

Transcript of the Sheku Bayoh Inquiry

Tuesday, 23 May 2023

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(10.00 am)

LORD BRACADALE: Good morning Professor Lucas.

THE WITNESS: Good morning.

LORD BRACADALE: You are going to be asked questions by Ms Thomson, counsel to the Inquiry, whom I think you have met. Before that you would raise your hand and say the words of the oath after me.

PROFESSOR SEBASTIAN BRENDAN LUCAS (sworn)

LORD BRACADALE: Thank you.

Ms Thomson.

Questions from MS THOMSON

MS THOMSON: Good morning professor, what is your full name?

A. Sebastian Brendan Lucas.

Q. May I ask you your age?

A. 75.

Q. And you are a recently retired consultant histopathologist?

A. Yes, I retired, I took off my gloves last October when my GMC registration would have to be renewed at great cost.

Q. Before I ask you more about your career to date, can I ask you to open up the blue folder that's on the table in front of you. There are various documents in there that you might find it helpful to refer to when you are

Transcript of the Sheku Bayoh Inquiry

1 giving your evidence. We will begin by having a look at
2 what is there. There should be a letter of instruction
3 that you were sent by the Crown Office on 29 May 2018,
4 with the reference number COPFS 02468.

5 A. Hang on. (Pause).

6 Sorry, I am just puzzled by the phrase "letter of
7 instruction" because I don't see it here. There
8 obviously was one at some time or other. What am
9 I looking for? (Pause).

10 Q. It may not matter because all of these documents, if we
11 need to look at them we will bring them up on the screen
12 in any event. You mentioned, as you flicked through the
13 folder looking for the letter of instruction, having
14 come across your CV; is that in there?

15 A. Yes.

16 Q. Also the report you prepared for the Crown, is that also
17 in the folder?

18 A. Yes, there are two. One from 2018 and one more recent.
19 Yes.

20 Q. When you say there is a more recent report, are you
21 referring to the statement you gave to the Inquiry?

22 A. Yes, the one with the Sheku Bayoh Inquiry badge on the
23 top.

24 Q. I see so we have your CV and the report you prepared in
25 2018, and the statement that you gave to the Inquiry.

Transcript of the Sheku Bayoh Inquiry

- 1 A. Yes.
- 2 Q. That is grand. What we will perhaps do is bring up the
3 Inquiry statement on the screen please. It has Inquiry
4 reference 00314.
- 5 A. Uh-huh.
- 6 Q. This is a copy of your statement, we can see that it was
7 taken on 8 December of last year and --
- 8 A. And modified subsequently a bit.
- 9 Q. Yes, that is part of the normal procedure. If we go to
10 the very bottom, please, of the statement. We see that
11 the final paragraph, paragraph 64, reads:
- 12 "I believe the facts stated in this witness
13 statement are true. I understand that this statement
14 may form part of the evidence before the Inquiry and be
15 published on the Inquiry's website."
- 16 And in that knowledge, you went on to sign every
17 page of the statement; is that right?
- 18 A. Yes.
- 19 Q. You will see that your signature has been blacked out on
20 the screen but I am hoping that there will be a copy of
21 your signature on the hard copy in your folder.
- 22 A. There is. It is here, in front of me.
- 23 Q. You can refer to any of these documents at any time, if
24 there is anything that I want to take you to, it will
25 come up on the screen but if you would find it helpful

Transcript of the Sheku Bayoh Inquiry

1 to refer to your report, or your statement or indeed
2 your CV, you can do so and if there is anything that you
3 would like to put up on the screen, then just let me
4 know.

5 A. Okay.

6 Q. Let's begin with your experience, your qualifications,
7 and your career. Can we return to the beginning of your
8 statement, please, and bring up paragraphs 2 and 3. You
9 give your formal qualifications at paragraph 2, which
10 include a medical degree and a fellowship of the Royal
11 Colleges of Pathologists and Physicians?

12 A. Yes.

13 Q. And at paragraph 3 you say:

14 "I have been a consultant histopathologist since
15 1980, with wide experience in general diagnostic
16 histopathology and autopsy pathology. I have been
17 a Member of the Royal College of Pathologists from 1978,
18 and Member of the Royal Colleges of Physicians since
19 1975. I have published widely on all aspects of
20 histopathology and autopsy practice, particularly in
21 infectious diseases."

22 A. Yes.

23 Q. So you explain that you have been a consultant
24 histopathologist since 1980 until the autumn of last
25 year when you retired. In very general terms what does

Transcript of the Sheku Bayoh Inquiry

1 the work of a consultant histopathologist involve?

2 A. It is all to do with diagnostics from looking at
3 people's tissues, therefore it is different from looking
4 at blood or looking at cultures in infectious diseases
5 and so on. It really divides into three forms. There
6 is histopathology, which is samples of people taken from
7 living or dead people; there is cytopathology, where you
8 scrape or obtain superficial layers of cells from
9 various organs; and then there is autopsy pathology,
10 which is the gross examination of people who have died.
11 That is divided into forensics, which is suspicious
12 deaths; and everything else, which is not. And that
13 also involves using histopathology in a proportion of
14 cases, so there are three lines of what we call
15 histopathology.

16 Q. You explain in your statement that general diagnostic
17 histopathology and autopsy pathology were your
18 particular areas of practice and expertise?

19 A. Yes, yes. Cytopathology was invented after I trained,
20 so I missed all that.

21 Q. I see.

22 A. And, yes, I have been doing diagnostic histopathology
23 and latterly, certainly for the last ten years or so,
24 I have mainly focused on autopsy pathology and given up
25 routine live patients diagnostic histopathology. That

Transcript of the Sheku Bayoh Inquiry

1 is when I turned 65 and decided to stop doing that.

2 Q. So far as autopsy pathology is concerned, am I right to
3 understand you are not a forensic pathologist?

4 A. No, I am not.

5 Q. So the deaths you would be involved in would not be
6 suspicious deaths?

7 A. In principle. In actuality, it is not quite so simple
8 because for decades I have been involved in looking at
9 some aspects of people who are dead people who have died
10 under, in a sense, forensic circumstances, asked by
11 forensic pathologists or coroners or lawyers whether
12 I can contribute anything useful to the evaluation of
13 those deaths. But I am not on the Home Office Register
14 as being a proper forensic pathologist so I would never
15 be asked directly or I would never have been asked
16 directly to look at someone who had been murdered or
17 thought to have been murdered.

18 There is one big exception to that is that which is
19 that I got very much involved in a complicated murder
20 investigation in New Zealand, about as far away from
21 where we are sitting as possible. The only reason I got
22 involved in the evaluation of that is that when I looked
23 at the material, I realised that this poor child had not
24 been murdered and had actually died of AIDS, HIV-AIDS,
25 in which I have been an expert, and the unfortunate

Transcript of the Sheku Bayoh Inquiry

1 medical and pathology staff of New Zealand hadn't
2 realised what AIDS is because they don't have any, and
3 they thought the kid had been murdered. And I could
4 prove in court that in fact the child died of AIDS and
5 there was no forensic aspect at all.

6 Q. Where were you in practice as a consultant?

7 A. Where?

8 Q. Yes.

9 A. In 1980 I was actually in Nairobi, in Kenya. But
10 thereafter University College Hospital and
11 St Thomas's Hospital actually, those are the two main
12 places I have been based at, with an additional year
13 spent in West Africa working on HIV about 30 years ago.
14 But essentially I have been London-based.

15 Q. Can we move to paragraph 5 of your report.

16 A. Yes.

17 Q. Sorry, your statement, I should say. You explain that
18 you:

19 "... became a professor of pathology in 1995 at
20 Guy's and St Thomas's Hospital, retiring in 2012. From
21 2012 to 2022, I worked part-time at Guys and St Thomas's
22 Hospital and also local mortuaries in Milton Keynes,
23 Bedfordshire, Luton, and Buckinghamshire. I stopped
24 working altogether in October 2022. Since then, I teach
25 pathology trainees on autopsy pathology interpretation

Transcript of the Sheku Bayoh Inquiry

1 by lecture, and I lecture to medical students on general
2 pathology. And I review autopsy pathology cases at the
3 request of coroners, pathologists, families, and legal
4 firms."

5 So you were also a professor of pathology. And
6 I wanted to ask you to explain the difference between
7 your work as a consultant and your work as professor?

8 A. They overlap. I have been a consultant and I was
9 a consultant in those hospitals, the professor bit is --
10 wasn't a personal Chair, it was a substantive Chair,
11 there were -- the medical school had a position called
12 Professor of Pathology. In fact, it says Guy's and St
13 Thomas's, that where I started, within three years
14 King's College Hospital also got in on the act and then
15 Kings College London became the lead medical school. So
16 it is actually three medical schools over those, which
17 are about two or three miles apart in south-east London,
18 where I was the professor of pathology. And when
19 I stopped being that in 2012 I have not been replaced
20 because medical schools don't like professors anymore
21 because they regard us as not productive on the research
22 assessment exercise, which is generally true; we are
23 much more practical rather than research-orientated.

24 Q. So from 2012 to 2022 what was the nature of your work at
25 hospital, was it still in a consultancy role?

Transcript of the Sheku Bayoh Inquiry

1 A. Yes, my colleagues, friends and colleagues, over many
2 years would always show me probable cases and I would
3 tell them what I thought the answer was. But the
4 responsibility for the correct answers was theirs. What
5 I was actually doing most of the time was doing coronial
6 autopsy work. Now, you know that the England and Wales
7 coronial system is very different from the
8 Procurator Fiscal system here in Scotland, but in
9 England and Wales we look at something like 14% of
10 everyone who has died mainly because no one knows why
11 they died. And that was what I was doing in
12 St Thomas's, Milton Keynes, Bedford Luton and
13 Buckinghamshire, Stoke Mandeville Hospital, because that
14 is where I live now.

15 Q. Those were you autopsies that you were requested to
16 perform by the coroners?

17 A. By the coroners.

18 Q. But were these non-suspicious deaths or --

19 A. Yes, by definition. I mean, if it was a prima facie
20 homicide case I would never be approached. But
21 interestingly -- and you may have the same problem in
22 Scotland -- there is a sort of curious border between
23 forensic and non-forensic and if the -- we call them
24 coroners but it might be the Fiscals in your case are
25 slightly worried about a case, whether it might or might

Transcript of the Sheku Bayoh Inquiry

1 not have medicolegal implications, they would often
2 ask -- often ask an experienced pathologist, and they
3 would pick on me, to look at it and to stop if I thought
4 there was any malfeasance going on, because I am cheaper
5 than the forensic pathologists, there is a huge pay
6 differential in autopsy work between routine medical and
7 forensic, about a tenfold difference in remuneration,
8 and that has quite an impact on who you ask to look at
9 things.

10 Q. I see. As part of your work carrying out autopsies for
11 coroners, would you require to reach a view as to the
12 cause of death and issue a death certificate?

13 A. Oh, yes, that is what we are there for. Yes.

14 Q. It is simply that you wouldn't be instructed in a case
15 that, on the face of it, arose from suspicious
16 circumstances?

17 A. No.

18 Q. Can I ask you a little about your experience as
19 an expert witness. You mention in paragraph 5 being
20 asked to review cases, not only for coroners but also
21 for pathologists, families and legal firms. How many
22 made medicolegal cases have you been involved in over
23 the years, would you say?

24 A. Well, it drops off. Having retired, I can tell you it
25 is amazing how quickly you become yesterday's man and

Transcript of the Sheku Bayoh Inquiry

1 people forget about you. But until that point I was
2 regarded -- and I am not being immodest or arrogant, it
3 is simply true -- as in Britain the person who knows
4 most about the morbid anatomy and the pathology of three
5 things. One was infectious diseases, which includes
6 HIV, which -- HIV made my career I have to say because
7 it happened at about the time that I happened as well.
8 The second one was maternal mortality, and I made
9 St Thomas's Hospital the maternal autopsy centre for
10 south-east England and had a huge experience. And then
11 I also, and relevant to this Inquiry, took on
12 an interest in sickle cell disease morbid anatomically
13 because most pathology of sickle is only seen, sadly,
14 when people with sickle trait, which is very common, and
15 sickle disease, which is much less common, it is only
16 seen when they die. Biopsy samples in life are not
17 normally taken from people with sickle, apart from the
18 kidney, which is sampled for practical reasons. And
19 I got into sickle, to anticipate your question, at the
20 suggestion of a haematologist at King's who was a sickle
21 physician, who was lamenting the quality of autopsies
22 performed on his sickle patients by all the other
23 pathologists in the area who he said had no idea what
24 they were looking at. And I just thought that was
25 an interesting challenge, so I took it up.

Transcript of the Sheku Bayoh Inquiry

1 That is exactly the same reason I got involved in
2 maternal mortality, some local obstetricians were very
3 annoyed by the inadequate autopsy evaluations of the
4 fortunately few people who do die in pregnancy and
5 delivery and someone said, "Would you like to look at it
6 and take this one on as a speciality?" And I got
7 absolutely fascinated and did that. Actually, I still
8 review those cases but I don't, as I say, do any more
9 autopsies directly myself because I can't legally. I am
10 off the register.

11 Q. In terms of your medicolegal practice then, how many
12 reports have you prepared in cases where sickle cell has
13 been relevant?

14 A. At the last count in my folders I had looked at more
15 than 100 people who had died of/with sickle cell
16 disease. I have looked obviously at thousands of people
17 who have -- no that is unfair -- a lot more people who
18 have had sickle cell trait because it is common, and as
19 we are going to discuss in great detail, sickle cell
20 trait is mostly harmless.

21 Q. But in terms of -- is that in terms of your medicolegal
22 practice or is that your work more broadly as
23 a clinician and in terms of the autopsy work?

24 A. No, these are autopsies I have done myself and cases
25 that people have asked me to review because of my known

Transcript of the Sheku Bayoh Inquiry

1 expertise.

2 Q. All right. So you have been involved in more than 100

3 cases involving --

4 A. That is sickle cell disease.

5 Q. -- sickle cell disease, either as the pathologist or --

6 A. Yes, mostly as the pathologist --

7 Q. -- as the reviewer?

8 A. -- and about a quarter of them will be other

9 pathologists or coroners saying, "Will you please look

10 at this and tell me what you think is going on".

11 Q. And how many cases have you been involved in that

12 concern sickle cell trait, can you put a figure on that?

13 A. Sickle cell trait, pathologists occasionally sent me

14 saying, "I can see sickle cells here, do you think this

15 is relevant?" And once it is established it is sickle

16 cell trait and there is a perfectly reasonable

17 alternative cause of death I say the sickle cell trait

18 is irrelevant, which is the general rule. And as all

19 the sickle societies all emphasise, having sickle trait

20 means you have a normal lifespan unless some critical

21 things happen, which we will no doubt come to.

22 Q. We will discuss those in detail later this morning. But

23 I am interested to know whether you can put a figure on

24 the number of sickle cell trait cases that you have been

25 involved in over the years?

Transcript of the Sheku Bayoh Inquiry

1 A. Interestingly the important sickle cell traits cases
2 I have been involved in, and this is directly relevant
3 to what we are talking about today, are people who have
4 died in custody. And that is why I -- that is why
5 I know about them. And I produced and gave you a list
6 of eight, I think, that I have been involved in,
7 including Mr Bayoh.

8 Q. So you have been involved in eight at least eight
9 cases --

10 A. Yes.

11 Q. -- involving sickle cell trait --

12 A. Yes.

13 Q. -- where the deceased died following contact with police
14 or in police custody?

15 A. Or prison, police arrest -- yes, in cells or the
16 prison service. Or deportation centres as well, which
17 counts as the same thing.

18 Q. Returning to your medicolegal work more generally, you
19 mention in paragraph 5 of your statement being
20 instructed by coroners, also being asked to review cases
21 by pathologists?

22 A. Yes.

23 Q. You mention families and legal firms. By and large who
24 do your instructions come from; are they in civil cases,
25 in criminal cases for the coroner?

Transcript of the Sheku Bayoh Inquiry

1 A. They are probably equally distributed actually across
2 that source. As I say it is drying up now, you get
3 forgotten about.

4 Q. So civil work as well as criminal work?

5 A. Very little -- if you regard death in custody as
6 criminal, okay then that is part of it. But most of it
7 is not actually, most of it is medical. Yes.

8 Q. Have you given evidence before?

9 A. I have given evidence in coroners' courts enormous
10 numbers of times, in one or two High Court trials on
11 medical negligence, none of which involved sickle. That
12 is about it actually, I always work on the principle, if
13 it is a contested civil case, that it is up to the
14 lawyers to sort it out before we go to trial and they
15 normally do.

16 Q. Have you published over the years?

17 A. Yes, I have published less on sickle than I have on all
18 the other things I have been interested in. What I have
19 done is lecture a lot on it but I did produce for the
20 College of Pathologists a set of guidelines on how
21 pathologists should address a sickle disease -- and
22 I also mentioned sickle trait -- autopsy. This is
23 really to try and improve autopsy standards nationally.

24 And I have written one or two papers on some aspects
25 of sickle cell pathology. All of which derived from

Transcript of the Sheku Bayoh Inquiry

1 autopsy work, I may say, the only in-life pathology
2 interest in sickle really that matters is kidney disease
3 because people with sickle cell disease can have very
4 bad kidney disease. But apart from that, sickle
5 pathology is a sort of unknown territory to most
6 pathologists.

7 Q. Can we look at paragraph 4 of your report please.

8 A. Paragraph sorry?

9 Q. 4, it will come up on screen and you have the hard copy
10 two:

11 "Also in the late 1990s, I have taken a special
12 interest in the morbid anatomy of sickle cell disease."

13 You mentioned that a few moment ago in your
14 evidence, Professor:

15 "I have done around 100 autopsies now on individuals
16 with sickle cell disease and autopsies on uncountable
17 numbers of individuals with sickle cell trait, because
18 trait is so common. I have been involved in medicolegal
19 court work on many sickle disease deaths and,
20 specifically, five previous deaths in custody or
21 stress-related deaths among men with sickle cell trait."

22 I think you said that number is perhaps eight --

23 A. I think it is eight actually. I am not sure why I wrote
24 five.

25 Q. -- rather than five.

Transcript of the Sheku Bayoh Inquiry

1 You have explained to us how your interest in
2 sickle cell disease and trait developed over the years.
3 How have you developed that interest in practical terms?
4 Is your autopsy work or is it your diagnostic work; what
5 allows you to develop that interest?

6 A. Yes, that is a very good point. How do you get good at
7 anything is ... this is Lucas' very simple rule for
8 people who want to be experts. Say that you are and
9 then people will start sending you problem cases and you
10 learn on the job. It really is as simple as that. And
11 after a while you realise you have seen more than anyone
12 else and people realise that. It sounds arrogant but it
13 is absolutely true, people who want to be lung cancer
14 experts simply declare, "That is what I am going to do"
15 and then the difficult cases are sent to them and they
16 get better and better at it in sorting them out.

