, thank you. That's fine.
 20 Q. You deal with the internal examination from the bottom
 21 of page 5 of your report, and may we have {PM0103/11} of
 22 the body maps to illustrate the first part.
 23 You identified in your external examination a
 24 presumptive gunshot entry wound to the front of the
 25 chest which you marked 2.2. Did you, in your internal

8

1 examination, identify the damage done by that bullet?
 2 A. Yes, so it had gone straight into the chest. The most
 3 important damage that resulted from its entry was
 4 disruption of the aorta, which is the main artery coming
 5 out of the heart, and that was shredded for about half
 6 of its circumference.
 7 Q. If we look at {PM0103/12} of the body maps. Do we see
 8 there the ascending aorta of the heart, one of the major
 9 vessels of the heart, and you tell us that that was
 10 shredded by the bullet?
 11 A. Yes, exactly.
 12 Q. {PM0103/13}, please. Did the bullet go on to disrupt
 13 other internal structures?
 14 A. Yes, in the course of the track, the trachea had also
 15 been disrupted. That's the windpipe. It went on, then,
 16 the track, to damage the upper spine, which it
 17 penetrated just to the right of the mid-line, and then
 18 it exited through the wound 2.5 which you remember
 19 I said was the presumptive gunshot exit wound.
 20 So in the front of the chest, out through the back.
 21 The most important damage is the aorta along the way.
 22 Q. Next may we look at {PM0103/14} of the body maps, and
 23 may I ask you about another gunshot entry wound. You
 24 identified a second presumptive gunshot entry wound in
 25 the right back area. Did you identify the internal

9

1 damage caused by that bullet entry wound?
 2 A. Yes, absolutely. So that was 2.6. That entered and
 3 damaged the 10th and 11th ribs. It also fractured
 4 further in. It had a track that passed from right to
 5 left, slightly upwards and slightly forwards. It passed
 6 through the right lung and part of the 12th thoracic
 7 vertebrae. It also went through the diaphragm and the
 8 liver and there was damage to the lower aorta in the
 9 thorax, the lower thoracic aorta. So a lot of different
 10 things damaged, all of which would be highly
 11 significant.
 12 Q. We can look, please, at {PM0103/17} of the body maps.
 13 By reference to this illustration, where did the wound
 14 track exit?
 15 A. So the wound track exited the chest to be found under
 16 the skin. You remember where I said there was a bullet
 17 that I could feel and that's where it ended up. So it
 18 didn't quite exit the body, it made it to just under the
 19 skin where 2.1 was, which is the region of the 6th rib
 20 on the left side.
 21 Q. If we look at {PM0103/15} of the body maps, we see
 22 identified there the internal structures damaged in the
 23 course of this bullet going through the body, the right
 24 lung, diaphragm, liver and lower thoracic aorta?
 25 A. Yes.

10

1 Q. Is the lower thoracic aorta another major vessel?
 2 A. Yes, so the pressure in the aorta in the arterial system
 3 is high and so if it is damaged significantly blood just
 4 pours out under the pressure both internally and also
 5 potentially externally.
 6 Q. {PM0103/16}, please, in the course of its track before
 7 coming to rest did the bullet also cause damage to one
 8 of the vertebra, to one of the structural elements of
 9 the spine?
 10 A. Yes, exactly.
 11 Q. Did you make any other further significant findings of
 12 internal damage?
 13 A. No, I didn't. He didn't have any natural disease, for
 14 instance. There was a full examination of the internal
 15 organs.
 16 Q. May we now move to your conclusions. What was your
 17 primary conclusion as to cause of death?
 18 A. Gunshot wounds to chest and abdomen.
 19 Q. We can take that image off screen now.
 20 That was your 1A cause of death by the standard
 21 notation?
 22 A. Yes, exactly.
 23 Q. Can you describe first of all the first gunshot wound
 24 which contributed to the cause of death?
 25 A. Yes, and I should say, although it's first in my

11

1 description, I can't say anything about the order of
 2 these in fact, it's just the first descriptively. So
 3 that first one entered just to the right of the mid-line
 4 of the front of the chest and exited close to the
 5 mid-line of the back, having caused extensive damage to
 6 the artery of the aorta and some adjoining structures.
 7 In my opinion this would have been associated with
 8 massive internal haemorrhage and rapid collapse and
 9 death.
 10 Q. When you say rapid collapse and death, within what time
 11 frame are you talking?
 12 A. Well, collapse would be within seconds, very likely,
 13 because he would lose his blood pressure, but death
 14 would vary a little bit. In fit young people there may
 15 be a period of time where you're still just alive, but
 16 by the time you've bled out a good proportion of your
 17 circulated volume, you are effectively dead by then.
 18 Q. So incapacitated exceptionally quickly and dead within
 19 a matter of a small number of minutes?
 20 A. Yes, exactly.
 21 Q. What was the other gunshot wound in summary which caused
 22 significant damage?
 23 A. So that had caused extensive damage to the liver as it
 24 punctured the lower thoracic or abdominal aorta, and
 25 that too would have been associated with massive

12

1 internal haemorrhage with rapid collapse and death.
 2 Q. Is it right that either of those gunshot wounds
 3 independently would have been fatal?
 4 A. Yes.
 5 Q. Is it also right --
 6 A. And I would say also fatal and non-survivable, I mean,
 7 even if they happened within an intensive care unit, you
 8 can't do anything about an aorta that's shredded.
 9 Q. So even if all the equipment of an emergency room had
 10 immediately been brought to bear, neither of those
 11 wounds would have been survivable?
 12 A. Correct.
 13 Q. You've told us that you're not able to say anything
 14 about the order in which those wounds were inflicted?
 15 A. No.
 16 Q. The evidence suggests that Youssef Zaghba was shot only
 17 during the initial engagement with the first armed
 18 officers on scene, and that the shots were fired in
 19 a very short period of time as he ran towards two
 20 officers, BX44 and BX45.
 21 A. Yes.
 22 Q. You've described gunshots entering the body in two
 23 different alignments?
 24 A. Yes.
 25 Q. One to the front of the chest and one to the side. Is

13

1 it normal in a fast-moving incident of this kind to have
 2 bullets entering different parts of the body in
 3 different alignments?
 4 A. Yes, there are two explanations: one may be that the
 5 body is oriented in a different angle to the firer
 6 between shots; the other explanation is that a different
 7 firer from a different angle is responsible for one
 8 shot, a different firer from a different angle for
 9 another shot, or, indeed, a combination of those
 10 factors.
 11 Q. Does it also stand to reason from the nature of these
 12 wounds and their effects that the evidence is that
 13 Youssef Zaghba did not move after an initial short
 14 period?
 15 A. That would be entirely consistent with my findings, yes.
 16 As I say, he would die relatively quickly because of the
 17 two set of wounds to his aorta.
 18 Q. Looking at your paragraph 5 of your conclusions, were
 19 the gunshot wounds consistent with the bullets
 20 recovered?
 21 A. Yes. So high-velocity gunshot wounds, in other words,
 22 moving supersonically, these particular rounds move
 23 extremely quickly and they are designed to dissipate
 24 energy within the body and the wounding had the
 25 characteristics of high velocity gunshot wounding, quite

14

1 apart from the bullets which have been separately
 2 examined.
 3 Q. Looking at your point 6, is there evidence of other
 4 injury to the body which may be consistent with glancing
 5 gunshot damage?
 6 A. Yes, so that damage to the right flank may well be
 7 a gutter from a bullet that's just brushed the skin and,
 8 as I described, there were some close-range effects over
 9 the back of the right hand.
 10 Q. Looking at your paragraph 8 of your conclusions, you've
 11 identified a stab wound to the right forearm and a wound
 12 to the back of the left hand. Were you able to form any
 13 conclusion about how those wounds were likely caused?
 14 A. Well, they would be consistent with the use of a bladed
 15 weapon, such as a knife, and I felt that in the
 16 particular circumstances of this case, they could have
 17 been caused by the deceased himself or his associates.
 18 Q. Finally, were there any toxicological findings of
 19 relevance in relation to Youssef Zaghba?
 20 A. There was a positive finding in relation to the urine
 21 which suggested that there had been some abuse of
 22 an anabolic steroid in the preceding period. What that
 23 means could vary. Anabolic steroids can increase
 24 aggression, but on the other hand, if someone is
 25 injected with something, they can have a very potent

15

1 placebo effect. So if someone is told something will do
 2 something to them, that might be just as effective as
 3 actually an active drug.
 4 Q. In the Inquests of the victims an eminent expert,
 5 Professor Cowan gave evidence on the effects of this
 6 steroid, and concluded that it's unlikely that it had
 7 effects on any of the attackers; is that evidence you
 8 would be able to endorse?
 9 A. Yes, absolutely. If he is one of the experts in that
 10 area and he felt that it was unlikely, then I would
 11 agree with him. As I say, the placebo effect in these
 12 circumstances may be just as important.
 13 Q. Thank you very much.
 14 May we move on to your examination of
 15 Rachid Redouane which you addressed in a report dated
 16 17 November 2017, and once again, may we begin with the
 17 external examination, this time beginning with the
 18 torso, and may we have on screen {PM0101/4}.
 19 A. And you'll see that this case is a bit more complicated,
 20 more areas of gunshot-related injury.
 21 Q. What injury did you find marked at 2.1 towards the left
 22 side of the chest?
 23 A. So that's -- 2.1 is a gunshot entry wound.
 24 Q. 2.2, did you find a further wound of significance just
 25 below that and to the right?

16

1 A. Yes, another gunshot entry wound.
 2 Q. At 2.3 we see a wound where the chest meets the armpit
 3 at the left side, which appears on the body map to have
 4 a rather different appearance, being broader in its
 5 effect on tissues.
 6 A. Yes, absolutely. So this is what would be called
 7 a gutter wound. So the bullet is skimming across the
 8 surface of the skin relatively superficially. Because
 9 of its very high energy, though, it will cause a really
 10 quite deep and wide wound as it does that and not
 11 a neat, rather narrow gutter.
 12 Q. May we now look at a different part of the torso on
 13 {PM0101/5} of the body maps. Did you identify a further
 14 relevant wound at the right hip and groin area?
 15 A. Yes.
 16 Q. What was that?
 17 A. That is a gunshot entry wound.
 18 Q. And then moving to the back, {PM0101/6} we see a number
 19 of injuries here. Could you tell us first about 2.5 and
 20 2.6 on the back at the right towards the right shoulder?
 21 A. Yes, so two gunshot wounds there which I think turned
 22 out to be entry wounds, but I will clarify that when
 23 I deal with the internal damage.
 24 Q. Thank you. A little further down and further to the
 25 right, 2.7, what was the wound there?

17

1 A. So another gunshot wound. Notice I'm being more
 2 tentative about these ones on the back as to whether
 3 they're entry or exit, at least initially from the
 4 external appearances.
 5 Q. 2.8, we see a mark under the right arm on this side;
 6 what sort of injury was that?
 7 A. So 2.8 was just an abrasion or graze.
 8 Q. 2.9 we can see a mark slightly to the right side of the
 9 spine and further down the back.
 10 A. 2.9 in that position, another gunshot wound.
 11 Q. 2.10, something which looks like a scraping mark --
 12 A. Exactly.
 13 Q. -- to the right-hand side of that?
 14 A. Exactly, sir, a graze.
 15 Q. 2.11, a distinct wound surrounded by an area of
 16 bruising?
 17 A. Yes, so another gunshot wound.
 18 Q. And 2.12, what's the nature of that?
 19 A. So that was a tiny puncture wound.
 20 Q. So as you've already said, a number of gunshot wounds in
 21 the torso to have to consider?
 22 A. Yes, exactly.
 23 Q. May we then move to the upper limbs, the arms, and
 24 page 7 of the body maps {PM0101/7}, what can we see
 25 marked 3.1 on the inner aspect of the left upper arm?

18

1 A. So that's an irregular gunshot wound, again rather
 2 large. You see it's close to that gutter that was just
 3 above the left nipple and may relate to it in terms of
 4 a bullet going on from one area to cause the other area
 5 of damage.
 6 Q. {PM0101/8}, please. Can we see here a wound in the rear
 7 of the left upper arm?
 8 A. Yes, exactly.
 9 Q. What type of wound is that?
 10 A. Another gunshot wound, but again, I'm non-committal at
 11 this stage in terms of external findings.
 12 Q. {PM0101/9}, please. This is the left arm. What's the
 13 nature of the damage here?
 14 A. That's a gunshot-related area of damage where, as with
 15 some of the other areas of damage, the bullet has passed
 16 relatively superficially and taken out a gutter of
 17 wounding.
 18 Q. Damaging, I think, both tissue and bones?
 19 A. Yes, exactly.
 20 Q. And {PM0101/10}, please, now looking at the right upper
 21 arm, inner frontal aspect. Can you describe first of
 22 all the fairly large area of damage above the inner
 23 elbow at 3.4?
 24 A. So 3.4 is an area of gunshot-related damage, another
 25 gutter-type wound where the bullet has passed relatively

19

1 superficially. Likewise, 3.5.
 2 Q. So another guttering-type gunshot wound?
 3 A. Yes, exactly, and these gutters may be the result of
 4 bullets that never enter the deceased at all, or they
 5 could be the result of bullets that have come out of the
 6 deceased, or about to go into the deceased. These high
 7 velocity bullets have the ability to cause wounding in
 8 several different areas one after another.
 9 Q. 3.7, a wound over the right forearm. What was the
 10 nature of that wound?
 11 A. That's another gunshot wound. You see it's much smaller
 12 than these gutter-related areas of damage.
 13 Q. Was that associated with bony injury within?
 14 A. Yes, it was. The radius and the ulna were fractured, so
 15 the forearm bones.
 16 Q. Now if we can move to {PM0101/11}, please. We can see
 17 again the wound at 3.5 and then some further wounds,
 18 further down the outer aspect of the right arm. First
 19 of all, can you identify the two wounds marked 3.9 and
 20 describe those?
 21 A. Yes, 3.5 is described as some gunshot-related damage.
 22 3.9 are two irregular gunshot wounds, you can see there.
 23 Q. They're on the outer aspect of the right arm below the
 24 elbow?
 25 A. Yes, exactly.

