

1 MEGAN CLEMENT, was called as a witness,
2 and after having been first duly sworn, was examined
3 and testified on her oath as follows:

4
5 VOIR DIRE EXAMINATION

6 BY MR. DREWRY:

7 Q. You're Megan Clement; is that correct?

8 A. Yes, sir, that's correct.

9 Q. And, Ms. Clement, your employed?

10 A. I am employed at the Lab Corp, which
11 is a private medical diagnostic testing company in
12 Research Triangle Park, North Carolina.

13 Q. All right. For the purposes of this
14 hearing right now, you're an expert.

15 Did you have occasion to review
16 Nicole Harold's records and notes from examination
17 of the DNA evidence submitted by the state to her?

18 A. Yes.

19 Q. Okay. And with regards to Item 200,
20 the gloves, did you have occasion to review her
21 analysis with regard to that?

22 A. Yes, I have.

23 Q. All right. Based on that review, did
24 you also perform some statistical analysis of the
25 matches or the information found on both the right

1 glove and the left glove?

2 A. I calculated the statistical analysis
3 on the left glove only.

4 Q. Okay. And what did your statistical
5 analysis show?

6 A. I used what's called a probability of
7 inconclusion or exclusion. Using that particular
8 methodology, you don't have to define anything, you
9 don't have to define how many people could
10 potentially be contributors. It's simply a
11 calculation which gives an estimate of how many
12 people -- if you randomly selected an individual,
13 what's the probability that they would be included
14 in that potential mixture.

15 And based on my calculation, within
16 the African-American population, the probability of
17 randomly selecting an individual who would be
18 included in that mixture at the five locations that
19 were used in Ms. Harold's analysis is one in one
20 hundred and ninety-five.

21

22 MR. DREWRY: Just a minute, Judge.

23

24 (Discussion was held off the record.)

25

1 MR. BERGER: Judge, we're putting
2 her --

3 MR. DREWRY: Just to --

4 MR. BERGER: -- on just as a proffer
5 to --

6 MR. DREWRY: Just to proffer what
7 you'd ruled on that we would not be allowed
8 to introduce unless --

9 THE COURT: This is what you want to
10 introduce that you think I've ruled you
11 can't?

12 MR. DREWRY: Yes, sir.

13 MR. BERGER: Yes, sir.

14 THE COURT: All right.

15 MR. PETTY: Judge, just a couple quick
16 questions.

17

18 VOIR DIRE EXAMINATION

19 BY MR. PETTY:

20 Q. I notice you have a folder with you.

21 A. Yes, sir.

22 Q. Is -- that does that contain any
23 written notes you've made?

24 A. It does contain the printouts from the
25 statistical calculation, but the bulk of it is

1 actually the case file from Ms. Harold.

2 Q. So you do have -- you did print out in
3 report form the results of your statistical
4 calculations?

5 A. It's not really a report.

6 Q. Well --

7 A. It's simply --

8 Q. -- it's a printed document?

9 A. -- a computer program that we use to
10 calculate. And, yes, I mean, I printed -- I printed
11 it out so that I would have the numbers.

12 Q. And, of course, that was available to
13 the defense counsel any time they wanted it, wasn't
14 it?

15 A. The printout?

16 Q. Yes.

17 A. I don't know that they know that I
18 actually had a printout. They know I calculated the
19 statistics.

20 Q. I mean, if they called you up and said
21 would you please send me a copy of that, you would
22 have done that, wouldn't you?

23 A. Yes.

24 Q. And you understood that you were hired
25 by the defense or retained by the defense for this

1 purpose?

2 A. I was retained by the defense to
3 review the complete case file, yes.

4

5 MR. PETTY: Thank you.

6

7

FURTHER VOIR DIRE EXAMINATION

8

BY MR. DREWRY:

9 Q. And you would have talked to anybody
10 that called you about this case; right?

11 A. With permission, certainly.

12

13

MR. PETTY: With permission.

14

THE COURT: All right, all right.

15

That's enough.

16

MR. DREWRY: I don't have any other
17 questions, Judge.

18

19

THE COURT: Now, I don't have any
problem with that testimony, Mr. -- if

20

that's it and no exhibits are being

21

offered, it's -- it's -- I think that's

22

clearly the testimony regarding accuracy

23

and reliability of procedures employed and

24

the analysis that pertains to DNA sample.

25

So I'm going to allow that, Mr. Petty.

