

STATE OF WISCONSIN : CIRCUIT COURT : MANITOWOC COUNTY  
BRANCH 1

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STATE OF WISCONSIN,

PLAINTIFF,

JURY TRIAL

TRIAL DAY - 17

vs.

Case No. 05 CF 381

STEVEN A. AVERY,

DEFENDANT.

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**DATE:** MARCH 6, 2007

**BEFORE:** Hon. Patrick L. Willis  
Circuit Court Judge

**APPEARANCES:** KENNETH R. KRATZ  
Special Prosecutor  
On behalf of the State of Wisconsin.

THOMAS J. FALLON  
Special Prosecutor  
On behalf of the State of Wisconsin.

NORMAN A. GAHN  
Special Prosecutor  
On behalf of the State of Wisconsin.

DEAN A. STRANG  
Attorney at Law  
On behalf of the Defendant.

JEROME F. BUTING  
Attorney at Law  
On behalf of the Defendant.

STEVEN A. AVERY  
Defendant  
Appeared in person.

**TRANSCRIPT OF PROCEEDINGS**

Reported by Diane Tesheneck, RPR

Official Court Reporter

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16  
17  
18  
19  
20  
21  
22  
23  
24  
25

I N D E X

WITNESSES PAGE

LYNN ZIGMUNT

Direct Examination by ATTORNEY FALLON	16
Cross-Examination by ATTORNEY BUTING	36
Redirect Examination by ATTORNEY FALLON	64
Recross-Examination by ATTORNEY BUTING	66

DR. MARC LEBEAU

Direct Examination by ATTORNEY GAHN	73
Cross-Examination by ATTORNEY BUTING	137
Redirect Examination by ATTORNEY GAHN	254
Recross-Examination by ATTORNEY BUTING	259

EXHIBITS                      MARKED                      OFFERED                      ADMITTED

433-437		137	137
447-451		35	36
452-457		35	36
464		35	36
465		103	103
466		103	261
468-469	42	72	72
470	63	72	72
471	71	72	72
472-474	71		
475-477		137	137
478	104	137	137
479	104	261	261
480	196	261	261

1 THE COURT: At this time the Court calls  
2 the State of Wisconsin vs. Steven Avery, Case No. 05  
3 CF 381. We're here this morning for a continuation  
4 of the trial in this matter. We are outside of the  
5 presence of the jury at this time. Will the parties  
6 state their appearances for the record.

7 ATTORNEY KRATZ: Good morning, Judge, the  
8 State appears by Special Prosecutors Ken Kratz, Tom  
9 Fallon, and Norm Gahn.

10 ATTORNEY STRANG: And good morning, Steven  
11 Avery in person; Jerome Buting and Dean Strang on  
12 his behalf.

13 THE COURT: All right. Counsel, I  
14 understand that the parties have something to take  
15 up outside the presence of the jury.

16 ATTORNEY STRANG: The defense has a brief  
17 motion, your Honor, in light of the Court's rulings  
18 at the end of the day yesterday. The defense all  
19 along has been consistent in contending that there  
20 were no reliable tests that can be done that would  
21 be useful to the jury on the dried bloodstains in  
22 the Toyota, or the blood vial in the Clerk's Office.  
23 The Court ruled as it did, yesterday, leaving  
24 reliability to the jury and ruling the State's tests  
25 performed during this trial otherwise admissible

1 under **Walstad**.

2 That will not allow -- It's no surprise,  
3 as we said all along, that will not allow any  
4 rebuttal testing or independent testing that  
5 might be offered to rebut the State's testing now  
6 that the State has chosen to pursue that and the  
7 Court has allowed that testing, regardless of  
8 it's reliability. So I have a two prong motion  
9 to preserve Mr. Avery's rights and options.

10 First, I would like the Court to order  
11 that all samples remaining of swabs, or the dried  
12 bloodstains themselves in the Toyota RAV4, be  
13 preserved indefinitely and not destroyed or  
14 damaged, absent further Court order on  
15 application by the State with notice to Mr. Avery  
16 and whoever his counsel may be.

17 And, as well, that the blood vial from  
18 the Clerk's Office be preserved, not damaged or  
19 destroyed in any way, absent express further  
20 Court order on application by the State with  
21 notice to Mr. Avery and counsel, so that we  
22 preserve the ability to test, if and when science  
23 advances to the point of allowing some reliable  
24 testing or just rebuttal testing by the defense.

25 Second, I would like the Court to enter

1 an order now that the defense will have access to  
2 the swabs from the Toyota. And when I say swabs  
3 from the Toyota, I'm referring both to swabs of  
4 the dried bloodstains and the control swabs that  
5 were taken for purposes of the FBI testing to  
6 which Dr. LeBeau has testified, as well as the  
7 dried bloodstains themselves, all the dried  
8 bloodstains in the Toyota attributed to  
9 Mr. Avery, and the blood vial from the Clerk's  
10 Office.

11 I would like the Court to order now  
12 that, without further application, the defense  
13 may conduct independent testing of any or all of  
14 those materials at any time, from today through  
15 trial. If there's a conviction, post-conviction,  
16 in the appellate process or after the appellate  
17 process, I would like the ability to do that  
18 testing when it reasonably becomes available to  
19 Mr. Avery to do it, as a matter of science and  
20 finances, regardless of when that may happen; it  
21 won't happen during the trial, so I'm just  
22 looking ahead.

23 Of course, if he's acquitted, everyone  
24 will lose interest in testing. But if he's  
25 convicted of any of the charges, this evidence

1           that the State contends is so material to guilt  
2           or innocence, will retain its materiality to  
3           guilt or innocence. And I would like the Court  
4           to order that Mr. Avery, or his counsel, have  
5           access to that, without further order of the  
6           Court, for testing, at any time.

7                   THE COURT: Who will be speaking for the  
8           State?

9                   ATTORNEY GAHN: I will, your Honor.

10                  THE COURT: Mr. Gahn.

11                  ATTORNEY GAHN: I have no objection to  
12           anything that Mr. Strang has stated.

13                  THE COURT: All right. Just as a practical  
14           matter, and I'm testing my memory here a bit, I  
15           thought that the samples from the RAV4 were already  
16           split, such that in order to enable both parties to  
17           conduct testing if they wished.

18                  I'm wondering, if the Court is going to  
19           issue an order that samples be preserved, I guess  
20           rather than leave it that broad, I would like to  
21           know where they are now, and perhaps the order  
22           should reflect how they should be preserved or  
23           where they should be preserved.

24                  ATTORNEY GAHN: My understanding is that  
25           the samples from the RAV4 that were submitted to

1        EDTA testing, which would have been, A-8, the swab  
2        from the dashboard; A-10, the swab from the CD case  
3        in Teresa Halbach's car; and, A-12, which was the  
4        bloodstain swab from the metal on the rear passenger  
5        door entry, that Mr. Buting requested that the FBI  
6        preserve one half of each of those samples for  
7        independent testing.

8                That has been done. One half of those  
9        swabs are preserved. Also, Mr. Buting requested  
10       that the controls that were taken also be -- that  
11       the FBI only consume one half of those, and that  
12       is the case. So one half of the controls are  
13       available.

14               As far as the other swabs which were  
15       taken by Sherry Culhane, those are in the control  
16       now of the Calumet County Sheriff's Department.  
17       And those also are available to the defense. And  
18       one half of the A-10, A-12, and A-8 have been  
19       returned by the FBI and they are in the control  
20       of the Calumet County Sheriff's Department.

21               THE COURT: All right. So the  
22       understanding is that these items are going to be  
23       retained at the Calumet County Sheriff's Department,  
24       that's where they are going to be if they are  
25       needed?

1                   ATTORNEY GAHN:   Yes.

2                   ATTORNEY STRANG:   That's very helpful.

3                   What it leaves uncovered, or that we haven't covered  
4                   here, are the dried bloodstains themselves, as there  
5                   were stain areas for which swabs were not sent to  
6                   the FBI, if I understood Mr. LeBeau's testimony  
7                   correctly, and then the blood vial.  And so we just  
8                   need to know what arm of the State, what agency of  
9                   the State is preserving all of those.

10                  THE COURT:   All right.  So, Mr. Gahn, when  
11                  you say swabs, you mean samples taken from these  
12                  areas.

13                  ATTORNEY GAHN:   Correct.

14                  THE COURT:   Was the part of the vehicle  
15                  with the stain on the dash removed from the vehicle,  
16                  or is the dash still intact with the vehicle,  
17                  wherever it is?

18                  ATTORNEY GAHN:   The dash is still intact  
19                  with the vehicle, and the vehicle is here on the  
20                  Calumet County grounds.

21                  THE COURT:   Is that going to be saved or?

22                  ATTORNEY GAHN:   Under --

23                  THE COURT:   Let me ask first, what has the  
24                  defense requested; are the swabs enough?

25                  ATTORNEY STRANG:   No, I think the stains



1           have to be preserved. And I suppose the issue,  
2           then, is other -- other control areas for testing.  
3           So it would be, I guess, useful to know what the  
4           plans are with the Toyota.

5                     THE COURT: Well, let's do this, there's no  
6           dispute between the parties that the swabs should be  
7           saved. As far as the details of the Court's order,  
8           that could be addressed, if there is a conviction in  
9           this case. And perhaps between this time and that  
10          time, should the need arise, the parties could  
11          discuss whether or not they might come to a joint  
12          agreement on how to preserve samples.