20

1 Q. And are 3.10 and 3.11 just adjacent to those relatively
2 trivial injuries?

3 A. Yes, they are. So an abrasion and a small laceration.

4 Q. And then finally for the external injury, may we
5 consider the legs, the lower limbs, {PM0101/12}. Did
6 you identify a relevant injury to the left thigh?

7 A. Yes, so that's another potential gutter wound, pretty
8 superficial but in the circumstances it may well be
9 that.

10 Q. So potentially the glancing effect of a bullet?

11 A. Yes, exactly.

12 Q. {PM0101/13}.

13 A. Then an abrasion over the mid-shin of the left lower
14 leg, a trivial injury.

15 Q. Marked 4.2 there?

16 A. Yes, exactly. And also some slight bruising lower down.

17 Q. Now we can now move to your description of the gunshot
18 wound tracks. Is it right that you had to engage in
19 something of a detective exercise to identify the wound
20 tracks by reference to all those external gunshot
21 injuries and the signs of internal damage?

22 A. Yes, exactly, because sometimes the exit wounds won't be
23 particularly characteristic compared to the entrance
24 wounds, so you end up with having to work out how many
25 bullets you've got left, how many entries you've got,

21

1 how many exits you've got. With a case of this
2 complexity that can be quite a difficult exercise.

3 Q. Were you nevertheless able with some confidence able to
4 identify a number of distinct wound tracks?

5 A. Yes, exactly.

6 Q. How many in total?

7 A. I felt that there were -- it's likely to be that comes
8 up in my conclusions, that there were likely to have
9 been ... sorry, I can't find the number.

10 Q. You've identified six tracks in your internal
11 examination?

12 A. Six tracks, yes, exactly.

13 My feeling was that the deceased had been struck by
14 at least six bullets.

15 Q. May we look first at the first wound track you
16 identified, and, again, is it right that the order
17 doesn't suggest anything about chronology?

18 A. Yes, that's very important, particularly if there's
19 evidence that there may have been different episodes of
20 firing guns. I can't say which episode a particular
21 bullet relates to.

22 Q. May we move on page 14 {PM0101/14} to assist in the
23 description of the first wound track. Can you help us
24 with the internal damage you identified by reference to
25 your wound track A?

22

1 A. Yes, so this was in relation to the entry wound over the
2 breast bone and the heart was punctured and damaged
3 quite extensively in the depths of that.

4 There was no exit wound attributable to that wound
5 track, however, an expanded bullet was found in the
6 mortuary after some of the dissection, and that is
7 likely to be the bullet that caused that damage.

8 Q. I think you describe in relation to the damage to the
9 heart that the track penetrated the outer sac, the
10 pericardial sac?

11 A. Yes.

12 Q. It punctured the heart itself, and lacerated the
13 junction of the free wall of the right ventricle with
14 the intraventricular septum?

15 A. Yes.

16 Q. That it further disrupted the heart at the rear in a way
17 which involved the walls of both ventricles?

18 A. Yes, exactly, so the right ventricle is a lower pressure
19 system, the left ventricle is a high pressure system and
20 this is quite extensive disruption which would have led
21 to massive internal bleeding.

22 Q. Moving to {PM0101/15} can you use this image to describe
23 the wound track you gave the reference B?

24 A. Yes, so this relates beneath entrance wound 2.2. It
25 penetrated the lower border of the fourth costal

23

1 cartilage. The cartilages are near the breastbone, the
2 bony ribs are further around to the sides, but they're
3 in continuity. On this map the cartilage, which is more
4 gristly and not bony hard, is shown as a slightly
5 yellowy/white colour and then the fourth costal
6 cartilage is shown as blue.

7 Q. {PM0101/16} next, to continue the description?

8 A. So this bullet track went on to damage the right lung
9 and then went on to damage the right lobe of the liver.

10 Q. Did it in fact cause serious laceration damage to the
11 liver?

12 A. Yes, exactly, and the liver has a very good blood
13 supply, so of course there will be major internal
14 bleeding from such liver damage.

15 Q. Were there areas of penetration at the rear which were
16 consistent with the exit of either bullet fragments or
17 bone associated with this wound track?

18 A. Yes, exactly. So the wounds that I identified on the
19 outside where I was a bit circumspect as to whether they
20 were entry or exit wounds, 2.9 and 2.11 are consistent
21 with the exit of both bullet fragments and fragments of
22 bone because if ribs are fractured, those fragments may
23 be given energy and actually exit the body.

24 Q. So is this a bullet which might, at least partially,
25 have passed entirely through the body from front to

24

1 back?
 2 A. Yes, breaking up along the way. Because these bullets
 3 are designed to deform, and they are very high energy.
 4 They may not only deform, they may actually break up,
 5 particularly if they hit structures that are hard such
 6 as bone.
 7 Q. Turning to your wound track C, can you describe the
 8 damage caused by that track?
 9 A. Yes, so the gutter there, damage to the left side of the
 10 chest, that area near the left armpit was associated
 11 with some underlying bleeding into the upper part of the
 12 left lung. You may get effects with high velocity
 13 bullets without the bullet even going into that, just
 14 the shock wave effect affecting the underlying left lung
 15 from that bullet passing across the skin and I felt it
 16 was most likely that the bullet causing that damage then
 17 went on to penetrate the left upper arm and then onward
 18 to cause entry and exit wounds 3.1 and 3.2.
 19 Q. And your wound track D, was this a wound track
 20 associated with the entry wound at the right groin?
 21 A. Yes, exactly.
 22 Q. What was the damage caused by that wound?
 23 A. That caused what I call comminuted fracturing of the
 24 proximal right femur. Comminuted means broken into many
 25 pieces, the right femur is the right thigh bone and so

25

1 effectively the right thigh bone was shattered and an
 2 expanded bullet was recovered from the inner aspect of
 3 the right buttock that was where that track terminated.
 4 Q. Move to the next page, please.
 5 A. So that would have lost most of its energy fracturing
 6 the femur.
 7 THE CHIEF CORONER: I think we --
 8 MR HOUGH: We can take that image off screen, please.
 9 Your wound track E, was this one or more wound
 10 tracks associated with wounds near the right shoulder
 11 blade.
 12 A. Yes, exactly. The shoulder blade itself was broken into
 13 many pieces. Some fractures in the three wounds in that
 14 region over the back of the right shoulder blade
 15 potentially represent entry, exit and then reentry of
 16 projectile fragments and also potentially bone.
 17 Q. We can put on {PM0101/6} please of the body map. So
 18 these are the wounds at 2.5 and 2.6 --
 19 A. Yes, exactly.
 20 Q. -- in the right shoulder blade which caused that
 21 fracturing of the right shoulder blade?
 22 A. Yes, exactly.
 23 Q. Was the bullet associated with one or more of those
 24 wounds recovered?
 25 A. Yes, but they were on the other side from the region of

26

1 the left back of the shoulder.
 2 Q. And then if we can go to page 10, please {PM0101/10},
 3 did you identify a wound track relating to the wounding
 4 to the right upper arm?
 5 A. Yes, and I felt that that was best explained by a bullet
 6 entering and exiting and then re-entering, either bullet
 7 or fragments, with the bullet ultimately being recovered
 8 from the lower end of the right forearm just beyond the
 9 fracturing which I described to the forearm bones, the
 10 radius and the ulna.
 11 Q. We can take the images off screen now.
 12 Moving on to the remainder of your internal
 13 examination, is it right to say that your examination of
 14 the cardiovascular system identified the puncture damage
 15 described in relation to the first of your wound tracks,
 16 wound A?
 17 A. Yes.
 18 Q. What were your findings in relation to the respiratory
 19 system on internal examination?
 20 A. So there's injury to the region of the larynx.
 21 I carried out a formal dissection of the neck in layers,
 22 and that showed an area of blotchy bruising over the
 23 right sternomastoid muscle, this is the big muscle that
 24 when you turn your head to one side it runs from behind
 25 your ear down on to the upper part of the breastbone and

27

1 collarbone. So quite a broad area of bruising, 10 by
 2 6 cm.
 3 The part of the structure of the voice box called
 4 the hyoid bone was fractured with haemorrhage. There
 5 were no obvious projectile fragments in the surrounding
 6 tissues, however this injury is likely to relate to
 7 bullet fragments which were described on the CT scan by
 8 Dr Offiah.
 9 Q. Did you find a substantial amount of blood fluid in the
 10 chest space?
 11 A. Yes, I did.
 12 Q. Turning to the alimentary system, did you identify
 13 extensive liver damage as you've described in relation
 14 to the first two wound tracks?
 15 A. Yes, I did. So the liver was extensively disrupted
 16 which is one of the recognised features of a high
 17 velocity bullet: it disrupts well beyond what you
 18 imagine the track would be.
 19 Q. Turning to the musculoskeletal system, you already
 20 described some fractures. Are there any further
 21 fractures you identified which you would like to point
 22 out?
 23 A. No, there wasn't any deep injury to the face and I had
 24 a look at the front and back of the trunk and found
 25 nothing other than gunshot-related injuries.

28

1 Q. Moving to your conclusions, what was your headline
2 conclusion as to cause of death using the standard
3 notation?
4 A. So multiple gunshot wounds to chest and abdomen.
5 Q. You have referred to at least six wound tracks. Did you
6 conclude that there was evidence that Redouane had been
7 struck by at least six bullets?
8 A. Yes, exactly, with the tracks that I've described.
9 Q. Which was the most significant of those in relation to
10 cause of death?
11 A. Two of them, really. The one to the heart, that
12 disrupted the heart, would be rapidly fatal. Likewise
13 the one to the liver.
14 Q. So those were wounds A and B, the two entry wounds to
15 the chest?
16 A. Yes.
17 Q. Would either of those have been independently fatal?
18 A. Yes.
19 Q. What would have been the effect in terms of speed of
20 incapacitation?
21 A. Relatively rapid, but not instantaneous.
22 Q. The jury have heard, and in fact seen, that
23 Rachid Redouane went down to the ground with the first
24 shots fired at him, and that thereafter at about 6 or 7
25 minutes past the first engagement, further shots were

29

1 fired at him when he moved both his legs and his arms in
2 an apparently purposeful manner.
3 A. Yes.
4 Q. First of all, is it possible that either/or both of
5 these initial wounds could have been inflicted in the
6 first engagement and Redouane still be capable of some
7 purposeful movement 6 or 7 minutes later?
8 A. I think unlikely in relation to the heart wound;
9 conceivably possible in relation to the liver wound.
10 Q. So it's possible, is it, that the liver wound was
11 inflicted in the initial engagement, Redouane was
12 capable of continued movement for some 6 or 7 minutes,
13 but was beyond saving?
14 A. Yes, I mean that would be a non-survivable injury in any
15 case, but I cannot exclude the possibility that he was
16 still alive, having sustained that wound.
17 Q. So it's possible that the injuries inflicted in the
18 initial engagement were irremediably fatal?
19 A. Yes.
20 Q. But is it also possible, since there were multiple shots
21 fired at him 6 or 7 minutes later, that the initial
22 injuries were survivable and that it was the later
23 injuries that were non-survivable?
24 A. Yes, we see that quite a lot, really, in relation to
25 other sorts of wounding, like stab wounds to the heart,

30

1 you find that somebody has been ultimately fatally
2 stabbed to the heart and yet they are capable of running
3 100 metres after sustaining the injury. So you have to
4 be very careful. With young fit people, they are
5 capable of sustaining life for minutes even though
6 they've got a non-survivable injury.
7 Q. Were any of the other wounds likely to be fatal and
8 non-survivable?
9 A. No. I mean, the right femur being fractured to the
10 extent it would be associated with a lot of
11 bleeding, but that would potentially be survivable.
12 Q. Did you identify any close-range discharge effects on
13 Rachid Redouane's body?
14 A. No, I didn't. So that stippling of the skin, I didn't
15 see anything like that. But I should say that clothing
16 is very important when you're looking for those sort of
17 effects.
18 Q. Are you able to say anything about the sequence in which
19 the different wounds were inflicted?
20 A. No. They would be consistent with the sequence that you
21 have described to me, but I can't say what order the
22 various gunshot wounds happened in.
23 Q. So presumably you're also not able to say anything about
24 the times between the infliction of any of the injuries?
25 A. Not from a pathological point of view, no.

31

1 Q. Were there any toxicological findings of relevance in
2 relation to Redouane?
3 A. Again, the urine screening showed the anabolic steroid
4 DHEA, and the same comments would apply to that: if he
5 had been administered it, it might have had a placebo
6 effect, but if the expert on anabolic steroids thinks it
7 would actually have been unlikely to affect him
8 mentally, then I would support that view.
9 Q. That was the evidence of Dr Cowan to the Inquests of the
10 victims.
11 A. Yes, exactly.
12 MR HOUGH: Thank you very much. Those are all my questions
13 of you. Let me check whether others have any questions.
14 Thank you very much for your evidence.
15 A. Thank you.
16 Thank you, my Lord.
17 THE CHIEF CORONER: Thank you very much, Dr Cary.
18 A. If I may be released?
19 THE CHIEF CORONER: Certainly, thank you very much.
20 MR HOUGH: Sir, Dr Poole will not be available for another
21 20 to 25 minutes, so may I suggest we have
22 our mid-morning break there.
23 THE CHIEF CORONER: We will take our break there. And
24 Dr Poole obviously deals with Khuram Butt and his
25 post mortem so we'll take our break there, members of

32

1 the jury, and we'll sit again in 15 or 20 minutes' time.
 2 Thank you.
 3 (10.56 am)
 4 (A short break)
 5 (11.31 am)
 6 (In the absence of the jury)
 7 THE CHIEF CORONER: Good morning, Dr Poole.
 8 DR POOLE: Good morning.
 9 THE CHIEF CORONER: I understand you have got a busy day?
 10 DR POOLE: Rather, yes.
 11 (In the presence of the jury)
 12 MR HOUGH: Sir, the next witness is Dr Simon Poole.
 13 THE CHIEF CORONER: Thank you.
 14 DR SIMON POOLE (affirmed)
 15 THE CHIEF CORONER: Good morning, Dr Poole. Please make
 16 yourself comfortable, sitting or standing, whichever you
 17 prefer.
 18 A. Thank you, sir.
 19 Questions by MR HOUGH QC
 20 MR HOUGH: Could you please give your full name for the
 21 court?
 22 A. Simon Maurice Poole.
 23 Q. Dr Poole, by profession are you a Home Office forensic
 24 pathologist?
 25 A. That's correct.