17 So in sickle and in HIV and in maternal mortality
18 I passed the word to the coroners in the area of
19 south-east England to say if you have a case that --
20 a patient who has one of these things and requires
21 a coronial autopsy, please -- emphasise the please --
22 send it to us at St Thomas and we will do the job for
23 you. So I managed to build up a large collection of
24 experience on these things.

25 Q. Are there --

Transcript of the Sheku Bayoh Inquiry

1 A. I have to say also that the coroners are quite grateful
2 because they realise it will be sorted out better than
3 their local pathologist, simply because I have seen
4 more, and the pathologists are quite grateful because it
5 means they haven't got the problems of trying to sort
6 out these difficult case, so they pass them on. And we
7 never charge very much money.

8 Q. Are there many specialists in the UK with an interest in
9 sickle cell?

10 A. Zero. I have -- succession planning is important,
11 I have -- the HIV and the maternal work is sorted out
12 and I approached one of my younger colleagues at
13 St Thomas's to say would you take on the sickle cases
14 coming for coronial autopsy and to my pleasure he said
15 yes. I said read the guidelines, show me your first few
16 and just get on with it and learn on the job and he is
17 doing well, and that is how you do it.

18 Q. I want to ask you some questions now about sickle cell
19 disease. Can you explain to the Chair, can you help us
20 to understand what is sickle cell disease?

21 A. Sickle cell disease happens in people who have two
22 chromosome abnormalities on the same allele, I can't
23 even remember which chromosome it is now, and it really
24 doesn't matter. It means that their haemoglobin A is
25 abnormal because they have both genes wrong, one from

Transcript of the Sheku Bayoh Inquiry

1 the mother, one from the father, and it means that the
2 red cells being produced in the bone marrow have a very
3 short life expectancy. Normal red cells that people who
4 have not got sickle cell disease or thalassaemia -- but
5 we are not worried about thalassaemia today -- should
6 last about 100 to 120 days in the circulation before
7 they are basically worn out and they are phagocytosed
8 and taken away.

9 In sickle cell disease the red cell lifespan is
10 something like about eight or ten days, it depends very
11 much on the concentration of haemoglobin A, haemoglobin
12 sickle and others because haemoglobin is quite
13 complicated, so every patient is -- every person with
14 sickle cell disease is different, it is not a uniform
15 process. But you can talk about it collectively in
16 terms of probability.

17 Until, really until about the 1980s, medical
18 management of people with sickle cell disease was not
19 very good, and most people across the world who had
20 sickle cell disease did not make 20 years, they died
21 within the first two decades of life. That has
22 completely changed, we have prenatal diagnosis, we have
23 natal diagnosis, as I am sure you know, so we know
24 everyone who has sickle trait or sickle cell disease or
25 thalassaemia. We have medical management processes in

Transcript of the Sheku Bayoh Inquiry

1 Britain which I think are better than most other
2 countries, certainly better than America, and people now
3 live to a good age. So the average age of death of
4 people with sickle cell disease from sickle cell disease
5 has gone up to 40, 50, 60, 70 and we are now in the very
6 interesting era, rather like we are with HIV, of looking
7 at the impact of a chronic process going on, sickle,
8 managed medically with old age. But that is not our
9 concern here today.

10 Q. So how is sickle cell disease managed then?

11 A. It is managed by specialist haematologists, it is very
12 focal in Britain because the epidemiology is important.
13 Most people with sickle cell disease live in London,
14 particularly south-east London and West London, in
15 Birmingham and in Manchester but in many other places
16 there is no one around at all. So that is where the
17 expertise is concentrated, and I was very lucky being at
18 Guy's and St Thomas's and King's to be in the epicentre
19 of sickle in Britain.

20 Q. Can you help us to understand why it is that there is
21 this particular demographic in London for sickle cell
22 disease --

23 A. Oh, Christ, that is called immigration history. I don't
24 think we need to go into that.

25 Q. But is sickle cell disease associated with being of

Transcript of the Sheku Bayoh Inquiry

1 a particular background or race?

2 A. Yes. Most people with -- the sickle gene arose
3 evolutionarily, if I can use that word, somewhere in
4 West Africa and spread as people spread. And the
5 current belief, which I have no reason to contest, is
6 that it conveyed an advantage in defence against
7 malaria; if one has the sickle gene and even sickle
8 trait you have some protection against having a severe
9 infection of malaria and dying. So in that sense it was
10 successful. Unfortunately sickle cell disease is itself
11 not nice.

12 Most people in the world with sickle cell trait or
13 sickle cell disease are from black Africa, to use the
14 term very generally, particularly West Africa. There
15 are others as well that I am sure you know, that
16 occasionally white people, blonde people, non-black
17 people, get sickle, particularly in
18 North Africa: Tunisia, Libya around there. India also
19 has a lot of people who are not of African origin with
20 the sickle gene. It stretches through the Middle East
21 as well, but the great majority have a direct link with
22 black Africa.

23 Q. Can a person with sickle cell disease who is receiving
24 appropriate professional medical treatment lead a fairly
25 ordinary life?

Transcript of the Sheku Bayoh Inquiry

1 A. Yes -- yes and no. It is not a nice disease to have.
2 The treatment is -- I don't treat people with sickle and
3 I am therefore relying on what I know from what my
4 colleagues told me and what I read. There is a medical
5 treatment, you can take a drug called hydroxyurea, which
6 has an interesting effect on the type of red cells
7 produced in the bone marrow which is beneficial; regular
8 blood transfusions to keep the haemoglobin level up;
9 prophylaxis against significant infection such as
10 pneumococcal sepsis, which is a particular predilection
11 for people with sickle cell disease because they have
12 lost their spleen usually and you need the spleen to
13 protect against pneumococcal, so there is penicillin or
14 other antibiotics and vaccination.
15 And in children regular examination of brain blood
16 flow -- it sounds slightly odd to say that, but you can
17 do that using Doppler technology, it is not invasive at
18 all, just to predict those people who might be more
19 likely to have a sickle-related stroke. And all
20 these -- and general good medical attention, just being
21 seen by a doctor and practice nurse is a very good
22 thing. As a result, life expectancy has shot up and now
23 it is unusual for young people to die of sickle cell
24 disease in this country. Back in West Africa,
25 I'm afraid it is the norm.

Transcript of the Sheku Bayoh Inquiry

1 Q. Will a person with sickle cell disease enjoy good
2 health?

3 A. Well, yes, except they are going to have to go to the
4 clinic for a top-up transfusion, you're going to have to
5 be seen quite often. It is a lot of regular outpatient
6 and occasional inpatient. Then, if the patient has
7 a sickle crisis, which is often a painful crisis, they
8 are going to be admitted to hospital, with a standard
9 regime of painkillers, often opiates, blood transfusion
10 and general management and then they go out. And many
11 sickle patients are having regular crises, you know,
12 like monthly or bi-monthly or sometimes even weekly, and
13 in no way can you say their life is normal.

14 Q. What is a sickle crisis?

15 A. It is an event caused by sickling in critical organs,
16 particularly the bone and the lung. In the bone it
17 causes the bit of bone to die, which is incredibly
18 painful, so that is a painful sickle crisis. Affecting
19 arm, legs, other bones as well.

20 In the lung, and we will be coming to this in
21 relation to sickle cell trait later on today, it causes
22 the blood vessels in the lung to block up for one reason
23 or another and produces an acute chest syndrome or
24 an obstructive problem in the lungs which means that
25 the cardiovascular system doesn't work and they are in

Transcript of the Sheku Bayoh Inquiry

- 1 great risk actually of dying.
- 2 Q. What would cause a sickle crisis?
- 3 A. Well, yes, lots of things. Dehydration is an important
- 4 one, because if a person is dehydrated then the
- 5 concentration of sickle abnormal cells in the blood goes
- 6 up; a change in the acidity or alkalinity of the blood;
- 7 a coexistent infection at the same time; operations;
- 8 immobility; and probably stress. There are multiple
- 9 factors. But that said, most of the sickle crises,
- 10 particularly in younger people, just come out of the
- 11 blue, they just happen, and the sickle doctors are well
- 12 aware of this. There has been -- a great problem until
- 13 I think things have got better in the last 20 years is
- 14 that a sickle patient presenting to a hospital which
- 15 simply doesn't see it, they won't know what to do. But
- 16 now the word has spread, and haematologists are much
- 17 better at sort of taking these patients and looking
- 18 after them properly.
- 19 Q. You said that a sickle crisis can be a painful event?
- 20 A. It is very painful and can be fatal.
- 21 Q. And can be fatal?
- 22 A. Yes.
- 23 Q. And it would require hospitalisation?
- 24 A. Hospitalisation and specialist care. This is not
- 25 something for, you know, ordinary doctors to tackle

Transcript of the Sheku Bayoh Inquiry

1 because they won't know what to do. Although there are
2 of course guidelines now, again everything is much more
3 regularised and you can look it up instantly: what do
4 you do if someone has a sickle crisis? You do A, B, C,
5 D, and then -- as a sort of start off, and then ask for
6 specialist help.

7 Q. Why might a sickle crisis prove fatal in an individual?

8 A. A bone crisis, where bone infarcts and is very painful
9 of itself is not going to kill you. The main cause of
10 death is going to be cardiovascular and it involves
11 particularly the lung, and if you -- blood, as you know,
12 circulates around the body, it goes from the heart, the
13 right side of the heart to the lungs, becomes
14 oxygenated, comes back to the heart, the left side pumps
15 it out under a high pressure and it then supplies blood
16 and everything else to the rest of the body.

17 In the lungs if that circulation starts blocking off
18 because the sickle cells which themselves -- sorry, the
19 red cells sickle and they sort of knot together to form
20 an obstruction in the smaller bits, it can simply bring
21 the lung circulation to a halt and if the lung
22 circulation is brought to a halt, the heart stops. It
23 is as simple as that. That is called an acute chest
24 crisis and it has a characteristic clinical
25 presentation, characteristic x-ray presentation, and if

Transcript of the Sheku Bayoh Inquiry

1 you see it under the microscope, sadly if they die,
2 a characteristic pathology appearance as well.

3 Q. What would you see then in the red cells when sickling
4 occurs?

5 A. I am not sure how much you have had on this basic
6 physiology of sickle but red blood cells are round,
7 biconcave, so they have little dimples on either side,
8 and they are sort of 10 microns across. In sickle
9 because the haemoglobin in the sickle cell polymerises
10 and fixes itself in a different arrangement, it actually
11 means the cells lose their round contour and they look
12 like sickles, bent and longer with pointy ends, and they
13 are rigid. The point is they don't bend like ordinary
14 red cells bend, so they are going to block up small
15 blood vessels really quite quickly actually, and if that
16 happens in the lungs and is not managed and sort of
17 reversed fairly rapidly, it can be fatal. And as we
18 will come to this can happen exceptionally in people
19 with sickle cell trait as well as sickle cell disease
20 but it is much, much more common in sickle disease.

21 Q. Let's move on now to sickle cell trait, you have
22 explained what sickle cell disease is, what is sickle
23 cell trait?

24 A. I mentioned that you have sickle cell disease if both
25 alleles of the critical chromosome have the wrong

Transcript of the Sheku Bayoh Inquiry

1 haemoglobin A, and you have one from the mother and one
2 from the father. In sickle trait one of them is normal
3 haemoglobin A and the other one is haemoglobin S,
4 sickle, so instead of having haemoglobin SS, which is
5 sickle cell disease, you have haemoglobin AS: A being
6 normal and S being sickle. So it's a sort of halfway
7 house.

8 Q. How does that differ then in terms of the way that
9 a person can live their life depending on whether they
10 have the full disease or whether they have the trait?

11 A. There are something like -- I looked it up once -- at
12 least 300 million people with sickle cell trait across
13 the world, and in this country something like 1 in 78
14 newborns has it because we have an ever larger immigrant
15 population. That is the national average, obviously
16 different places have different rates. And the huge
17 majority, the vast majority of people would (a) not
18 necessarily even know they had it and (b) will suffer
19 nothing. But there will be certain circumstances where
20 that is incorrect and there are problems.

21 Q. Okay, so you say that in the majority of people
22 suffering from sickle cell trait the individual won't
23 know that they have it?

24 A. Yes --

25 Q. And --

Transcript of the Sheku Bayoh Inquiry

1 A. -- and they don't need to do anything different in their
2 lives at all.

3 Q. And it will have no effect?

4 A. Correct.

5 Q. Are there circumstances in which a person with sickle
6 cell trait may find themselves unwell as a result of
7 having that trait?

8 A. Yes.

9 Q. Can it in fact in some circumstances be life limiting or
10 have the potential to cause death?

11 A. Correct.

12 Q. In what circumstances?

13 A. Let's leave out the police custody business. The most
14 important contribution to this whole area of where
15 sickle cell trait can impact on life expectancy has come
16 from two sources. One is from military recruits,
17 particularly in America, and secondly from sports, in
18 other words, high stress and high strenuous exercise.

19 That can take you to -- it's a very famous paper
20 written by John Karch published in 1987 in the New
21 England Journal, which I am sure you have seen reference
22 of, looking at why American army recruits die, and they
23 looked at many, many years' worth, they looked at
24 millions, it's these huge epidemiology databases. And
25 they looked at -- and when military recruits, a large

Transcript of the Sheku Bayoh Inquiry

1 proportion of which are black, as we know, or
2 a significant proportion are black, and they compared
3 them with white people.

4 Now, white people have normal haemoglobin AA. The
5 black people here, a proportion would have haemoglobin
6 AS, none of them would have had haemoglobin SS, sickle,
7 because if you had sickle cell disease or SS you
8 wouldn't be admitted into the army. But AS was an
9 admission. That is an American thing. In Britain we
10 did it slightly differently. I will come to that later.
11 They looked at why they died, taking clinical stories,
12 autopsies, and everything else. And it became quite
13 evident that when soldiers died you could weed out the
14 ones who had a natural disease, who had been murdered,
15 who had had accidents and drug overdoses and all that,
16 you can take them out you and you just look at the
17 soldiers who died who had no obvious cause of death,
18 they just died. And statistically it was
19 an extraordinary discrepancy in looking at the
20 populations just in black people who are AA, normal,
21 versus AS, sickle trait and the AS sickle trait soldiers
22 who died with no obvious cause were, as epidemiologists
23 say, grossly over represented in terms of the numbers.
24 There was a relative risk of about 30.

25 So if you were a recruit in the American army, and

Transcript of the Sheku Bayoh Inquiry

1 you died, then -- that is the wrong way of it putting
2 it, if you were a recruit in the American army there was
3 a 30 times greater risk of dying if one had sickle trait
4 compared to having normal haemoglobin AA. This is among
5 the black ones. The white soldiers, again there will be
6 a small number of unexplained deaths but AS was grossly
7 overrepresented.

8 Karch and colleagues and the American army were
9 extremely interested in this and they were trying to
10 work out why this happened. And when you drill down to
11 what had actually happened when these people died, it
12 was on exercises, where the soldiers were working
13 basically in high temperatures, and dehydrated and
14 they -- the prime recommendation coming out of those
15 reports was not stop exercises, you can't do that,
16 because armies are based on exercises, but please make
17 sure that the recruits are adequately hydrated, giving
18 them drinking water. That turned the corner and the
19 rate of deaths, these unexplained deaths in sickle trait
20 soldiers/trainees, dropped.

21 Q. You mentioned military recruits and also sports --

22 A. Yes.

23 Q. -- and in association with strenuous exercise.

24 A. Yes. Now, the sports is derived not from mass

25 epidemiology but from individual case reports because

Transcript of the Sheku Bayoh Inquiry

1 you don't get thousands of marathon runners together and
2 do things and there were lots of case reports, and there
3 still are occasionally, of people with sickle trait
4 working out -- and again it comes down to heat,
5 exhaustion, dehydration, marathon runners, things like
6 that -- and just simply dropping dead. And the
7 conclusion was -- and when you did the autopsy they had
8 the acute chest syndrome. One has to say that the
9 particular focus on the chest syndrome came from looking
10 at individual cases of mainly sportsmen because they
11 were going to be looked at very carefully, whereas Karch
12 didn't go into the details of the pathology in his
13 review of millions of people.

14 So it became quite evident, and this is the 1990s we
15 are talking about, that a small proportion of athletes
16 with sickle trait undergoing extreme stress, and in hot
17 and dry circumstances, had a risk of dying, and they
18 died of the acute chest syndrome. In other words,
19 although they had sickle trait and not sickle disease
20 they had enough sickle gene in their red cells for the
21 red cells to sickle, block off the lungs, as a result of
22 which they died.

23 Q. Is that what is meant by acute chest syndrome?

24 A. Acute chest syndrome, ACS. It's one of those standard
25 acronyms in haematology.

Transcript of the Sheku Bayoh Inquiry

1 Q. So papers were published by Karch in relation to
2 military recruits and in the 1990s in relation to sports
3 and strenuous exercise; where did these reports take
4 medical understanding and medical thinking around the
5 risks to a person who lives with sickle cell trait?

6 A. It had an impact on how military recruits are treated
7 and I -- in fact in about 2005 the British Army asked me
8 to go and talk to them about sickle trait in their
9 recruits because we have a lot, particularly people
10 coming from the Caribbean islands, there are a large
11 number of recruits in the British Army -- or there were
12 then anyway -- and should they be excluded from
13 admission. And I think the RAF did exclude -- I don't
14 know whether it still does -- potential pilots if they
15 have got sickle trait.

16 But anyway the army didn't exclude them and they
17 were learning from the Americans, and I just talked
18 generally about the epidemiology, the pathology, and
19 just the general recommendation is particularly on
20 hydration and just be careful. I suppose also if
21 a soldier who happens to have sickle trait is feeling
22 very unwell on an exercise, don't make him carry on --
23 or her -- stop and do something. I think that was
24 another lesson actually came out, the sort of the
25 bullying thing, push yourself harder and harder and

Transcript of the Sheku Bayoh Inquiry

1 harder, don't do that because it can be dangerous. And
2 from the military and from the sports information, this
3 sort of information, this dripped down into practice.
4 I don't know what the current guidelines in the army are
5 now at all, you probably are better informed than I am.
6 But it is really just common sense stuff.

7 Q. In the cases in which autopsies were performed,
8 certainly in relation to the sports people, acute chest
9 syndrome was found to be the cause of death --

10 A. Was the common factor, absolutely.

11 Q. The common factor. And in the military exercise were
12 autopsies carried out too or was this a desktop review
13 of deaths some time later?

14 A. Yes, they are, and I have experience of that and a case
15 we may discuss of a soldier who died on exercises in
16 2002 I think, or it might have been earlier, who died of
17 acute chest syndrome on exercises in a very hot summer
18 up north -- actually south of here, sorry.

19 Q. In both studies then, the military one and the
20 individual studies in relation to the sportspeople there
21 were autopsy findings --

22 A. Yes, there were.

23 Q. -- that were consistent with the acute chest syndrome?

24 A. It's an interesting point, you might think that one
25 would learn lessons very quickly from autopsy findings;

Transcript of the Sheku Bayoh Inquiry

1 not so, because how is the information going to be
2 broadcast? One of the defects of the England and Wales
3 coronial system is the autopsy report is private, it
4 belongs to the coroner and no one else, and in an awful
5 lot of cases -- this is not just relating to sickle but
6 lots and lots of other circumstances as well, where you
7 think it would be rather a good thing if these reports
8 were collectively published so people would read them.
9 But, no, that is against the law.