13                    I mean, the CD case is small enough,  
14          that can be preserved. The dash and the door  
15          frame, I don't know if the vehicle will be  
16          preserved forever, but perhaps the parts could be  
17          removed if it would be determined to be  
18          necessary. I'm not sure.

19                    ATTORNEY GAHN: I think what the Court is  
20          suggesting is a prudent course. Let's wait until  
21          these proceedings are over, because Wisconsin does  
22          have a mandatory preservation statute that would be  
23          applicable in this case. And it would make more  
24          sense to address this under that statute, after the  
25          proceedings are completed.

1                   THE COURT: I think any order should  
2                   probably include, not only the fact that the samples  
3                   would be preserved, but a bit more specificity as to  
4                   how they would be preserved. And both parties may  
5                   want to be heard on that or you may come to an  
6                   agreement with a joint recommendation to the Court.

7                   ATTORNEY STRANG: I'm only in partial  
8                   agreement with Mr. Gahn. I do want an order now, at  
9                   least all the control swabs and the swabs of  
10                  bloodstains be preserved, and the blood vial. And I  
11                  have not heard yet where the blood vial is, or the  
12                  remaining part of the blood vial is.

13                 ATTORNEY GAHN: The blood vial will be in  
14                 the control of the Calumet County Sheriff's  
15                 Department.

16                 THE COURT: Is that where it is now?

17                 ATTORNEY GAHN: Well, that will also become  
18                 an exhibit very shortly.

19                 THE COURT: Oh.

20                 ATTORNEY GAHN: And let me also say that  
21                 some of the stains that Ms Culhane, from the Crime  
22                 Lab, tested, those stains and swabs are in the court  
23                 record here as exhibits.

24                 THE COURT: What if we handle it this way,  
25                 the defense can prepare an order to order that all

1       these items be preserved now. I understand that to  
2       be not in dispute with the State. And the order can  
3       provide that the manner of preservation will be  
4       determined following the conclusion of the trial.  
5       Does that work for both parties?

6               ATTORNEY STRANG: Sure, I think so. And  
7       we'll have no objection to things like the blood  
8       vial and the swabs being withdrawn from evidence for  
9       purposes of preservation by the State.

10              THE COURT: All right. Is that sufficient  
11       detail for you to prepare a proposed order,  
12       Mr. Strang?

13              ATTORNEY STRANG: Yes.

14              THE COURT: Okay. In terms of -- I try to  
15       keep an inventory of matters that arise during the  
16       trial that have not been resolved. One of those  
17       items is the fair testing motion which the defense  
18       renewed back on February 27th. If there's time,  
19       after the last witness today, I would suggest that  
20       the Court hear argument on that today.

21              Mr. Buting gave some argument at the  
22       time of the motion. Mr. Gahn requested time to  
23       respond. I could hear argument from the State,  
24       any rebuttal from Mr. Buting, and, hopefully,  
25       resolve that matter today.

1 I also took under advisement, also  
2 Mr. Buting's request, to introduce evidence  
3 concerning the voice mails and whether or not  
4 they were accessed on November 2nd, or that the  
5 details of them being accessed. I believe at the  
6 time I reserved ruling. The parties were going  
7 to conduct some discussions with each other to  
8 see if the matter could be resolved or if  
9 additional evidence was necessary. What is the  
10 status of that motion at this time?

11 ATTORNEY KRATZ: Additional evidence, your  
12 Honor, is going to be necessary. Mr. Strang and  
13 Mr. Buting have agreed to telephone testimony from a  
14 Cingular technician. We anticipate that to be  
15 sometime tomorrow, probably tomorrow morning. That  
16 will be supplemented with the State recalling Mike  
17 Halbach. But that combination of witnesses should  
18 resolve that matter. And, again, the defense has  
19 been kind enough to allow telephone rather than live  
20 testimony in that matter.

21 ATTORNEY STRANG: That's right. And I have  
22 also, at least suggested in an email last night to  
23 Mr. Fallon -- and I can't remember if I copied  
24 Mr. Kratz and Mr. Gahn or not -- but suggested that  
25 a stipulation as to one or both of the Cingular

1 witness and Mike Halbach, stipulation as to one or  
2 both of those witnesses is conceivable. And at  
3 least we could try, at least take a stab at that. I  
4 don't know whether either side in the end would  
5 stipulate, but it's worth a discussion.

6 If we go forward with testimony and not  
7 a stipulation from the Cingular person, we're, of  
8 course, working on the assumption that the  
9 Cingular person at the other end of the telephone  
10 would have the same documents in front of him or  
11 her that we have here, so that the person can be  
12 questioned about the documents and I'm quite  
13 certain that the State shares that.

14 ATTORNEY KRATZ: We actually copied three  
15 Court exhibits this morning and faxed them to that  
16 person as well.

17 ATTORNEY STRANG: Great.

18 ATTORNEY KRATZ: So we're working all from  
19 the same pages, Judge.

20 THE COURT: Very well.

21 ATTORNEY STRANG: And the remaining --  
22 While the Court is taking inventory, the remaining  
23 issue of which I'm aware was my renewed motion to  
24 suppress the results of searches of the Avery  
25 trailer and the garage and the area behind the

1 garage. I think we settled on after the November 5  
2 search that began at about 7:30 p.m. and ended about  
3 10:05 p.m.

4 I had renewed that, oh, several days  
5 ago. I think the State, again, reserved response  
6 for wanting to be heard on that. And that's my  
7 recollection of the issue that remains ripe for  
8 decision, or at least further argument and  
9 decision.

10 ATTORNEY FALLON: I was under the  
11 impression that we did argue it and the Court  
12 decided you would rule later, after hearing the  
13 argument that Mr. Strang and I made last week.

14 ATTORNEY STRANG: Well, actually, that's --  
15 that is right, because now that I hear Mr. Fallon, I  
16 recall his eloquence in responding. And the Court  
17 at the time I think, if memory serves, said it would  
18 not hear reply from me now or at that point, but we  
19 would address the issue in some fashion later.

20 THE COURT: All right. I will -- do the  
21 parties remember what day that was? I would like --  
22 I'm going to review the transcript.

23 ATTORNEY STRANG: It may have been  
24 February 22, but I can't promise.

25 ATTORNEY FALLON: I would have to look at a

1 calendar.

2 THE COURT: I do recall that as well.

3 ATTORNEY FALLON: I'm trying to remember  
4 who the witness was, right before a particular  
5 witness. Right now, for the life of me, I can't  
6 think of that.

7 THE COURT: All right. Well, we'll attempt  
8 to recreate that a bit later. Are the parties ready  
9 for the jury to come in?

10 ATTORNEY STRANG: Yes.

11 ATTORNEY KRATZ: Yes.

12 THE COURT: All right. We'll bring in the  
13 jurors at this time.

14 (Jury present.)

15 THE COURT: You may be seated. Welcome  
16 back members of the jury. At this time we are ready  
17 to proceed with the testimony. Who will be  
18 questioning? Mr. Fallon, you may call your first  
19 witness.

20 ATTORNEY FALLON: Thank you. The State  
21 would call Lynn Zigmunt to the stand.

22 THE CLERK: Please raise your right hand.

23 **LYNN ZIGMUNT**, called as a witness  
24 herein, having been first duly sworn, was  
25 examined and testified as follows:

1 THE CLERK: Please be seated. Please state  
2 your name and spell your last name for the record.

3 THE WITNESS: Lynn Zigmunt, Z-i-g-m-u-n-t.

4 **DIRECT EXAMINATION**

5 BY ATTORNEY FALLON:

6 Q. How are you employed?

7 A. I'm the Clerk of Court for Manitowoc County.

8 Q. And how long have you been the Clerk of Court for  
9 Manitowoc County?

10 A. Since January of 2005.

11 Q. Tell us, if you would, what are the duties of the  
12 Clerk of the Circuit Court for Manitowoc County?

13 A. I administer the Clerk of Court Office, oversee  
14 the staff to ensure that there is appropriate  
15 coverage for all court proceedings, record  
16 keeping, oversee all the record keeping in the  
17 office. Create policies for the record keeping  
18 and oversee the budget for our office.

19 Q. What kinds of records does the Clerk of Court's  
20 maintain?

21 A. All the records for the three circuit courts. So  
22 any of the case files that are started, any of  
23 the filings that are made within the files,  
24 correspondence, pleadings, and exhibits that  
25 would be filed with the court as a result of a



1 trial or hearing.

2 Q. And does that include maintaining files and  
3 exhibits from files from cases in the past?

4 A. Yes.

5 Q. In your capacity as Clerk of the Circuit Court  
6 for Manitowoc County, are you familiar with a  
7 case entitled State of Wisconsin vs. Steven A.  
8 Avery, Case No. 85 FE 118?

9 A. Yes.

10 Q. And how are you familiar with that particular  
11 case file?

12 A. I guess from the large interest of the media in  
13 that case after Mr. Avery was exonerated in 2003.  
14 We maintain the file in our office so, when there  
15 are public requests to view the file, we provide  
16 it for inspection. And that file was in our  
17 office for said purposes.

18 Q. All right. Now, in your capacity as the Clerk of  
19 Circuit Court, do you supervise the other clerks  
20 which are employed in that office?