33

1 Q. In that capacity did you perform a post mortem
 2 examination on Khuram Butt, one of the deceased in these
 3 Inquests?
 4 A. Yes.
 5 Q. And could you summarise for the jury your relevant
 6 qualifications before you move to your report?
 7 A. I hold the degrees bachelor of science, bachelor of
 8 medicine and surgery, a diploma in medical jurisprudence
 9 and pathology, and I am a fellow of the Royal College of
 10 Pathologists.
 11 Q. And have you been on the Home Office register of
 12 forensic pathologists since 2007?
 13 A. Yes.
 14 Q. You made a report in relation to your examination of
 15 Khuram Butt, dated 10 November 2017. You may refer to
 16 that as you wish. Before performing the examination,
 17 and preparing your report, were you provided with
 18 background information about the events of the attack?
 19 A. Yes.
 20 Q. Were you also given access to a CT scan report showing
 21 the injuries?
 22 A. I was.
 23 Q. May we then begin with your external examination by
 24 reference to body map images, but before we look at the
 25 parts of the body, did you identify in the initial part

34

1 of the external examination that there was a handcuff
 2 secured around the left wrist only?
 3 A. I did.
 4 Q. May we then, please, have on the screen {PM0097/4}. Did
 5 you identify a wound on the left scalp area?
 6 A. I did, yes.
 7 Q. Is that a laceration?
 8 A. Yes.
 9 Q. A relatively trivial injury?
 10 A. Yes.
 11 Q. We can also see a more -- an apparently more significant
 12 injury below the jaw on the left side. Can you give any
 13 information about that injury?
 14 A. That was another example of a laceration which had the
 15 appearance of a gunshot wound.
 16 Q. Page 5, please {PM0097/5}, mark 1.2, did you identify
 17 lacerations above the right ear?
 18 A. Yes.
 19 Q. 1.3, a more extended curved wound further up the scalp?
 20 A. Yes.
 21 Q. 1.4, surrounded by a marking on the illustration,
 22 multiple minor grazing-type wounds over the right side
 23 of the face?
 24 A. That's correct.
 25 Q. Then at 1.5, what injury did you find there?

35

1 A. 1.5 is another example of a laceration which, in my
 2 view, was also strongly suggestive of a gunshot wound.
 3 Q. This was on the lower right side of the jaw?
 4 A. Yes.
 5 Q. Did that relate to or communicate with any of the other
 6 wounds?
 7 A. I think it probably communicated with the one we saw
 8 earlier on the left-hand side. 1.5 was associated with
 9 a massive trauma to the lower jaw.
 10 Q. 1.6, did you identify another relatively minor wound to
 11 the rear right-hand side of the scalp?
 12 A. Yes, I did.
 13 Q. May we then move to the upper arms, and page 6, please.
 14 {PM0097/6}. Did you identify at 2.1 a laceration to the
 15 side of the upper arm towards the shoulder?
 16 A. Yes.
 17 Q. Were you able to determine by the form of that injury
 18 what had caused it?
 19 A. That suggested a gunshot wound and it was also
 20 associated with damage to the bone of the arm, the
 21 humerus.
 22 Q. {PM0097/7}, please. Under the right arm in the armpit
 23 area did you find a complex of wounds?
 24 A. Yes. A very irregular complex group of injuries
 25 including lacerations or splits to the skin.

36

1 Q. Were they associated with any internal damage?
 2 A. Yes, there clearly would have been soft tissue damage,
 3 and by soft tissue I mean the fat underlying the skin,
 4 and also the muscle, which is discernible in the
 5 graphic.
 6 Q. Then page 8, please {PM0097/8}. Did you identify some
 7 relatively minor or trivial injuries on the inner aspect
 8 of the right arm?
 9 A. Yes, I did.
 10 Q. {PM0097/9}, please. Did you identify some abrasions in
 11 the area of the right elbow?
 12 A. Yes.
 13 Q. {PM0097/10}, please. Did you identify extensive damage
 14 to the back of the right hand in the form of abrasions
 15 and lacerations?
 16 A. I did.
 17 Q. Were you able to determine from the appearance of these
 18 injuries what had caused them?
 19 A. In my view they were consistent with gunshot-related
 20 injuries, possibly also collapse or contact of the skin
 21 against something sharp, like broken glass.
 22 Q. Can we look now at {PM0097/11}. Did you identify
 23 a number of wounds in the area of the left wrist and
 24 hand?
 25 A. Yes.

37

1 Q. If we could look at page 12 as well {PM0097/12}. On
 2 this page we see an injury somewhat more substantial
 3 than those on the last image. This one on the surface
 4 of the skin near the wrist on the outside of the left
 5 arm.
 6 A. Yes.
 7 Q. Are you able to identify the type of injury we're
 8 looking at here?
 9 A. That's strongly suggestive also of a gunshot wound.
 10 Q. Page 13 {PM0097/13}. Can we see at 4.6 another more
 11 substantial soft tissue injury?
 12 A. Yes.
 13 Q. Also suggestive of gunshot damage?
 14 A. I would agree, yes.
 15 Q. {PM0097/14}, are you able to describe the injuries we
 16 see marked 4.7 and 4.9?
 17 A. Yes. These are examples of lacerated injuries. They've
 18 got complex or irregular outlines, have features of
 19 gunshot trauma.
 20 Q. Is it right to say that most of the injuries that you
 21 have identified so far which have gunshot
 22 characteristics were suggestive of bullets going across
 23 the surface of the skin rather than entering deep into
 24 the body?
 25 A. Yes.

38

1 Q. Then {PM0097/15}, please. At 4.10 can we see here
 2 a slightly different form of gunshot injury?
 3 A. Yes, two wounds are shown in the graphic. I have
 4 indicated that the larger -- sorry, the smaller is
 5 probably a gunshot entry wound, the larger the exit
 6 wound. The injuries were linked, so if you like you can
 7 think of it as an in-and-out or a through-and-through
 8 type injury and there was also associated damage to the
 9 bone of the arm, the humerus.
 10 Q. We then move to the torso, {PM0097/16}, please. Did you
 11 see quite extensive gunshot damage to the torso?
 12 A. Yes.
 13 Q. 5.1, you described the injury you had found at the right
 14 shoulder above the collarbone.
 15 A. Yes, that one, in my view, had features of an entry
 16 wound.
 17 Q. 5.2, we see a larger area of tissue damage. What's the
 18 nature of the injury you identified there?
 19 A. In my view that's gunshot-related as well. Most
 20 probably, almost certainly, an exit wound.
 21 Q. 5.3, can we see a series of lacerations over the right
 22 side of the trunk --
 23 A. Yes.
 24 Q. -- identified with the border marked on the plan?
 25 A. Yes.

39

1 Q. What can we see at 5.4 and 5.5, areas of oval-shaped
 2 tissue damage?
 3 A. Yes.
 4 Q. Were you able to characterise those also as having
 5 characteristics of gunshot damage?
 6 A. I would agree.
 7 Q. 5.6 is a smaller injury immediately below 5.5 on the
 8 left side of the chest. What form of injury was that?
 9 A. In my view that could also be a gunshot wound,
 10 specifically a feature suggestive of an entry-type
 11 injury.
 12 Q. {PM0097/17}, please. 5.7 has the appearance of
 13 a discoloured bump in the skin. What are we looking at
 14 there?
 15 A. That's an area where the bullet was found underneath the
 16 skin surface, where it had come to rest.
 17 Q. And that's in the abdomen or midriff area just to the
 18 left of the centre line?
 19 A. That's correct, yes.
 20 Q. 5.8, can we see an area of substantial laceration damage
 21 to the left side of the trunk?
 22 A. That's right.
 23 Q. Does that, again, have the characteristics of gunshot
 24 damage?
 25 A. I would agree, yes.

40

1 Q. {PM0097/18}, please. At 5.9 can we see signs of minor
2 grazing to the right trunk above the hip?
3 A. Yes.
4 Q. 5.10 and 5.11, larger lacerations adjacent to each other
5 seen just at the top of the hip?
6 A. Yes.
7 Q. Again, do they have the characteristics of gunshot
8 damage?
9 A. Yes, they do.
10 Q. Page 19, please {PM0097/19}, we can see a wound just
11 above the right buttock towards the right side of the
12 body. What form of injury is shown there?
13 A. I figure that being an example of a gunshot wound,
14 specifically an entry site.
15 Q. 5.13, we see another relatively small circular type
16 wound further up the right side of the trunk on the back
17 but over to the right side. What form of injury is
18 that?
19 A. In the graphic you can see it resembles number 12 and in
20 my view that also most likely represents a gunshot entry
21 site.
22 Q. Then finally {PM0097/20}, 5.14 to 5.16 are signs of
23 injury over to the left side of the back. What
24 characteristics did those wounds have?
25 A. There were certainly features suggestive of gunshot

41

1 injury.
2 Q. Were they characterised by the signs of entry wounds or
3 grazing-type injuries?
4 A. I would favour entry, given the relatively small size,
5 and the abrasion or grazing around some of them.
6 Q. We can take those images down now. May I now turn to
7 your internal examination which you address from page 8
8 of your report.
9 First of all, looking to the musculoskeletal system,
10 what findings did you make in that regard?
11 A. There was a retained bullet in the right shoulder joint
12 and the position is confirmed by Dr Offiah's CT scan,
13 incidentally. There was a fracture to one of the bones
14 in the right hand. Damage was noted to left sided ribs.
15 Q. Were there three left sided ribs damaged?
16 A. Yes. 8, 9 and 10.
17 Q. And damage to any of the ribs on the right side?
18 A. Yes, the right fourth rib was fractured. Additional
19 fractures found to the ribs 8 and 9 also on the right
20 side. And there was fracture to the left arm, affecting
21 the elbow. And a bullet track was noted on the front of
22 the chest on the upper part of the breastbone, that's
23 the third interspace I refer to in my statement.
24 Q. Did you carry out an examination of the cardiovascular
25 system, the heart and the large vessels?

42

1 A. I did, and there were no features of any significant
2 natural disease to those structures.
3 Q. Did you find signs of haemorrhage in the area of the
4 heart?
5 A. Yes, I did. In the right main pumping chamber, the
6 ventricle, although in isolation that's a non-specific
7 finding.
8 Q. Turning to the respiratory system, the lungs and
9 airways.
10 A. Yes.
11 Q. What findings did you make there?
12 A. Another bullet was found in the right chest cavity. It
13 I was alerted to its presence by the CT scan report. It
14 was a free-floating bullet; it wasn't fixed in any
15 structure.
16 I noted that there was extensive bloodstaining
17 around both lungs and the pleural cavities, and also
18 bleeding in relation to the rib fractures.
19 Q. What was the condition of the lungs?
20 A. They were both collapsed, and I found a perforating
21 through-and-through, or if you prefer, an in-and-out
22 injury to the right lung.
23 Q. So very substantial damage to the lungs?
24 A. Yes.
25 Q. Turning to the gastrointestinal system, including the

43

1 stomach, intestines, liver and so on. What findings did
2 you make there?
3 A. There was a perforating, clearly due to a gunshot wound,
4 to the stomach. Some of the gastric contents had leaked
5 out into the abdomen. There was also bloodstaining of
6 the abdomen and fecal matter. I noted perforating
7 injury due to gunshot wound to the right lobe of the
8 liver, and the colour of the liver was pale, and
9 I attribute that to blood loss as a result of injury.
10 Q. Turning then to the central nervous system, the area of
11 the head and skull, did you notice any damage there in
12 the course of your examination that was significant?
13 A. There was some bleeding underneath the skin over the
14 left temple, so just above the left ear, but I didn't
15 find any recent fractures to the skull.
16 Q. So is it right that the principal damage internally was
17 to the lungs and to the gastrointestinal system,
18 specifically the stomach and liver?
19 A. Yes, I agree.
20 Q. Were there any other findings of note from your internal
21 examination?
22 A. No.
23 Q. May we then turn to your conclusions. In summary, what
24 were your findings as to the overall picture of
25 injuries?

44

1 A. A comment I've written: numerous puncture lacerations
 2 were found at autopsy consistent with multiple gunshot
 3 wounds.
 4 Q. You've identified three projectiles, bullets or
 5 fragments of bullets that were found retained within the
 6 structure of the body.
 7 A. Yes.
 8 Q. You've also referred to a number of through-and-through
 9 or perforating injuries.
 10 A. Yes.
 11 Q. Now, we heard in relation to the last deceased
 12 considered, Rachid Redouane, that Dr Cary had been able
 13 to identify particular wound tracks --
 14 A. Yes.
 15 Q. -- between certain entry and exit sites or certain entry
 16 sites and the position of retained projectiles. Was
 17 that possible in the case of Khuram Butt?
 18 A. No, except in one or two isolated incidents where I've
 19 highlighted communicating wounds, I think to one arm in
 20 particular. I found it difficult due to the sheer
 21 number of wounds present and the close relationship
 22 between some of them, so, for example, entries and exits
 23 could have become crossed, so I was not able to
 24 confidently, on the basis of the external examination or
 25 the internal examination, to link particular

45

1 lacerations.
 2 Q. Was it also possible that some of the wounds on the
 3 surface of the body that were relatively trivial could
 4 have been either caused by a glancing bullet or some
 5 other form of damage?
 6 A. It's certainly possible.
 7 Q. So does it follow from those comments that you're not
 8 able to say how many bullets struck Khuram Butt?
 9 A. No.
 10 Q. Are you able to say whether any of the particular
 11 internal damage was responsible for death?
 12 A. In my view the most significant of the internal injuries
 13 was the in-and-out injury to the right lung, though
 14 clearly the trauma to the liver can't be regarded as
 15 trivial. Having said that, I'm not in a position to
 16 link the internal injuries to any particular given
 17 external wounds.
 18 Q. But is it possible that the fatal injury was the result
 19 of one or perhaps two bullets fired?
 20 A. Yes, that's certainly possible.
 21 Q. The evidence the jury have heard suggests that
 22 Khuram Butt was shot first of all in an engagement with
 23 armed officers just before 10.17. He lay on the ground
 24 then, and made some movements at around 10.23 as
 25 a result of which he was shot once again.