1 MR. PETTY: Well, Your Honor --

2 Your Honor, the --

3 THE COURT: I made my ruling.

4 MR. PETTY: I've got --

5 THE COURT: Your exception is noted.

6 I'm not going to --

7 MR. PETTY: This is a different issue.

8 THE COURT: What's your next issue?

9 MR. PETTY: This is the issue of the
10 violation of the discovery order. Clearly
11 she had written documents in her possession
12 that are also under the control of the
13 defense attorneys.

14 THE COURT: I don't --

15 MR. PETTY: She testified she never
16 talked to --

17 THE COURT: I don't find that a
18 violation of the discovery order,
19 Mr. Petty.

20 MR. PETTY: It --

21 THE COURT: She has not submitted a
22 written report to Mr. Drewry.

23 Have you?

24 THE WITNESS: No, sir, I have not.

25 THE COURT: We ready to proceed?

1 MR. PETTY: And the Court is reversing
2 its previous ruling and allowing her
3 testimony as to random --

4 THE COURT: I'm going to allow what I
5 just heard. I'm not reversing anything.
6 I've heard the proffer, and I'm allowing
7 the proffer. I don't think that is -- is
8 in contravention of the statute.

9 Bring the jury in.

10 THE COURT: There are no exhibits from
11 this witness?

12 MR. DREWRY: No, sir, Judge.

13

14 (Jury enters the courtroom.)

15

16 DIRECT EXAMINATION

17 BY MR. DREWRY:

18 Q. Ma'am, would you tell the jury your
19 name?

20 A. Yes. My name is Megan Clement.

21 Q. And where are you employed
22 Ms. Clement?

23 A. I'm employed at a company called a
24 Lab Corp in Research Triangle Park, North Carolina.

25 Q. What do you do at Lab Corp?

1 A. I am the technical director in the
2 forensic identity testing laboratory.

3 Q. And does that include DNA analysis?

4 A. Yes. The forensic identity testing
5 department specifically analyzes various samples and
6 consults on DNA analysis.

7 Q. Ms. Clement, where did you go -- did
8 you go to college?

9 A. Yes, sir, I did.

10 Q. Where did you go to college?

11 A. I have a Bachelor of Science in
12 biology from West Field State College in
13 Massachusetts, and a Master of Science in forensic
14 sciences from the University of New Haven in
15 Connecticut.

16 I've also attended graduate level
17 courses at the University of New Mexico in
18 Albuquerque and University of Virginia through
19 courses that were actually taken at the FBI academy
20 in Quantico, Virginia.

21 Q. In addition to that type of education,
22 have you continued with continuing education in your
23 current position and in your previous positions
24 relating to DNA analysis?

25 A. Yes, absolutely. When I first started

1 in the field forensics after receiving my master's
2 degree, it was 1985, and there was no DNA analysis
3 being performed. So certainly over the course of
4 the years, I've had specialized courses dealing with
5 DNA analysis and the various types of methodologies
6 that are employed to perform that analysis.

7 I also attend conferences and
8 symposiums to keep up with the current events in the
9 fields as a part of accreditation requirements.

10 Q. Ms. Clement, where did you work before
11 you came to the Lab Corp?

12 A. Prior to being employed at Lab Corp, I
13 was -- originally started at Albuquerque, New Mexico
14 at the city police department crime laboratory. I
15 was employed there from March of 1985 through March
16 of 1991.

17 After that, I left and went to
18 Fort Worth, Texas, where I was employed at the
19 Tarrant County Medical Examiners' Office in their
20 forensic biology department, and I worked there
21 until November of 1994, when I moved to
22 North Carolina to work for Lab Corp.

23 Q. Ms. Clement, in that span of time,
24 have you been qualified as an expert in the field of
25 DNA analysis as well as forensic identification?

1 A. Yes, sir.

2 Q. And how many times have you qualified
3 as an expert?

4 A. Specifically with DNA analysis, I have
5 been qualified somewhere between probably two
6 hundred and seventy to two hundred and seventy-five
7 times.

8 Q. And how many different state courts,
9 ballpark?

10 A. I believe it was somewhere around
11 twenty-seven or twenty-eight different states.

12 Q. Including the Commonwealth of
13 Virginia?

14 A. Yes, sir.

15

16 MR. DREWRY: Judge, we would offer
17 Ms. Clement as an expert in her field.

18 THE COURT: Mr. Petty?

19 MR. PETTY: I have no objection.

20 THE COURT: She is accepted as expert
21 in her field.

22

23 BY MR. DREWRY: (Continuing)

24 Q. Mrs. Clement, just a little brief
25 knowledge, in order to get a DNA sample, how large

1 is large?