21 A. Yes.

22 Q. And as the Clerk of the Circuit Court are you  
23 generally familiar with their duties and  
24 responsibilities?

25 A. Yes.

1 Q. And in terms of your familiarity with the 1985  
2 case, can you tell us, based upon your  
3 understanding, of where that file had been kept  
4 while in the custody of the Clerk of the Circuit  
5 Court?

6 A. From the time I took office, the file was  
7 maintained in a large like rectangular shaped  
8 cardboard box. And it was in our inner office,  
9 in a central location, meaning on top of a filing  
10 cabinet. And the reason that it was there, I  
11 think it was brought up after Mr. Avery was  
12 exonerated in 2003, after there was a high  
13 interest by the media to look through the file.  
14 It was a very big and cumbersome box to have to  
15 bring up from the basement where it was normally  
16 stored before, in a lower level filing area.

17 Q. I'm going to have some exhibits shown to you, if  
18 I may, beginning with a series of exhibits marked  
19 452. Let opposing counsel examine them for a  
20 moment or two. While counsel is examining the  
21 exhibits, were you asked to bring certified  
22 copies of certain documents from case file 85 FE  
23 118?

24 A. Yes, I was.

25 Q. And were you able to obtain copies of the

1 requested documents?

2 A. Yes.

3 Q. And you have received the documents?

4 A. I have received them? Oh, right now.

5 Q. The exhibits.

6 A. Yes.

7 Q. Okay. If you would, directing your attention to  
8 Exhibit 452, I believe it is, can you tell us  
9 what that is.

10 A. It's a stipulation filed in the case of State vs.  
11 Steven Avery, Case No. 85 FE 118. I think -- I  
12 believe it was a stipulation signed by District  
13 Attorney E. James FitzGerald and Mr. Avery's then  
14 attorney, Robert Henak. I believe they entered  
15 into a stipulation regarding providing a DNA  
16 sample.

17 Q. All right. And with respect to the last page of  
18 that document, is there any marking or seal from  
19 the Clerk of the Circuit Court which is affixed  
20 thereto?

21 A. Yes.

22 Q. Tell us what that is.

23 A. It's a seal stating that this is a full certified  
24 copy of the original, which is on file in the  
25 Office of Clerk of Circuit Court in Manitowoc

1 County, and signed by me and dated 3/5/07.

2 Q. All right. And what is Exhibit 453?

3 A. An order in the case State vs. Steven A. Avery 85  
4 FE 118. And it's in conjunction with the  
5 stipulation wherein the Court ordered that  
6 Mr. Avery submit to a DNA sample. It's dated  
7 November 29th, 1995.

8 Q. Similarly, is there a certification affixed to  
9 that document?

10 A. Yes, there is.

11 Q. And whose certification is it?

12 A. My certification dated 3/5/07.

13 Q. All right. And what is Exhibit 454?

14 A. A letter dated December 6, 1995, from Attorney  
15 Robert R. Henak addressed to the Clerk of Circuit  
16 Court for Manitowoc County, addressed to Ms  
17 Wilda, our criminal clerk, just confirming a  
18 telephone conversation where a request was made  
19 for a conformed copy of Judge Hazlewood's order  
20 to be sent to Elaine Wheeler, Health Service Unit  
21 Manager with Fox Lake Correctional Facility.

22 Q. All right. And Exhibit 455?

23 A. A letter dated December 12th, 1995, from Shirley  
24 Wilda, Deputy Clerk with the Clerk of Court  
25 Office for Manitowoc County addressed to Elaine

1 Wheeler, Health Service Unit Manager with Fox  
2 Lake Correctional Facility, enclosing a certified  
3 copy of the stipulation and order regarding the  
4 DNA sample ordered by Judge Hazlewood.

5 Q. Do the documents to this point indicate the  
6 nature of the sample to be submitted for DNA  
7 analysis?

8 A. What do you mean by the nature of the sample?

9 Q. Does it say -- specify the form of which the DNA  
10 sample would be obtained?

11 A. Enclosed please find a certified copy of the  
12 stipulation and order in the above referenced  
13 referred to case, which orders that a Health  
14 Services Unit at Fox Lake Correctional  
15 Institution obtain a DNA sample from the  
16 defendant as requested by a Laboratory  
17 Corporation of America and forward that sample,  
18 as directed, to Laboratory Corporation of  
19 America.

20 Q. All right. What is Exhibit 456?

21 A. A letter dated December 12th, 1995, from Shirley  
22 Wilda of the Manitowoc County Clerk of Court  
23 Office to Attorney Robert R. Henak, enclosing a  
24 copy of the stipulation and order which was filed  
25 in the above matter. And just confirming that on

1           this date a certified copy of the stipulation and  
2           order was mailed to Elaine Wheeler, Health  
3           Service Unit Manager at Fox Lake Correctional  
4           Facility, per his request.

5   Q.   And what's the next -- is there one more or two?

6   A.   One more.

7   Q.   The last one?

8   A.   Exhibit 457, it is -- it's not dated, it's got a  
9           file date where it was received in our office,  
10          filed June 6, 1996.  It is from Lab Corp  
11          Molecular Biology and Pathology, addressed to  
12          whom it may concern:  Enclosing -- Enclosed you  
13          will find evidence that your agency submitted to  
14          the Forensic Identity Unit at Roche Biomedical  
15          Laboratories for analysis.  And then in  
16          parenthesis, RBL Case No. F95-624.  Please  
17          reference your agency file, Wisconsin vs. Avery.  
18          So it must be -- looks like it's a return of the  
19          evidence which was submitted through a DNA  
20          sample.  I would think returning it to our  
21          office.

22   Q.   All right.  Now, the 454, 455, 456, and 457,  
23          those exhibits, do they all have certifications  
24          affixed to them?

25   A.   Yes, they do.

1 Q. All right. And you are the one who certified --  
2 A. I certified --  
3 Q. -- those documents?  
4 A. -- them and they are all dated 3/5/07.  
5 Q. Okay. And so that they are official copies of  
6 the records which are maintained in Manitowoc  
7 County Circuit Court file 85 FE 118?  
8 A. Yes, they are.  
9 Q. All right. I would like to show you -- I would  
10 like to show you some photographs now, if we may.  
11 If you would examine, your attention is directed  
12 to Exhibit 464?  
13 A. Okay.  
14 Q. All right. And do you recognize that?  
15 A. Yes.  
16 Q. And what is Exhibit 464, please?  
17 A. It's a photograph of the two plastic tote storage  
18 cases where the case of State vs. Steven Avery,  
19 Case No. 85 FE 118 was stored in my office.  
20 Q. All right. If I may publish that now. Thank  
21 you. Is this a copy of Exhibit 464?  
22 A. Yes.  
23 Q. It's being displayed on the screen?  
24 A. Yes.  
25 Q. All right. Tell us, specifically, what is

1 Exhibit 464, what are we looking at here?

2 A. That is the entire case file of the 85 FE 118  
3 case for Steven Avery. The case contains the  
4 case file, the paper part of the case file, as  
5 well as all the exhibits that were presented in  
6 that file.

7 Q. What is the location of that particular exhibit?  
8 In other words --

9 A. Of the storage cases?

10 Q. Yes, where are those -- Where was that picture  
11 taken?

12 A. In my office.

13 Q. All right. And I believe earlier you talked  
14 about the file originally having been contained  
15 in some cardboard boxes?

16 A. Right, it was in one large rectangular shaped  
17 cardboard box, which was very cumbersome to move  
18 and carry. It was quite heavy with all the  
19 exhibits in one box.

20 Q. When did the file find it's way into the plastic  
21 containers which are depicted in Exhibit 464?

22 A. I had originally thought, like the end of 2005,  
23 possibly the beginning of 2006. And I had made a  
24 call to my assistant to confirm the exact --  
25 because I bought those storage totes out of -- I



1           was reimbursed out of our petty cash, so she  
2           could track down the exact date. And she did  
3           call and confirm that it was July of '06 when the  
4           purchase was made.

5   Q.    Okay.

6   A.    So that's when it actually got transferred from  
7           that box to these storage totes.

8   Q.    And where was the cardboard box before that?

9   A.    When it was in our office?

10  Q.    Yes.

11  A.    It was -- when you walk into the secured area,  
12           like, the secured door to our office, it would  
13           be, like, straight ahead against the west wall of  
14           our office, in kind of like a general walkway.  
15           It was -- Our office is kind of partitioned off  
16           into sections and that's kind of like a -- just  
17           an open like walkway.

18                   There's a desk on one side where  
19           sometimes when people, like attorneys, want to  
20           come in and review a file or something, we would  
21           let them do it on the desk that's in that area.  
22           And where this file was was just a little further  
23           past that desk, right in front of like the  
24           windows on the side of the building there.

25  Q.    All right. What is the next exhibit you have in

1 front of you?

2 A. 447.

3 Q. 447?

4 A. And that is a picture of the entrance door to our  
5 inner office.

6 Q. All right. 447 is now displayed on the screen.  
7 Could you describe for us what we are looking at  
8 here with respect to that?

9 A. Well, there's a key code pad that's above the  
10 latch and that's -- there's an access code that  
11 our staff and -- I think it's just court  
12 personnel pretty much that has that access code  
13 and you need that code to gain entrance into the  
14 inside of our office.

15 Q. So if -- there's a counter I see to the immediate  
16 right of the door, under what appears to be a  
17 doorbell, what is that counter for?