46

1 A. Yes.
 2 Q. Made further movements at 10.28, 10.29 and 10.31, as
 3 a result of which he was shot on further occasions, and
 4 that overall, many bullets were fired in his direction.
 5 A. Yes.
 6 Q. Was your post mortem examination consistent with that
 7 sequence of events?
 8 A. Entirely.
 9 Q. Are you able to say, based on pathological findings, at
 10 what point in that sequence fatal or non-survivable
 11 injuries were inflicted?
 12 A. No.
 13 Q. So it's possible that non-survivable injuries were
 14 inflicted in the first engagement or, indeed, at the
 15 later points in firing?
 16 A. Yes, that is possible.
 17 Q. To confirm, the cause of death was given in standard
 18 notation as 1A, multiple gunshot wounds?
 19 A. That's correct.
 20 MR HOUGH: Thank you very much. Those are all the questions
 21 I have for you, I will check whether others have any
 22 questions.
 23 No. Thank you very much, Dr Poole, for being so
 24 accommodating.
 25 THE CHIEF CORONER: Thank you very much, Dr Poole. The jury

47

1 won't know, but I know, but you're also giving evidence
 2 in another court --
 3 A. Yes, sir.
 4 THE CHIEF CORONER: -- in a wholly unconnected case, so
 5 thank you very much for, as it were, splitting your time
 6 between the two courts.
 7 A. Not at all.
 8 THE CHIEF CORONER: And I've also expressed my thanks to the
 9 judge for releasing you from there to come to us, thank
 10 you very much.
 11 A. Thank you.
 12 MR HOUGH: Our final witness is Detective Superintendent
 13 Riggs.
 14 THE CHIEF CORONER: Thank you.
 15 DETECTIVE SUPERINTENDENT REBECCA RIGGS (recalled)
 16 Questions by MR HOUGH QC
 17 MR HOUGH: Detective Superintendent, you remain under oath.
 18 In the course of your investigations, did your
 19 officers take steps to establish and confirm personal
 20 particulars in relation to each of those who died which
 21 are needed for death registration purposes?
 22 A. Yes, sir, they did.
 23 Q. And are those in relation to each of the deceased first
 24 of all the time, date and place of death?
 25 A. Yes, sir.

48

1 Q. The name and surname of the deceased?
 2 A. Correct, yes.
 3 Q. Gender?
 4 A. Yes.
 5 Q. Date and place of birth?
 6 A. Yes.
 7 Q. Nationality, and occupation and usual address?
 8 A. Yes, sir.
 9 Q. Using the information you obtained, have you assisted in
 10 completion of draft Record of Inquest forms with those
 11 particulars filled in?
 12 A. Yes, sir, that's right.
 13 Q. Do you have copies of those in front of you?
 14 A. I do.
 15 Q. I think you, sir, also have copies of those in front of
 16 you.
 17 THE CHIEF CORONER: I've got them, yes.
 18 MR HOUGH: Can you confirm, based on your team's
 19 investigative work, that the information in those
 20 Records of Inquest is correct?
 21 A. Yes, it's all correct.
 22 MR HOUGH: Thank you very much. Those are all the questions
 23 that I have. It's a formal exercise but a necessary
 24 one.
 25 THE CHIEF CORONER: Yes, absolutely.

49

1 MR HOUGH: Let me just check whether anyone else has
 2 questions of the officer.
 3 MR HORWELL: No, thank you.
 4 MR HOUGH: Thank you very much, that's all the evidence we
 5 have, sir.
 6 A. Thank you, sir.
 7 THE CHIEF CORONER: Thank you very much indeed.
 8 Mr Hough, the next stage that we come to in the
 9 Inquest is that there are various issues of law that
 10 I need to resolve with you and with other counsel for
 11 interested persons, which we will do, but what I'm going
 12 to do is to release the jury now and I'm going to ask
 13 you -- you can have a lie-in on Monday. If you would
 14 like to be here for noon, please, on Monday, 12 o'clock
 15 noon on Monday, and then we will embark upon my summary
 16 of the evidence you've listened to and certain legal
 17 directions that I've got that I wish to give to you as
 18 well.
 19 The other thing you're going to be provided with on
 20 Monday is a bundle of some photographs. We've looked at
 21 various images on screen, but it seemed to all of us
 22 that it may help you in the course of listening to my
 23 summary and then in the course of the work that you will
 24 need to do as a consequence of that to have a hard copy
 25 file with some of the images, rather easier than

50

1 looking, perhaps, at the screen. So Mr Hough will take
 2 you through those when we meet again on Monday at noon
 3 and then, as I say, I will sum the evidence up to you.
 4 Enjoy your weekend, whatever you've got planned.
 5 There's a lot of sport going on this weekend, I don't
 6 know which sport may take your fancy, but you've got
 7 quite a range to choose from.
 8 But can I just repeat what I said when we broke last
 9 weekend: as best you can, press that pause button, get
 10 on with the rest of your lives and don't concern
 11 yourself with this, and when we meet again on Monday at
 12 noon we will then move on to the next stage of these
 13 Inquests, but thank you very much.

(In the absence of the jury)

15 MR HOUGH: Sir, later this afternoon we will be circulating
 16 to interested persons submissions on determinations.
 17 THE CHIEF CORONER: Yes.
 18 MR HOUGH: We will also be circulating a draft set of
 19 written legal directions for the jury. Interested
 20 persons who wish to put in written legal submissions may
 21 do so at any time up until Monday morning before the
 22 oral submissions begin.
 23 THE CHIEF CORONER: Yes.
 24 MR HOUGH: I understand it is your intention to sit with
 25 advocates at around 11.30 on Monday?

51

1 THE CHIEF CORONER: Yes. I took my hint from Mr Horwell who
 2 suggested that the oral submissions may not be as long
 3 as I had initially thought. I've got rather further to
 4 travel on Monday morning, which is why I thought we
 5 would start in court at 11.30, but I hope that will
 6 allow sufficient time.
 7 MR HORWELL: Sir, yes.
 8 MR HOUGH: I understand from Mr Horwell that his submissions
 9 will be succinct but as substantial as ever.
 10 THE CHIEF CORONER: Yes, and significant no doubt.
 11 That's fine. In terms of -- again, just so that
 12 everyone is aware, what I intend, Mr Hough, to do as
 13 part of my summing-up of the evidence, with the
 14 assistance of Oli, is to show a couple of passages of
 15 the footage that we've got. We have looked at the
 16 footage in extensive detail but it seemed to me that
 17 before I summarise the evidence, first of all of the
 18 arrival of the City of London ARV and the officers in
 19 there, to simply show without -- at slow speed or
 20 breaking it down frame-by-frame, is to simply show the
 21 footage as the scene is as the City of London officers
 22 first arrive, then with the arrival of the first of the
 23 ARVs from the Metropolitan Police, and again to show
 24 these in real time just to show how a quick-moving
 25 an event it was. As I say, we've looked in close detail

52

1 at the actions of each of the individual officers , but
 2 to some extent one can lose sight of actually really
 3 what a fast-moving event this was by doing that, and so
 4 it seemed to me important to show those two bits of
 5 footage.
 6 MR HOUGH: Yes. May I just add this , for anyone reading the
 7 transcript in particular : that the bundle which will be
 8 given to the members of the jury and gone through in the
 9 way you indicated on Monday is the core graphics bundle
 10 in its entirety , which is a single file on the Opus
 11 system.
 12 THE CHIEF CORONER: Yes.
 13 MR HOUGH: The jury have seen almost all the pages of that
 14 bundle in the course of the evidence and we don't
 15 consider that the few pages that they haven't seen are
 16 likely to distract or prejudice them in any way.
 17 THE CHIEF CORONER: And it seemed to me the other advantage
 18 of giving them the whole bundle is that we gave to them
 19 a very small section before we went on the view which
 20 had the same pagination as the core bundle, so if
 21 they've still got those individual bundles we will
 22 perhaps explain to them where they came from in the
 23 overall sequence of events that evening.
 24 Very well, I will rise .
 25 (12.04 pm)

1 (The court adjourned until 11.30 am on
 2 Monday, 15 July 2019)

3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25

	INDEX	PAGE
1		
2		
3	DR NATHANIEL CARY (affirmed)	2
4	Questions by MR HOUGH QC	2
5	DR SIMON POOLE (affirmed)	33
6	Questions by MR HOUGH QC	33
7	DETECTIVE SUPERINTENDENT REBECCA	48
8	RIGGS (recalled)	
9		
10	Questions by MR HOUGH QC	48
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