10 But enough of collections. And talking about these
11 things and meetings and looking at cases and just -- and
12 once a pathologist has come across one of these cases
13 they don't forget it, they will remember that, so the
14 next time it is easier for them to evaluate. We all
15 learn on the job frankly.

16 Q. Can you help me to understand the mechanisms that are at
17 play here, and how it is that exercise, high
18 temperature, dehydration, exhaustion in a person
19 suffering or a person who has sickle cell trait can
20 result in a sickle crisis, acute chest syndrome and
21 death. What is the mechanism?

22 A. Let's just go back to the basic simple physiology. You
23 have a volume of blood in which -- with red cells in and
24 both in sickle cell disease where you have SS, and
25 sickle trait where you have A, normal, S, in the red

Transcript of the Sheku Bayoh Inquiry

1 cells, there will come a point if you stress that blood
2 that the cells will sickle. What are those stresses?
3 Temperature, high or low; dehydration, in other words
4 the concentration of the sickle haemoglobin goes up;
5 acidosis, that is the pH drops. I mentioned
6 dehydration, yes. And it is not so difficult to see
7 that you can get into a situation where these factors
8 come together, it is multifactorial, and there is
9 a tipping point at which the cells then suddenly sickle.
10 In every person it will be a different tipping point,
11 a different threshold for these various promoting
12 factors. And sickle cell disease is quite easy to see
13 how that can happen almost spontaneously because they
14 have no normal haemoglobin. Sickle cell trait people
15 are protected because they have one allele which is A
16 and one which is S, but there will come a point or can
17 come a point where these various factors make the blood
18 sickle.

19 Q. Are you able to help us to understand what it is about
20 these factors that causes the sickling of the blood?

21 A. It is the -- it's concentration, it's temperature, it's
22 pH, acidity, just stick with those three, there will
23 come a point in anyone or anyone's blood which contains
24 sickle trait where you can make it sickle. The question
25 is how much stress is required to actually make it

Transcript of the Sheku Bayoh Inquiry

1 sickle; everybody will be different. Which is why in
2 sickle trait these events are very, very uncommon but
3 they can occur and it is biologically very plausible and
4 you can make it happen experimentally.

5 Q. What about oxygen, does hypoxia play a part?

6 A. Oh yes, sorry. Thank you. Hypoxia -- lack of oxygen,
7 temperature, concentration, acidity, oxygen
8 concentration. Thank you. Those are the four.

9 Q. Will they always work in combination or could one of
10 these factors alone take a person to tipping point?

11 A. I don't know.

12 Q. You can't say?

13 A. It would be sensible to say it all kind of goes together
14 as a package but each individual person will have
15 a different trigger level for these various factors,
16 doing it.

17 Q. So when these four factors come together: concentration;
18 temperature, high or low; pH and oxygen, in a person
19 with sickle cell trait, they may reach tipping point and
20 have a sickle crisis?

21 A. The acute chest syndrome happens and the lung
22 circulation is compromised or stops.

23 Q. So should we understand that it is exactly the same
24 course of events, as it were, as you would see in
25 a person with sickle cell disease?

Transcript of the Sheku Bayoh Inquiry

- 1 A. Yes.
- 2 Q. But the tipping point is so much higher in a person who
3 only has the trait?
- 4 A. Very well put.
- 5 Q. But once that tipping point has been reached, they will
6 experience the same crisis, the same acute chest --
- 7 A. Yes, they would, that's right.
- 8 Q. -- and potentially the same fatal consequences as
9 a person with full sickle cell disease.
- 10 A. That is right, and of course once it starts happening,
11 it is going to get worse, because if the circulation in
12 the lung is compromised because of sickling, by
13 definition the blood is going to get more acid because
14 it not circulating, by definition the oxygen
15 concentration is going to go down because it is not
16 being re-oxygenated by the circulation through the
17 lungs, and so on. It just makes it worse, so it becomes
18 an irreversible process. But there will of course be
19 a point where you could reverse it quickly.
- 20 Q. So before that tipping point that you have mentioned is
21 reached, then the crisis -- I suppose before it gets to
22 the crisis, the process could be reversed and would that
23 require medical treatment or could it be as simple as
24 having a glass of water and taking a few deep breaths?
- 25 A. Yes, and getting out of the sun and stopping exercising.

Transcript of the Sheku Bayoh Inquiry

1 Because when you do strenuous exercise, whether it's
2 part of a sports programme, part of an exercise, or
3 running away from the police -- and I have seen this in
4 one or two cases -- the muscles are extremely active and
5 what do they do? They produce lactic acid because of
6 anaerobic metabolism, so strenuous exercise is a sort of
7 pro-acidotic feature simply because that is what muscles
8 do, it's their normal physiology.

9 Q. You mentioned that hypoxia is one of the four
10 contributors?

11 A. That is why pilots in some countries are not allowed to
12 be sickle trait -- well, the other way around, you can't
13 be a pilot if you are sickle trait because up in the
14 stratosphere the oxygen concentrations are less than
15 they are on the surface. Occasionally there do appear
16 to be pilots who have sickle trait -- I have seen
17 reports -- who have suffered a sickle crisis and died.
18 But as I say, in Britain I don't think we let pilot
19 trainees be sickle trait.

20 Q. If I could digress for a moment you did say earlier that
21 a person living with sickle trait might not know they
22 have it. Clearly pilots are screened and I think you
23 mentioned new born babies are screened nowadays, is that
24 right?

25 A. They are in England and Wales, I have no idea -- I am

Transcript of the Sheku Bayoh Inquiry

1 pretty sure they must be screened in Scotland as it is
2 a UK programme. It started up within the last 20 years,
3 it's done as part of the Guthrie test. When a baby is
4 born, heel prick blood is taken and screened for loads
5 of things and they added on sickle, and HIV by the way,
6 some time in the last 20 years. That therefore goes
7 into the GP records and so on and so forth.

8 Q. A person over the age of 20 then, who perhaps hasn't
9 been screened as a new born --

10 A. Or an immigrant coming in.

11 Q. Yes.

12 A. Absolutely. No reason why they should have been.

13 Q. They could be living with it and not know that they have
14 it?

15 A. Oh, yes.

16 Q. Would it be reasonable to assume that unless they have
17 had some form of ill-health or crisis that has resulted
18 in them getting medical attention then there might not
19 be anything in their medical records one way or the
20 other?

21 A. Yes. That is right. We all -- a lot of us have blood
22 tests for one reason or another but there is no
23 particular reason why sickle screen would be part of
24 a routine non-programmed -- well -- no, that is
25 right~...

Transcript of the Sheku Bayoh Inquiry

- 1 Q. Returning to the tipping point in sickle cell trait
2 I would like to ask you a few more questions about that.
3 You said that it varies from person to person, is it
4 a very individualised thing?
- 5 A. Yes, because everyone will have a different
6 concentration of sickle in their blood. Same as with
7 sickle cell disease, no two sicklers are the same. They
8 have different tipping points for these things. But
9 their threshold is much lower because they have far more
10 sickle haemoglobin going around.
- 11 Q. So could a set of circumstances, let's say running
12 a marathon on a hot day, that might cause one person
13 with sickle cell trait to reach tipping point simply not
14 affect another person carrying the same trait?
- 15 A. Absolutely right, absolutely right. Correct.
- 16 Q. In terms of the contributors to the mix that can lead to
17 the tipping point: concentration, temperature, pH and
18 oxygen, can I ask you some questions about oxygen and
19 hypoxia in particular. Is there any correlation between
20 the degree of oxygen deficiency or hypoxia and
21 the amount of sickling that you might see or the
22 rapidity with which a person will reach tipping point?
- 23 A. I am really not the right person to ask this. I am sure
24 there are some sickle biologists who can give you
25 a really good answer. But all I can tell you is the

Transcript of the Sheku Bayoh Inquiry

1 lower the oxygen, the more likely sickling will take
2 place.

3 Anticipating, I am sure, what will come up later on,
4 if you look at autopsy of people who have sickle cell
5 trait you will find generally a certain amount of sickle
6 red cells in them. Now, that doesn't mean they sickled
7 in life but of course after you die the oxygen tension
8 in autopsy blood in the body goes down, and the pH goes
9 down as well because that is what happens as part of
10 decomposition. That is why you see sickle cells in
11 sickle cell trait, which is a clue that there is
12 a sickle process, it doesn't obviously mean in most
13 cases that it is anything to do with why they died, it
14 happened after they died.

15 This is part of the great problem in interpreting
16 autopsy pathology in terms of sickle cell trait, is how
17 much happened before they died and how much happened
18 after they died. That is really the critical question
19 in this case and in many of the other medicolegal ones
20 as well.

21 Q. I'm sure and it's a question to which we will return.

22 A. We will come on to that.

23 Q. Let's go back to paragraph 4 of your statement which is
24 still on the screen. You mention having carried out 100
25 autopsies now on individuals with sickle cell disease?

Transcript of the Sheku Bayoh Inquiry

1 A. More than 100, when I last did a count actually it is
2 about 110. But that is it, I won't do any more.

3 Q. Can you explain what you would tend to see at autopsy if
4 you carry out an autopsy on a person who has died from
5 sickle cell -- perhaps I should -- let me reword that --
6 who has died as a result of the acute chest syndrome
7 provoked by a sickle crisis; what would you expect to
8 see at autopsy?

9 A. The acute chest syndrome, what you will see is in the
10 lungs, in the circulation of the lungs you will see
11 a lot/most/all the red cells sickled. Now, you want to
12 be very careful here because we are not talking about
13 the big blood vessels like the main pulmonary artery
14 that gets blocked off by thrombosis -- deep vein
15 thrombosis and embolism, we are talking about the
16 smaller vessels: the arterioles, the capillaries, which
17 is where gas exchange occurs, and the postcapillary
18 venules, the very small vessels, the ones you can't see
19 with the naked eye but under the microscope you can see
20 them very clearly. In those vessels in what we accept
21 is an acute chest syndrome case you find these small
22 vessels are greatly dilated, so their diameter, their
23 calibre is many times bigger than it should be and all
24 the red cells are sickled and are sort of matted
25 together. That is what you see. Necessarily it's

Transcript of the Sheku Bayoh Inquiry

1 a subjective quantification, but that is what you see.

2 Q. During the person's life, when they go into crisis and
3 start to develop this acute chest syndrome, what is the
4 effect on their respiratory system of the red cells
5 sickling and matting together; what impact does that
6 have?

7 A. Okay, well subjectively they become short of breath, as
8 the oxygen -- the whole point of the lung circulation is
9 to get oxygen from the air into the body and this is
10 going to be compromised when sickling of red cells
11 starts in significant quantities. Obviously there is
12 a huge amount of redundancy, you can sickle quite a bit
13 and it won't matter but it will get to a point where it
14 really does matter and the oxygen therefore in the blood
15 starts going down. This would simply make the sickling
16 worse and it becomes a sort of ... I have forgotten what
17 the phrase is now but it sort of gets out of control.

18 So shortness of breath, fever, because the
19 temperature goes up quite quickly as an automatic
20 response. I am trying to think what are the other
21 clinical syndromes. You see abnormal things on x-ray,
22 if you do one, or MRI scans, you can see basically the
23 circulation looking a lot more solid, it's getting more
24 solid because it is filling up with more sickle red
25 cells. And agitation, obviously subjectively it is not

Transcript of the Sheku Bayoh Inquiry

1 very nice and patients who are sickle cell disease ones
2 know very well when they are going into a chest crisis
3 because they have done it before and they say, "Oh, this
4 is what is happening again, help". And of course the
5 treatment is oxygen, hydration, blood transfusion, basic
6 supportive care, and in nearly all cases they will be
7 rescued but not always.

8 Q. In those cases where rescue fails what is the actual
9 mechanism that brings about death?

10 A. Lack of oxygen, via the lungs into the body, so
11 essentially you die -- I was about to say of asphyxia,
12 that is -- let's leave asphyxia out, that is a rather
13 different process. Ultimately it is because the heart
14 needs oxygen to keep beating, and the brain needs oxygen
15 to keep you awake. And those two organs are the ones.
16 If the kidneys or the liver fail that doesn't matter,
17 you don't die suddenly because of kidney or liver
18 failure, you die because the lungs, the heart and the
19 brain don't work. And they don't work because the
20 circulation taking oxygen to them is blocked.

21 Q. Again in paragraph 4, and we have spoken about this
22 already, you have been involved in a number of
23 medicolegal cases, and five, or in fact you think eight
24 previous deaths in custody or stress-related deaths
25 amongst men with sickle cell trait?

Transcript of the Sheku Bayoh Inquiry

1 A. Notice men, it's all men. I have not seen a woman have
2 this, interestingly.

3 Q. Can you explain that?

4 A. Hmm. There are fewer women in the army. Exercise-wise
5 I don't suppose there is any difference at all. As to
6 deaths in custody, I would be terribly simplistic, and
7 could be shot down very rapidly, is that they don't get
8 arrested as much as the men do, for lots of social
9 reasons.

10 Q. In terms of sickle cell disease, is there an equal
11 distribution of the disease between the sexes?

12 A. Sickle cell disease, men and women are the same. In
13 disease.

14 Q. Insofar as you know, because I hear that a lot of people
15 who have the trait won't know about it, but have you any
16 reason to suppose that the trait is not equally
17 distributed between men and women?

18 A. No, the trait is very well distributed. One interesting
19 way you pick up people having sickle trait is that when
20 the women deliver and you are, for one reason or
21 another, asked to look at the placenta you can see the
22 placenta is full of sickle red cells and you say, "Ah,
23 that's sickle trait". Well, you say, "Ah, that is
24 sickle", and you go to the haematology register and see
25 where they are and they say, "No, this patient has

Transcript of the Sheku Bayoh Inquiry

1 sickle trait" or maybe, "This patient has sickle disease
2 and we knew that anyway". But if it is trait it will be
3 often a new finding which may or may not get
4 disseminated to the patient or their healthcare workers,
5 who knows? We produce reports, we have no idea who
6 reads them.

7 Q. You have mentioned five or perhaps eight cases, deaths
8 in custody or relating to stress in men with sickle
9 trait and there is one that you discuss in some detail
10 in your statement and it's the case of Prince Fosu,
11 I don't think we need to go to the paragraphs in your
12 statement but can you tell a little bit about that case?

13 A. Okay. This is a young Nigerian man who was, I think, to
14 be deported for immigration illegalities, whatever, and
15 he didn't want to be deported, and so he indulged in the
16 deportation centre in a dirty protest, rather like in
17 Northern Ireland in the troubled days. He took his
18 clothes off, he didn't drink much, he didn't eat
19 anything, he smeared faeces all over the walls and --
20 basically as a protest, and said, "I do not want to be
21 here, I want to stay in England please". And despite
22 him obviously deteriorating, it would appear that not
23 money was done to try and sort of bring him back.

24 I don't know the great details, because I only got
25 involved when it came to the inquest because he died,

Transcript of the Sheku Bayoh Inquiry

1 and the pathologist who had done it was a forensic
2 pathologist because normally, if there is a death in
3 custody you wouldn't get a non-forensic pathologist to
4 do it because the suspicion is that the authorities may
5 have had a role in that person's death, so that is
6 forensic. That is fine. And the forensic pathologist
7 had said he died of ... actually, it is in this account
8 here, isn't it? Can I actually get the phraseology
9 correct?

10 Q. Absolutely, it is paragraphs 49 to 51. Perhaps we can
11 just move to those now on the screen as well.

12 A. Thank you. Paragraph 51 the original pathologist said
13 he died of cardiorespiratory collapse associated with
14 sickle cell trait. This is in the West London coronial
15 jurisdiction and the coroner at the time obviously --
16 well, I must backtrack. The inquest took place in 2020,
17 the death happened eight years earlier, there had been
18 eight years of legal arguments between the family, the
19 police, the legal authorities, and so on. So finally
20 an inquest happened and it was one of those inquest
21 rooms where most of the people were lawyers, a bit of
22 family, and me and the coroner. The original
23 pathologist had said this was cardiorespiratory collapse
24 associated with sickle cell trait because he had seen in
25 a couple of organs some sickle cells.

Transcript of the Sheku Bayoh Inquiry

1 Q. Can we scroll down please to 51 for the benefit of
2 anyone who following this.

3 A. The coroner then said, "Look, this doesn't look bad",
4 and because of all the problems with the police and
5 particularly the prison authority or whoever runs
6 detention centres -- and I am not entirely clear who
7 actually is in charge of these things -- it was sort of
8 prima facie case where they weren't doing their job very
9 well otherwise he shouldn't have died. So he wanted
10 supporting, and I was asked -- and also Rick James from
11 Wales, from Cardiff, was also asked to look at the case.

12 Rick, who is very good, said the cause of death was
13 cardiovascular collapse, dehydration, malnutrition
14 hypothermia and mania -- if we add that one in as
15 well -- although he was a bit dodgy on the mania because
16 pathologists are not allowed to diagnose mania, we don't
17 know what it looks like. He put sickle trait under
18 a contributor in part 2 -- you are well aware of how
19 death certificates are organised, part 1 is the main
20 reason why they died, part 2 will have factors, often
21 several, which made them die of the main cause when they
22 did rather than last year or next year or something like
23 that. In other words, a sort of contributor in terms of
24 timing.

25 I looked at it and I said actually I don't think

Transcript of the Sheku Bayoh Inquiry

1 sickle is relevant here at all. Why? Very simply
2 because there was no acute chest syndrome histopathology
3 at all. The sickle red cells could be seen in the
4 kidney, I think, or something like that, and that was
5 irrelevant. If the sickle was going to be relevant to
6 his cause of death it would have to have blocked up the
7 lungs a bit and a lot. And for that reason I said
8 I don't think sickle is relevant here and the coroner
9 believed me.

10 Just to backtrack two stages, it is very interesting
11 the forensic pathologist, who I won't name but is
12 a highly experienced person, simply doesn't know and
13 didn't know anything about sickle. This is the main
14 problem actually when these cases interact with death
15 and authority, that the pathologists have no real
16 experience because these deaths are uncommon, and they
17 don't know how to handle them.

18 Q. If we can just look at the very bottom of what we see on
19 the screen, where you repeat your opinion:

20 "... was that sickle trait did not play any role in
21 death; rather it was cold, hunger, malnutrition and
22 neglect, because on histology there were very few sickle
23 cells. He hadn't sickled enough."

24 A. Particularly in the lungs.

25 Q. "So it wasn't relevant to his death. The inquest jury

Transcript of the Sheku Bayoh Inquiry

1 concluded that the medical cause of Prince's death was
2 'A sudden death following hypothermia, dehydration and
3 malnourishment in a man with psychotic illness,
4 contributed to by neglect and multiple very serious
5 failures."