2 A. Well, certainly, I mean, large can be
3 any size. To get a DNA profile from a sample, it
4 doesn't need to be large. Oftentimes, you can't
5 even see a stain and still be able to get a DNA
6 sample from it, because the cells are microscopic.

7 Q. So if someone says that they have a
8 large amount of DNA, it could still be within a
9 sample of a stain that is invisible to the naked
10 eye?

11 A. Yes, absolutely.

12 Q. Okay. Now, with regard to this
13 particular case, did you receive the notes and
14 statistical evaluations done by Nicole Harold of the
15 Commonwealth's Division of Forensic Science?

16 A. Yes.

17 Q. And it was your understanding that you
18 received her complete file; is that correct?

19 A. That's correct.

20 Q. And have you had occasion to review
21 that file as it relates to Items 200, the left and
22 the right glove?

23 A. Yes.

24 Q. Based upon your review of Ms. Harold's
25 work, what conclusion do you come to with regard to

1 Leon Winston, Kevin Brown and David Hardy in the
2 mixture of the DNA found in those gloves?

3 A. Based on the results of the testing of
4 the left and the right glove, there were numerous
5 genetic areas of DNA that were tested where
6 characteristics possessed by Mr. Leon Winston were
7 not found in that mixture; and, therefore, I would
8 exclude Mr. Winston as being a possible contributor.

9 Q. To -- of the DNA to those gloves?

10 A. That's correct.

11 Q. Okay. Now, Ms. Clement, did you also
12 have occasion to check Ms. Harold's statistical
13 analysis?

14 A. Yes, I did.

15 Q. And with regard to inclusion of the
16 African-American population, do you disagree with
17 regard to her statistical analysis on those gloves?

18 A. I did disagree with the statistical
19 analysis on those gloves, yes.

20 Q. And did -- and did you run a new
21 statistical analysis?

22 A. I did perform a statistical analysis
23 called a probability of inclusion.

24 Q. And what did that -- can you explain a
25 little bit about what probability of inclusion is?

1 A. Yes. With the -- there are two types
2 of statistical analysis that can be performed on
3 mixtures.

4 One is the likelihood ratio, which
5 Ms. Harold had run. With that you have to define
6 the number of contributors in a sample and whether
7 there are knowns or unknowns.

8 With a probability of inclusion, you
9 don't have to define how many people are potentially
10 present. What the probability of inclusion will
11 determine is if you were to randomly select an
12 individual, what is the probability they would be
13 included in the mixture that is found.

14 Having run that particular statistical
15 analysis, the probability of randomly selecting an
16 individual out of the African-American population
17 that would be included in the mixture at the five
18 areas that Ms. Harold used for her evaluation was
19 one in one hundred and ninety-five.

20
21 MR. DREWRY: Judge, may I have a
22 minute?

23 THE COURT: Yes.

24

25 (Discussion was held off the record.)

1 MR. DREWRY: We rest -- I have no
2 further questions, Judge.

3 THE COURT: Cross-examine?
4

5 (Discussion was held off the record.)
6

7 MR. PETTY: Thank you, Your Honor.
8

9 CROSS-EXAMINATION

10 BY MR. PETTY:

11 Q. Mr. Clement, how long have you been
12 doing work with DNA?

13 A. I have been doing work with DNA since
14 19 -- really 1989. When I was still employed in
15 Albuquerque, we started setting up our DNA
16 laboratory, and I was instrumental in validation
17 studies there.

18 Q. And that was about the time, I guess,
19 that DNA was first becoming a forensic science being
20 used in a courtroom or in a crime scene
21 identification context; is that correct?

22 A. Yes, sir.

23 Q. And back then, I -- is it fair to say
24 that the DNA was not nearly as exact and precise as
25 it is today, at least in terms of your ability to

1 identify and compare samples?

2 A. Back then we used a different
3 methodology that required much larger quantities of
4 DNA but, the science was still exact --

5 Q. Right.

6 A. -- or fairly --

7 Q. Yeah.

8 A. -- I mean, it was reliable as long as
9 the quality control --

10 Q. I guess --

11 A. -- measures were used.

12 Q. -- that was an inartful question.

13 Your ability to make comparisons today
14 is much greater because you no longer need that
15 quantity of sample?

16 A. That's correct.

17 Q. Put it that way. Thank you.

18 And that is a result of the technique
19 you now use, which, in effect, replicates the sample
20 that you have as it reproduces itself over and over
21 again so your sample becomes much larger?