A							
	30:20 31:23 34:20	20:13 24:17 25:10,20	bone (10) 23:2 24:17,22	carry (1) 42:24	39:14	13:12 33:25 35:24	
	35:11 36:2,19 37:4,20	26:10,23 31:10	25:6,25 26:1,16 28:4	cartilage (3) 24:1,3,6	college (2) 2:25 34:9	40:19 47:19	
	38:9,13 39:8 40:4,9	36:8,20 37:1 39:8	36:20 39:9	cartilages (1) 24:1	colour (2) 24:5 44:8	49:2,20,21	
abdomen (5) 11:18	41:20 42:19 43:17	associates (1) 15:17	bones (4) 19:18 20:15	cary (8) 1:25	combination (1) 14:9	costal (2) 23:25 24:5	
29:4 40:17 44:5,6	44:5 45:8 46:2 48:1,8	44:5 45:8 46:2 48:1,8	27:9 42:13	2:1,2,12,13 32:17	come (10) 4:6 5:13,14	counsel (1) 50:10	
abdominal (1) 12:24	49:15 51:18	attackers (2) 1:13 16:7	bony (3) 20:13 24:2,4	45:12 55:3	6:15 7:2 8:14 20:5	couple (1) 52:14	
ability (1) 20:7	although (2) 11:25 43:6	attributable (1) 23:4	border (2) 23:25 39:24	cases (4) 3:7,9,12,15	40:16 48:9 50:8	course (9) 9:14 10:23	
able (17) 13:13 15:12	ammunition (1) 5:10	attribute (1) 44:9	both (9) 1:11 11:4	cause (13) 7:24	comes (3) 1:6 7:24 22:7	11:6 24:13 44:12	
16:8 22:3,3 31:18,23	amount (1) 28:9	autopsies (1) 3:20	19:18 23:17 24:21	11:7,17,20,24 17:9	comfortable (2) 2:5	48:18 50:22,23 53:14	
36:17 37:17 38:7,15	anabolic (4) 15:22,23	autopsy (1) 45:2	30:1,4 43:17,20	19:4 20:7 24:10 25:18	33:16	courts (1) 48:6	
40:4 45:12,23 46:8,10	32:3,6	available (1) 32:20	bottom (1) 8:20	29:2,10 47:17	coming (2) 9:4 11:7	cowan (2) 16:5 32:9	
47:9	angle (3) 14:5,7,8	aware (1) 52:12	box (1) 28:3	caused (16) 7:9,16 10:1	comment (1) 45:1	crossed (1) 45:23	
above (8) 4:18 19:3,22	another (21) 9:23 11:1		break (5) 25:4	12:5,21,23 15:13,17	comments (2) 32:4 46:7	ct (5) 3:21 28:7 34:20	
35:17 39:14 41:2,11	14:9 17:1 18:1,10,17		32:22,23,25 33:4	23:7 25:8,22,23 26:20	communited (2)	42:12 43:13	
44:14	19:10,24 20:2,8,11		breaking (2) 25:2 52:20	36:18 37:18 46:4	25:23,24	curved (1) 35:19	
abrasion (6) 4:18 5:24	21:7 32:20 35:14		breast (1) 23:2	causing (1) 25:16	common (1) 4:24	cut (2) 7:9,10	
18:7 21:3,13 42:5	36:1,10 38:10 41:15		breastbone (3) 24:1	cavities (1) 43:17	communicate (1) 36:5		
abrasions (3) 7:15	43:12 48:2		27:25 42:22	cavity (1) 43:12	communicated (1) 36:7		
37:10,14	anyone (2) 50:1 53:6		brief (1) 2:21	central (2) 6:23 44:10	communicating (1)		
absence (3) 1:3 33:6	anything (8) 8:17 12:1		broad (1) 28:1	centre (2) 5:6 40:18	45:19	d (1) 25:19	
51:14	13:8,13 22:17		broader (1) 17:4	certain (3) 45:15,15	compared (2) 4:14	damage (56)	
absolutely (5) 2:6 10:2	31:15,18,23		broke (1) 51:8	50:16	21:23	9:1,3,16,21 10:1,8	
16:9 17:6 49:25	aorta (12) 9:4,8,21		broken (3) 25:24 26:12	chamber (1) 43:5	completely (1) 5:11	11:7,12 12:5,22,23	
abuse (1) 15:21	10:8,9,24 11:1,2		37:21	character (1) 7:8	completion (1) 49:10	15:5,6 17:23	
access (2) 3:21 34:20	12:6,24 13:8 14:17		brought (1) 13:10	characterise (1) 40:4	complex (3) 36:23,24	19:5,13,14,15,22,24	
accommodating (1)	apart (1) 15:1		bruising (4) 18:16 21:16	characterised (1) 42:2	38:18	20:12,21 21:21 22:24	
47:24	apparently (2) 30:2		27:22 28:1	characteristic (2) 5:16	complexity (1) 22:2	23:7,8 24:8,9,10,14	
across (3) 17:7 25:15	35:11		brushed (1) 15:7	21:23	complicated (1) 16:19	25:8,9,16,22 27:14	
38:22	appearance (5) 5:17		bullet (43) 4:23,25	characteristics (7) 7:18	conceivably (1) 30:9	28:13 36:20 37:1,2,13	
actions (1) 53:1	17:4 35:15 37:17		5:2,9 6:4 7:2,4	14:25 38:22 40:5,23	concern (1) 51:10	38:13 39:8,11,17	
active (1) 16:3	40:12		9:1,10,12 10:1,16,23	41:7,24	conclude (1) 29:6	40:2,5,20,24 41:8	
actually (10) 4:13,23	appearances (1) 18:4		11:7 15:7 17:7	check (3) 32:13 47:21	concluded (1) 16:6	42:14,17 43:23	
6:4 7:20 8:13 16:3	appears (1) 17:3		19:4,15,25 21:10	50:1	conclusion (3) 11:17	44:11,16 46:5,11	
24:23 25:4 32:7 53:2	apply (1) 32:4		22:21 23:5,7	chest (18) 5:4,6 8:25	15:13 29:2	damaged (6) 10:3,10,22	
add (1) 53:6	area (23) 6:6 9:25 16:10		24:8,16,21,24	9:2,20 10:15 11:18	conclusions (6) 11:16	11:3 23:2 42:15	
additional (1) 42:18	17:14 18:15		25:13,15,16 26:2,23	12:4 13:25 16:22 17:2	14:18 15:10 22:8 29:1	damaging (1) 19:18	
address (2) 42:7 49:7	19:4,4,14,22,24 25:10		27:5,6,7 28:7,17 40:15	25:10 28:10 29:4,15	44:23	date (2) 48:24 49:5	
addressed (1) 16:15	27:22 28:1 35:5 36:23		42:11,21 43:12,14	40:8 42:22 43:12	concluded (1) 8:4	dated (3) 4:2 16:15	
adjacent (2) 21:1 41:4	37:11,23 39:17		46:4	chief (30)	condition (1) 43:19	34:15	
adjoining (1) 12:6	40:15,17,20 43:3		bullets (20) 3:24 5:9,13	1:4,6,9,14,20,23	confidence (1) 22:3	day (1) 33:9	
adjoined (1) 54:1	44:10		14:2,19 15:1 20:4,5,7	2:2,4,8 26:7	confident (1) 5:17	dead (2) 12:17,18	
administered (1) 32:5	areas (6) 16:20 19:15		21:25 22:14 25:2,13	32:17,19,23	confidentially (1) 45:24	deal (3) 4:1 8:20 17:23	
advantage (1) 53:17	20:8,12 24:15 40:1		29:7 38:22 45:4,5	33:7,9,13,15 47:25	confirm (3) 47:17 48:19	deals (1) 32:24	
advocates (1) 51:25	arm (18) 7:12 18:5,25		46:8,19 47:4	48:4,8,14 49:17,25	49:18	death (14) 3:8	
affect (1) 32:7	19:7,12,21 20:18,23		bump (1) 40:13	50:7 51:17,23 52:1,10	confirmed (1) 42:12	11:17,20,24	
affecting (2) 25:14	25:17 27:4		bundle (6) 50:20	53:12,17	consequence (1) 50:24	12:9,10,13 13:1	
42:20	36:15,20,22 37:8 38:5		53:7,9,14,18,20	choose (1) 51:7	consider (3) 18:21 21:5	29:2,10 46:11 47:17	
affirmed (4) 2:1 33:14	39:9 42:20 45:19		bundles (1) 53:21	chronology (1) 22:17	53:15	48:21,24	
55:3,5	armed (2) 13:17 46:23		busy (1) 33:9	circular (1) 41:15	considered (1) 45:12	deceased (10) 2:17	
after (4) 14:13 20:8	armpit (1) 17:2 25:10		butt (6) 32:24 34:2,15	circulated (1) 12:17	consistent (11) 8:6	15:17 20:4,6,6 22:13	
23:6 31:3	36:22		45:17 46:8,22	circulating (2) 5:15,18	14:15,19 15:4,14	34:2 45:11 48:23 49:1	
afternoon (1) 51:15	arms (3) 18:23 30:1		buttock (2) 26:3 41:11	circumference (1) 9:6	24:16,20 31:20 37:19	decision (1) 6:15	
again (17) 2:4 7:2 8:14	36:13		button (1) 51:9	circumspect (1) 24:19	45:2 47:6	deep (3) 17:10 28:23	
16:16 19:1,10 20:17	around (6) 24:2 35:2		bx44 (1) 13:20	circumstances (3) 15:16	consultant (1) 3:2	38:23	
22:16 32:3 33:1 40:23	42:5 43:17 46:24		bx45 (1) 13:20	16:12 21:8	contact (1) 37:20	deform (2) 25:3,4	
41:7 46:25 51:2,11	51:25			city (2) 52:18,21	contents (1) 44:4	degrees (1) 34:7	
52:11,23	arrival (2) 52:18,22			clarify (1) 17:22	continue (1) 24:7	depths (1) 23:3	
against (1) 37:21	arrive (1) 52:22			clear (1) 1:21	continued (1) 30:12	describe (7) 11:23	
aggression (1) 15:24	arterial (1) 11:2			clearly (4) 5:7 37:2 44:3	continuing (1) 5:20	19:21 20:20 23:8,22	
agree (5) 16:11 38:14	artery (2) 9:4 12:6			46:14	continuity (1) 24:3	25:7 38:15	
40:6,25 44:19	arts (1) 2:22			close (4) 12:4 19:2	contributed (1) 11:24	described (11) 13:22	
airways (1) 43:9	arv (1) 52:18			45:21 52:25	copies (2) 49:13,15	15:8 20:21 27:9,15	
alerted (1) 43:13	arvs (1) 52:23			closely (1) 7:25	copy (1) 50:24	28:7,13,20 29:8 31:21	
alignments (2) 13:23	ascending (1) 9:8			closerange (2) 15:8	core (2) 53:9,20	39:13	
14:3	ask (3) 4:5 9:23 50:12			31:12	coroner (31)	description (4) 12:1	
alimentary (1) 28:12	asked (1) 3:9			clothing (1) 31:15	1:4,6,9,14,20,23	21:17 22:23 24:7	
alive (2) 12:15 30:16	aspect (6) 18:25 19:21			cm (10) 4:19	2:2,4,8 3:10 26:7	descriptively (1) 12:2	
allow (1) 52:6	20:18,23 26:2 37:7			6:1,1,11,11 7:11,19	32:17,19,23	designed (3) 5:10 14:23	
almost (2) 39:20 53:13	assessment (1) 8:4			8:7,15 28:2	33:7,9,13,15 47:25	25:3	
along (2) 9:21 25:2	assist (1) 22:22			collapse (5) 12:8,10,12	48:4,8,14 49:17,25	detail (2) 52:16,25	
already (2) 18:20 28:19	assistance (1) 52:14			13:1 37:20	50:7 51:17,23 52:1,10	detective (5) 21:19	
also (35) 3:21 8:10 9:14	assisted (1) 49:9			collapsed (1) 43:20	53:12,17	48:12,15,17 55:7	
10:3,7 11:4,7 13:5,6	associated (13) 12:7,25			collarbone (2) 28:1	correct (10) 2:15 3:19	determinations (1)	
14:11 21:16 26:16						51:16	

determine (2) 36:17
37:17
dhea (1) 32:4
diaphragm (2) 10:7,24
didnt (6) 10:18
11:13,13 31:14,14
44:14
die (1) 14:16
died (1) 48:20
different (16) 7:8 10:9
13:23 14:2,3,5,6,7,8,8
17:4,12 20:8 22:19
31:19 39:2
difficult (2) 22:2 45:20
diploma (2) 3:1 34:8
direction (1) 47:4
directions (2) 50:17
51:19
directorate (1) 2:24
discernible (1) 37:4
discharge (2) 8:5 31:12
discharged (1) 7:25
discoloured (1) 40:13
disease (2) 11:13 43:2
disrupt (1) 9:12
disrupted (4) 9:15
23:16 28:15 29:12
disruption (2) 9:4 23:20
disrupts (1) 28:17
dissection (3) 6:15 23:6
27:21
dissipate (1) 14:23
dissipated (1) 5:15
distinct (2) 18:15 22:4
distract (1) 53:16
distracted (1) 4:15
distress (1) 1:19
does (4) 14:11 17:10
40:23 46:7
doesnt (2) 4:25 22:17
doing (1) 53:3
done (3) 3:12 6:14 9:1
dont (4) 5:13 51:5,10
53:14
doubt (1) 52:10
down (8) 17:24 18:9
20:18 21:16 27:25
29:23 42:6 52:20
dr (23) 1:25 2:1,2,13
8:4 28:8 32:9,17,20,24
33:7,8,10,12,14,15,23
42:12 45:12 47:23,25
55:3,5
draft (2) 49:10 51:18
dried (1) 5:25
drug (1) 16:3
due (3) 44:3,7 45:20
during (1) 13:17

E

e (1) 26:9
ear (3) 27:25 35:17
44:14
earlier (1) 36:8
easier (1) 50:25
effect (8) 7:22 16:1,11
17:5 21:10 25:14
29:19 32:6
effective (1) 16:2
effectively (2) 12:17
26:1
effects (7) 14:12 15:8
16:5,7 25:12 31:12,17

either (6) 5:10 13:2
24:16 27:6 29:17 46:4
eitheror (1) 30:4
elbow (4) 19:23 20:24
37:11 42:21
elements (2) 3:18 11:8
else (2) 8:17 50:1
embark (1) 50:15
emergency (1) 13:9
eminent (1) 16:4
end (2) 21:24 27:8
ended (1) 10:17
endorse (1) 16:8
energy (8) 5:11,12,15
14:24 17:9 24:23 25:3
26:5
engage (1) 21:18
engagement (7) 13:17
29:25 30:6,11,18
46:22 47:14
enjoy (1) 51:4
enter (1) 20:4
entered (2) 10:2 12:3
entering (4) 13:22 14:2
27:6 38:23
entirely (3) 14:15 24:25
47:8
entirety (1) 53:10
entrance (3) 6:25 21:23
23:24
entries (2) 21:25 45:22
entry (31) 5:8,16,18
6:8,10,13,16 8:24
9:3,23,24 10:1 16:23
17:1,17,22 18:3 23:1
24:20 25:18,20 26:15
29:14 39:5,15
41:14,20 42:2,4
45:15,15
entrytype (1) 40:10
episode (1) 22:20
episodes (1) 22:19
equipment (1) 13:9
establish (1) 48:19
even (4) 13:7,9 25:13
31:5
evening (1) 53:23
event (2) 52:25 53:3
events (3) 34:18 47:7
53:23
ever (1) 52:9
everybody (1) 1:22
everyone (1) 52:12
everything (2) 4:13,15
evidence (18) 1:12
13:16 14:12 15:3
16:5,7 22:19 29:6
32:9,14 46:21 48:1
50:4,16 51:3 52:13,17
53:14
exactly (27) 5:5 8:12
9:11 11:10,22 12:20
18:12,14,22 19:8,19
20:3,25 21:11,16,22
22:5,12 23:18
24:12,18 25:21
26:12,19,22 29:8
32:11
examination (26) 4:5
5:20 8:16,17,20,23 9:1
11:14 16:14,17 22:11
27:13,13,19
34:2,14,16,23 35:1

42:7,24 44:12,21
45:24,25 47:6
examinations (4)
1:13,18 2:17 3:14
examined (1) 15:2
example (4) 35:14 36:1
41:13 45:22
examples (1) 38:17
excellent (1) 8:3
except (1) 45:18
exceptionally (1) 12:18
exclude (1) 30:15
exercise (3) 21:19 22:2
49:23
exit (18) 6:7,16 7:1
9:19 10:14,18 18:3
21:22 23:4
24:16,20,21,23 25:18
26:15 39:5,20 45:15
exited (3) 9:18 10:15
12:4
exiting (1) 27:6
exits (2) 22:1 45:22
expanded (2) 23:5 26:2
expert (4) 1:15 8:2 16:4
32:6
experts (1) 16:9
explain (1) 53:22
explained (1) 27:5
explanation (1) 14:6
explanations (1) 14:4
expressed (1) 48:8
extended (1) 35:19
extensive (8) 12:5,23
23:20 28:13 37:13
39:11 43:16 52:16
extensively (2) 23:3
28:15
extent (2) 31:10 53:2
external (13) 4:5 5:20
8:17,23 16:17 18:4
19:11 21:4,20 34:23
35:1 45:24 46:17
externally (2) 7:19 11:5
extremely (1) 14:23
eyebrow (1) 4:19

F

face (2) 28:23 35:23
factors (1) 14:10
fairly (2) 5:16 19:22
fancy (1) 51:6
far (1) 38:21
fastmoving (2) 14:1
53:3
fat (1) 37:3
fatal (8) 13:3,6
29:12,17 30:18 31:7
46:18 47:10
fatally (1) 31:1
favour (1) 42:4
feature (1) 40:10
features (6) 6:12 28:16
38:18 39:15 41:25
43:1
fecal (1) 44:6
feel (2) 4:23 10:17
feeling (1) 22:13
fellow (2) 2:25 34:9
felt (6) 6:25 15:15
16:10 22:7 25:15 27:5
femur (4) 25:24,25 26:6
31:9

few (1) 53:15
figure (1) 41:13
file (2) 50:25 53:10
filled (1) 49:11
final (2) 6:15 48:12
finally (4) 7:20 15:18
21:4 41:22
find (16) 3:24 4:10 5:7
6:6,24 7:7,13 16:21,24
22:9 28:9 31:1 35:25
36:23 43:3 44:15
finding (2) 15:20 43:7
findings (12) 11:11
14:15 15:18 19:11
27:18 32:1 42:10
43:11 44:1,20,24 47:9
fine (3) 2:6 8:19 52:11
firearm (1) 8:6
firearmsrelated (1) 3:12
fired (7) 8:6 13:18
29:24 30:1,21 46:19
47:4
firer (3) 14:5,7,8
firing (2) 22:20 47:15
first (32) 1:24
4:2,5,13,21 5:21 8:22
11:23,23,25 12:2,3
13:17 17:19 19:21
20:18 22:15,15,23
27:15 28:14 29:23,25
30:4,6 42:9 46:22
47:14 48:23
52:17,22,22
firstly (1) 7:14
fit (2) 12:14 31:4
fixed (1) 43:14
flank (2) 5:23 15:6
fluid (1) 28:9
follow (1) 46:7
footage (4) 52:15,16,21
53:5
forearm (9) 7:13,17
8:13,14 15:11 20:9,15
27:8,9
forensic (5) 2:13 3:3,6
33:23 34:12
forgive (1) 6:19
form (8) 15:12 36:17
37:14 39:2 40:8
41:12,17 46:5
formal (2) 27:21 49:23
forms (1) 49:10
forwards (1) 10:5
found (14) 1:7 4:22
5:22 10:15 23:5 28:24
39:13 40:15 42:19
43:12,20 45:2,5,20
fourth (3) 23:25 24:5
42:18
fracture (2) 42:13,20
fractured (6) 10:3 20:14
24:22 28:4 31:9 42:18
fractures (6) 26:13
28:20,21 42:19 43:18
44:15
fracturing (4) 25:23
26:5,21 27:9
fragments (9)
24:16,21,21,22 26:16
27:7 28:5,7 45:5
frame (1) 12:11
framebyframe (1) 52:20
free (1) 23:13

freefloating (1) 43:14
friday (1) 1:1
front (9) 8:24 9:20 12:4
13:25 24:25 28:24
42:21 49:13,15
frontal (1) 19:21
full (4) 2:10 3:2 11:14
33:20
further (18) 10:4 11:11
16:24 17:13,24,24
18:9 20:17,18 23:16
24:2 28:20 29:25
35:19 41:16 47:2,3
52:3