6 A. That was a very fair and correct outcome. I just want
7 to make one point about the word "neglect" because it is
8 a very, very difficult concept, and the advice the
9 coroners give pathologists is never use the word neglect
10 in your reports, because coroners have a different view
11 as to what neglect is compared to the general
12 population, in which I count myself.

13 Q. I see.

14 A. In other words, it's very tricky area. For obvious
15 reasons.

16 Q. I want to move on now to ask you questions about your
17 involvement in Mr Bayoh's case.

18 A. Yes.

19 Q. Just to be clear, you did not yourself carry out
20 a post mortem, nor were you present when Drs Shearer and
21 Bouhaidar carried out the post mortem on 4 May of 2015.

22 A. I was -- in fact this morning I was trying to remember
23 why I got involved in this in the first place, and the
24 answer is I was approached by --

25 Q. Perhaps I can help with you that and we can bring up

Transcript of the Sheku Bayoh Inquiry

1 an email that I think you received from the Crown Office
2 on 29 May 2018 which is COPFS 02468.

3 A. Les Brown, that was it.

4 Q. If we can scroll down to the substance of the email,
5 please. We can see 29 May 2018 from Les Brown to
6 yourself. There are some pleasantries, there is
7 reference to the PIRC investigators delivering histology
8 slides to you on 4 June and also four reports that will
9 be sent to you for your consideration, although I don't
10 think we see a reference to what the reports are in the
11 body of the email. If we scroll down a little bit we
12 will see what you were asked to address:

13 "I would be grateful if you could address the
14 following areas in your considerations which may lead to
15 the instruction of a formal report."

16 So this was -- this wasn't a formal letter of
17 instruction, it was the Crown approaching you to see if
18 you could assist, and suggesting that there might be
19 an instruction further down the line. There are four
20 bullet points:

21 "To comment on the supplementary report by
22 Liz Soilleux and in particular her conclusions on the
23 cause and mechanism of death and the significance of
24 sickle cell carrier status.

25 "Whether the apparent sickling of cells occurred

Transcript of the Sheku Bayoh Inquiry

1 ante or post mortem.

2 "From your own experience conducting autopsies in
3 persons who are sickle cell carriers the extent to which
4 sickling of cells is noted generally.

5 "Whether it is possible or likely that sickle cell
6 carrier status contributed to the cause and mechanism of
7 death in this case having regard to all of the relevant
8 factors set out in the reports."

9 Can we scroll down a little further just to be sure
10 whether there's anything else (inaudible) includes the
11 email. So you received that email and you would have
12 received the histology slides on 4 June. What did the
13 slides contain?

14 A. Right, let's find the right bit.

15 Q. I don't want to look at the slides at this point, or
16 your findings, I am just interested to know in general
17 terms what it was that you were being sent. What are
18 histology slides? Help the members of the public who
19 are perhaps listening to your evidence to understand
20 what histology slides are?

21 A. Oh, sorry. Histology is the study of tissues down the
22 microscope, it is a process that was invented in the
23 middle of the 19th century in Berlin by Rudolf Virchow
24 whereby you take pieces of tissue, any tissue, and it is
25 preserved, fixed, otherwise it will disintegrate. It is

Transcript of the Sheku Bayoh Inquiry

1 processed so that you can cut very thin slices of it,
2 and when I say thin, I mean slices of tissue that are 4
3 or 5 microns thick. A micron is a thousandth of
4 a millimetre, so this is very thin stuff indeed.

5 And it has chosen that because cells are of
6 a certain size so if you look at tissues down
7 the microscope you can actually see them properly. So
8 you have these 5 -- 4/5 micron thick bits of tissue,
9 they are put on a slide, you then add various vegetable
10 dyes to it to highlight things because if you just look
11 down the microscope at tissue you don't see anything at
12 all, it needs to be brought out. And there is
13 a standard combination of stains called haematoxylin and
14 eosin, H and E. So in pathology terms we are talking
15 about what did the H and E slide look like. H,
16 haematoxylin, goes and highlights stuff that contains
17 RNA and DNA, which is what the chromosomes are, so the
18 nucleus is highlighted. And eosin sort of stains
19 everything else, and that is red. So what you are
20 looking at in histology is sheets of cells, stained red
21 and blue, and you look at them and you learn, simply by
22 experience of what they are telling you.

23 In sickle, for example, you are looking at red
24 cells, you can see the cells are red, we call them red
25 actually because they are red when you stain them with

Transcript of the Sheku Bayoh Inquiry

1 eosin, that takes up the eosin. Red cells don't have
2 a nucleus, that has been disposed of long before they
3 get into the circulation, and you can look at their --
4 how sick they look, whether they are sickled, whether
5 they are the normal shape and size and so on.

6 So it's the interpretation of cells, coloured, down
7 the microscope taken from any organ. This is the basis
8 of all histopathology/pathology, it's the base of all
9 cancer diagnostics as well, you are not allowed to have
10 cancer in most cases unless someone who is a pathologist
11 says so because they have looked down the microscope.

12 Q. We heard evidence last week from Professor Freemont, an
13 osteoarticular pathologist, and he had looked at slides
14 down the microscope and he also told us about the H and
15 E stains --

16 A. Good, so you've had all that. I hope I have said the
17 same thing as he did.

18 Q. I think he did. Should we understand then that these
19 are standard slides, that H and E is a standard slide
20 that any histopathologist would --

21 A. Yes, it's a universe process, the glass slides are
22 3 inches by about 1 millimetre thick and this is the
23 basis of all diagnostic histopathology globally and has
24 been really since the end of the 19th century.

25 Q. Let's look at your reply to this email at COPFS 03682.

Transcript of the Sheku Bayoh Inquiry

1 We know that you received the histology slides on
2 4 June, and you responded to Les Brown on the same date.
3 If we can scroll down a little to the substance of the
4 email, thank you. Here we are.

5 A. Yes.

6 Q. "Dear Les.

7 "Seen the slides.

8 "I think that sickle trait did play a role in the
9 death, along with all the other possibilities (drugs,
10 excited delirium, restraint, posture et cetera). Not
11 possible to quantify the contribution of course.

12 "Do you want my short report with all the duty to
13 the Court material plus a mini-CV, or will a straight
14 letter to you do?"

15 If we scroll down a little more, please:

16 "I will not put this in my report, but from what
17 I can see of the scenario: the police officers involved
18 should not be prosecuted assuming they approached and
19 restrained BAYOT [I think that should be Bayoh] in the
20 normal approved fashion, appropriate for the perceived
21 risk.

22 "There is a discussion to be had concerning whether
23 a differential police approach is needed for subjects
24 who are known to have a predilection (albeit uncommon)
25 for sudden death under stress, even if they knew the

Transcript of the Sheku Bayoh Inquiry

1 fact in advance. An endless moral maize there ...

2 "Sebastian."

3 I want to ask you a few questions about this,
4 please. Can I take you at this juncture to paragraph 61
5 of your statement and we will look at that and then
6 I will ask you some questions based on what is said in
7 this email and what is said in your statement.

8 At paragraph 61 you say:

9 "I have been referred to my emails of 4 June to
10 Les Brown of the COPFS, where I write 'I will not put
11 this in my report'. Do you know, if I was doing it
12 again, I certainly wouldn't write that. What I can see
13 of the scenario has obviously changed, because, I think,
14 when I was sent all this original material, there was
15 very little evidence or information or documentation
16 about restraint. The death, in a sense, was slightly
17 more spontaneous, but as I understand from what's
18 happened in the last seven years or so now, actually,
19 a lot more information has come about what actually
20 happened, and I wouldn't write that now."

21 Paragraph 62:

22 "I feel that this was an 'off-the-cuff' comment at
23 the time."

24 Can you help us to understand the background and why
25 you felt it appropriate to comment on the police not

Transcript of the Sheku Bayoh Inquiry

1 being prosecuted?

2 A. I ... as I said I wouldn't do that now. If I had known
3 all this was going to happen I would have left that out.
4 The background to this, just for the other people who
5 haven't had the conversation that we have had before, is
6 that I changed -- I have changed my mind on this issue
7 over the last seven years as to how important sickle is
8 and I think at the moment it is less important than
9 I thought it was in 2018 --

10 Q. Can I pause there, sorry to interrupt but just to say
11 that what I would like to do is explore the opinion that
12 you gave in 2018.

13 A. Okay.

14 Q. And then the opinion that you would give today because
15 I do understand that you have changed your opinion, and
16 I am keen to explore the reasons for that. If you could
17 perhaps just bear that in mind. But I am sorry
18 I interrupted you, please carry on.

19 A. No, so back in 2018 I could -- it really comes down --
20 ultimately it comes down to what the histopathology
21 showed, so let me just quickly move to what I wrote
22 then. I know it is here somewhere. (Pause). Okay, 84.
23 If you look at the second page, it is the histopathology
24 review.

25 Q. Would you like us to bring this up on the screen?

Transcript of the Sheku Bayoh Inquiry

1 A. Yes, why not.

2 Q. COPFS 84, sorry we are -- if we can just orientate
3 ourselves for a moment so having had this exchange of
4 emails with Les Brown you were instructed to prepare
5 a report, it is dated June of 2018. This is your
6 report, and if we can -- we will go to the second page
7 but for completeness if we can look at the first page,
8 you repeat the questions that you were asked.

9 A. Yes.

10 Q. Which we have seen already in the email. And you go on
11 to say the materials that you were -- you list the
12 materials you were provided with, and we will perhaps
13 come to look at that list again shortly, and you were
14 keen that we look at page 2, Professor; is that right?
15 Was it "Histopathology review"?

16 A. Yes.

17 Q. Here we are, it's on page 2.

18 A. Right. Bone marrow, no sickle cells. Brain, yes. Red
19 neurone change -- this is essentially asphyxia-related
20 brain damage from hypoxia-ischaemia. There is some
21 sickling, SRBC is the standard code for sickle red blood
22 cells. Kidney, massive accumulation of sickle cells in
23 some of the vessels, no DIC, no casts. Liver, much
24 sickling going on, otherwise the liver was okay.
25 Heart ... sickling but otherwise it's okay.

Transcript of the Sheku Bayoh Inquiry

1 I should say the heart can carry on beating really
2 almost to the bitter end, it's often the last thing that
3 finally gives up.

4 Thyroid, sickle, and adrenal, sickle. Lungs -- the
5 crucial one is the lungs, actually, this is what it's
6 really all about. Congested. There were six pieces.
7 Now, the lungs have five lobes, three on the right and
8 two on the left, so normally when one looks at lungs
9 there should be five slides, I am not quite sure where
10 the sixth piece came from, so I am not quite sure which
11 bits are which lung. Six pieces sampled, alveolar
12 oedema ... areas of sickling in veins and alveolar
13 capillaries, I emphasise it is the small vessels that
14 have the problem, the big vessels don't. Three out of
15 the six have sickling, three out of six have mild or no
16 sickling and that is it.

17 At that time, and it has to be put in context of
18 what else I was told because, just stand back, in all
19 these sorts of cases we have someone who has died and we
20 have a putative risk for causing problem, like sickle
21 cell trait, and it is a question of balancing all these
22 facts out.

23 Let's not talk about him particularly but if someone
24 had an obvious massive drug overdose, then a bit of
25 sickling on the side you say is irrelevant in comparison

Transcript of the Sheku Bayoh Inquiry

1 to that. If they had had an obvious acute heart lesion
2 which was reasonable to cause death, sudden death, you
3 wouldn't bring the sickle in. But the point is
4 when I was faced with this case back in 2018, all I had
5 was a very brief story about being arrested and then
6 sort of dying suddenly and I didn't really get details
7 about restraint, I had a drug toxicity report which
8 didn't look particularly striking in terms of
9 significant large amounts, although they may well be and
10 I am not an expert toxicologist, and we had the sickling
11 in the lungs and I was thinking: could this possibly
12 have contributed to why he died because I really don't
13 see much else? So in a sense it was -- I won't say
14 a diagnosis of exclusion but it was a diagnosis of
15 consideration of other factors, and I perhaps should
16 have been more cautious and said, "I haven't had all the
17 facts in the case, but one might consider sickling to
18 have some relevance", and to be quite honest I think in
19 this report at that time I overdid the importance of the
20 sickling in terms of possibly causing lung damage,
21 blocking up the circulation.

22 Later it became evident, and I think it was Nat Cary
23 who you will be talking to tomorrow, who said, "There
24 was a hell of a lot more restraint than that", and I am
25 putting that phrase very loosely because that is my

Transcript of the Sheku Bayoh Inquiry

1 memory of it. That made me think: hmm, yes, in this
2 case I think the sickling is now less important and
3 other factors relating to how he was managed at the time
4 of his arrest are more important. So it's a balance.
5 And I do really want to emphasise there is no defined
6 case definitional cut-off point as to how much sickling
7 matters. It can't be done. It is simply too
8 subjective.

9 Liz Soilleux -- and I was possibly slightly
10 influenced by Liz who certainly at that time I respected
11 as a good histopathologist -- was very emphatic that
12 sickle did play a role and I thought maybe she is right,
13 so in a sense I slightly echoed that.

14 Now I wouldn't because I think other factors are
15 more important, but I do want to emphasise there is no
16 agreed point at which you say, "That matters and that
17 doesn't; it's that disease, it is not that disease". It
18 is not like many other things where it is either there
19 or it isn't and we have agreed case definitions. This
20 is a very subjective area, in part because of the --
21 because it is multifactorial, it is cumulative, there
22 can really be no strict case definition, but also
23 because we simply don't have enough experience. As
24 I have said, I have seen eight cases, eight -- sorry,
25 eight males who have died where sickle trait may or may

Transcript of the Sheku Bayoh Inquiry

1 not have been important in causing their death, and that
2 is a career of over 40 years, no other pathologist has
3 seen anything like that. So no one really knows.

4 Q. All right. We are going very shortly to consider the
5 information that was made available to you by the Crown
6 and we are going to look at the opinion that you
7 expressed in your initial report and what caused you to
8 reach the conclusions that you did. I think we might be
9 slightly at cross-purposes, and the fault is absolutely
10 mine, can we please go back to the email that we were
11 looking at a moment ago. That is COPFS 03628, this
12 precedes your report, and this is the email that you
13 sent to Les Brown and the Crown Office on 4 June.

14 A. Okay, yes.

15 Q. Bear with me. What I was hoping to draw your attention
16 to, if we can scroll down a little please, was the part
17 at the top of the main paragraph there:

18 "I will not put this in my report, but from what
19 I can see of the scenario: the police officers involved
20 should not be prosecuted assuming they approached and
21 restrained [Bayoh] in the normal approved fashion,
22 appropriate for the perceived risk."

23 I simply wanted to hear from you why you felt it was
24 appropriate for you as a histopathologist to comment on
25 whether or not the police should be prosecuted?

Transcript of the Sheku Bayoh Inquiry

1 I wonder whether that was a matter that was in fact
2 outwith your expertise?

3 A. As you can see, this is in a sense a private email, this
4 is not a publishable report although it is now public.
5 I make no apologies for that. But I have been involved
6 in an awful lot -- as -- a significant amount of this
7 sort of approach, and the extent to which the officers
8 of law and order look after people, because every
9 coronial autopsy actually starts off, usually, if it is
10 death in the community, with the police being involved
11 because they go and see to make sure the person is dead,
12 so I am well aware of what might happen.

13 But as I say for the -- my recollection is from the
14 information I had back in 2018 the story was that he had
15 been restrained under what -- as I said, normal approved
16 fashion and no more. That is what I understood at the
17 time. And yet had suddenly died, to the surprise, I got
18 the impression, of the police officers.

19 So if that is the case, I am not -- I don't know
20 whether to say this or not, but I am not -- actually
21 I do say it, about a differential police approach and so
22 on. This is a very difficult area and it is really not
23 for me to comment on, but it is very difficult when you
24 have got someone who is behaving oddly and needs to be
25 restrained, I assume the need is correct. And they did

Transcript of the Sheku Bayoh Inquiry

1 what they had, I assume, been trained to do, and yet
2 despite that suddenly he was dead. That was the version
3 I had at the time. I learned rather later it wasn't
4 like that and that is what made me change my mind.

5 Q. All right. I am conscious of the time but before we
6 perhaps break, as we usually do, at about 11.30 am,
7 can I just be clear that you made a number of
8 assumptions around the need for a restraint and that
9 officers had followed their training? You told us in
10 the last few moments that you made certain assumptions,
11 is that fair?

12 A. The version -- I don't know what I was sent. I am not
13 even sure I have kept it and I certainly don't have it
14 in front of me but it would have been written
15 information -- actually it must have been -- maybe
16 derived from the original PM report --

17 Q. We will look at the report shortly because your report
18 sets out the information that was made available to you.
19 But perhaps what it comes down to, Professor, is this:
20 would you accept today -- and I appreciate this was
21 a private email and not one you that ever expected to be
22 before a Public Inquiry --

23 A. No, no, quite.

24 Q. -- but would you accept today that a comment on the
25 police and their actions, their use of force, whether or

Transcript of the Sheku Bayoh Inquiry

1 not they should have been prosecuted, was not really one
2 for you to make? That goes beyond the bounds of your
3 expertise as a histopathologist and is ultimately
4 a matter for the Chair?

5 A. Yes. Full stop.

6 Q. All right. And indeed that prosecution is a matter not
7 so much for the Chair but for the Crown. But the facts
8 of what happened are a matter for the Chair and any
9 future prosecution would be a matter for the Crown?

10 A. Yes. I had had several conversations on the phone
11 I think with Mr Brown, and I have a vague feeling that
12 this aspect may have come up, which might have been one
13 of the reasons I put something in. But to say it is
14 unforgivable, I don't know if that is the right word,
15 but I wouldn't do that now. It's not right.

16 Q. Do you understand that in giving evidence here today you
17 are here to assist the Chair in understanding the
18 significance of sickle cell trait in the death of
19 Sheku Bayoh?

20 A. Absolutely.

21 Q. Do you understand the importance of your evidence being
22 independent and unbiased and objective?

23 A. Correct.

24 Q. And you understand the importance of staying within the
25 boundaries of your expertise?

Transcript of the Sheku Bayoh Inquiry

1 A. Correct.

2 MS THOMSON: Sir, I wonder if this would be a convenient
3 point to break?

4 LORD BRACADALE: We will take a 20-minute break at this
5 point.

6 (11.31 am)

7 (A short break)

8 (11.50 am)

9 LORD BRACADALE: Ms Thomson.

10 MS THOMSON: Thank you. Professor, I would like to take you
11 now to the report that you prepared for the Crown. You
12 took us to it yourself a few moments before the break,
13 if we can bring that up on screen, COPFS 84. We looked
14 at this very briefly to get our bearings, if we can
15 scroll to the bottom of this page, we noted earlier that
16 you repeat there the questions that were in the earlier
17 email. And then beneath that:

18 "I have been presented with~..."

19 And you list the documents that were made available
20 to you to allow you to prepare your report. They are
21 the original autopsy report; a supplementary report,
22 from 2017, confirming that Mr Bayoh had sickle cell
23 trait; Dr Soilleux's report and her supplementary
24 report; and the histology slides.