18 A. The counter is -- that's part of -- like in our  
19 lobby area, there's a counter that surrounds our  
20 -- the area where we wait on people over the  
21 counter. It's kind of an L-shaped area, that's  
22 the short part of the L-shape.

23 Q. Would it be fair to say that's where the general  
24 public comes to do business in the Clerk of  
25 Court's Office?

1 A. Yes.

2 Q. What are the hours of the Clerk of Court's office  
3 in Manitowoc County?

4 A. On Mondays, 8:30 to 5 and Tuesday through Friday,  
5 8:30 to 4:30.

6 Q. What is the next exhibit that you are holding,  
7 please?

8 A. Exhibit 448.

9 Q. And tell us what is Exhibit 448?

10 A. It is a package, Airborne Express Package. And  
11 it was an exhibit and I believe it's the exhibit  
12 that contained the box, the blood vial container.

13 Q. All right. If we could pull this up. Exhibit  
14 448 is now being displayed on the screen. Is  
15 that the package that the Clerk's Office received  
16 from the testing entity, Lab Corp of America?

17 A. Yes, that's what it appears to be.

18 Q. All right. And what is the next exhibit?

19 A. Exhibit 449. It looks like it's the label that  
20 is on that shipping package, telling what is  
21 enclosed as the exhibit. It says enclosed  
22 evidence return from Forensic Identity Unit at  
23 Roche Biomedical Laboratory that has been  
24 submitted for analysis. Do you want me to read  
25 the whole thing?

1 Q. No, I think we have it here. What is being  
2 depicted on the screen here as exhibit -- is that  
3 449 that you are holding in your hand?

4 A. Yes.

5 Q. That is the labeling of the package in 448?

6 A. Right.

7 Q. All right. And next exhibit, please.

8 A. Exhibit 450. And this appears to be probably the  
9 backside of the square container that held the  
10 blood vial.

11 Q. All right.

12 A. The styrofoam container. It has markings on,  
13 looks like the date it was opened and it was  
14 initialed by the people that were present and  
15 witnessed the opening.

16 Q. Very well. And this box was contained within  
17 Exhibit 448?

18 A. Correct.

19 Q. Exhibit 451?

20 A. 451 is just the other side of the styrofoam  
21 container that held the blood vial. It shows the  
22 taped end, where the evidence tape had been and  
23 where it was opened.

24 Q. All right. So Exhibits, I think we began with  
25 464, and then we went 447 through 451. Are those

1 exhibits, based upon your knowledge and your  
2 responsibilities as a Clerk of the Circuit Court,  
3 officially part of the record in the case of  
4 State of Wisconsin vs. Steven Avery, 85 FE 118?

5 A. Yes.

6 Q. Your best recollection, Ms Zigmunt, when did the  
7 file take up residence, as it were, in your  
8 private office?

9 A. Probably my best guess would be this July of '06  
10 when the storage -- those plastic storage tote  
11 containers were purchased.

12 Q. All right. And what was the general procedure  
13 for allowing access to this particular file by  
14 members of the general public?

15 A. We have a sign in logbook that anybody who wants  
16 to view a public and open record, they sign in  
17 it, that would include the date, the case number,  
18 their signature. And if their signature would be  
19 illegible, we have them print their signature,  
20 print their name.

21 Q. And when did that logbook get created?

22 A. I started that in April of 2005. Before that  
23 there was nothing in effect at all to document  
24 when files were being reviewed.

25 Q. And who would -- First of all, before we get to

1           that point, let me ask, why did you decide to  
2           create such a log?

3       A.    I just thought it was important.  And going to  
4           the Clerk's meetings, being a new Clerk of Court,  
5           I gained a lot of information at all the  
6           different conferences that we have -- that I have  
7           gone to.  And that was one of the things that we  
8           had discussed.

9                       And, well, and one of the other reasons  
10          I thought would be a good idea to have a record  
11          like this was because with identity theft being  
12          such a big issue, I thought if we had some kind  
13          of tracking device, if there was ever a case of  
14          identity theft, we would have something to kind  
15          of go back and at least see who was accessing  
16          certain files.

17       Q.   All right.  And who would be required to sign  
18           such a log?

19       A.    In the beginning, I think I had originally wanted  
20           the policy to include everyone; the public, and  
21           attorneys, and anybody who accessed any file.  
22           But some of the staff thought, you know, maybe  
23           some of the attorneys that come, if they knew who  
24           they are, they thought maybe we didn't have to  
25           get their signature.

1                   Or like for title insurance companies  
2                   too, because when they came in to look at files  
3                   too, there would be such a long list. We let it  
4                   kind of go a little lax on it in the beginning.  
5                   But I'm not sure exactly what the trigger date  
6                   was, but probably a few months into it, maybe by  
7                   October of that year for sure, that we got more  
8                   strict and wanted it to be inclusive of  
9                   everybody, every single person who viewed any  
10                  file.

11                  Because I just thought we need a  
12                  consistent practice. I don't think we can  
13                  require one person and not another. You know, if  
14                  we're doing it for a purpose, it's got to be  
15                  straight forward or it's not serving the purpose.

16   Q.    So your best recollection is is that by October  
17           of 2005 anyone who was looking at a particular  
18           file would be required to sign in?

19   A.    Right.

20   Q.    All right. And that include -- attorneys and  
21           everyone, I take it?

22   A.    Right. It was supposed to include everyone.

23   Q.    Okay. I believe you have now been presented  
24           Exhibit 45 -- or 467, is it?

25   A.    Yes.

1 Q. All right. And can you tell us what Exhibit 467  
2 is?

3 A. It looks like it's a book called -- entitled  
4 Evidence Room Case Entry Log.

5 Q. All right.

6 A. And it says evidence room and then at the top it  
7 says journal so must be some...

8 Q. And is that the case entry log that people would  
9 be required to sign into?

10 A. No.

11 Q. What is that?

12 A. I have never --

13 Q. What is that particular?

14 A. I have never seen this before, this must be...

15 Q. All right. Do we have a picture of -- is there a  
16 picture of your particular log?

17 A. Here, no.

18 Q. Okay. All right. I just wanted to make sure  
19 that we're clear on what that is. Thank you.

20 All right. I would like to direct your attention  
21 to the time frame 2005, particularly that year,  
22 and begin with this question. Do you know an  
23 individual by the name of Andrew Colborn?

24 A. Yes, I do.

25 Q. And who is he?



1 A. He's, I believe, a sergeant with the Manitowoc  
2 County Sheriff's Department.

3 Q. And did you recall, or do you recall, ever seeing  
4 Sergeant Colborn in the Clerk of Court's Office  
5 during the year 2005, your first year in office?

6 A. No, I don't think I have ever really seen him  
7 ever in -- especially in the inner part of our  
8 office, ever.

9 Q. All right. Are you familiar with an individual  
10 by the name of James Lenk?

11 A. Yes, I am.

12 Q. And who is James Lenk, that you know?

13 A. I believe he's a lieutenant with the Manitowoc  
14 County Sheriff's Department.

15 Q. And, again, with respect to the year 2005, your  
16 first year in office, do you recall ever seeing  
17 Lieutenant Lenk in your office that year?

18 A. There was one occasion, in the very beginning of  
19 my term, I had contacted the Sheriff's Department  
20 regarding questions I had on evidence storage.  
21 Because we have a safe that's in my office, where  
22 we do maintain various kinds of evidence.  
23 There's some drugs and I'm not sure, I think  
24 there might be a weapon in there.

25 And going -- after one of the

1 conferences that I had attended, this was an item  
2 of discussion regarding maintaining custody of  
3 those types of evidence in our possession. And  
4 it was suggested that any time those types of  
5 evidence came into play that they should be  
6 stored at, like a Sheriff's Department or other  
7 issuing agency where there's more -- a more  
8 secure facility.

9 And I had called Mr. Lenk, or he was the  
10 person I was put in touch with because he must  
11 take care of evidence and things over at the  
12 Sheriff's Department. And he had come over to  
13 see what was at issue. We discussed it and we  
14 discussed a procedure. And I'm working -- I  
15 mean, I have been working on a policy and  
16 procedure for our evidence retention and we  
17 discussed how we were going to handle  
18 transferring that to the Manitowoc County  
19 Sheriff's Department.

20 Q. And approximately when did that discussion occur?

21 A. I would say it was early spring. It was  
22 probably, you know, very early into that year.  
23 So for sure, maybe March or April. I don't think  
24 I have anything that really actually documents  
25 exactly the date, but it was pretty early in the

1           year.

2       Q.   Other than that one occasion where you had some  
3           discussions about the evidence storage policies,  
4           other than that, had you ever seen him in the  
5           inner office area of the Clerk of Courts?

6       A.   Never.  I don't think -- Besides that one  
7           incident, I don't think he's ever been inside of  
8           our office.

9                   ATTORNEY BUTING:  Objection to that form of  
10           that answer, if she's never seen him inside the  
11           office, she can't say he's never been in the office.

12                   ATTORNEY FALLON:  That's for  
13           cross-examination.  She answered the question as  
14           best she could.

15                   THE COURT:  Well, I'm going to sustain the  
16           objection, because of lack of foundation, for the  
17           opinion about when she was not in the office.