G

gastric (1) 44:4
gastrointestinal (2)
43:25 44:17
gave (3) 16:5 23:23
53:18
gender (1) 49:3
get (3) 4:15 25:12 51:9
give (4) 2:10 33:20
35:12 50:17
given (7) 3:21 24:23
34:20 42:4 46:16
47:17 53:8
giving (3) 1:12 48:1
53:18
glancing (3) 15:4 21:10
46:4
glass (1) 37:21
going (9) 7:14 10:23
19:4 25:13 38:22
50:11,12,19 51:5
gone (5) 5:9,14 7:2 9:2
53:8
good (10) 1:4,5,9 2:2,3
12:16 24:12 33:7,8,15
graduate (1) 2:23
graphic (4) 1:17 37:5
39:3 41:19
graphics (1) 53:9
graze (4) 4:18 5:24
18:7,14
grazing (2) 41:2 42:5
grazingtype (2) 35:22
42:3
gristly (1) 24:4
groin (2) 17:14 25:20
ground (2) 29:23 46:23
group (1) 36:24
guns (1) 22:20
gunshot (60) 3:13
4:14,16,24
5:8,16,18,19 6:13 7:23
8:24 9:19,23,24
11:18,23 12:21 13:2
14:19,21,25 15:5
16:23 17:1,17,21
18:1,10,17,20 19:1,10
20:2,11,22 21:17,20
29:4 31:22 35:15
36:2,19 38:9,13,19,21
39:2,5,11 40:5,9,23
41:7,13,20,25 44:3,7
45:2 47:18
gunshotrelated (8) 3:23
16:20 19:14,24 20:21
28:25 37:19 39:19
gunshots (1) 13:22
gutter (7) 15:7 17:7,11
19:2,16 21:7 25:9

gutteringtype (1) 20:2
gutterrelated (1) 20:12
gutters (1) 20:3
guttertype (1) 19:25

H

haemorrhage (4) 12:8
13:1 28:4 43:3
half (1) 9:5
hand (8) 7:7,13
15:9,12,24 37:14,24
42:14
handcuff (1) 35:1
happened (2) 13:7
31:22
happy (1) 2:7
hard (3) 24:4 25:5 50:24
havent (3) 5:14 6:19
53:15
having (5) 12:5 21:24
30:16 40:4 46:15
head (3) 4:9 27:24
44:11
headline (1) 29:1
heard (4) 8:2 29:22
45:11 46:21
heart (14) 9:5,8,9
23:2,9,12,16 29:11,12
30:8,25 31:2 42:25
43:4
help (3) 3:24 22:23
50:22
helping (1) 3:21
here (8) 4:10,17 17:19
19:6,13 38:8 39:1
50:14
high (9) 3:13 11:3 14:25
17:9 20:6 23:19
25:3,12 28:16
highlighted (1) 45:19
highly (1) 10:10
highvelocity (1) 14:21
himself (1) 15:17
hint (1) 52:1
hip (3) 17:14 41:2,5
hit (1) 25:5
hold (3) 2:24 3:1 34:7
hole (1) 7:4
home (4) 2:13 3:4
33:23 34:11
hope (1) 52:5
hopefully (1) 5:10
horwell (4) 50:3
52:1,7,8
hough (35)
1:4,5,10,11,15,21,24
2:9,10 26:8 32:12,20
33:12,19,20 47:20
48:12,16,17 49:18,22
50:1,4,8 51:1,15,18,24
52:8,12 53:6,13
55:4,6,8
however (2) 23:5 28:6
humerus (2) 36:21 39:9
hyoid (1) 28:4

I

identified (16) 7:3
8:11,23 9:24 10:22
15:11 22:10,16,24
24:18 27:14 28:21
38:21 39:18,24 45:4

identify (22) 5:22
9:1,25 17:13 20:19
21:6,19 22:4 27:3
28:12 31:12 34:25
35:5,16 36:10,14
37:6,10,13,22 38:7
45:13
illustrate (1) 8:22
illustrating (1) 1:16
illustration (2) 10:13
35:21
im (10) 2:7,22,25 3:3
6:20 18:1 19:10 46:15
50:11,12
image (4) 11:19 23:22
26:8 38:3
images (6) 4:6 27:11
34:24 42:6 50:21,25
31:16 53:4
immediately (2) 13:10
40:7
important (8) 3:23 7:21
9:3,21 16:12 22:18
31:16 53:4
inandout (3) 39:7 43:21
46:13
incapacitated (1) 12:18
incapacitation (1) 29:20
incident (1) 14:1
incidentally (1) 42:13
incidents (1) 45:18
incised (1) 7:9
including (2) 36:25
43:25
increase (1) 15:23
independently (2) 13:3
29:17
index (1) 55:1
indicated (2) 39:4 53:9
individual (2) 53:1,21
individuals (1) 3:17
inflicted (7) 13:14
30:5,11,17 31:19
47:11,14
infliction (1) 31:24
information (5) 3:16
34:18 35:13 49:9,19
initial (7) 13:17 14:13
30:5,11,18,21 34:25
initially (2) 18:3 52:3
injected (1) 15:25
injuries (31) 1:16
3:12,22 4:9,12,21 6:3
17:19 21:2,21 28:25
30:17,22,23 31:24
34:21 36:24
37:7,18,20
38:15,17,20 39:6 42:3
44:25 45:9 46:12,16
47:11,13
injury (45) 4:13,14,22
7:16,21,25 8:5 15:4
16:20,21 18:6 20:13
21:4,6,14 27:20
28:6,23 30:14 31:3,6
35:9,12,13,25 36:17
38:2,7,11 39:2,8,13,18
40:7,8,11 41:12,17,23
42:1 43:22 44:7,9
46:13,18
inner (5) 18:25 19:21,22
26:2 37:7
inquest (3) 49:10,20

50:9
inquests (5) 2:17 16:4
 32:9 34:3 51:13
instance (1) 11:14
instances (2) 5:12,17
instantaneous (1) 29:21
intend (1) 52:12
intensive (1) 13:7
intention (1) 51:24
interest (1) 3:11
interested (3) 50:11
 51:16,19
internal (27) 3:22 6:14
 8:16,20,25 9:13,25
 10:22 11:12,14 12:8
 13:1 17:23 21:21
 22:10,24 23:21 24:13
 27:12,19 37:1 42:7
 44:20 45:25
 46:11,12,16
internally (2) 11:4 44:16
interspace (1) 42:23
intestines (1) 44:1
into (9) 7:17 9:2 20:6
 25:11,13,24 26:12
 38:23 44:5
intraventricular (1)
 23:14
investigating (1) 3:8
investigations (1) 48:18
investigative (1) 49:19
involved (3) 3:7,9 23:17
involving (1) 3:13
irregular (4) 19:1 20:22
 36:24 38:18
irremediably (1) 30:18
isolated (1) 45:18
isolation (1) 43:6
issues (1) 50:9
its (27) 2:12
 5:1,24,25,25 6:14 7:10
 9:3,6 11:6,25 12:2
 16:6 17:4,9 19:2 20:11
 22:7 26:5 30:10,17
 43:13 46:6 47:13
 49:21,23 53:10
itself (2) 23:12 26:12
ive (9) 3:4,12 29:8
 45:1,18 48:8 49:17
 50:17 52:3

J

jaw (3) 35:12 36:3,9
joint (1) 42:11
judge (1) 48:9
july (2) 1:1 54:2
junction (1) 23:13
jurisprudence (2) 3:2
 34:8
jury (16) 1:3,7,8 8:2
 29:22 33:1,6,11 34:5
 46:21 47:25 50:12
 51:14,19 53:8,13

K

khuram (6) 32:24
 34:2,15 45:17 46:8,22
kind (2) 7:16 14:1
knife (1) 15:15
know (3) 48:1,1 51:6

L

lacerated (2) 23:12
 38:17
laceration (7) 21:3
 24:10 35:7,14 36:1,14
lacerations (7) 35:17
 36:25 37:15 39:21
 41:4 45:1 46:1
large (4) 7:10 19:2,22
 42:25
larger (4) 39:4,5,17 41:4
larynx (1) 27:20
last (3) 38:3 45:11 51:8
later (5) 30:7,21,22
 47:15 51:15
lay (1) 46:23
layers (1) 27:21
leaked (1) 44:4
least (5) 18:3 22:14
 24:24 29:5,7
led (1) 23:20
left (37) 3:25 4:19 5:3
 7:7 10:5,20 15:12
 16:21 17:3 18:25
 19:3,7,12 21:6,13,25
 23:19
 25:9,10,12,14,17 27:1
 35:2,5,12 37:23 38:4
 40:8,18,21 41:23
 42:14,15,20 44:14,14
lefthand (1) 36:8
leg (1) 21:14
legal (3) 50:16 51:19,20
legs (2) 21:5 30:1
less (1) 8:7
let (2) 32:13 50:1
lein (1) 50:13
life (1) 31:5
like (8) 8:18 18:11
 28:21 30:25 31:15
 37:21 39:6 50:14
likely (12) 6:7 7:1 12:12
 15:13 22:7,8 23:7
 25:16 28:6 31:7 41:20
 53:16
likewise (2) 20:1 29:12
limbs (4) 6:17 7:6 18:23
 21:5
line (1) 40:18
link (2) 45:25 46:16
linked (1) 39:6
listened (1) 50:16
listening (1) 50:22
little (2) 12:14 17:24
liver (17) 10:8,24 12:23
 24:9,11,12,14
 28:13,15 29:13
 30:9,10 44:1,8,8,18
 46:14
lives (1) 51:10
lobe (2) 24:9 44:7
london (3) 2:24
 52:18,21
long (6) 6:1,11 7:11,19
 8:15 52:2
look (13) 4:13 5:19,21
 9:7,22 10:12,21 17:12
 22:15 28:24 34:24
 37:22 38:1
looked (3) 50:20
 52:15,25
looking (9) 14:18
 15:3,10 19:20 31:16

38:8 40:13 42:9 51:1
looks (2) 7:20 18:11
lose (4) 5:11,11 12:13
 53:2
loss (1) 44:9
lost (1) 26:5
lot (4) 10:9 30:24 31:10
 51:5
lower (14) 5:23
 10:8,9,24 11:1 12:24
 21:5,13,16 23:18,25
 27:8 36:3,9
lung (7) 10:6,24 24:8
 25:12,14 43:22 46:13
lungs (5) 43:8,17,19,23
 44:17

M

main (2) 9:4 43:5
major (3) 9:8 11:1
 24:13
manner (1) 30:2
many (11) 3:12 5:12,17
 21:24,25 22:1,6 25:24
 26:13 46:8 47:4
map (6) 4:6 6:18 17:3
 24:3 26:17 34:24
maps (9) 1:16 5:21 8:22
 9:7,22 10:12,21 17:13
 18:24
mark (5) 4:22 18:5,8,11
 35:16
marked (7) 8:25 16:21
 18:25 20:19 21:15
 38:16 39:24
marking (1) 35:21
marks (1) 5:22
massive (4) 12:8,25
 23:21 36:9
master (1) 2:22
matter (2) 12:19 44:6
matters (1) 4:16
maurice (1) 33:22
mean (4) 13:6 30:14
 31:9 37:3
means (3) 5:25 15:23
 25:24
measured (3) 6:1,11
 8:14
measures (1) 7:11
measuring (1) 7:18
medical (3) 2:23 3:1
 34:8
medicine (2) 2:25 34:8
meet (2) 51:2,11
meets (1) 17:2
members (2) 32:25 53:8
mentally (1) 32:8
mention (1) 8:18
metre (1) 8:1
metres (1) 31:3
metropolitan (1) 52:23
midline (3) 9:17 12:3,5
midmorning (1) 32:22
midriff (1) 40:17
midshin (1) 21:13
might (3) 16:2 24:24
 32:5
minor (4) 35:22 36:10
 37:7 41:1
minutes (8) 12:19 29:25
 30:7,12,21 31:5 32:21
 33:1

monday (11)
 50:13,14,15,20
 51:2,11,21,25 52:4
 53:9 54:2
more (14) 2:7 4:20 5:7
 16:19,20 18:1 24:3
 26:9,23 35:11,11,19
 38:2,10
morning (10) 1:4,5,9
 2:2,3 33:7,8,15 51:21
 52:4
mortem (7) 1:13,18
 2:16 3:14 32:25 34:1
 47:6
mortuary (1) 23:6
most (10) 5:11 9:2,21
 25:16 26:5 29:9 38:20
 39:19 41:20 46:12
move (16) 6:17 7:6 8:16
 11:16 14:13,22 16:14
 18:23 20:16 21:17
 22:22 26:4 34:6 36:13
 39:10 51:12
moved (1) 30:1
movement (2) 30:7,12
movements (2) 46:24
 47:2
moving (6) 7:12 14:22
 17:18 23:22 27:12
 29:1
much (16) 1:23 16:13
 20:11 32:12,14,17,19
 47:20,23,25 48:5,10
 49:22 50:4,7 51:13
multiple (5) 29:4 30:20
 35:22 45:2 47:18
muscle (3) 27:23,23
 37:4
musculoskeletal (2)
 28:19 42:9