25 If we can just scroll a little further I think that

Transcript of the Sheku Bayoh Inquiry

1 is the end of the list of material made available to
2 you. If we can just scroll into the second page. Yes,
3 it is.

4 Did you feel that you had everything that you needed
5 to express a view on the significance or otherwise of
6 sickle cell trait?

7 A. Presumably I did at the time but in retrospect, no.

8 Q. In retrospect what additional information might you have
9 found to be of benefit?

10 A. A more detailed account of what actually happened in the
11 confrontation between Mr Bayoh and the police.

12 Q. You were not sent reports by other forensic
13 pathologists?

14 A. Not at the time, I don't think. Otherwise I would have
15 listed them.

16 Q. Yes. At that point in time, a report had already been
17 prepared by Dr Cary, whom you have mentioned, by
18 a professor Jack Crane, and several reports had been
19 prepared by a Dr Lawler, all forensic pathologists and
20 all of their reports pre-dated the instruction of yours.

21 Were you aware that other pathologists had been
22 instructed to prepare reports?

23 A. No.

24 Q. Would you have expected to have had sight of them?

25 A. I can't remember. This is five years ago. But in

Transcript of the Sheku Bayoh Inquiry

- 1 principle, yes.
- 2 Q. In principle, in a general sense --
- 3 A. In a general sense because this is a death in custody,
4 yes, there would be others, because Liz Soilleux is not
5 a forensic pathologist. So I would have expected others
6 but I wasn't shown them until after I wrote this.
- 7 Q. You say you weren't shown them until after you wrote
8 this, have you seen them subsequently?
- 9 A. I think I have seen Nat Cary's but actually I spoke to
10 him because we met and he said -- he knew what I had
11 written, and he said, "It's not so simple. There was
12 an awful lot of restraint processes, and so on going
13 on". And then I probably have seen his report since
14 then. At least I know his -- I have seen his
15 conclusions because Ms Wade presented them to me.
- 16 Q. So you were shown some material by the Inquiry as part
17 of the process of taking your statement.
- 18 A. Yes, this was much more recently, in the last year,
19 within the last year, not in 2018.
- 20 Q. So the reports that were not available to you at the
21 time that you prepared your report were not subsequently
22 sent to you by the Crown for comment?
- 23 A. Does it say so in my final statement? I don't want to
24 contradict myself.
- 25 Q. So I don't believe it does, I think the only reference

Transcript of the Sheku Bayoh Inquiry

1 in your statement is at paragraph 8.

2 A. Yes.

3 Q. If we can quickly pull up paragraph 8 I'd be grateful:

4 "I have been asked whether there would be any other
5 material that I would have expected to see in the
6 instruction from [Crown Office]. No, and the
7 circumstances of the death, the autopsy report, versions
8 of it, someone else's opinion and I was sent the
9 histology slides also. I must have sent them back a long
10 time ago. I have been asked if there were reports by
11 forensic pathologists in a case like this, would
12 I expect to see such reports. Yes, I would."

13 I think that is the only comment on what you had
14 seen?

15 A. Hang on just a moment. I actually brought with me all
16 the paperwork I have in relationship to this case.

17 Q. Is that what you have in front of you now?

18 A. That is what I have brought out of my briefcase.

19 Q. I see. Well, in that case I wonder whether we can
20 simply park this issue for now and revisit it and you
21 can look through your own file at your leisure over
22 an appropriate break.

23 A. Okay.

24 Q. Thank you. But certainly so far as your report is
25 concerned, you state in your report, if we can return to

Transcript of the Sheku Bayoh Inquiry

1 the report, please, at the bottom of the first page that
2 you were provided with the autopsy report,
3 a supplementary report, and two reports by
4 Dr Soilleux --

5 A. Soilleux.

6 Q. Soilleux, thank you.

7 A. And her supplementary. Yes, this is correct because
8 I always, always put in all the documents I have seen
9 when I am making a report. So the omission means that
10 I didn't have them.

11 Q. You didn't have them, and just as a cross-check on that,
12 if we might return very briefly to the email that you
13 were sent by Les Brown, that is COPFS 02468. We see he
14 says in the middle of the first paragraph:

15 "I will forward a total of four reports for your
16 consideration in relation to this case separately."

17 Do you see that Professor?

18 A. I do see that, but I am not sure that I got them.

19 Q. There were four reports listed in your report: the two
20 post mortem reports and the two reports by Dr Soilleux.

21 A. Yes, that is right. There's two from the original
22 pathologist and two from Liz Soilleux, correct. That is
23 the four.

24 Q. So les Brown refers to sending you four reports, he says
25 he will send you four reports and you have narrated in

Transcript of the Sheku Bayoh Inquiry

1 your report the receipt of four reports: two post mortem
2 reports, and two by Dr Soilleux?

3 A. Yes.

4 Q. Would it have been of benefit to you to have seen the
5 other pathologists' reports?

6 A. Yes.

7 Q. What would the benefit have been to you?

8 A. More detail about the confrontation between the decedent
9 and the police.

10 Q. From a medical perspective would there have been
11 a benefit to you in reading the pathologists' reports?

12 A. It would indeed because, as I said earlier before
13 the break, the definition of whether sickle plays a role
14 in this sort of death is subjective. There is no
15 defined hard point. And the more information you have
16 about other alternative explanations for causing
17 a death, then the less important the sickle will be. It
18 is really as simple as that actually, it's a balance.

19 Q. You weren't sent statements by the Crown Office,
20 statements of the police officers involved in the
21 restraint or civilian witnesses?

22 A. Well, I don't normally get sent that sort of stuff. But
23 it might have been helpful in this case, and if I had
24 had more information available I would presumably have
25 written my report differently back in 2018. Correct.

Transcript of the Sheku Bayoh Inquiry

1 It's certainly the sort of information that comes out in
2 inquests, where you realise that the whole thing was
3 actually rather different from what you were told when
4 you did the autopsy and you change your mind, and in
5 coronial inquest courts that is perfectly satisfactory;
6 when different information arises you alter your
7 perspective.

8 Q. Do you feel to any extent at a disadvantage not having
9 had sight of the other pathologists' reports or
10 statements or a summary of the events that transpired at
11 Hayfield Road?

12 A. Sorry, I didn't quite get what the question was.

13 Q. To what extent, if at all, do you feel put at
14 a disadvantage by not having had the reports?

15 A. Well, I do in retrospect, but at the time obviously
16 I didn't feel disadvantaged.

17 Q. Let's return to your report, please. If we can look at
18 the second page, at the histopathological review.

19 A. Yes.

20 Q. You took us through this very quickly before the break.
21 I wonder if we can simply look at the significance of
22 your findings in turn. So the bone marrow, no
23 sickle cells; is that a matter of any significance from
24 your perspective?

25 A. It is a piece of information. It's a datum.

Transcript of the Sheku Bayoh Inquiry

1 Q. Does that information tell you anything, the absence of
2 sickling in the bone marrow?

3 A. In people with -- even with people with sickle cell
4 disease if they die suddenly, they do not necessarily
5 show sickle cells in their bone marrow. But they might,
6 and similarly with sickle trait. That is not the
7 critical point. It's variable. The whole business
8 about what happens to sickle -- red cells that contain
9 the sickle gene and abnormal haemoglobin after death is
10 it fraught, as I am sure you are going to bring up in
11 more detail, and you will have seen many accounts from
12 people who say you can place no trust whatsoever
13 in whether you see sickle cells or not, it doesn't mean
14 anything because they sickled after death.

15 To an extent that is true, I am talking from my
16 personal experience, but I do believe that when
17 particularly the lung vessels are extremely abnormally
18 distended with sickled red cells, then you can take that
19 as being meaningful because they wouldn't be so
20 distended at the time of death if that process hadn't
21 happened before death.

22 I explained earlier what the acute chest syndrome
23 pathology is, it's distention, widening, dilatation of
24 these blood vessels with large numbers of sickle red
25 cells, and I do not believe that that process happens in

Transcript of the Sheku Bayoh Inquiry

1 normal sickle trait people not under stress or anything
2 else as a post mortem event. I believe it is premortem
3 pathology and I will stick with that. But it is
4 an opinion, you know. As I say there is no
5 hard-and-fast rules, and you will find other
6 pathologists who might say different.

7 Q. Before we discuss the lung findings in more detail, can
8 we perhaps look at the other slides that you considered.
9 We have spoken about the bone marrow. The next is the
10 brain:

11 "Early red neurone change only (from
12 hypoxia-ischaemia); some vessels have sickled red blood
13 cells."

14 What does that tell you?

15 A. It means he has died because his brain neurones have
16 suffered from lack of oxygen, lack of blood, and he is
17 brain dead or is becoming brain dead.

18 Q. "Kidney - very congested; some parts just normal red
19 blood cells ... but much massive SRBC accumulations in
20 arteries, capillaries ... and veins. No disseminated
21 intravascular coagulation ... no casts in tubules."

22 What does this tell you?

23 A. Right, this is -- most of my kidney histopathology
24 reports read a bit like that because these are things
25 that you look for. DIC means there is no blood clots,

Transcript of the Sheku Bayoh Inquiry

1 there is no thrombosis going on inside the glomerulae
2 which you can see under certain circumstances in sickle.
3 The casts means that there is no muscle necrosis that
4 has gone on for long enough for muscle protein to come
5 out into the blood, go to the kidneys, and deposit in
6 the tubules, and we call them myoglobin, myoglobin being
7 the muscle protein casts. That is very commonly seen in
8 people who have crush injury of muscle, like someone who
9 has been -- lying on a concrete floor, get crush injury
10 of the buttock muscles and thigh muscles and that
11 injured muscle ends up in the kidney, you can see it.
12 So I just simply put that in as relevant negative.

13 I believe in stuffing my histology reports with lots of
14 significant negatives because they answer questions.

15 Q. Should we understand from what you have just said that
16 when you were looking at the histology slides and
17 commenting on them, you are not limiting your analysis
18 to the presence or absence of sickling, you are looking
19 at the tissue more widely?

20 A. Yes, but particularly I am putting other things that
21 I have seen in the context of sickle in general deaths,
22 just to say these are there and these are not there.
23 Also, to be quite honest, to make it look more detailed
24 than the original pathologist to show that I know more
25 than they do.

Transcript of the Sheku Bayoh Inquiry

- 1 Q. Returning to the kidney, where you say:
- 2 "... much massive [sickled red blood cells]
- 3 accumulations in arteries, capillaries ... and veins."
- 4 What does that tell you?
- 5 A. It means that around the time of death he sickled a lot
- 6 in the kidneys. The obvious question is how much
- 7 happened before death and how much happened after. Can
- 8 you tell? No.
- 9 Q. When you say much massive SRBC, is that technical
- 10 language?
- 11 A. No, it's --
- 12 Q. What is massive?
- 13 A. No, no, it is just subjective. It means lots.
- 14 Q. Lots. Okay. Moving on to the liver:
- 15 "Severe congestion of vessels and sinusoids; much
- 16 SRBC present ... architecture normal, no steatosis~..."
- 17 A. Fatty change indicating chronic -- no, recent alcohol or
- 18 other drugs:
- 19 "... no necrosis. Bile ducts normal."
- 20 Q. In relation to sickling, again you have recorded much
- 21 SRBC present?
- 22 A. There's lots, yes, that is right. I don't think
- 23 I photographed this case, which perhaps I should have
- 24 done, it might have been helpful actually, so I can only
- 25 go from the words, I haven't reviewed the slides since

Transcript of the Sheku Bayoh Inquiry

1 2018.

2 Q. I see.

3 A. I don't know if they are still available.

4 Q. Moving on to the heart. You observe:

5 "Right ventricle normal; left ventricle normal apart
6 from acute contraction bands scattered (from
7 resuscitation)~..."

8 A. Yes.

9 Q. "... no scars, no acute ischaemia or myocarditis; much
10 SRBC in vessels and capillaries."

11 So again, we have more sickling in the heart?

12 A. That is another variable thing. Some sickle trait and
13 sickle disease people have lots inform the muscles when
14 you see them when they are dead, some don't. It is
15 variable. Again, it is not a critical thing because
16 sickle trait or disease does not damage the heart
17 acutely. So it doesn't really matter what is there.

18 Q. If we can scroll down a little please, after the heart
19 is thyroid:

20 "... normal apart from much SRBC."

21 And you say the same in relation to the adrenal --
22 is that the adrenal glands? What conclusions again do
23 you draw from that, simply that sickling is present?

24 A. It just means that all through the body is sickling.

25 Q. Okay.

Transcript of the Sheku Bayoh Inquiry

1 A. These are the organs of a sample so they have a separate
2 paragraph, one doesn't normally necessarily take samples
3 of thyroid or adrenal if to the naked eye they look
4 perfectly normal, but they were there so you comment on
5 them.

6 Q. Finally the lungs:

7 "... congested with distended vessels; 6 pieces
8 sampled~..."

9 You explained earlier ordinarily it would be five:

10 "... areas of alveolar oedema and no associated
11 sickling; areas of sickling in veins and alveolar
12 capillaries; 3/6 pieces have this sickling, 3/6 have
13 mild or no SRBC in the non-oedema areas. No thrombi, no
14 alveolar haemorrhage."

15 Help us to understand the import of your findings in
16 relation to the lungs?

17 A. It is a description -- it's a semi-quantitative
18 description of how much sickling is going on in the
19 relevant areas of the veins and the alveolar
20 capillaries, and half the samples taken did have it and
21 the other half didn't.

22 Q. What does that tell you?

23 A. Well, this is the problem actually, I remember thinking
24 about this at the time, thinking well, we don't have
25 another good reason really as to why this person has

Transcript of the Sheku Bayoh Inquiry

1 died the way he did. Remember, I didn't have the
2 complete story. So I thought in that context, and also
3 possibly biased a little bit by Liz Soilleux's previous
4 report, who emphasised that a lot, I thought perhaps the
5 sickling did have a role here.

6 Q. Can we turn to your statement for a moment please and
7 look at what you say there about your findings in
8 relation to the lungs. Paragraphs 15 through to 18.
9 15, this is in relation to the lung, you say:

10 "This is the crucial one in people who have died
11 under restraint and exertion and you can say that sickle
12 really is very important here."

13 Why is the lung the crucial sample?

14 A. Sorry, I didn't get the question.

15 Q. Here if we scroll up just a little bit we see we are
16 talking about the lung tissue?

17 A. Yes.

18 Q. And then at paragraph 15 you say this is the crucial
19 one --

20 A. Yes.

21 Q. -- in people who have died under restraint --

22 A. I have explained that several times already.

23 Q. Well, do indulge me. Why is it that the lung tissue is
24 the crucial sample?

25 A. From my experience and from the literature of people who

Transcript of the Sheku Bayoh Inquiry

1 have died under restraint and/or exertion, and there is
2 no other obvious cause of death, it is because the
3 sickling in the lungs is why they are dead.

4 Q. Okay. Sorry did you want to add to that?

5 A. No, not particularly.

6 Q. Paragraph 16:

7 "Now, in this particular case, you will notice
8 I have been quite precise, that whoever did the autopsy
9 took six samples of lung, I assume from six different
10 parts of the lung.

11 "The lung has five lobes, so probably it's one piece
12 from each lobe, plus one extra, but I don't think it was
13 stated exactly where they come from. Some bits don't
14 have any sickling and some bits do, which is why it's
15 not quite so clear-cut as some of the other more obvious
16 ones, where all the lungs are very sickled, and you can
17 say this is a classic example of the scenario called the
18 Acute Chest Syndrome, and this is well known in sickle
19 disease."

20 A. The word "this" here applies to a classic one, where it
21 is all sickled. Not "this", as in this particular case.

22 Q. I see. I see. So with acute chest syndrome you would
23 expect sickling throughout the lung?

24 A. Yes.

25 Q. Whereas here you have found --

Transcript of the Sheku Bayoh Inquiry

1 A. Partial.

2 Q. -- sickling in three out of the six --

3 A. Exactly.

4 Q. -- samples taken?

5 A. Exactly.

6 Q. Can we look at the following paragraph please again in
7 relation to the chest:

8 "It obviously happens much more commonly in people
9 with sickle disease, and what it means is that in the
10 lung blood vessels, the cells sickle, and they simply
11 can't move. If you can't have blood moving through the
12 lung, the lung stops, the heart stops, and you die. It
13 is called a crisis due to Acute Chest Syndrome.
14 Mr Bayoh has some aspects of the Acute Chest Syndrome,
15 which is why I think sickle contributed. Having thought
16 this through, I would now say my bottom line is that
17 I think we should probably move sickle trait down in the
18 cause of death list from being in part 1 into part 2, as
19 a contributor but not the main cause."

20 We will come in the fullness of your evidence to
21 look at the change in your opinion, but focusing on the
22 first part of that paragraph, you say that Mr Bayoh has
23 some aspects of the acute chest syndrome which is why
24 you think sickle contributed. I take that to mean
25 contributed to death. What are the aspects of acute

Transcript of the Sheku Bayoh Inquiry

1 chest syndrome, is it simply the presence of sickling in
2 the lungs?

3 A. Yes. That is the pathology.

4 Q. That is the pathology?

5 A. Yes.

6 Q. I see. Let's return to your report, please, and if we
7 can move on to the second page. We've looked at all of
8 the individual tissue samples and what you found on
9 examination, if we can now go to the commentary. You
10 say:

11 "I do not need to repeat the chronology of the
12 circumstances of death of this man who had sickle cell
13 trait."

14 And then in brackets HbAS. What is HbAS?

15 A. Haemoglobin AS it means you have one -- half of the
16 haemoglobin in the cells is normal A and half is
17 sickled. HbAS is this sort of code for sickle trait
18 status.

19 Q. I see. You continue:

20 "From my review of the gross and histology features
21 of the deceased's tissues, and based on my previous
22 experience of such deaths in HbAS, and knowing the
23 literature as it has been presented by Dr Soilleux,
24 I believe that HbAS trait did contribute to the death of
25 BAYOH."

Transcript of the Sheku Bayoh Inquiry

1 When you say that you reviewed the gross and
2 histological features, what do you mean by the gross
3 features?

4 A. The gross features actually really means there's no
5 other cause of death evident. It wasn't
6 a straightforward heart attract, stroke, pulmonary
7 thromboembolism et cetera, that is what I meant by that.
8 There is no other gross pathology. All the pathology
9 here is subtle histopathological.

10 Q. When you refer to the histology features, are those the
11 features we have been discussing under the section --

12 A. Yes, that is right.

13 Q. -- headed, "Histological review". You make reference
14 there to drawing on your previous experience. To what
15 extent did you require to rely on previous experience
16 and how did that inform your analysis?

17 A. Totally. From looking at the cases as in that table,
18 which no doubt you will come to anyway, of the eight
19 cases, this being number five I think on that table, it
20 comes down to quantitation, it ultimately comes down to
21 the balance of quantitation of how much sickling is
22 going on in the lungs consistent with classic cases of
23 acute chest syndrome where there is no argument at all,
24 versus alternative possible explanations for the death.