18                   ATTORNEY FALLON:  That's fine.  One minute.  
19           Your Honor, we will pass the witness for  
20           cross-examination; however, we would move into  
21           evidence Exhibits 452 through 457, as well as  
22           Exhibit 464 and 447 through 451.

23                   THE COURT:  All right.  I take it that  
24           excludes the item that the witness could not  
25           identify that was on the screen.

1 ATTORNEY FALLON: That's right.

2 THE COURT: But all other exhibits that she  
3 testified to, you are asking to be admitted?

4 ATTORNEY FALLON: Yes.

5 THE COURT: Mr. Buting.

6 ATTORNEY BUTING: No objection to those,  
7 452 is the only one that's not --

8 ATTORNEY FALLON: 467 is not offered.

9 ATTORNEY BUTING: 467, I'm sorry.

10 THE COURT: All right. Then all the items  
11 this witness testified to, other than 467, I  
12 understand to be offered and if no objection, they  
13 are admitted. Mr. Buting, will you be doing the  
14 cross?

15 ATTORNEY BUTING: Yes, I will, Judge.  
16 Thank you.

17 **CROSS-EXAMINATION**

18 BY ATTORNEY BUTING:

19 Q. Good morning, Ms Zigmunt.

20 A. Good morning.

21 Q. The -- You became the clerk, elected clerk, in  
22 January of '05, is when you took office?

23 A. Yes.

24 Q. So about 10, 11 months before the Teresa Halbach  
25 disappearance?

1 A. Correct.

2 Q. Correct. Okay. And would it be fair to state  
3 that when you first took office, part of your  
4 time was getting used to what the security  
5 procedures were and were not --

6 A. That's correct.

7 Q. -- in existence. And you had some concerns that  
8 maybe some of the security and some of the  
9 procedures were a little bit -- I don't know if  
10 lax is the right word -- but not as secure as you  
11 would ultimately wish they would be -- them to  
12 be, right?

13 A. I think that's a pretty good assumption.

14 Q. Okay. Did you bring the log, evidence log, with  
15 you, or the case review log with you?

16 A. No, I didn't.

17 Q. Have you reviewed it before today?

18 A. In detail you mean, or I mean, I guess I haven't  
19 paged through and looked, for any reason.

20 Q. Okay. Well, for instance, do you know that every  
21 person who has come to that office since October  
22 of 2005 and asked to look at any file, has  
23 absolutely, positively, been required to sign in  
24 on a log?

25 A. Since October of 2005, you are saying?

1 Q. Yes.

2 A. That was the directive I had given and I don't

3 know that it was completely being followed. I

4 think --

5 Q. Okay.

6 A. -- you know, there were people that were making

7 exceptions for people, but we have tightened up

8 on that --

9 Q. Sure.

10 A. -- to make it ...

11 Q. And as of -- Really, you tightened up as of

12 August of '06 is when you really made sure that

13 everybody, all the staff required that people

14 sign in?

15 A. I don't have an exact date, I didn't document it

16 for any reason, so I guess I can't say with

17 certainty.

18 Q. But would it be fair to say that until -- or

19 around that time July or August of '06, until

20 that time you would -- or I should say at that

21 time, you became concerned after talking to some

22 of the staff, that maybe some people weren't

23 requiring everybody to sign in and that this was

24 mandatory at this point forward?

25 A. Yes, I think my concern was, too, that they were

1       allowing like attorneys who -- if they knew them  
2       personally, or like I said, the title insurance  
3       companies, things like that, those are pretty --  
4       the ones that were allowed not to sign, but I  
5       wanted to make it consistent for everyone to have  
6       to sign.

7       Q.    Okay.  Now, you were first interviewed by law  
8       enforcement officers in this case at the end of  
9       December or early January of this -- just a  
10      couple months ago, right?

11     A.    I don't know exactly the dates.

12     Q.    Well, were you -- did you ever speak to Agent  
13      Fassbender or Mr. Wiegert?

14     A.    Right, they were in on several occasions.

15     Q.    And that was all in the last couple of months or  
16      so?

17     A.    Yeah, pretty much.

18     Q.    So no law enforcement officer came to you in  
19      November of 2005 and said, you know, Mr. Avery  
20      has been telling everybody that if that blood --  
21      if his blood is found inside Teresa Halbach's  
22      vehicle, it must have been planted.  Nobody came  
23      to you and talked to you about that particular  
24      statement, did they?

25     A.    No.

1 Q. And between November of 2005 and this past summer  
2 of 2006, none of the law enforcement officers  
3 came to look at Mr. Avery's 1985 file, none of  
4 the investigating law enforcement officers in  
5 this case, right?

6 A. I can't say that for certainty. I mean, other  
7 people wait on people when they are looking --

8 Q. Okay.

9 A. -- at the file, so.

10 Q. So it's possible that somebody from Manitowoc  
11 Sheriff's Department even, may have, after  
12 Mr. Avery made the public statements that  
13 somebody is framing me, somebody has planted my  
14 blood, it's possible that somebody from Manitowoc  
15 may have come and looked at his file, to see if  
16 there was any blood in it?

17 ATTORNEY FALLON: Objection, two grounds,  
18 speculation, and more importantly, it seems to me we  
19 have a limited focus of who may have come and looked  
20 from Manitowoc County?

21 ATTORNEY BUTING: I'm talking about the  
22 investigation, after the disappearance.

23 ATTORNEY FALLON: Then I say relevance.

24 THE COURT: What is the relevance  
25 Mr. Buting?



1                   ATTORNEY BUTING: Let me lay some more  
2 foundation questions.

3                   THE COURT: Go ahead.

4                   ATTORNEY BUTING: Let's do it that way.

5 Q. (By Attorney Buting)~ Let me go back a little bit  
6 first. As of October of 2005, the 1985 case  
7 against Mr. Avery that was in your office was a  
8 closed file, right?

9 A. Yes.

10 Q. In fact, it had been not only a closed file, but  
11 it was a dismissed closed file, right?

12 A. Yes.

13 Q. So there were no ongoing post-conviction  
14 proceedings, right?

15 A. Not that I'm aware of.

16 Q. Or appellate proceedings, right?

17 A. I mean, I guess I can't really testify to that.  
18 I wasn't really that familiar with the file at  
19 that time, so I guess...

20 Q. Okay. You weren't that familiar with the file.  
21 But you do know that the media was asking and  
22 other, you know, freelance writers, or general  
23 public was asking about this file quite a bit?

24 A. Yes.

25 Q. And --

1                   ATTORNEY BUTING: Let me mark a couple of  
2           exhibits here.

3           (Exhibit No. 468 & 469 marked for identification.)

4   Q.    (By Attorney Buting)~ Would it be fair to say  
5           that until it was discovered publicly that there  
6           was a vial of Mr. Avery's blood in that case  
7           file, you weren't aware of it?

8   A.    That's correct.

9   Q.    And you didn't have any particular concern about  
10          the security of that file because you didn't know  
11          there was a blood vial in it, for instance,  
12          right?

13   A.    You mean to take any extra security on it?

14   Q.    Right.

15   A.    Correct.

16   Q.    Okay. And if anything, because there were so  
17          many requests to see this file, this file was  
18          really kept in a less secure spot within the  
19          Clerk's Office than other old case files would  
20          be?

21   A.    In my office, less secure?

22   Q.    No, the Clerk's Office, not your office.

23   A.    Not real -- I don't know. I mean, I don't know  
24          that it's any less secure; it's a pretty secure  
25          -- it's not just open to the general public.

1 Q. Sure.

2 A. There are very few people who have access.

3 Q. But you mentioned how it was cumbersome to have

4 to move this big box up and down the stairs,

5 right?

6 A. Correct.

7 Q. Normally you have -- is there a vault downstairs

8 or just a room?

9 A. Just a room. It's in the basement.

10 Q. Okay. You have a storage room in the basement

11 where your old files are kept?

12 A. Correct.

13 Q. And Mr. Avery's file, being a 1985 file, would be

14 normally down there in that sort of archive area?

15 A. Correct.

16 Q. But for the fact that once he was exonerated,

17 there were so many demands for it, that you left

18 it upstairs in the main area, right?

19 A. Correct. And, actually, I'm not the one that

20 brought it up originally, because I wasn't in

21 office at that time.

22 Q. Okay. So it was actually upstairs before you

23 even came into office?

24 A. Correct, for probably two years.

25 ATTORNEY FALLON: Counsel, can we see those

1 exhibits?

2 ATTORNEY BUTING: Okay. I'm sorry.

3 Q. (By Attorney Buting)~ I'm showing you Exhibit 468  
4 and 469. See if you can identify, first, 468?

5 A. Yes, this was the original cardboard box that the  
6 file was maintained in.

7 Q. The file being the Steven Avery file?

8 A. Correct.

9 Q. 1985 file?

10 A. Right.

11 Q. And the one next to it is?

12 A. The same file.

13 Q. Same file from a little bit farther back, right?

14 A. Right.

15 Q. So, it was one of your deputy clerks -- I'm  
16 sorry. One of these -- Well, let's publish this  
17 so we can talk about it for a minute. This is a  
18 picture that shows the file in the Clerk's  
19 Office, this is No. 469?

20 A. Correct. It was put on the desk that was used  
21 for the viewing area, like when attorneys would  
22 come in and view files.

23 Q. Okay. And you mentioned that it was stored kind  
24 of on a filing cabinet next to a window?

25 A. Right. Which is kind of behind where that

1 divider is.