N

name (3) 2:10 33:20
 49:1
narrow (1) 17:11
nathaniel (4) 1:25
 2:1,12 55:3
nationality (1) 49:7
natural (2) 11:13 43:2
nature (5) 14:11 18:18
 19:13 20:10 39:18
near (5) 7:22 24:1
 25:10 26:10 38:4
nearly (1) 3:5
neat (1) 17:11
necessary (1) 49:23
neck (1) 27:21
need (2) 50:10,24
needed (1) 48:21
neither (1) 13:10
nervous (1) 44:10
never (1) 20:4
nevertheless (2) 7:21
 22:3
next (7) 4:7 9:22 24:7
 26:4 33:12 50:8 51:12
nice (2) 1:9 2:4
nipple (1) 19:3
noncommittal (1) 19:10
nonspecific (1) 43:6
nonsurvivable (7) 13:6
 30:14,23 31:6,8
 47:10,13

noon (4) 50:14,15
 51:2,12
normal (1) 14:1
normally (1) 1:6
notation (3) 11:21 29:3
 47:18
note (1) 44:20
noted (4) 42:14,21
 43:16 44:6
nothing (1) 28:25
notice (2) 18:1 44:11
november (3) 4:3 16:16
 34:15
number (10) 7:14 12:19
 17:18 18:20 22:4,9
 37:23 41:19 45:8,21
numerous (1) 45:1

O

oath (1) 48:17
obtained (1) 49:9
obvious (1) 28:5
obviously (3) 1:17 3:18
 32:24
occasions (1) 47:3
occupation (1) 49:7
oclock (1) 50:14
offiah (1) 28:8
offiahs (1) 42:12
office (4) 2:13 3:4 33:23
 34:11
officer (1) 50:2
officers (7) 13:18,20
 46:23 48:19 52:18,21
 53:1
often (1) 3:7
oli (1) 52:14
once (2) 16:16 46:25
ones (1) 18:2
onward (1) 25:17
opinion (1) 12:7
opus (1) 53:10
oral (2) 51:22 52:2
order (4) 12:1 13:14
 22:16 31:21
organs (1) 11:15
oriented (1) 14:5
others (2) 32:13 47:21
outer (3) 20:18,23 23:9
outlines (1) 38:18
outset (1) 1:22
outside (2) 24:19 38:4
ovalshaped (1) 40:1
over (13) 5:23 6:5 15:8
 20:9 21:13 23:1 26:14
 27:22 35:22 39:21
 41:17,23 44:13
overall (3) 44:24 47:4
 53:23
own (1) 3:11
oxford (1) 2:23

P

pages (2) 53:13,15
pagination (1) 53:20
pale (1) 44:8
palpable (1) 5:1
paragraph (2) 14:18
 15:10
parchmented (2) 5:25
 7:15

part (10) 5:6 8:22 10:6
 17:12 25:11 27:25
 28:3 34:25 42:22
 52:13
partially (1) 24:24
particular (11) 3:11
 5:19 14:22 15:16
 22:20 45:13,20,25
 46:10,16 53:7
particularly (4) 8:18
 21:23 22:18 25:5
particulars (2) 48:20
 49:11
parts (2) 14:2 34:25
passages (1) 52:14
passed (5) 10:4,5
 19:15,25 24:25
passing (1) 25:15
past (2) 3:13 29:25
pathological (2) 31:25
 47:9
pathologist (5) 2:14
 3:3,6,6 33:24
pathologists (4) 1:12
 3:1 34:10,12
pathology (1) 34:9
pause (2) 1:5 51:9
penetrate (1) 25:17
penetrated (4) 8:13
 9:17 23:9,25
penetrating (1) 7:17
penetration (1) 24:15
people (2) 12:14 31:4
perforating (4) 43:20
 44:3,6 45:9
perform (2) 2:16 34:1
performed (2) 3:14 5:20
performing (1) 34:16
perhaps (3) 46:19 51:1
 53:22
pericardial (1) 23:10
period (4) 12:15 13:19
 14:14 15:22
personal (1) 48:19
persons (3) 50:11
 51:16,20
photographs (2) 1:17
 50:20
picture (1) 44:24
pieces (2) 25:25 26:13
place (2) 48:24 49:5
placebo (3) 16:1,11
 32:5
plan (1) 39:24
planned (1) 51:4
please (36) 2:4,10
 4:8,21 6:18,20
 7:3,6,12 8:9 9:12
 10:12 11:6 19:6,12,20
 20:16 26:4,8,17 27:2
 33:15,20 35:4,16
 36:13,22 37:6,10,13
 39:1,10 40:12 41:1,10
 50:14
pleural (1) 43:17
pm (1) 53:25
pm009710 (1) 37:13
pm009711 (1) 37:22
pm009712 (1) 38:1
pm009713 (1) 38:10
pm009714 (1) 38:15
pm009715 (1) 39:1
pm009716 (1) 39:10

pm009717 (1) 40:12
pm009718 (1) 41:1
pm009719 (1) 41:10
pm009720 (1) 41:22
pm00974 (1) 35:4
pm00975 (1) 35:16
pm00976 (1) 36:14
pm00977 (1) 36:22
pm00978 (1) 37:6
pm00979 (1) 37:10
pm010110 (2) 19:20
 27:2
pm010111 (1) 20:16
pm010112 (1) 21:5
pm010113 (1) 21:12
pm010114 (1) 22:22
pm010115 (1) 23:22
pm010116 (1) 24:7
pm010136 (1) 7:3
pm01014 (1) 16:18
pm01015 (1) 17:13
pm01016 (2) 17:18
 26:17
pm01017 (1) 18:24
pm01018 (1) 19:6
pm01019 (1) 19:12
pm010310 (1) 8:9
pm010311 (1) 8:21
pm010312 (1) 9:7
pm010313 (1) 9:12
pm010314 (1) 9:22
pm010315 (1) 10:21
pm010316 (1) 11:6
pm010317 (1) 10:12
pm01033 (1) 4:8
pm01034 (1) 4:21
pm01035 (1) 5:7
pm01036 (1) 5:21
pm01037 (1) 6:20
pm01038 (2) 6:17 7:6
pm01039 (1) 7:12
points (1) 47:15
police (2) 3:7 52:23
poole (13) 32:20,24
 33:7,8,10,12,14,15,22,23
 47:23,25 55:5
position (5) 5:3 18:10
 42:12 45:16 46:15
positive (1) 15:20
possibility (1) 30:15
possible (12)
 30:4,9,10,17,20 45:17
 46:2,6,18,20 47:13,16
possibly (1) 37:20
post (7) 1:13,18 2:16
 3:14 32:25 34:1 47:6
potent (1) 15:25
potential (1) 21:7
potentially (5) 11:5
 21:10 26:15,16 31:11
pours (1) 11:4
powder (2) 7:23,23
practise (1) 3:2
preceding (1) 15:22
prefer (2) 33:17 43:21
prejudice (1) 53:16
preliminary (1) 1:24
preparing (1) 34:17
presence (3) 1:8 33:11
 43:13
present (2) 4:12 45:21
press (1) 51:9
pressure (5) 11:2,4

12:13 23:18,19
presumably (1) 31:23
presumptive (6)
 6:10,14,25 8:24
 9:19,24
pretty (1) 21:7
primary (1) 11:17
principal (1) 44:16
probably (4) 8:1 36:7
 39:5,20
problem (1) 1:7
profession (2) 2:13
 33:23
professor (1) 16:5
projectile (2) 26:16 28:5
projectiles (2) 45:4,16
proportion (1) 12:16
provide (1) 2:20
provided (3) 3:15 34:17
 50:19
proximal (1) 25:24
pumping (1) 43:5
puncture (3) 18:19
 27:14 45:1
punctured (3) 12:24
 23:2,12
purposeful (2) 30:2,7
purposes (1) 48:21

Q

q (216) 2:13,16,20
 3:14,21 4:1,5,20
 5:3,6,19
 6:2,6,9,17,20,23
 7:3,6,12 8:2,4,9,16,20
 9:7,12,22 10:12,21
 11:1,6,11,16,19,23
 12:10,18,21
 13:2,5,9,13,16,22,25
 14:11,18 15:3,10,18
 16:4,13,21,24
 17:2,12,16,18,24
 18:5,8,11,13,15,18,20,23
 19:6,9,12,18,20
 20:2,9,13,16,23
 21:1,4,10,12,15,17
 22:3,6,10,15,22
 23:8,12,16,22
 24:7,10,15,24
 25:7,19,22
 26:4,17,20,23
 27:2,11,18 28:9,12,19
 29:1,5,9,14,17,19,22
 30:4,10,17,20
 31:7,12,18,23 32:1,9
 33:23
 34:1,5,11,14,20,23
 35:4,7,9,11,16,19,21,25
 36:3,5,10,13,17,22
 37:1,6,10,13,17,22
 38:1,7,10,13,15,20
 39:1,10,13,17,21,24
 40:1,4,7,12,17,20,23
 41:1,4,7,10,15,22
 42:2,6,15,17,24
 43:3,8,11,19,23,25
 44:10,16,20,23
 45:4,8,11,15
 46:2,7,10,18,21
 47:2,6,9,13,17 48:23
 49:1,3,5,7,9,13,15
qc (6) 2:9 33:19 48:16
 55:4,6,8

qualifications (2) 2:21
 34:6
questions (12) 2:9
 32:12,13 33:19
 47:20,22 48:16 49:22
 50:2 55:4,6,8
quickly (3) 12:18
 14:16,23
quickmoving (1) 52:24
quite (15) 4:24,25 5:17
 7:10,21 10:18 14:25
 17:10 22:2 23:3,20
 28:1 30:24 39:11 51:7

R

rachid (5) 2:18 16:15
 29:23 31:13 45:12
radius (2) 20:14 27:10
ran (1) 13:19
range (2) 8:6 51:7
rapid (4) 12:8,10 13:1
 29:21
rapidly (1) 29:12
rather (7) 17:4,11 19:1
 33:10 38:23 50:25
 52:3
reading (1) 53:6
real (1) 52:24
really (4) 17:9 29:11
 30:24 53:2
rear (4) 19:6 23:16
 24:15 36:11
reason (2) 6:13 14:11
rebecca (2) 48:15 55:7
recalled (2) 48:15 55:7
recent (1) 44:15
recognised (2) 7:22
 28:16
record (1) 49:10
recorded (1) 4:15
records (1) 49:20
recovered (5) 5:2 14:20
 26:2,24 27:7
red (1) 7:21
redouane (8) 2:18 16:15
 29:6,23 30:6,11 32:2
 45:12
redouanes (1) 31:13
reentering (1) 27:6
reentry (1) 26:15
refer (3) 4:3 34:15
 42:23
reference (5) 10:13
 21:20 22:24 23:23
 34:24
referred (2) 29:5 45:8
regard (1) 42:10
regarded (1) 46:14
region (5) 6:1 10:19
 26:14,25 27:20
register (3) 3:4,4 34:11
registration (1) 48:21
relate (3) 19:3 28:6
 36:5
relates (3) 8:10 22:21
 23:24
relating (1) 27:3
relation (17) 15:19,20
 23:1,8 27:15,18 28:13
 29:9 30:8,9,24 32:2
 34:14 43:18 45:11
 48:20,23
relationship (1) 45:21

relatively (15) 1:6 6:2
 7:25 14:16 17:8
 19:16,25 21:1 29:21
 35:9 36:10 37:7 41:15
 42:4 46:3
release (1) 50:12
released (1) 32:18
releasing (1) 48:9
relevance (2) 15:19
 32:1
relevant (4) 2:21 17:14
 21:6 34:5
remain (1) 48:17
remainder (1) 27:12
remember (2) 9:18
 10:16
repeat (1) 51:8
report (9) 4:2 8:21
 16:15 34:6,14,17,20
 42:8 43:13
reports (2) 2:20 3:21
represent (1) 26:15
representation (1) 4:12
represents (1) 41:20
resembles (1) 41:19
resolve (1) 50:10
respiratory (2) 27:18
 43:8
responsible (2) 14:7
 46:11
rest (3) 11:7 40:16
 51:10
result (6) 20:3,5 44:9
 46:18,25 47:3
resulted (1) 9:3
retained (3) 42:11
 45:5,16
rib (3) 10:19 42:18
 43:18
ribs (7) 10:3 24:2,22
 42:14,15,17,19
riggs (3) 48:13,15 55:7
righthand (2) 18:13
 36:11
rise (1) 53:24
ritchie (1) 8:4
roger (1) 2:12
room (1) 13:9
rounds (1) 14:22
royal (2) 2:25 34:9
running (1) 31:2
runs (1) 27:24

S

sac (2) 23:9,10
same (2) 32:4 53:20
saving (1) 30:13
saw (1) 36:7
saying (1) 6:13
scalp (3) 35:5,19 36:11
scan (5) 3:21 28:7
 34:20 42:12 43:13
scene (2) 13:18 52:21
science (1) 34:7
scraping (1) 18:11
screen (8) 4:7 11:19
 16:18 26:8 27:11 35:4
 50:21 51:1
screening (1) 32:3
screens (1) 4:7
second (1) 9:24
seconds (1) 12:12
section (1) 53:19

secured (1) 35:2
see (34) 1:9 2:4 5:3,7
 7:10 9:7 10:21 16:19
 17:2,18 18:5,8,24
 19:2,6 20:11,16,22
 30:24 31:15 35:11
 38:2,10,16
 39:1,11,17,21 40:1,20
 41:1,10,15,19
seemed (4) 50:21 52:16
 53:4,17
seen (4) 29:22 41:5
 53:13,15
separately (2) 4:1 15:1
septum (1) 23:14
sequence (5) 31:18,20
 47:7,10 53:23
series (1) 39:21
serious (1) 24:10
set (2) 14:17 51:18
several (1) 20:8
sharp (1) 37:21
sharpbladed (1) 7:9
shattered (1) 26:1
sheer (1) 45:20
shock (1) 25:14
short (3) 13:19 14:13
 33:4
shortly (1) 5:19
shot (7) 3:17 13:16
 14:8,9 46:22,25 47:3
shots (5) 13:18 14:6
 29:24,25 30:20
should (3) 4:11 11:25
 31:15
shoulder (10) 17:20
 26:10,12,14,20,21
 27:1 36:15 39:14
 42:11
show (7) 3:22
 52:14,19,20,23,24
 53:4
showed (3) 7:18 27:22
 32:3
showing (1) 34:20
shown (5) 8:12 24:4,6
 39:3 41:12
shredded (3) 9:5,10
 13:8
side (26) 5:3 10:20
 13:25 16:22 17:3
 18:5,8,13 25:9 26:25
 27:24 35:12,22
 36:3,8,11,15 39:22
 40:8,21
 41:11,16,17,23
 42:17,20
sided (2) 42:14,15
sides (1) 24:2
sight (1) 53:2
significance (1) 16:24
significant (10) 4:21
 10:11 11:11 12:22
 29:9 35:11 43:1 44:12
 46:12 52:10
significantly (1) 11:3
signs (5) 21:21 41:1,22
 42:2 43:3
simon (4) 33:12,14,22
 55:5
since (2) 30:20 34:12
single (1) 53:10
sir (16) 1:5,11 18:14