25 The fewer there are on the alternative explanations,

Transcript of the Sheku Bayoh Inquiry

1 like obvious gross pathology, then the more emphasis you
2 are probably going to put on the sickling there in the
3 lungs. But on the other hand if it turns out that the
4 other features in the case of which one was not so much
5 aware at the time are actually rather more emphatic than
6 you believed, then in a sense you downplay the sickling.
7 Putting it fairly crudely but that is what it is about.

8 Q. You mention literature, you say:

9 "... knowing the literature as it has been presented
10 by Dr Soilleux~..."

11 Did you refer to literature to inform your
12 decision-making?

13 A. I looked through her literature list and said I have
14 read that, I have read that, I have seen that, I have
15 got the book and so on. I didn't go into any more
16 details.

17 Q. Was it literature that was familiar to you?

18 A. Oh yes.

19 Q. Returning to your conclusions or your commentary section
20 you say:

21 "There is no doubt that HbAS persons have died in
22 custody or under stress (heat, dehydration, exercise)
23 where the main pathogenesis a sickle crisis affecting
24 the lungs (particularly), the kidneys, skeletal muscle,
25 and the heart, and this has led to death. There is

Transcript of the Sheku Bayoh Inquiry

1 no doubt that the vast majority of persons with HbAS who
2 undergo life's daily stresses do not suffer any such
3 syndrome. The critical aspects are therefore the level
4 of stress and accompanying elements such as dehydration,
5 drugs, alcohol intake, muscle activity, and body
6 temperature."

7 I would like it ask you some questions about that
8 paragraph. You refer to HbAS persons dying in custody
9 under stress and we have discussed already the military
10 paper and the papers relating to sportspeople. When you
11 refer to stress there you put in parenthesis heat,
12 dehydration, exercise; are these the key stressors, or
13 are there any other stressors that could potentially be
14 relevant?

15 A. Those are the main ones. We went through it before,
16 didn't we? Hydration status; concentration of sickle in
17 the red cells, which of course is in-built; oxygenation;
18 and acidity, which relates to muscle activity. Drugs
19 and alcohol of course relate in a sense to the other
20 side of the scale, as are they sufficiently bad,
21 abnormal to have caused death in their own right.

22 Q. At the bottom of that paragraph, the one that is now at
23 the top of the screen, you refer to the critical aspects
24 being the level of stress and accompanying elements
25 being dehydration -- sorry, accompanying elements such

Transcript of the Sheku Bayoh Inquiry

1 as dehydration, drugs, alcohol intake, muscle activity
2 and body temperature. For your information, Mr Bayoh's
3 blood and urine were subjected to a screen and were
4 negative for alcohol.

5 A. Yes.

6 Q. Does that change anything? Is that particularly
7 relevant here?

8 A. Well, alcohol is not relevant.

9 Q. So alcohol is not relevant?

10 A. Yes.

11 Q. All right, but would that have an impact on any of the
12 conclusions you reached back in 2018?

13 A. No, not really, no.

14 Q. So far as temperature is concerned, we heard evidence
15 that in hospital Mr Bayoh's temperature was recorded at
16 35.8 degrees?

17 A. 35?

18 Q. 35.8?

19 A. That is low.

20 Q. But that it was a cold wet morning and he was outdoors
21 only wearing a T-shirt. Do either of those piece of
22 information change anything?

23 A. How was the body -- it gets very -- how was the body
24 temperature actually measured, because you can get any
25 number you want depending on where you put the

Transcript of the Sheku Bayoh Inquiry

1 thermometer or the device, I don't know. And I don't
2 know if I did know either.

3 Q. But otherwise in that paragraph -- if we can scroll up
4 so we can see the full paragraph again, please -- you
5 make clear that some HbAS persons have died in custody
6 or under stress as a result of the sickle crisis, that
7 you have explained to us in detail in your evidence but
8 you also observe, and again you've told us about this
9 today, that the vast majority of people with sickle cell
10 trait who undergo life's daily stresses do not suffer
11 any such syndrome?

12 A. Yes.

13 Q. Continuing to the next paragraph of your report, please.
14 You say:

15 "In evaluating the clinical pathology, the critical
16 aspects are the amount of sickling of red cells and in
17 how many critical organs. There is no rigid
18 morphological case definition we must acknowledge that
19 separates harmless sickling from harmful sickling, it is
20 inevitably somewhat subjective and informed by the
21 observer's previous experience. It must be acknowledged
22 changes in the body's tissue post mortem can contribute
23 to sickling of red cells but the quantity of sickling
24 here tells me that this is much more than just
25 post mortem sickling, it happened perimortem as part of

Transcript of the Sheku Bayoh Inquiry

1 the death process."

2 I would like it ask you some questions around that.

3 You say --

4 A. I stick with that paragraph.

5 Q. That is helpful to know. You say that the critical
6 aspects are the amount of sickling, can you comment on
7 the significance of the amount of sickling in Mr Bayoh's
8 case?

9 A. Well, we have already been through this, I put "massive"
10 in the kidney, I can't remember quite what it did look
11 like but it was obviously far more than any sickle trait
12 person who died -- more in Mr Bayoh's kidney than in
13 a comparable sickle trait kidney from someone else. It
14 must have been more, otherwise I wouldn't have written
15 that.

16 Q. So far as the number of critical organs are concerned,
17 it appeared that with the exception of the bone marrow
18 you found sickling --

19 A. It is everywhere, isn't it?

20 Q. -- everywhere?

21 A. Absolutely, yes, and that is certainly what impressed
22 Dr Soilleux as well, that it was everywhere. But she
23 won't have seen as much sickle pathology as I have, but
24 that impressed her.

25 Q. What conclusions would you draw from both the amount

Transcript of the Sheku Bayoh Inquiry

1 of sickling present and the number of organs affected?

2 A. As I said, it is a little sort of line, arrow, moving
3 along the scale, and the more you see the more you
4 think: ah, sickling might be relevant here. And when it
5 comes to -- the crucial one is the lung, how much is
6 going on in the lung, as I have said several times
7 before. Because if something is going to stop the body
8 function such that the person dies, it is going to be in
9 the lung. That is the critical bit that is affected.
10 Because, as I have said already, you can damage the
11 kidney, you can damage the liver and so on but that is
12 not going to kill you. Not acutely anyway.

13 Q. You have explained to us already that of the six lung
14 samples there was sickling present in three --

15 A. I know, only in three, yes. Perhaps I should have
16 hedged a bit more. But for some reason or another back
17 in 2018 I didn't.

18 Q. Returning to that paragraph, you say:

19 "There is no rigid morphological case definition
20 that separates harmless sickling from harmful sickling."

21 So some sickling can be harmless then?

22 A. Some of it can happen simply after death and it is
23 nothing to do with anything, it is part of the
24 decomposition process. That is what I meant by that
25 actually.

Transcript of the Sheku Bayoh Inquiry

1 Q. I see. So it's not that we are talking about sickling
2 in lifetime that hasn't taken a person suffering from
3 sickle cell trait to tipping point --

4 A. It could include that but the point is it is very
5 difficult at autopsy work to know which one is which.

6 Q. You do on to say the quantity of sickling here tells you
7 this is much more than just post mortem sickling?

8 A. Yes, that is what I thought at the time.

9 Q. Is that drawing on your experience?

10 A. Absolutely, because there is nothing else to draw on.
11 Some of the papers produce pictures and so on but they
12 are not much help, in the end it's what you have seen
13 before and how you have interpreted it, and how in a way
14 those deaths have been -- if they have been re-evaluated
15 and tested again and what the final conclusions were.
16 In a sense this particular case is another example of
17 learning, that you readjust where your needle is on the
18 dial according to what you have seen and what you have
19 learned subsequently. That is how we all work.

20 Q. Can we move to your statement briefly please, because
21 there are a couple of paragraphs there in which you deal
22 with the difficulty in determining whether sickling is
23 antemortem or post mortem. Could we look please at
24 paragraphs 30 and 31:

25 "I am asked how I can tell that the sickling happen

Transcript of the Sheku Bayoh Inquiry

1 prior to death and contributed to the death, as opposed
2 to it was sickling that occurred around the time of
3 death as part of the process of dying. When people who
4 have sickle trait, who have died of something else, die,
5 you can get after death sickling because the body cools
6 down and it becomes slightly acid, and that can turn red
7 cells sitting harmlessly in blood vessels into sickle
8 cells, and we see that. There is a difference,
9 actually. The sickle happening before as opposed to
10 after death; this is partly based on the organ
11 distribution of the sickling, and quantification of the
12 process, which is subjective histopathological
13 evaluation."

14 Again, you are drawing on your experience in making
15 this assessment?

16 A. Everything there is true, yes.

17 Q. If we can move to paragraph 31:

18 "Almost certainly in Mr Bayoh, like in all the other
19 cases, there's an element of both, because you don't
20 autopsy people the moment they die or very rarely. So
21 there is always going to be a little of additional
22 post mortem sickle trait, 'it happens anyway sickling'."

23 You have called it:

24 "I was making a comparison between the average
25 sickle trait person who's died and this kind of case,

Transcript of the Sheku Bayoh Inquiry

1 like Mr Bayoh's, where there is more sickling, and it
2 struck me it probably could have contributed to death.
3 In other words, it happened in the time leading up to
4 the point when his heart stopped. However, to
5 emphasise~... again, in terms of importance and
6 significance of the sickle cell trait, it's a lot less
7 than the recreational drugs and the struggling and the
8 restraint. Those are the important things here."

9 Can we return to your report, please, and you say
10 the quantity of sickling in Mr Bayoh's case -- sorry,
11 this is on page 3. You say the quantity of sickling
12 here tells that you this is much more than just
13 post mortem sickling. Can you help us to understand
14 your thought processes when you reached the conclusion
15 that what you saw histologically was more than
16 post mortem sickling?

17 A. That is -- yes, that is right. I think I still think
18 that is correct in this case. But it is balanced
19 against other factors which have become more evident
20 since I wrote that.

21 Q. What led you to the conclusion that it was more than
22 just post mortem sickling?

23 A. Oh, because the lung vessels, where they were affected,
24 were very dilate. They were very distended. That was
25 the crucial thing.

Transcript of the Sheku Bayoh Inquiry

1 Q. And you said earlier in your evidence that is something
2 that happens in life and not after death?

3 A. I thought that happened in life because it is not what
4 one sees in people with sickle trait who have died of
5 other reasons.

6 Q. I see. You say it happens perimortem as part of the
7 death process, that is at the very end of that
8 paragraph. What do you mean by perimortem here?

9 A. In the period just before, during and after death.

10 Q. Okay, so that is different from antemortem?

11 A. It will include a bit of antemortem, but it is leading
12 to death, leading towards death.

13 Q. I see, so perimortem is around the time of death?

14 A. Yes, around, that is right. Like peripartum is around
15 the time of delivery, not necessarily at the moment when
16 the baby comes out.

17 Q. So can I just ask you to clarify please, in your opinion
18 when did the sickling that you saw in Mr Bayoh's case
19 take place. If perimortem encompasses before, during
20 and after death, to what extent was the sickling that
21 you saw in your opinion antemortem?

22 A. I thought it was antemortem because the lung vessels
23 were particularly dilated and that doesn't happen, as
24 I have said several times, in someone who has sickle
25 trait and just dies for some other reason. You don't

Transcript of the Sheku Bayoh Inquiry

1 quite see -- you don't see -- the lungs look different.

2 Q. Okay. So although your report says that the sickling
3 happened perimortem as part of the death processes, we
4 should understand that there was evidence to you as
5 a histopathologist that at least some of this sickling
6 was antemortem?

7 A. Yes. That is what I inferred from the tissues, yes.

8 Q. Let's move on to the next paragraph of your report,
9 please:

10 "In the BAYOH case, I am impressed by the quantity
11 of sickling in the organs such as the heart, kidneys,
12 liver, thyroid and adrenal - much more than I expect to
13 see in the organs of those with HbAS who died of
14 unrelated causes. The lung tissues show more
15 variable amounts of sickling, but where it is present,
16 it is again more pronounced (ie the blood vessels are
17 more distended)~..."

18 You have told us about that already:

19 "... than one would normally see in HbAS persons
20 dying of other causes."

21 A. I stand by every phrase there.

22 Q. Moving through your report, please, to the next
23 paragraph:

24 "Dr Soilleux present a good diagram of the potential
25 clinical pathology of death in this case, with which

Transcript of the Sheku Bayoh Inquiry

1 I do not significantly disagree apart from suggesting
2 a more prominent component from the lung pathology. She
3 concludes with the cause of death as:

4 "1a. Sudden cardiac death.

5 "1b. Sickle cell trait, recreational drug use,
6 struggle against restraint.

7 "I would suggest an alternative:

8 "1a. Sudden cardio-pulmonary failure.

9 "1b. Sickle cell trait, recreational drug use,
10 struggle against restraint.

11 "The last feature - struggle against restraint - can
12 include positional asphyxia, but as a non-forensic
13 pathologist, I do not wish to be drawn into a more
14 detailed discussion in that area."

15 Scrolling down:

16 "Importantly I don't think we can quantify the
17 contribution of the three factors presented in 1b and
18 state, with rigour, that one is more or less important
19 than the others. It is multifactorial."

20 I appreciate this was the opinion you expressed in
21 2018, and I understand that your opinion has perhaps
22 moved away to an extent but if we can stay with the text
23 of your report for now, can you help us to understand
24 the difference between 1a and 1b in the cause of death?

25 A. Sorry, what is the question again?

Transcript of the Sheku Bayoh Inquiry

- 1 Q. The difference between 1a and 1b --
- 2 A. 1b --
- 3 Q. -- on a certificate death certificate in general, not
- 4 with reference to this case?
- 5 A. The bottom line of any cause of death sequence, which
- 6 here happens to be 1b -- it could be 1c, it could be
- 7 1a -- is the pathology, the clinical pathology, what
- 8 goes into the national statistics. 1a, if there is one,
- 9 is the mode by which that pathology caused the end of
- 10 the life of that person, and often one leaves it out.
- 11 In fact statisticians don't like that because it
- 12 gets in the way, they just want the bottom line. I just
- 13 refined the bottom line because it made it seem as
- 14 though the sickle cell trait had stopped the heart; it
- 15 hadn't. The sickle cell trait had blocked off the lungs
- 16 or contributed to blocking off the lungs, stopping the
- 17 circulation and as an end result stopped the heart. It
- 18 is just being picky and nerdy about the precise
- 19 pathology going on.
- 20 Q. We have heard that death certificates also have
- 21 a part 2?
- 22 A. Well, I don't think the original version had a part 2.
- 23 I mean, no one was put in --
- 24 Q. Sorry, death certificates in general. Let's move away
- 25 from Mr Bayoh's case.

Transcript of the Sheku Bayoh Inquiry

1 A. Oh, right, yes. They have the option to fill in part 2,
2 one doesn't necessarily use it.

3 Q. What would one use part 2 for?

4 A. What you put in part 2 is other conditions, acute or
5 chronic, that contributed to the death not so much in
6 actually causing the death but in influencing when it
7 happened, and how it happened. I can tell you that
8 every certifier of death certificates, every
9 pathologist, every coroner -- and remember, coroners
10 write death certificates on advice -- has a different
11 view of what goes into part 1 and part 2, there is no
12 consistency just as there is actually -- and it's
13 a separate debate -- no consistency in what is a natural
14 or an unnatural cause of death. This is simply
15 an inevitable conflict between medicine and law, where
16 there is no general agreement on details as to what
17 should go where.

18 Q. So, back in 2018 the only difference between yourself
19 and Dr Soilleux was that you would have preferred sudden
20 cardiopulmonary failure over sudden cardiac death. For
21 members of the public who are perhaps listening to your
22 evidence, can you explain please the difference between
23 sudden cardiac death and sudden cardiopulmonary failure?

24 A. Cardiopulmonary failure here means the acute chest
25 syndrome. It is shorthand for that.

Transcript of the Sheku Bayoh Inquiry

- 1 Q. In the paragraph beneath the cause of death, you say:
- 2 "The last feature - struggle against restraint - can
- 3 include positional asphyxia, but as a non-forensic
- 4 pathologist, I do not wish to be drawn into a more
- 5 detailed discussion in that area."
- 6 What did you mean by that?
- 7 A. What I was really meaning is that -- I wasn't told very
- 8 much about what actually happened in the struggle
- 9 against restraint, and I had the impression from the
- 10 original autopsy report that that aspect was not
- 11 particularly important. Positional asphyxia is --
- 12 actually, can I ask you, have you had forensic
- 13 pathologists talking about positional asphyxia in this
- 14 Inquiry up to this moment?
- 15 Q. Yes, we have heard evidence from the Dr who performed
- 16 the autopsy and we will be hearing evidence from another
- 17 forensic pathologist in the fullness of time.
- 18 A. Good. The practical point is as a non-forensic
- 19 pathologist I don't have much street cred going in for
- 20 positional asphyxia if there is third party involvement,
- 21 I just put it as crudely as that. I have seen deaths
- 22 from positional asphyxia where people have, because they
- 23 have been drunk, flopped over a sofa and basically their
- 24 head and neck is resting on the arm of a sofa and have
- 25 asphyxiated because they were drunk. Were that to be in

Transcript of the Sheku Bayoh Inquiry

1 relation to a possible criminal offence and third party
2 involvement, I don't get involved because that is
3 forensic stuff. And I am simply being cautious there,
4 perhaps unnecessarily so, that I don't have -- because
5 the death occurred in confrontation with the forces of
6 law and order, I couldn't really make any comment
7 because I didn't know enough and I don't have any street
8 cred as a forensic pathologist.

9 Q. Thank you. I want to move on now to ask you questions
10 about the extent to which you perhaps departed from the
11 opinion that you expressed in 2018, and the reasons for
12 that departure. A good place to start might be by going
13 back to your statement, where you give an explanation at
14 paragraph 25:

15 "Reflection on my report four years on, I don't
16 think sickle cell trait is quite as important as
17 I thought it was perhaps back in 2018. That's partly
18 influenced by lots of discussions I had with coroners in
19 England about how we should be phrasing causes of death;
20 what is important and what is less important, what goes
21 into part one, which is the main thing, and what goes
22 into part two as a contributor. If I was doing this
23 case again now, I would move the reference to sickle
24 cell trait to part 2 of the death certificate. I would
25 not frame the entire story of his death around sickle

Transcript of the Sheku Bayoh Inquiry

1 cell trait. I would just simply put that in on the end
2 as a small extra factor; as explained earlier, that it
3 may well have shortened his light of the expectancy by
4 a couple of minutes, given the stresses he was under at
5 the time."

6 A. The only thing I would change is I don't quite know why
7 I put -- I think I was slightly pressed by Ms Wade about
8 time and I said, "Maybe a couple of minutes or something
9 like that", but it is not something I want to be taken
10 precisely. But the rest of it is true. Particularly
11 I remember now back in those times that the coroner for
12 Southwark was pressing me very hard to join him as
13 co-author on two big papers on what is a natural and
14 unnatural cause of death and the point is we couldn't
15 agree, which is why I took my name off it and it got
16 published by other means. It is actually a very
17 complicated issue.