2 Q. Let me point to it. Right here, it's right back  
3 there, right?

4 A. Yeah.

5 Q. Just over the shoulder of one of your deputies  
6 right?

7 A. Correct.

8 Q. And over here is an old vault, like an actual  
9 safe with a whole door?

10 A. Right.

11 THE COURT: We're going to take a break at  
12 this time. Let's -- We'll resume at 10:15.

13 (Juror needs a break.)

14 (Jury not present.)

15 THE COURT: You may be seated. And we'll  
16 resume at 10:15.

17 (Recess taken.)

18 (Jury present.)

19 THE COURT: And, Mr. Buting, you may resume  
20 your cross-examination.

21 ATTORNEY BUTING: Thank you, Judge.

22 **CROSS-EXAMINATION, CONTD.**

23 Q. (By Attorney Buting)~ Ms Zigmunt, I found a  
24 digital version of what we were looking at  
25 before. I'm going to use that so it will be

1           easier to see, okay?

2    A.    Okay.

3    Q.    Now, I put up Exhibit 469.  And the vault that we

4           were talking about, that's the vault door right

5           there, isn't it?

6    A.    Yes.

7    Q.    I can't read that, it says something safe

8           company.  It's very old, hundred years old

9           probably, put in when the building was first

10          built, right?

11   A.    I would believe so.

12   Q.    But it's not something that you use as a locked

13          location any more?

14   A.    No.

15   Q.    Wasn't used that way long before you came here,

16          right?

17   A.    Correct.

18   Q.    Okay.  And then over on the other side of Janet's

19          left shoulder is the window that you were

20          referring to where that box was normally kept,

21          until somebody would ask to look at it, right?

22   A.    Right.

23   Q.    There's a filing cabinet right there, heater,

24          things of that nature?

25   A.    Right.

1 Q. Now, the box is -- That is the cardboard box the  
2 way it looked until you had it put into plastic  
3 tubs sometime in, you think, July, right?

4 A. July of 2006, right.

5 Q. Okay. Well, after this photograph was taken any  
6 way, right?

7 A. Right.

8 Q. Okay. Is that the table that you are referring  
9 to, there's like a desk or a table that it can be  
10 put on when someone asks to see it, if they can  
11 go through?

12 A. Correct. That is where they originally used to  
13 look at files. I mean, and that one, too, but  
14 just with that file being so cumbersome and so  
15 many exhibits involved, there's really not a  
16 place to spread it out. And it just wasn't a  
17 real good location. There's a lot of traffic  
18 through that area, from the back room, off into  
19 the section where you see the other clerk sitting  
20 there. People traveling back and forth all the  
21 time, it just didn't seem a real secure place  
22 for -- with all the exhibits and all that paper  
23 out.

24 Q. Sure. And the file actually has the exhibits in  
25 it as well as the paper documents, right?

1 A. Correct. All the exhibits are underneath all of  
2 it. I think all the paper was pretty much at the  
3 top.

4 Q. Right. And this one has -- this particular file  
5 has things like clothing, and whatever was  
6 introduced as exhibits just kind of like what we  
7 have in this case today?

8 A. Correct.

9 Q. But I want to draw your attention to -- there's a  
10 partition right here on the far right side of the  
11 picture, right? Some, like, notices posted?

12 A. Right behind the box.

13 Q. Right behind the box, yeah. And so the way it's  
14 set -- it's not a partition that goes all the way  
15 to the ceiling, but it's not the same height as  
16 that -- the partition in the background there?

17 A. Correct.

18 Q. They're all -- There's a number of partitions  
19 like that in the Clerk's Office, within the  
20 interior part of the Clerk's Office?

21 A. Yes.

22 Q. And so when one is standing there like Janet is,  
23 by this box, the people on the other side of the  
24 partition don't see the box?

25 A. Correct.



1 Q. And other than this one woman in the background  
2 here with the long blond hair, there is no other  
3 clerk desk in that back area.

4 A. Correct.

5 Q. So I don't have a schematic of the layout, but  
6 the way this works is, this is sort of a narrow  
7 hallway that leads to this area right from one of  
8 doors that goes to the public area, right?

9 A. Right.

10 Q. And, then, behind the partition, over here is  
11 where the main area where all the clerks work?

12 A. Right. There's like a separate area over there.  
13 There's I think five including the one with the  
14 blonde hair, you know, different work stations  
15 that are set up.

16 Q. Okay. So if the clerk who works in that  
17 particular workstation is not sitting there right  
18 then, when someone is going through this file,  
19 you could go through this file without the rest  
20 of the clerks directly seeing you moving around  
21 things in the box, right?

22 A. Correct.

23 Q. And your deputy clerks, like both of the  
24 individuals in this picture, have a lot of  
25 duties, they move to and fro during the day,

1 right?

2 A. Correct.

3 Q. So the woman in the back, I suppose we could give  
4 her a name, but the woman in the background of  
5 this photo is not sitting in that chair all day  
6 long while she works?

7 A. Correct.

8 Q. Okay. Now, the cardboard box that we were  
9 looking at, Exhibit 468, has the pleadings and  
10 the docket minutes, at least in this instance  
11 they are sitting right on top, right?

12 A. Right.

13 Q. So it wouldn't be very difficult for someone to  
14 know that this particular file or box is the  
15 Steven Avery case, would it?

16 A. I guess if you looked at it, I mean, you would  
17 have to -- in that condition of the box that one  
18 day, I mean, and when people go through it, it  
19 doesn't necessarily end up back in that same  
20 condition. And I think when it was kept over on  
21 the side filing cabinet, I tried to level things  
22 out to, so the cover -- the flaps could come  
23 over, because I didn't think that was a very  
24 secure ...

25 Q. Sure. But there is that -- see that foam board

1 exhibit in the background?

2 A. Right. And that would probably stick out no  
3 matter where --

4 Q. Yes.

5 A. -- because it was too big for the box.

6 Q. So the box wouldn't close?

7 A. Right.

8 Q. Okay. No matter what you did. All right. Now,  
9 would it be fair to say that the presence of  
10 sheriffs deputies inside the interior part of  
11 that Clerk's Office, it's not that unusual an  
12 event, right? In the normal course of your  
13 business?

14 A. To have sheriffs deputies in our office?

15 ATTORNEY FALLON: Objection, relevance as  
16 asked.

17 ATTORNEY BUTING: Well, it's entirely  
18 relevant.

19 THE COURT: What is the objection?

20 ATTORNEY FALLON: Relevance as to the  
21 phrasing of that particular question, vis-a-vis the  
22 pre-trial court rules.

23 THE COURT: Well, it could be laid as a  
24 foundational question, so I will allow it for that  
25 purpose.

1                   ATTORNEY BUTING: Thank you.

2       Q.     (By Attorney Buting)~ Do you understand my  
3             question?

4       A.     If you would like to just repeat it.

5       Q.     Sure. Okay. You know that door that you showed  
6             us, the photograph that has the little, you know,  
7             lock combination?

8       A.     Yes.

9       Q.     When you go through that door, you go into the  
10            inner office of the Clerk's Office, right?

11      A.     Yes.

12      Q.     And in that area, it's not unusual to see  
13            sheriffs deputies during the normal course of  
14            business, is it?

15      A.     The only sheriffs deputies that would be normally  
16            in our office would be probably the sheriffs  
17            bailiffs that are posted in the courthouse for  
18            security reasons. And they --

19      Q.     Right.

20      A.     -- go occasionally.

21      Q.     In fact, they are in there every day picking up  
22            files or returning files from court, right?

23      A.     Yeah, they are in there frequently.

24      Q.     Okay. And, similarly, drug unit -- officers who  
25            are assigned to drug units, at various times, are

1 back in that area because they are dealing with  
2 search warrants and filing and returns and all  
3 that as well, right?

4 A. They could have access -- I mean, they don't have  
5 access -- they don't have the code to get in.  
6 They would have to be buzzed in.

7 Q. I'm sorry. My question is, whether it's unusual  
8 to see them in that area. Wouldn't be an unusual  
9 event to take note of --

10 A. Correct.

11 Q. -- in your mind, right?

12 A. Correct.

13 Q. And that would be true of your deputy clerks as  
14 well, right? Maybe more so than you, even?

15 A. True of the deputy clerks, what do you mean --

16 Q. Seeing a --

17 A. -- that they would see them?

18 Q. Seeing a sheriffs department employee in that  
19 area was not such an unusual event that it would  
20 make someone take note in their mind, hey, what's  
21 going on here, would it?

22 A. Correct.

23 ATTORNEY FALLON: Speculation, foundation  
24 for this witness, ask the answer be stricken.

25 THE COURT: No, I will allow it.

1 Q. (By Attorney Buting)~ And on occasion even,  
2 sheriff's employees may be coming into the  
3 interior of the office, like attorneys, going  
4 through files, while they are investigating an  
5 old file. I'm sorry, looking at an old file in  
6 the course of their investigation in a new case,  
7 right?

8 A. So your question is, an attorney?

9 Q. No. Badly phrased. Let me retry it. Sheriff's  
10 employees, sheriff's deputies, also on occasion  
11 are in that back area, the inner area of your  
12 Clerk's Office, looking at one case file perhaps  
13 as part of their investigation on somebody in  
14 another case, right?