22 A. Yes.

23 Q. And DNA is certainly a very well
24 accepted method of identifying biological material
25 and linking it to a specific individual, isn't it?

1 A. The biological material -- DNA does
2 not identify biological material.

3 Q. I'm sorry.

4 A. The DNA is found in biological
5 materials that you can then test to potentially link
6 to an individual.

7 Q. I'm sorry. Once again, an inartful
8 question.

9 It is a very well accepted method of
10 linking a specific sample of biological material to
11 a unique individual?

12 A. Yes.

13 Q. And, in reality, we talk about numbers
14 that are so high that really we're talking about
15 almost, you know, an exact match, this person left
16 this particular biological sample?

17 A. In some instances, yes --

18 Q. When we get up in --

19 A. -- but by identical siblings.

20 Q. When we get up into the billions,
21 we're certainly saying this is the one that left
22 that sample?

23 A. Unless there was an identical sibling,
24 yes.

25 Q. Like an identical twin.

1 And, as a matter of fact, besides
2 using DNA in a context study of a criminal
3 prosecution, DNA is also being used in reevaluating
4 some cases in the past, isn't it?

5 A. Yes, absolutely.

6 Q. And it's being relied on not just to
7 put people in jail but sometimes to let them out of
8 jail, isn't it?

9 A. That's correct.

10 Q. It -- It's also used in the -- in a --
11 in the medical context quite a bit, isn't it?

12 A. Absolutely.

13 Q. Doctors make life-or-death decisions
14 based on the -- the reliability of that -- of that
15 information?

16 A. Yes.

17 Q. And it's -- and your lab uses the same
18 basic procedures and underlying theory of DNA that,
19 say, the Division of Forensic Science here in
20 Virginia uses, don't you?

21 A. Yes.

22 Q. As a matter of fact, I assume with
23 your experience in DNA, you're aware that the bureau
24 of forensic science in the Commonwealth of Virginia
25 is one of the most well respected labs in the

1 country, is it not?

2

3 MR. DREWRY: Judge, I object. We're
4 getting awfully far afield.

5 THE COURT: I'm going to allow some
6 latitude under the circumstances.

7 MR. DREWRY: Yes, sir.

8

9 BY MR. PETTY: (Continuing)

10 Q. But my question is that having been in
11 this area as long as you have, you must be aware
12 that the bureau of forensic -- the Division of
13 Forensic Science in the Commonwealth of Virginia is
14 one of the better respected labs in the country in
15 terms of DNA, isn't it?

16 A. It is, yes. It was one of the first
17 laboratories to perform DNA analysis.

18 Q. Now, you've discussed in your direct
19 testimony your analysis of that one exhibit,
20 these -- this pair of gloves; correct?

21 A. Yes.

22 Q. The -- you said that there was areas
23 on that glove that had a mixture -- let me rephrase
24 that.

25 You did not do any testing of the

1 glove itself, did you?

2 A. No. I did not --

3 Q. Okay.

4 A. -- do any.

5 Q. All you were doing was reviewing what
6 Nicole Harold had done?

7 A. That's correct.

8 Q. And that's your -- and your testimony
9 is you're -- you're concerned with what you
10 received. That's your disagreement, with what you
11 received?

12 A. No, not what I received. I disagree
13 with the conclusions that were drawn and --

14 Q. I'm sorry.

15 And I mean all the review you did,
16 this is the one area where you had -- these gloves?

17 A. That's correct.

18 Q. You said you didn't do any written
19 report --

20 A. That's correct.

21 Q. -- is that correct?

22 So you didn't provide that to the
23 defense counsel, any written report?

24 A. No.

25

1 (Discussion was held off the record.)

2

3

MR. PETTY: Thank you very much.

4

That's all the questions I have.

5

THE COURT: All right. Any redirect?

6

MR. DREWRY: No, Your Honor.

7

THE COURT: May this lady be excused?

8

MR. DREWRY: Please, Judge. I believe

9

she has to be in North Carolina.

10

THE COURT: Mr. Petty, any objection?

11

MR. PETTY: No, sir.

12

THE COURT: You're free to go. Thank

13

you.

14

Next witness.

15

THE BAILIFF: Straight back across,

16

ma'am.

17

18

(Witness stood aside.)

19

20

MR. DREWRY: Angela Whitehead.

21

THE COURT: Is Ms. Whitehead here?

22

THE BAILIFF: Yes, sir.

23

Just stand right here. Face the

24

clerk.

25

THE CLERK: Raise your right hand,