18 Q. I think in fairness when you say at the very end of
19 paragraph 25, "a couple of minutes", you go on in
20 paragraph 26 to say:

21 "Again, that is guesswork. I can't quantify
22 that~..."

23 A. Yes.

24 Q. "Seriously no one can do that." Continuing to read
25 through paragraph 26, please:

Transcript of the Sheku Bayoh Inquiry

1 "On many occasions I have provided opinions that
2 sickling played no role whatsoever but, conversely,
3 I have seen ones where it absolutely definitely did and,
4 if they hadn't had sickle, they probably wouldn't have
5 died when they did. I don't think this case [that is
6 Sheku Bayoh's case] comes into that category."

7 A. Yes.

8 Q. Can you help us to understand then why it is that you
9 feel now in 2023 that sickle cell trait perhaps played
10 a less important or less significant role than you had
11 thought in 2018?

12 A. Two reasons, or two related reasons. One, I was
13 informally given summaries and some evidence that a lot
14 more restraint than I had appreciated back in 2018 had
15 occurred in this case. Also, and this will be a fairly
16 obvious bit of information to everyone in this
17 courtroom, there has been a huge amount of public
18 information about police restraint and death,
19 particularly, but not only, in black people. The
20 George Floyd case is the calling one, where this poor
21 man in Minnesota certainly did not have sickle trait, as
22 far as I know he didn't anyway, but he was photographed
23 doing what -- I can't say this really. I was going to
24 say one would not like the police to be doing things
25 like that. The point is that everyone saw that

Transcript of the Sheku Bayoh Inquiry

1 restraint kills; restraint pure and simple, prolonged,
2 kills. And it was with that sort of thing in mind when
3 I heard that, in this particular case, Mr Sheku Bayoh,
4 that there was more restraint and struggle going on than
5 I had appreciated back in 2018, I thought that actually
6 I am going to change my mind and downgrade the role that
7 sickle played in his death. It's as simple as that.

8 Q. Can we look at paragraph 35 of your statement, please,
9 where you explain a little bit more about your change of
10 opinion. You say:

11 "I think I would modify that statement now ..."

12 Sorry, for context we should look at what came above
13 that. It's simply a quote from the final paragraph of
14 the commentary section of your report with the cause of
15 death, your preferred cause of death, back in 2018. At
16 paragraph 35 you say:

17 "I think I would modify that statement now and make
18 it a little less generous. Since I produced my report
19 in 2018, I have been given much more information
20 regarding the circumstances of Mr Bayoh's death
21 information (ie more about the degree of
22 restraint ...) and more forensic opinion."

23 At paragraph 36 you go on to explain the difference
24 that this additional information has made to your
25 thinking. You say:

Transcript of the Sheku Bayoh Inquiry

1 "I would now actually put recreational drug abuse
2 struggle against restraint. I'm not going to sort out
3 which of those two is more important but definitely put
4 sickle trait in a different line as it is a less
5 important phenomenon."

6 A. A different line being part 2, not part 1.

7 Q. I was about to ask. And I think you explained elsewhere
8 in your statement that it would go under part 2 of the
9 death certificate part 1. For your information, when
10 Dr Shearer gave her evidence, she was taken to
11 a relevant part within your statement where you said
12 that you would include sickle cell within part 2 of the
13 death certificate today and asked to comment, and she
14 said, yes, that is very sensible, that is -- "I would
15 agree with that completely, yes", was what she said. So
16 it would appear that you are on the same page in terms
17 of the role played by sickle cell trait and the status
18 it should be afforded on the death certificate.

19 Can we look at paragraph 37:

20 "I am asked whether but for sickle cell trait
21 Sheku Bayoh would have died. Yes. Now, I say that as
22 a non-forensic pathologist. Just from what I've learned
23 over 45 years of looking at dead people and quite a lot
24 of time looking at sickle patients particularly, it
25 seems to be a very minor component here."

Transcript of the Sheku Bayoh Inquiry

1 And at 38 --

2 A. That is a comparative statement; compared to ... other
3 events.

4 Q. Compared to other events?

5 A. Yes.

6 Q. I see. The other events that you know about now?

7 Meaning the restraint and the events surrounding that?

8 Sorry, professor, by "comparative" what other events are
9 you comparing --

10 A. More information about the degree of restraint applied
11 and, again, in the context of much public knowledge
12 recently from America about restraint-related deaths in
13 custody.

14 Q. And at paragraph 38:

15 "I am asked whether in my view sickle cell trait
16 made a material contribution to Sheku Bayoh's death.
17 Yes, but a small amount."

18 A. Yes.

19 Q. I wonder if I can just ask you about the language used
20 here. In paragraph 37 you say "a very minor component".
21 In paragraph 38 you say "a material contribution ... but
22 a small amount".

23 A. Sure. But, as you know very well, these are transcripts
24 of conversations on a video conference. So this is
25 speech, not me writing prime text.

Transcript of the Sheku Bayoh Inquiry

- 1 Q. Absolutely. All I wanted to clarify with you is --
- 2 A. But they mean the same thing.
- 3 Q. They mean the same thing. Certainly from a legal
- 4 perspective, any contribution to a harm that is more
- 5 than de minimis will be a material contribution. So
- 6 should we understand that it is your view that sickle
- 7 cell trait made a material contribution within the
- 8 definition that I have just read to you, but, all the
- 9 same, you consider it was a minor component or a small
- 10 amount?
- 11 A. Yes, and I would say -- I would stick with this; that
- 12 I think probably the sickle problem in his lungs
- 13 accelerated the moment when he died but it would have
- 14 happened anyway.
- 15 Q. Can we look at paragraph 33, please:
- 16 "I am asked whether the sickling of cells I saw in
- 17 the histology fits with respiratory arrest and then a
- 18 cardiac arrest. Oh, yes. To the extent that one can
- 19 pathologically distinguish, I think that is right."
- 20 A. This is all about how sickling causes a major organ to
- 21 fail. Okay? And what I am really saying here is, if it
- 22 contributed at all, which I believe it did, then it
- 23 did it through respiratory arrest or respiratory
- 24 malfunction, not primarily cardiac malfunction, which
- 25 would have followed on later from respiratory

Transcript of the Sheku Bayoh Inquiry

1 malfunction. As I say, and I have said several times,
2 even in sickle cell disease the heart is not acutely
3 affected, not like that.

4 Q. We have heard evidence, professor, that the police
5 officers following Mr Bayoh's collapse couldn't find
6 a pulse and started CPR but, when the ambulance arrived
7 and applied the ECG pads, they got a trace?

8 A. That is normal in resus, yes.

9 Q. And when Mr Bayoh was taken to the hospital, it was
10 a very short journey to the hospital, he was found to be
11 in respiratory arrest but very quickly went into cardiac
12 arrest. Would that sequence fit with what you saw in
13 the pathology; the respiratory arrest followed by
14 a cardiac arrest?

15 A. I think so. The whole business about acute events
16 going -- around time of death and in resuscitation is
17 actually very confusing. You made it sound very simple.
18 It actually is much more difficult, I think, necessarily
19 to tell the difference between these things going on,
20 respiratory versus cardiac. And even in A&E medicine it
21 is often rather unclear which one is primary. But they
22 are certainly linked.

23 Q. I would like to move away from your report, and indeed
24 from the statement, and return to something that you
25 said in your report, which was that:

Transcript of the Sheku Bayoh Inquiry

1 " There is no doubt that the vast majority of persons
2 with HbAS who undergo life's daily stresses do not
3 suffer sickle cell crisis."

4 What I would like you to do is to help the Chair to
5 understand the impact that the trait may have on
6 a person who is subjected to a level of stress that goes
7 beyond the daily norm but is perhaps not at the level of
8 military training in a desert or extreme exertion under
9 marathon conditions or similar. I would like to tell
10 you about some of the evidence we have had about
11 the events of the morning of 3 May of 2015, which I will
12 do in short chapters and then simply invite your
13 comment.

14 So we have heard evidence that Mr Bayoh was a black
15 man in his early 30s, he was 5 feet, 10 inches tall, he
16 was 12 stone 10 in weight, his BMI was 25.6 --

17 A. Sorry, 25.6?

18 Q. 25.6.

19 A. Normal.

20 Q. He was in good health. He had sickle cell trait,
21 although there was no mention of it in his medical
22 records. He did not have the disease. Absent any
23 source of stress, would you have expected Mr Bayoh to
24 develop sickling within his organs?

25 A. No. Not at all.

Transcript of the Sheku Bayoh Inquiry

1 Q. We have heard evidence that in the early hours of the
2 morning -- overnight or in the early hours of the
3 morning he had taken MDMA and alpha-PVP. He also used
4 the bodybuilding steroid nandrolone and nandrolone,
5 a level consistent with recent administration, was found
6 in his urine. At the time of his contact with the
7 police, which was shortly after 7 o'clock in the
8 morning, we have heard evidence from a psychiatrist that
9 he was in a state of drug-induced intoxication. So
10 can I ask in your opinion whether you would expect the
11 intoxication alone as a result of these drugs to have
12 caused sickling?

13 A. No. No. And the drugs he was taking, these are
14 difficult ones to -- you have had all this, I am sure,
15 from people far more expert than me. There are easy
16 drug intakes where you can measure things in terms of
17 levels and concentrations in body fluids and draw
18 a reasonably robust conclusion, but with the sort of
19 medications we are talking about here there are so such
20 sharp cut-offs. It is subjective in terms of
21 interpretation.

22 Q. Yes.

23 A. Yes.

24 Q. We heard evidence that, at a point in time after he had
25 taken these drugs but before he met the police on

Transcript of the Sheku Bayoh Inquiry

1 Hayfield Road, perhaps between half past 6 and quarter
2 to 7 in the morning, he had a fight with his best friend
3 in the course of which he punched his friend, chased him
4 with a washing line pole, pushed him to the ground, got
5 on top of him, and I quote "threw a good few punches".

6 A witness to this attack said it lasted about
7 two minutes. Would you expect a fight such as I have
8 described to have caused sickling?

9 A. Not a fight lasting only two minutes in someone with
10 sickle trait. No.

11 Q. We have heard evidence that after the fight but, again,
12 before he met the police on Hayfield Road Mr Bayoh was
13 chasing cars, walking briskly, walking with purpose. He
14 had a knife, and a number of calls were made to the
15 emergency services. Would you expect that level of
16 activity to cause sickling?

17 A. No, no.

18 Q. We have heard evidence that the police arrived at
19 Hayfield Road at about twenty past 7 in the morning, at
20 which time Mr Bayoh was walking along the road. He
21 no longer had a knife. He was approached by the police.
22 They shouted commands and they sprayed him with CS and
23 PAVA spray, which apparently had no effect on him.
24 Would you expect that to cause sickling?

25 A. No.

Transcript of the Sheku Bayoh Inquiry

1 Q. We have heard evidence that Mr Bayoh then chased
2 a female police officer across a roadway and struck her
3 to the back of the head, causing her to fall. He may
4 then have stamped on her back with full force as she lay
5 on the ground. There is a dispute as to whether or not
6 that happened. But would you have expected those
7 actions, a short run, striking an officer and possibly
8 stamping on their back, to have caused sickling?

9 A. I don't think so. But you are getting beyond the level
10 of what I actually know, as I am sure you appreciate.

11 Q. We then heard evidence about the restraint. This
12 involved Mr Bayoh being struck to the head with a baton
13 two or three times, struck to the body or the arms
14 another two or three times. He was then taken to the
15 ground in what has been described as both a shoulder
16 charge and a bear hug. He was brought to the ground
17 quickly, where he was restrained by several officers.
18 He struggled against the restraint, did a press up to
19 get the officers off him. The weight of one officer --
20 we have heard some evidence that one officer was lying
21 across his upper back. The officer in question was
22 25 stone in weight. He was, in the course of the
23 restraint, handcuffed to the front and leg restraints
24 were applied to stop him from kicking out. He then
25 became unconscious and subsequently stopped breathing.

Transcript of the Sheku Bayoh Inquiry

1 Would you expect a restraint such as the one that
2 I have described to you to cause sickling?

3 A. It could --

4 Q. Are you able --

5 A. -- because it was impeding his respiration. It gets
6 down to the oxygen business.

7 Q. So of the four considerations that you told us were
8 relevant, hydration, concentration, oxygen and
9 acidity --

10 A. Temperature; his temperature must have been raised at
11 that point from all that physical exercise.

12 Q. And you said the restraint -- and we have heard much
13 about the struggle against the restraint being perhaps
14 as important as the restraint itself -- may have had
15 an impact on respiration and that could cause sickling?

16 A. And also the muscular activity would presumably produce
17 some lactic acidosis. Tell me, was he ever categorised
18 as having excited delirium?

19 Q. That is not a question that I would want to be drawn
20 into. I think I would prefer to --

21 A. No, I don't either. Because its definition is very
22 difficult.

23 Q. There has been evidence led in the Inquiry around
24 excited delirium, but I think it is best that we stick
25 with --

Transcript of the Sheku Bayoh Inquiry

- 1 A. I am with you on that one.
- 2 Q. -- your area of expertise. I am interested in how the
3 restraint impeding respiration might have or "could"
4 have I think is the word you used, caused sickling. Is
5 it to do with the oxygen and the hypoxia that you
6 referenced as being one of the four things --
- 7 A. Yes, it is multifactorial. It would be hypoxia plus
8 acidosis from lactic acid coming out of the muscle from
9 inappropriate metabolism. Yes.
- 10 Q. So hypoxia and acidosis, and these could have caused
11 sickling?
- 12 A. Yes, but the other thing -- I don't know whether you
13 made reference to it, and I can't remember any details,
14 is whether his airway was obstructed.
- 15 Q. If there had been any obstruction to the airway, what
16 would the impact of that have been from the perspective
17 of sickling?
- 18 A. It could have precipitated but, more importantly, it
19 kills you faster.
- 20 Q. From the description of the restraint that I provided to
21 you, are you able to say at all at what point during
22 that sequence of events sickling would likely have
23 commenced?
- 24 A. No, you can't. I am sure in this case it developed
25 a bit during that. (Pause).

Transcript of the Sheku Bayoh Inquiry

1 MS THOMSON: Thank you, professor.

2 Sir, I am about to move on to an entirely different
3 chapter. It is a little early, but I wonder if this
4 might be a convenient point to break.

5 LORD BRACADALE: We will sit at 1.55 pm.

6 (12.57 pm)

7 (The short adjournment)

8 (1.55 pm)

9 LORD BRACADALE: Ms Thomson.

10 MS THOMSON: Thank you. Professor, earlier today you were
11 looking through a pile of personal papers relating to
12 the case that you are brought with you and I said if you
13 wanted to take the opportunity at lunchtime to ascertain
14 whether there was anything in there of significance that
15 wasn't in the folder ...

16 A. All I can say is that in this pile of papers, which is
17 all I had in my folder back home, there is no print-out
18 of any of the other forensic pathologists' reports, so
19 what I heard from them was snippets given me by other
20 people, or hearsay, but I certainly didn't have them to
21 print out. But I do remember having a conversation with
22 Nat Cary some time ago.

23 Q. In that case then it would seem fair to assume that
24 there were four reports available to you at the time
25 that you prepared your report: there was the post mortem

Transcript of the Sheku Bayoh Inquiry

1 report, the supplementary post mortem report and two
2 reports prepared by Dr Soilleux.

3 The post mortem report contained a summary of the
4 circumstances of the restraint and Dr Soilleux's first
5 report contained a detailed summary of the circumstances
6 around the restraint that was based on her reading of
7 the witness statements, and those reports and the
8 summaries contained within those reports were available
9 to you at the time that you prepared your report, is
10 that correct?

11 A. Uh-huh.

12 Q. Yes. Can you help me to understand then what
13 information about the circumstances of the restraint
14 that you didn't have at the time but you have now that
15 has caused you to change your view as to the
16 significance of sickle cell trait in the context of this
17 death?

18 A. To be absolutely honest, I can't remember.

19 Q. All right. I want to ask you one or two questions about
20 the literature around sickle cell. Can we perhaps bring
21 up your statement again, paragraph 63.

22 A. Ah, yes.

23 Q. "I would like to recommend a book to the Inquiry which
24 may be helpful 'Sickle cell and deaths in custody' by
25 Simon Dyson and Gwyneth Boswell. It is basically

Transcript of the Sheku Bayoh Inquiry

1 looking at North America and Britain and the extent to
2 which people who are black, who have sickle or sickle
3 trait and died in custody of one sort or another, to
4 what extent the system, which includes the pathologists
5 and the investigators and the police, blame sickle for
6 the deaths when actually the deaths were caused by
7 restraint or other things related to being in custody."

8 Why did you recommend this book to the Inquiry team?

9 A. Because this is a death in custody.

10 Q. And to what extent did you -- or why did you consider
11 that this book might be helpful to the Inquiry?

12 A. For background information that you, your teams and the
13 other experts may not be aware of.

14 Q. Is it a book that you have read?

15 A. Yes, I read it -- I bought it in 2009 when it came out.

16 Q. The authors are Simon Dyson, who I believe is
17 a sociologist, and Gwyneth Boswell, who is
18 a criminologist. So neither of them are medical people.

19 A. Correct.

20 Q. But from your perspective as a pathologist, as a
21 histopathologist, did you find the book to be relevant
22 and accurate?

23 A. Absolutely. Relevant in that they are dealing with what
24 we are dealing with here, and they cite a lot of cases,
25 at least four of which are mine.

Transcript of the Sheku Bayoh Inquiry

1 Q. So they cite at least four cases in which you have been
2 personally involved?

3 A. Yes.

4 Q. Are they cases involving the deaths of individuals in
5 custody or similar circumstances?

6 A. Custody and one -- three were in custody and one was on
7 army exercises, yes. British Army exercises.

8 Q. Is there anything in the book that from your perspective
9 as a medical man seems to be incorrect or inaccurate?

10 A. They get the details wrong. I know that because two of
11 them, I did the autopsies myself.

12 Q. To what extent do the authors getting the details wrong
13 impact on their overall conclusions or what you see is
14 the relevance of their work?

15 A. Not that much. I think the overall thrust of that book,
16 and also the article which came out a little earlier in
17 2006, which you kindly sent me last night, which is
18 basically a summary without all the case details of what
19 is in the book, I think is broadly correct, in that,
20 when people who have sickle trait have died in custody,
21 there have been many cases documented, and we have one
22 in this country, which I am sure we will come to, where
23 the cause of death had been put down as sickle cell
24 trait and, in their view and in mine, that is not
25 justified.

Transcript of the Sheku Bayoh Inquiry

1 Q. Are these the sorts of issues that are explored in the
2 book?

3 A. It is sort of, but they are not medical, as you said, so
4 they don't really know the precise details of what goes
5 on. But they explore it primarily from a criminological
6 and a sociological and historical actually -- historical
7 perspective. They are not terribly interested in
8 clinical pathology.