15 A. I guess I can't really say. I don't know that  
16 they would be looking at a file there. I mean,  
17 if anybody requests to look at a file, it's  
18 usually done over the counter. I don't know that  
19 it's ...

20 Q. All right. But you don't --

21 A. I mean, right, I can't say with 100 percent  
22 certainty, what they are doing, because you're  
23 usually dealing with the deputy clerks like of a  
24 specific unit.

25 Q. That's right. And you are usually back in your

1 office and they are dealing with a number of  
2 different clerks, deputy clerks?

3 A. Correct.

4 Q. Now, in addition, the Sheriff's Department has  
5 access to the Clerk's Office with master keys;  
6 isn't that right?

7 A. The security bailiffs would.

8 Q. Okay. Do you know a list, do you know every --  
9 Well, let me go back for a second. Do you know  
10 that the Sheriff's Department is responsible for  
11 the security of the whole courthouse facility?

12 A. Yes.

13 Q. And that if there's a fire or something, after  
14 hours, they have to have access, right?

15 A. Yes.

16 Q. Both to the courthouse and to all of the rooms  
17 within the courthouse, right?

18 A. Yes.

19 Q. And there are a number of master keys that are  
20 issued by somebody from Manitowoc County to give  
21 to people who are allowed to have this kind of  
22 access right?

23 A. I would imagine, I don't know specifically.

24 Q. Sure. You don't know who, but you know generally  
25 that's the case, right?

1 A. Yes.

2 Q. If you have a master key to get through that  
3 doorway, you don't need the separate combination  
4 lock, right?

5 A. I wasn't aware of that before, but during the  
6 investigation when the keys were, you know, when  
7 it was being questioned, it did come to my  
8 knowledge that the key could be used to gain  
9 access to that door.

10 Q. Sure. The whole idea of a master key, it  
11 wouldn't do much good if they turned the lock,  
12 but then you couldn't get past because you have  
13 got to have the combination, right?

14 A. Correct.

15 Q. So, the way it is set up -- at least the way it  
16 was set up in the fall of 2005 was, a master key  
17 would allow entry to the inner part of the  
18 Clerk's Office.

19 A. I guess so.

20 Q. Okay. And that would include after hours, on  
21 weekends, or in the evenings, right?

22 A. Correct.

23 Q. Okay. Now, Mr. -- Mr. Fallon asked you on direct  
24 if you recalled seeing Sergeant Colborn or  
25 Lieutenant Lenk in that inner area of the Clerk's



1           Office; do you recall that question?

2   A.   Yes.

3   Q.   That question was never put to you until some

4       time in late December or early January, 2006 and

5       2007, correct?

6   A.   I believe that's probably correct.

7   Q.   Okay.  So nobody asked you about whether you

8       could recall seeing Lieutenant Lenk or Sergeant

9       Colborn until about 14 or 15 months after the

10      Teresa Halbach disappearance, right?

11  A.   I guess.  Yes.

12  Q.   Okay.  So between November of 2005 and December

13      of 2006, no investigating officers in this case

14      came to you and said, hey, has anybody come to

15      look at the 1985 court file, right?

16  A.   I don't think so, I think it was pretty much just

17      when all the investigation was going on, like you

18      said, late November, December.

19  Q.   Well, let's get clear here, because your answer

20      isn't, I'm sorry.  All the investigation going on

21      you are talking about, is all the investigation

22      that started once the blood vial was discovered

23      there, right?

24  A.   Right, I believe when the special investigator

25      that was assigned.

1 Q. Mr. Fassbender?

2 A. Right.

3 Q. Okay.

4 A. I guess I don't have a specific date, though. I

5 mean, I didn't mark it down for any reason, so.

6 Q. We're talking generally here, okay. I'm going to

7 get to some pictures with you in just a minute.

8 But after we, the defense, filed a motion in

9 December, someone in your office took that white

10 box that we looked at, from the exhibit, out of

11 the court file and locked it in the safe for

12 security, right?

13 A. I believe it was done pursuant to an order of the

14 Court.

15 Q. And that was in December of 2006, right?

16 A. Okay.

17 Q. Okay. Do you agree?

18 A. I agree. I don't have certainty. I mean, I

19 don't -- I mean, to the time frame, it would be

20 the approximate time.

21 Q. Okay.

22 A. But I don't have anything to verify that.

23 Q. Sure. And shortly thereafter, a week or so

24 later, the attorneys all came to your office and

25 we, with the Court's permission, opened that safe

1           and opened the box; do you recall that?

2       A.     Correct.

3       Q.     And we -- Do you recall we videotaped it and took  
4            photographs?

5       A.     Yes.

6       Q.     Sort of at various stages, right?

7       A.     Yes.

8       Q.     Okay. Bear with me just one second, I'm going to  
9            play an excerpt of that videotape. I think  
10          counsel has no objection?

11               ATTORNEY FALLON: Not as long as it's  
12          played as represented --

13               ATTORNEY BUTING: Sure, no audio.

14               (Court reporter couldn't hear.)

15               ATTORNEY FALLON: As represented, no audio.  
16          We'll stipulate to the fact that counsel indicated  
17          that it's a 10 minute version of a 33 minute event.  
18          Is it marked as an exhibit?

19               ATTORNEY BUTING: We'll mark it right after  
20          this. I'm going to have it marked as an exhibit.

21               ATTORNEY FALLON: Very well.

22               ATTORNEY BUTING: If you want to reserve  
23          the next number, this will be a DVD of excerpts of.

24       Q.     Just so we're clear, you recall the date was  
25          December 14 of 2006?

1 A. Yes.

2 Q. Okay. And what I would like you to do is to  
3 watch this and then just tell us afterwards if  
4 this, in fact, comports with your recollection of  
5 what this box and it's contents looked like at  
6 various stages as it's opened. Okay.

7 (DVD playing.)

8 Q. Now, stop for one second. At this point this is  
9 a closer up version of one of the exhibits that  
10 you have in front of you, Exhibit 451. This  
11 shows the end of the box secured as it was when  
12 we looked at it on December 14th, right?

13 A. Correct.

14 Q. And from this you can tell -- I mean you are  
15 familiar with the way the exhibits are typically  
16 sealed with red evidence tape, or white evidence  
17 tape or whatever, right?

18 A. Correct.

19 Q. And it's pretty clear to you even at this stage  
20 that that evidence tape seal had been opened and  
21 the box reclosed just with that little piece of  
22 scotch tape, correct?

23 A. Correct.

24 (DVD playing.)

25 Q. All right. Let's go on. We're looking at the

1           handwriting that was on the outside of the box  
2           that you referred to earlier?

3   A.    Correct.

4   Q.    And this is actually taking place in your  
5           personal office, right?

6   A.    Right.

7   Q.    There's a label with a date of January 4, 1996?

8   A.    Yes.

9   Q.    Is that Mr. Wiegert there, putting on some  
10          gloves?

11   A.    Yes.

12   Q.    And just so the jury is clear, you earlier  
13          referred to this whole container as a styrofoam  
14          box, but there's actually -- it's a cardboard box  
15          that contains a styrofoam box within it, correct?

16   A.    That's correct.

17   Q.    And as we see it right now, that evidence seal on  
18          the card -- on the inner styrofoam box appears to  
19          be secure from this angle, right?

20   A.    Yes.

21   Q.    Now, Mr. Wiegert is removing the styrofoam box  
22          and we're getting a closeup view of the other  
23          side of the styrofoam box and that seal appears  
24          to be open, does it not?

25   A.    I believe so.

1                   ATTORNEY FALLON: Could I make an  
2 observation, it might be best to let the exhibit  
3 speak for itself. I think further viewing will  
4 establish several points.

5                   THE COURT: The Court agrees, I don't  
6 believe the witness has any specialized knowledge in  
7 this regard.

8                   (DVD playing.)

9                   THE COURT: Mr. Buting, if at any point you  
10 want to stop the tape and point out something to the  
11 jury that's on there, you may.

12                  ATTORNEY BUTING: Okay. Thank you, Judge.

13 Q. (By Attorney Buting)~ Now, just so we're clear,  
14 you were actually in your office as we were doing  
15 this as well, right?

16 A. Yes.

17 Q. So you saw us videotaping this?

18 A. Yes.

19 Q. Okay. Keep going.

20                  (DVD playing.)

21 Q. The parties are sort of rocking this gently, this  
22 tube of blood back and forth, gently; were you  
23 able to determine if it looked liquid inside  
24 there, from where you were at.

25 A. I couldn't see it from where I was.

1 (DVD playing).

2 Q. (By Attorney Buting)~ Just so the record is  
3 clear, there is no kind of evidence seal or tape  
4 around the top, the lavender top to that tube, is  
5 there?

6 A. It didn't look like there was.

7 Q. Okay. All right. So does that video excerpt of  
8 the events on December 14, 2006, purport with  
9 your recollection of what happened when we opened  
10 that box?

11 A. Yes.

12 ATTORNEY BUTING: Thank you. I have no  
13 further questions. We'll mark this as an exhibit  
14 now.

15 THE COURT: And the number of that exhibit  
16 is?

17 (Exhibit 470 marked for identification.)