32:20 33:12,18
 48:3,22,25 49:8,12,15
 50:5,6 51:15 52:7
site (2) 41:14,21
sites (2) 45:15,16
sitting (1) 33:16
six (5) 22:10,12,14
 29:5,7
size (1) 42:4
skimming (2) 6:4 17:7
skin (17) 4:24 5:1 6:5
 10:16,19 15:7 17:8
 25:15 31:14 36:25
 37:3,20 38:4,23
 40:13,16 44:13
skull (2) 44:11,15
slight (1) 21:16
slightly (5) 10:5,5 18:8
 24:4 39:2
slow (1) 52:19
small (6) 4:18 12:19
 21:3 41:15 42:4 53:19
smaller (3) 20:11 39:4
 40:7
soft (3) 37:2,3 38:11
somebody (1) 31:1
someone (2) 15:24 16:1
something (7) 6:16
 15:25 16:1,2 18:11
 21:19 37:21
sometimes (2) 5:13
 21:22
somewhat (1) 38:2
soon (1) 1:7
sort (3) 7:24 18:6 31:16
sorts (1) 30:25
space (1) 28:10
specifically (3) 40:10
 41:14 44:18
speed (2) 29:19 52:19
spent (1) 7:23
spine (3) 9:16 11:9 18:9
splits (1) 36:25
splitting (1) 48:5
sport (2) 51:5,6
stab (4) 7:15 8:12 15:11
 30:25
stabbed (1) 31:2
stage (3) 19:11 50:8
 51:12
stand (2) 2:7 14:11
standard (3) 11:20 29:2
 47:17
standing (1) 33:16
start (1) 52:5
statement (1) 42:23
steps (1) 48:19
sternomastoid (1) 27:23
steroid (3) 15:22 16:6
 32:3
steroids (2) 15:23 32:6
still (4) 12:15 30:6,16
 53:21
stippling (2) 7:22 31:14
stomach (3) 44:1,4,18
straight (1) 9:2
strongly (2) 36:2 38:9
struck (3) 22:13 29:7
 46:8
structural (1) 11:8
structure (3) 28:3 43:15
 45:6

structures (5) 9:13
 10:22 12:6 25:5 43:2
stylised (1) 1:16
subsequently (1) 5:2
substantial (6) 28:9
 38:2,11 40:20 43:23
 52:9
succinct (1) 52:9
sufficient (1) 52:6
suggest (2) 22:17 32:21
suggested (4) 6:12
 15:21 36:19 52:2
suggestive (6) 36:2
 38:9,13,22 40:10
 41:25
suggests (2) 13:16
 46:21
sum (1) 51:3
summarise (2) 34:5
 52:17
summary (4) 12:21
 44:23 50:15,23
summingup (1) 52:13
superficial (1) 21:8
superficially (3) 17:8
 19:16 20:1
superintendent (4)
 48:12,15,17 55:7
supersonically (1) 14:22
supply (1) 24:13
support (1) 32:8
surface (5) 17:8 38:3,23
 40:16 46:3
surgery (1) 34:8
surname (1) 49:1
surrounded (2) 18:15
 35:21
surrounding (1) 28:5
survivable (3) 13:11
 30:22 31:11
suspicious (1) 3:8
sustained (1) 30:16
sustaining (2) 31:3,5
system (14) 11:2
 23:19,19 27:14,19
 28:12,19 42:9,25
 43:8,25 44:10,17
 53:11

T

taken (1) 19:16
talking (1) 12:11
teams (1) 49:18
temple (1) 44:14
tentative (1) 18:2
terminated (1) 26:3
terms (4) 19:3,11 29:19
 52:11
thank (28) 1:23 2:8 4:4
 8:19 16:13 17:24
 32:12,14,15,16,17,19
 33:2,13,18
 47:20,23,25
 48:5,9,11,14 49:22
 50:3,4,6,7 51:13
thanks (1) 48:8
thats (35) 2:5,15,19
 3:19 4:18 5:3,8 6:22
 7:2 8:19 9:15 10:17
 13:8 15:7 16:23
 19:1,14 20:11 21:7
 22:18 33:25 35:24
 38:9 39:19

40:15,17,19,22 42:22
 43:6 46:20 47:19
 49:12 50:4 52:11
thereafter (1) 29:24
theres (4) 8:17 22:18
 27:20 51:5
thesis (1) 2:24
theyre (3) 18:3 20:23
 24:2
theyve (3) 31:6 38:17
 53:21
thigh (3) 21:6 25:25
 26:1
thing (1) 50:19
thinks (1) 32:6
third (2) 7:16 42:23
thoracic (5) 10:6,9,24
 11:1 12:24
thorax (1) 10:9
though (3) 17:9 31:5
 46:13
thought (5) 1:21 6:7,10
 52:3,4
three (4) 1:13 26:13
 42:15 45:4
through (9) 8:13
 9:18,20 10:6,7,23
 24:25 51:2 53:8
throughandthrough (3)
 39:7 43:21 45:8
time (12) 3:2
 12:10,15,16 13:19
 16:17 33:1 48:5,24
 51:21 52:6,24
times (1) 31:24
tiny (1) 18:19
tip (1) 7:17
tissue (6) 19:18 37:2,3
 38:11 39:17 40:2
tissues (2) 17:5 28:6
today (2) 1:11,22
told (2) 13:13 16:1
too (1) 12:25
took (1) 52:1
torso (6) 4:20 16:18
 17:12 18:21 39:10,11
total (1) 22:6
towards (5) 13:19 16:21
 17:20 36:15 41:11
toxicological (2) 15:18
 32:1
trachea (1) 9:14
track (23) 9:14,16
 10:4,14,15 11:6
 22:15,23,25 23:5,9,23
 24:8,17 25:7,8,19,19
 26:3,9 27:3 28:18
 42:21
tracks (12) 5:19
 21:18,20 22:4,10,12
 26:10 27:15 28:14
 29:5,8 45:13
transcript (1) 53:7
trauma (3) 36:9 38:19
 46:14
travel (1) 52:4
trivial (10) 4:14,16 6:2
 7:20 21:2,14 35:9 37:7
 46:3,15
trunk (6) 6:23 28:24
 39:22 40:21 41:2,16
turn (6) 2:20 3:18 4:20
 27:24 42:6 44:23

turned (1) 17:21
 turning (6) 25:7
 28:12,19 43:8,25
 44:10
 type (4) 19:9 38:7 39:8
 41:15

U

ulna (2) 20:14 27:10
 ultimately (2) 27:7 31:1
 unconnected (1) 48:4
 underlying (3) 25:11,14
 37:3
 underneath (2) 40:15
 44:13
 understand (3) 33:9
 51:24 52:8
 unit (1) 13:7
 university (2) 2:23,24
 unless (1) 8:16
 unlikely (4) 16:6,10
 30:8 32:7
 unspent (1) 7:23
 until (3) 6:14 51:21
 54:1
 upon (1) 50:15
 upper (15) 6:17,23 7:6
 9:16 18:23,25 19:7,20
 25:11,17 27:4,25
 36:13,15 42:22
 upwards (1) 10:5
 urine (2) 15:20 32:3
 usher (1) 1:6
 using (4) 1:16 4:6 29:2
 49:9
 usual (1) 49:7

V

various (3) 31:22
 50:9,21
 vary (2) 12:14 15:23
 velocity (5) 3:13 14:25
 20:7 25:12 28:17
 ventricle (4)
 23:13,18,19 43:6
 ventricles (1) 23:17
 vertebra (1) 11:8
 vertebrae (1) 10:7
 vessel (1) 11:1
 vessels (2) 9:9 42:25
 victims (2) 16:4 32:10
 voice (1) 28:3
 volume (1) 12:17

W

wall (1) 23:13
 walls (1) 23:17
 wasnt (2) 28:23 43:14
 wave (1) 25:14
 way (5) 9:21 23:16 25:2
 53:9,16
 weapon (5)
 7:10,17,24,25 15:15
 weekend (3) 51:4,5,9
 went (7) 9:15 10:7
 24:8,9 25:17 29:23
 53:19
 weve (3) 50:20 52:15,25
 whatever (1) 51:4
 whats (3) 18:18 19:12
 39:17

whichever (1) 33:16
 whole (1) 53:18
 wholly (1) 48:4
 wide (3) 6:1,11 17:10
 windpipe (1) 9:15
 wish (5) 2:5 4:3 34:16
 50:17 51:20
 witness (3) 1:24 33:12
 48:12
 witnesses (1) 1:11
 wont (2) 21:22 48:1
 work (3) 21:24 49:19
 50:23
 wound (96) 4:14 5:8,18
 6:7,10,13,16
 7:1,9,15,23 8:10,12,24
 9:18,19,23,24
 10:1,13,15 11:23
 12:21 15:11,11
 16:23,24
 17:1,2,7,10,14,17,25
 18:1,10,15,17,19
 19:1,6,9,10,25
 20:2,9,10,11,17
 21:7,18,19
 22:4,15,23,25
 23:1,4,4,23,24 24:17
 25:7,19,19,20,22
 26:9,9 27:3,15,16
 28:14 29:5
 30:8,9,10,16
 35:5,15,19 36:2,10,19
 38:9 39:5,6,16,20 40:9
 41:10,13,16 44:3,7
 45:13
 wounding (9) 4:16,25
 7:8 14:24,25 19:17
 20:7 27:3 30:25
 wounds (52) 3:13,24
 5:16 6:25 7:4,13 8:10
 11:18 13:2,11,14
 14:12,17,19,21 15:13
 17:21,22 18:20
 20:17,19,22 21:22,24
 24:18,20 25:18
 26:10,13,18,24
 29:4,14,14 30:5,25
 31:7,19,22 35:22
 36:6,23 37:23 39:3
 41:24 42:2 45:3,19,21
 46:2,17 47:18
 wrist (3) 35:2 37:23
 38:4
 written (3) 45:1
 51:19,20

Y

years (1) 3:5
 yellowywhite (1) 24:5
 yesterday (2) 1:15 8:2
 yet (1) 31:2
 youll (1) 16:19
 young (2) 12:14 31:4
 youre (7) 12:15 13:13
 31:16,23 46:7 48:1
 50:19
 yourself (3) 2:5 33:16
 51:11
 youssef (5) 2:18 4:2
 13:16 14:13 15:19
 youve (17) 6:14 7:3
 12:16 13:13,22 15:10
 18:20 21:25,25

22:1,10 28:13 45:4,8
 50:16 51:4,6

Z

zaghba (5) 2:18 4:2
 13:16 14:13 15:19

0

0556 (1) 5:9
 06 (1) 4:19
 07 (1) 6:11
 08 (1) 6:11

1

1 (2) 4:19 6:1
 10 (5) 7:11 27:2 28:1
 34:15 42:16
 100 (1) 31:3
 1005 (1) 1:2
 1017 (1) 46:23
 1023 (1) 46:24
 1028 (1) 47:2
 1029 (1) 47:2
 1031 (1) 47:2
 1056 (1) 33:3
 10th (1) 10:3
 1130 (3) 51:25 52:5
 54:1
 1131 (1) 33:5
 11th (1) 10:3
 12 (5) 1:1 35:16 38:1
 41:19 50:14
 1204 (1) 53:25
 12th (1) 10:6
 13 (2) 35:19 38:10
 14 (3) 4:3 22:22 35:21
 15 (5) 33:1 35:25 36:1,8
 54:2
 16 (1) 36:10
 17 (1) 16:16
 19 (1) 41:10
 1a (2) 11:20 47:18

2

2 (3) 6:8 55:3,4
 20 (2) 32:21 33:1
 2007 (1) 34:12
 2017 (3) 4:3 16:16
 34:15
 2019 (2) 1:1 54:2
 21 (6) 4:22,23 10:19
 16:21,23 36:14
 210 (1) 18:11
 211 (2) 18:15 24:20
 212 (1) 18:18
 22 (4) 5:6 8:25 16:24
 23:24
 23 (4) 5:22,24 6:2 17:2
 24 (2) 5:22 6:2
 25 (6) 6:1,19 9:18 17:19
 26:18 32:21
 26 (6) 6:6,9 7:19 10:2
 17:20 26:18
 27 (2) 3:5 17:25
 28 (2) 18:5,7
 29 (3) 18:8,10 24:20

3

31 (2) 18:25 25:18
 310 (1) 21:1
 311 (1) 21:1
 32 (2) 7:14 25:18
 33 (3) 7:15 55:5,6
 34 (3) 8:14 19:23,24
 35 (4) 7:21 20:1,17,21
 37 (1) 20:9
 39 (2) 20:19,22

4

410 (1) 39:1
 42 (1) 21:15
 46 (2) 8:15 38:10
 47 (1) 38:16
 48 (2) 55:7,8
 49 (1) 38:16

5

5 (3) 8:21 14:18 35:16
 51 (1) 39:13
 510 (1) 41:4
 511 (1) 41:4
 513 (1) 41:15
 514 (1) 41:22
 516 (1) 41:22
 52 (1) 39:17
 53 (1) 39:21
 54 (1) 40:1
 55 (2) 40:1,7
 56 (1) 40:7
 57 (1) 40:12
 58 (1) 40:20
 59 (1) 41:1

6

6 (7) 15:3 28:2 29:24
 30:7,12,21 36:13
 60 (1) 8:7
 6th (1) 10:19

7

7 (5) 18:24 29:24
 30:7,12,21

8

8 (5) 15:10 37:6
 42:7,16,19

9

9 (2) 42:16,19