9 Q. And to what extent, if at all, have you been influenced
10 by the book?

11 A. I think it reinforced what I already suspected. Bearing
12 in mind the very first sickle cell trait death in
13 custody that I was involved in looking at was back in
14 1995, so I had had that experience under my belt, so to
15 speak, already and made me wary of what the police and
16 prison guards do, or don't do.

17 Q. You have mentioned the article that the Inquiry team
18 sent to you. I think we have a copy of that. It is
19 publicly available, albeit it has not as yet been given
20 an Inquiry reference number. But it is referred to by
21 Dr Soilleux in her report.

22 A. Yes.

23 Q. So I wonder -- just to orientate ourselves, let's bring
24 up the article. Thank you. So it's by the same
25 authors, Simon Dyson and Gwyneth Boswell. We see

Transcript of the Sheku Bayoh Inquiry

1 the article is entitled "Sickle cell anaemia and deaths
2 in custody in the UK and the USA" and it was published
3 in the Howard Journal of Crime and Justice. So it has
4 not been published in a medical journal, it has been
5 published in a journal of crime and justice in February
6 of 2006. And you said a moment ago that this was
7 a precursor to the book?

8 A. Yes. Well, it must be --

9 Q. Or preceded the book.

10 A. -- because large chunks of the text are the same thing.
11 If you compare the book with the article, you can see
12 big paragraphs that are just transferred. But the book
13 is a great expansion. It is ten times longer than the
14 article.

15 Q. So it appears that the article was written first and
16 then this has lead a few years later --

17 A. So I would presume, yes.

18 Q. -- to the publication of the book. The point has been
19 made that this article hasn't been published on
20 a database called PubMed. I think that was
21 an observation by Dr Soilleux. What sort of articles
22 would you expect to find on PubMed?

23 A. That is interesting. PubMed is the biggest collection
24 of all medical-related articles across all the
25 disciplines of medicine, not just pathology obviously

Transcript of the Sheku Bayoh Inquiry

1 but everything else, and it has the titles -- and these
2 are articles rather than books. PubMed doesn't do books
3 so much, it does journal articles. Articles are coming
4 out all the time and they are constantly scanned and
5 they are put in. Not all journals get into PubMed even
6 if they are medical. Some of the exceptions include
7 journals that are essentially unreferee'd, that is to
8 say not peer-reviewed, and promoted by billionaires
9 wanting to make their name. But it does have the core
10 of the big journals that are, in a sense,
11 publicly-owned. They come from national public funds.
12 The big medical journals in America and the British
13 ones, they will all be in there, but there are certain
14 fringe ones that are not there.

15 Q. Is this a database of medical journals?

16 A. It is a database of medical journals and, although the
17 title looks medical, the journal they put it in, the
18 Howard Journal of Crime and Justice, obviously doesn't.
19 Universities that run big databases would have
20 a different set. If you went into a legal -- a law
21 department or criminology department in the university,
22 they would know about this. It is not a journal I have
23 ever looked at before. But, in fact, if you are linked
24 into journals and went through JSTOR, you get this.
25 Because the University of London will have it.

Transcript of the Sheku Bayoh Inquiry

1 Q. But it is not a journal that you would expect
2 necessarily to find within PubMed because it is not
3 a medical journal?

4 A. No. And, to be honest, I don't know how Liz Soilleux
5 came across it either. I never asked her. I could have
6 done.

7 Q. If we could perhaps look very briefly at the abstract.
8 If we just scroll down a little bit to the first page of
9 the article. This is all we will look at. If we pause
10 there we see the authors are Simon Dyson, Director, Unit
11 for the Social Study of Thalassaemia and Sickle cell,
12 School of Allied Health Sciences, at De Montfort
13 University and Professor Gwyneth Boswell, Principal
14 Research Fellow based in London. So we see that neither
15 profess to be medically qualified. We have
16 a sociologist and I think a criminologist and, if we
17 scroll down a little, please. A little further, just to
18 the abstract. This gives an introduction to the
19 article. It says:

20 "An unexplained death in custody represents
21 an important focal point for public scrutiny of the
22 criminal justice system, especially when excess deaths
23 occur in those of minority ethnic descent. Sickle cell
24 anaemia is a serious inherited blood disorder
25 disproportionately affecting minority ethnic groups.

Transcript of the Sheku Bayoh Inquiry

1 Sickle cell trait is the genetic carrier state and is
2 not an illness. The evidence suggests that the
3 treatment of sickle cell in the criminal justice system
4 is twofold. Justice authorities have misused sickle
5 cell trait to explain away ten sudden deaths, often
6 associated with forced restraint of African-Caribbean
7 people in custody. Meanwhile seven death have been
8 attributable to lack of provision of healthcare for
9 those prisoners suffering from the illness sickle cell
10 anaemia."

11 So that abstract simply gives a flavour of what the
12 article is about. Have you read the article, professor?
13 Have you had the opportunity to cast your eye over it?

14 A. I read it quickly last night on my mobile phone. My
15 computer is not working at the moment. But I have read
16 the book.

17 Q. And from your perspective again as a consultant
18 histopathologist did you have any concerns about
19 the medical content insofar as there was medical
20 content in the --

21 A. Yes, I am concerned because I think they get some of the
22 details wrong, but the overall thrust of what they say
23 is true.

24 MS THOMSON: Bear with me a second, please.

25 Thank you, professor. There are no further

Transcript of the Sheku Bayoh Inquiry

1 questions from me. Thank you.

2 LORD BRACADALE: Any Rule 9 applications? Professor Lucas,
3 would you withdraw to the witness room, please, while
4 I hear submissions.

5 (In the absence of the witness)

6 Rule 9 Application by Ms MITCHELL

7 LORD BRACADALE: Can I just check, Ms Mitchell, did you put
8 any written application in?

9 MS MITCHELL: A Rule 9? I don't know, but this arises,
10 my Lord, from something the witness said in evidence,
11 which isn't contained within his statement. So I can
12 get that answer to you shortly.

13 LORD BRACADALE: I don't think you did.

14 MS MITCHELL: Yes. The situation is this witness explained
15 that he had had several conversations on the phone with
16 Mr Brown in relation to the sentence which he put into
17 his report which he said he wouldn't do now, that about
18 the officers involved should not be prosecuted assuming
19 that they were approached and restrained. What I would
20 like to do is with this witness explore the
21 circumstances of the several conversations with
22 Mr Brown, whether or not he has any records of those
23 conversations, when they took place and how it might be
24 that they would have conversations about such matters.

25 LORD BRACADALE: Is that the matter?

Transcript of the Sheku Bayoh Inquiry

1 MS MITCHELL: Yes.

2 LORD BRACADALE: Thank you. If you could go back to your
3 seat, I will hear from Ms McCall.

4 Rule 9 Application by MS MCCALL

5 MS MCCALL: I am sorry, I didn't have a Rule 9 application
6 in but the matter arises out of the witness's oral
7 testimony, and it relates to the basis for his ultimate
8 conclusion, his conclusion having changed. The context
9 is that junior counsel to the Inquiry spent some time
10 exploring what material the witness had and why his
11 opinion changed, and, in my submission, it is important
12 the Inquiry understands, if it can be understood, what
13 the possible foundation is for his ultimate view.

14 So at page 95 of the [draft] transcript, line 18, he
15 was asked why his opinion has changed, and he said there
16 were two reasons. The second of those, which I am not
17 concerned with, was about public information about
18 police restraint and deaths, but the first reason he
19 gave was he was informally given summaries and some
20 evidence that a lot more restraint had occurred. Then
21 at page 108 he was asked what information he had now
22 that he didn't have before that resulted in his change
23 of view, and he replied "I can't remember".

24 The first question I want to ask is: what was the
25 source of the information and what form did the

Transcript of the Sheku Bayoh Inquiry

1 summaries and evidence take, the sources of these
2 summaries and evidence not being recorded in any of the
3 statements or reports he has prepared.

4 The second matter that arises on the same theme is
5 that the witness said at page 107, line 16, [draft] that
6 he had heard snippets and hearsay and had spoken to
7 Nat Cary. So the second thing I wanted to ask was, if
8 it is possible that the summaries and evidence was
9 conveyed in a conversation with another or others, who
10 was the conversation with, when was it and in what
11 context did that conversation occur.

12 Those are the matters.

13 LORD BRACADALE: Thank you. I will rise to consider these
14 various references.

15 (2.17 pm)

16 (A short break)

17 (2.26 pm)

18 LORD BRACADALE: I shall allow Ms Mitchell and Ms McCall to
19 ask the questions which they indicated they wished to.

20 Can we have the witness back, and Ms Mitchell.

21 (In the presence of the witness)

22 Questions from MS MITCHELL

23 LORD BRACADALE: Professor Lucas, Ms Mitchell KC, who acts
24 for the Sheku Bayoh families, has some questions for
25 you.

Transcript of the Sheku Bayoh Inquiry

1 Ms Mitchell.

2 MS MITCHELL: Thank you. I would like to revisit something
3 that you said in your communications with Les Brown, and
4 that was said earlier today at page 59, lines 6 to 10
5 [draft]. I will just read those out. In your note
6 you put:

7 "I will not put this in my report but what I can see
8 of the scenario, the police officers involved should not
9 be prosecuted assuming they approached and restrained
10 Mr Bayoh in the normal approved fashion appropriate for
11 the perceived risk."

12 And we have heard your evidence about that. Now, if
13 we look at that and just highlighting the word
14 "assuming", the assumption in what you said there
15 related to the way they were approached and restrained,
16 and in relation to the fact that they had done
17 everything in the approved manner commensurate with the
18 perceived risk. So there was an assumption being made,
19 and the reader of that particular document would be
20 clear that you would be making an assumption in that
21 regard?

22 A. Yes.

23 Q. In your evidence you were asked about where that might
24 have come from, that piece that was written in the
25 document. Because, I think as you accepted yourself, it

Transcript of the Sheku Bayoh Inquiry

1 is not something that would normally appear in a report
2 that you would do. Your response was this, and this is
3 at 61/22 [draft]:

4 "I had several conversations on the phone, I think
5 with Mr Brown, and I have a vague feeling that this
6 aspect may have come up, which might have been one of
7 the reasons I put something in. But to say it is ..."

8 Then you go on to talk about why you put it in.
9 What I would like to do is ask you about your
10 communications with Mr Brown.

11 A. I really don't think I can remember any more than you
12 have just reiterated, to be honest.

13 Q. Okay. If I can just try and test the edges of that and
14 see. You clearly said in your evidence you had several
15 conversations with Mr Brown. Do you recall for example
16 what way you would have chatted with him? Would it have
17 been via telephone?

18 A. Telephone I suppose, yes.

19 Q. Yes. And your evidence to the Inquiry was several
20 conversations.

21 A. I think so. This is a long time ago.

22 Q. Indeed it is, and I am sure the Inquiry will take that
23 into consideration. But we are keen to try and get as
24 much information with regards to the communication with
25 experts as possible. In having these telephone calls,

Transcript of the Sheku Bayoh Inquiry

- 1 would you keep any records of them?
- 2 A. No.
- 3 Q. Would it be your habit to keep records and you simply
4 didn't in this case, or are telephone calls something
5 that you don't habitually record?
- 6 A. I can't remember -- it depends where I would have been
7 in the house -- I think he called me, rather than
8 I called him. And I'm afraid I can't remember.
- 9 Q. Is it your habit to record conversations that you have
10 from people who are instructing you on reports?
- 11 A. Not necessarily, no.
- 12 Q. These conversations, from the way that you have answered
13 the question, were presumably all before you had written
14 your report?
- 15 A. I suppose so, yes.
- 16 Q. Was there any --
- 17 A. I should think so. You can probably tell from the date
18 on the emails.
- 19 Q. Well, yes. The date that we are looking at and focusing
20 in on here is the date by which you had written the
21 report which has the comment in it that I referred you
22 to. You say that you might have a vague feeling that
23 this aspect may have come up. Can you help us with why
24 you think that?
- 25 A. Otherwise I can't think why I wrote what I did. It is

Transcript of the Sheku Bayoh Inquiry

1 not something I would spontaneously have done. There
2 must have been some prompt somewhere in and around this
3 that made me think -- in an email, not in the report,
4 of course, as you say, that I make some reference to
5 this, what might happen next. Maybe I asked what might
6 happen next to the police, something like that.

7 Q. And you believe that that might have been a prompt for
8 you?

9 A. Yes, and what I said, as you can see, is that if they
10 behaved properly and restrained someone in the
11 appropriate manner which is laid down in various
12 training manuals and so on, then it is a very
13 unfortunate consequence, but if they overstepped that is
14 different.

15 Q. Can I just be clear, was the prompt a prompt by you or
16 by the person you were speaking to, Mr Brown?

17 A. I am sorry, I cannot remember.

18 Q. Can you think of any reason why the Crown might want to
19 speak to an expert such as yourself in your area about
20 this given it is not your area of expertise?

21 A. They wanted to know whether sickle cell trait could
22 have -- could -- have played a role in the death of
23 Mr Sheku Bayoh and my conclusion was yes. Now, exactly
24 how much, yes, we discussed all morning, so we don't
25 need to reiterate that. That is the only reason I was

Transcript of the Sheku Bayoh Inquiry

1 brought in, because -- and one of the other people must
2 have said, "Ask Lucas, he knows about sickle", or
3 something like that.

4 Q. And that opinion was given to the Crown in circumstances
5 where the Crown knew that you were having to make
6 assumptions about how Mr Bayoh was approached and
7 restrained, and the interaction with him in the approved
8 fashion appropriate for the perceived risk?

9 A. I didn't put that in report. So I didn't frame my
10 report with that particular thing in mind. But, yes,
11 that is in a sense correct.

12 Q. You sent that information to the Crown, so the Crown had
13 it?

14 A. Yes, okay.

15 Q. Do you accept that?

16 A. Yes.

17 MS MITCHELL: No further questions.

18 Questions from MS MCCALL

19 LORD BRACADALE: Professor Lucas, Ms McCall KC represents
20 a number of the police officers who attended.

21 Ms McCall.

22 MS MCCALL: Professor Lucas, this morning some time was
23 spent exploring the basis for your opinion, and the
24 information that you had, and you were asked about the
25 change in your opinion and you were asked about why that

Transcript of the Sheku Bayoh Inquiry

1 happened. What you said this morning -- this is at
2 [draft] page 95 -- was:

3 "Answer: There were two reasons: I was informally
4 given summaries and some evidence that a lot more
5 restraint than I had appreciated back in 2018 had
6 occurred in this case."

7 So that was the first reason. The second reason was
8 about public information about police restraint and
9 deaths.

10 A. Yes.

11 Q. I am interested in the first of those. So the summaries
12 and some evidence that you were given informally. The
13 question I have is what was the source of that
14 information and what form did the summaries and evidence
15 you were given take?

16 A. I can recall being shown conclusions, or extracts from
17 some of the other forensic pathologists who were
18 involved in consultation, but I don't think I ever had
19 their full reports, and I had a conversation with
20 Dr Nat Cary as well.

21 Q. Can you remember who it was that showed you the
22 conclusions of other people's reports?

23 A. No. Not at the moment I can't.

24 Q. You also mentioned this morning, and you have just
25 alluded to it there, that you had heard snippets and

Transcript of the Sheku Bayoh Inquiry

- 1 hearsay and that you had spoken to Nat Cary.
- 2 A. Uh-huh.
- 3 Q. Can I ask if it is possible that the information that
- 4 you got, sight of the conclusions and other hearsay or
- 5 snippets, was in conversations? You have mentioned
- 6 Nat Cary, were there conversations with anyone else?
- 7 A. I don't think so.
- 8 Q. When was your conversation with Nat Cary? Can you give
- 9 us an idea?
- 10 A. Some time since 2018, which is quite a long period.
- 11 Q. In what context did that conversation come about?
- 12 A. Oh, we always talk about mutual cases, and I think he
- 13 said something to the version -- he said, "I've seen
- 14 what you said about this and I think you are wrong". So
- 15 I said, "Yes, why?" He said, "From the way you have
- 16 written the report actually I can tell you this is" --
- 17 I am trying to remember what Nat actually said, "There
- 18 was an awful lot more restraint than you have given
- 19 credence to", it was words to that effect. Which that
- 20 made me think, ah ...
- 21 Q. In terms of when that conversation occurred, was that,
- 22 if you can recollect, before or after you were contacted
- 23 by the Inquiry?
- 24 A. The Inquiry not being Mr Les Brown's business but the
- 25 business we are here --

Transcript of the Sheku Bayoh Inquiry

- 1 Q. The team you have been dealing with here.
- 2 A. That would be ... When was I contacted by the Inquiry?
3 Can you tell me? Because you made the contact.
4 (Pause).
- 5 LORD BRACADALE: I think we can't expect Ms Reilly to give
6 evidence, Professor.
- 7 A. But she might have a date, that's all I'm looking for.
- 8 LORD BRACADALE: If you can concentrate on the question
9 Ms McCall was asking you, whether it was before or after
10 that contact came from the Inquiry.
- 11 A. It might well have been before actually.
- 12 MS MCCALL: When you were contacted by the Inquiry and
13 giving your statement to the Inquiry, which was back
14 in December of last year --
- 15 A. Yes, that is following the conversation in October with
16 my learned friend here.
- 17 Q. Right. Did you at any point advise the Inquiry of the
18 conversations you had had with Nat Cary?
- 19 A. I didn't -- I don't think I mentioned him by name but if
20 I did it would have been in the transcripts, because
21 that statement is not a written statement, it's
22 a transcript of a phone conversation, so if it is not
23 there, his name wasn't mentioned.
- 24 Q. I understand that.
- 25 A. Or it was decided not to include it when it was

Transcript of the Sheku Bayoh Inquiry

1 transcribed. I didn't do the transcription.

2 Q. All right. Just for clarity I presume -- I may be wrong
3 but I presume the Inquiry team sent you a copy of the
4 proposed statement and asked you to -- gave you the
5 opportunity to check it over?

6 A. Yes. Oh, yes. Which I did.

7 Q. So as far as the source of this information was
8 concerned, additional information, we have identified
9 Nat Cary as a source. Is there any other individual
10 that you can identify as a source?

11 A. Not that comes to mind. I never -- I don't know, even
12 socially, the pathologists involved in the original
13 autopsy back in 2015. I didn't even recognise their
14 names. And I have never met them.

15 MS MCCALL: Thank you Professor Lucas. Thank you, sir.

16 LORD BRACADALE: Professor Lucas, thank you very much for
17 coming to give evidence to the Inquiry. I am grateful
18 to you for the time you have spent on it. I am about to
19 rise now, and you will be free to go then.

20 (2.39 pm)

21 (The Inquiry adjourned until 10.00 am on Wednesday,

22 24 May 2023)

23

24

25

Transcript of the Sheku Bayoh Inquiry

INDEX

1	
2	
3	PROFESSOR SEBASTIAN BRENDAN LUCAS1
4	(sworn)
5	Questions from MS THOMSON1
6	Rule 9 Application by Ms MITCHELL122
7	Rule 9 Application by MS MCCALL123
8	Questions from MS MITCHELL124
9	Questions from MS MCCALL129
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

Transcript of the Sheku Bayoh Inquiry

1

2