18 THE CLERK: 470.

19 THE COURT: 470.

20 ATTORNEY BUTING: And that's a DVD of what  
21 we just viewed in court.

22 THE COURT: Correct. Mr. Fallon, any  
23 redirect?

24 ATTORNEY FALLON: Just one moment, I might  
25 have a question or two.

**REDIRECT EXAMINATION**

BY ATTORNEY FALLON:

Q. To your knowledge, Ms Zigmunt, the only sheriff's deputies that have a key that permits access to the inner office of the Clerk of Courts are the two bailiffs?

ATTORNEY BUTING: Objection, calls for speculation, unless she knows.

THE COURT: The question should be preceded with a foundational question to determine if she knows.

Q. (By Attorney Fallon)~ Let's go about it this way. You -- In your cross-examination, you were asked, it was not usual to have the sheriff deputies in the inner office area and you responded, yes, just the bailiffs, explain why you answered it in that regard.

A. Because the bailiffs are pretty commonly seen in the office. They come and go with different reports or different things during the day. Sometimes they are in the office before I get there in the morning. I'm usually one of the first people in the office and one of them might be in the office delivering or picking up. They have a pickup place for papers everyday. So it's



1 not uncommon to see them at any time, really.

2 Q. All right. And do they have a key that permits  
3 access to the inner office?

4 A. They must have a key. I mean, I guess I really  
5 never looked to see if they were using the code.  
6 And they would have to have a key, because if  
7 they get there before I do, you would need a key  
8 to get in the outside door of the office.

9 Q. Are they permitted the cipher lock code as well?

10 A. I know when we changed the codes, because I  
11 changed it like January of '06. We changed to a  
12 new code from the previous Clerk of Court, just  
13 for some security measures. And I did provide  
14 them with that access code at that time.

15 Q. Now, to your knowledge, did you provide that  
16 access code to any other member of the sheriff's  
17 department, other than the bailiffs?

18 A. No.

19 Q. And I believe you also answered a question on  
20 cross-examination, that perhaps on occasion other  
21 deputies are in the inner office area, from time  
22 to time; did I understand that correctly?

23 A. There could be someone that had business with one  
24 of the clerks. They would have to be buzzed in.  
25 They wouldn't have automatic access, someone

1           would have to allow them. Like that doorbell  
2           little device thing, we have some of those under  
3           the desks at the -- the counter clerks have those  
4           and they press that to open the door for ...

5   Q.   So do I understand it correctly, then, that they  
6           would be buzzed in and they would be attended to  
7           by one of your clerks?

8   A.   Right. If they had -- I mean, a lot of times,  
9           too, if they come in, I mean, we take care of  
10          them over the counter. I mean, I don't really  
11          know what the different business is that they  
12          would have to come in for, but occasionally they  
13          would ask -- like if they asked to see Janet or  
14          something and then if someone determined that she  
15          is there, they would buzz her -- buzz them in and  
16          they could just go to her desk.

17                   ATTORNEY FALLON: That's all we have.  
18           Thank you.

19                   THE COURT: Anything else Mr. Buting?

20                   ATTORNEY BUTING: Just very quick.

21                   **RECROSS-EXAMINATION**

22   BY ATTORNEY BUTING:

23   Q.   You mentioned how if they would ask to see Janet  
24           or some other deputy, they would be buzzed in and  
25           then the sheriff's department employee would then

1           be in the inner area, right?

2   A.   Right.  I mean, I don't know specifically that

3           any sheriff's department...

4   Q.   I understand that.  I'm just saying, just general

5           common practice, would be if one of the sheriff's

6           officers, employees, lieutenants, whoever, asked

7           to see somebody, they would be buzzed in and they

8           could go in back and talk to the clerk or deputy

9           clerk, or whomever, correct?

10  A.   Correct.

11  Q.   And, then, once back in that area, they would

12           have -- would have had in, let's say October,

13           November, 2005, they would have been in the area

14           where Mr. Avery's file could be accessed, right?

15  A.   Well, going to Janet's area would not.  I mean,

16           they would be turning the corner right away,

17           where his file was kept was straight ahead and a

18           little out of the way.  So I don't think that

19           they would have --

20  Q.   Well, there's no --

21  A.   -- come in contact with that file at all.

22  Q.   There was no other door in between where they

23           would be and where Mr. Avery's file was kept,

24           right?

25  A.   There was quite a distance from it.  I don't ...

1 Q. Well, we saw on the photograph, approximately?

2 A. Well, that was when it was on the desk, though,  
3 in the desk for the viewing area. That isn't  
4 where it was normally kept. It was kept on a  
5 filing cabinet, although, further away yet. So  
6 it was really --

7 Q. 10 feet from the door maybe, 15 feet?

8 A. Maybe 20 feet from the door.

9 Q. Okay. All right.

10 A. 25, I don't know.

11 Q. Sure. The point being, though, once you get past  
12 that door, where you are buzzed in, it's all open  
13 with partitions in the inner area of the Clerk's  
14 Office?

15 A. Right.

16 Q. And I'm not trying to put blame on you, ma'am.  
17 But I understand that in November of 2005, it was  
18 not on your radar, you were not worried about an  
19 officer from the sheriff's department coming in  
20 and removing a court exhibit to plant evidence  
21 and frame somebody, was it?

22 ATTORNEY FALLON: Objection, beyond the  
23 scope.

24 THE COURT: Sustained.

25 ATTORNEY BUTING: That's all.

1 THE COURT: All right. The witness is  
2 excused. And, members of the jury, we'll take a  
3 stretch break before the State calls its next  
4 witness. All right. We'll take a short break, five  
5 minutes, and then come back.

6 (Jury not present.)

7 THE COURT: You may be seated.

8 ATTORNEY KRATZ: Thank you, Judge. As we  
9 alerted the Court before the start of today's  
10 proceeding, the State does anticipate calling  
11 Dr. Marc LeBeau to testify. Mr. Buting was kind  
12 enough on cross-examination to have showed the jury  
13 the blood vial, purple-topped blood vial tube, which  
14 the State believes entitles us to call Dr. LeBeau at  
15 this time.

16 We had assured the defense that  
17 Investigator Wiegert was going to testify, and he  
18 is, but that's just as to the packaging of the  
19 purple-topped blood vial and sending it to  
20 Dr. LeBeau. We would prefer to call Dr. LeBeau  
21 so that his direct examination and his cross  
22 examination can be completed before he goes back  
23 to Virginia today.

24 If the defense still wishes us to call  
25 Investigator Wiegert at this time, we had also

1       assured the defense and the Court that we would  
2       recall him neither for cross-examination or  
3       continued cross on matters outside of the limited  
4       purpose of packaging the blood.

5               So we're just looking for direction from  
6       the Court. We would prefer, since the vial has  
7       already been showed to the jury, to start with  
8       the Dr. LeBeau and complete his testimony and  
9       then call Investigator Wiegert. And if there's  
10      other foundational witnesses, that may be  
11      necessary. If there's an issue, or if the Court  
12      believes that somehow to be an inappropriate use  
13      of resources, or the presentation of evidence,  
14      then we can certainly do it the other way as  
15      well.

16             THE COURT: Mr. Buting.

17             ATTORNEY BUTING: Could I have just one  
18      moment with counsel, please.

19             THE COURT: Go ahead.

20             ATTORNEY BUTING: Judge, I'm going to -- We  
21      can defer Investigator Wiegert's testimony until  
22      after Mr. LeBeau, but I am marking four other  
23      exhibits which are essentially hard copies of what  
24      we just saw. And by stipulation -- I was going to  
25      use Investigator Wiegert to introduce those, but we

1           can just, by stipulation, introduce them and proceed  
2           with Mr. LeBeau, if that's what counsel prefers.

3                   ATTORNEY KRATZ:   That's fine.   471, start  
4           with, Janet?

5                   THE CLERK:   Yes.

6                   ATTORNEY BUTING:   And then I will be moving  
7           all the exhibits that I introduced which is 466 --  
8           468.   Well, let's let her mark them first.

9           (Exhibit Nos. 471-474 marked for identification.)

10                   ATTORNEY BUTING:   Okay.   So it will be 468  
11           through 474.   Is that all right, counsel?

12                   ATTORNEY KRATZ:   Just so I can see them.

13                   ATTORNEY BUTING:   Okay.   So then I would  
14           move 468 through 474.

15                   ATTORNEY KRATZ:   Is that a different photo  
16           than 451?   Janet, can you look at 451 and see if 474  
17           is different.

18                   THE COURT:   Let's go off the record for a  
19           couple minutes here.   Counsel, are you ready to go  
20           back?

21                   ATTORNEY BUTING:   I am, Mr. Gahn is still  
22           checking for something.

23                   THE COURT:   All right.   I believe that --  
24           We'll go back on the record at this time.  
25           Additional exhibits have been marked, those are

1 numbers what?

2 THE CLERK: 471 through 474.

3 THE COURT: 471 through 474. Are the  
4 parties asking that they be admitted at this time?

5 ATTORNEY BUTING: 468 through 471,  
6 actually, is what I'm asking to be moved.

7 THE COURT: 468 through 471.

8 ATTORNEY BUTING: Yes.

9 THE COURT: Any objection from State?

10 ATTORNEY KRATZ: They are eventually going  
11 to get in, Judge, we have no objection at this time.

12 THE COURT: All right. Those are admitted.  
13 Anything else before we bring the jurors back in?

14 ATTORNEY BUTING: No.

15 THE COURT: If not, we'll bring the jury in  
16 at this time.

17 (Jury present.)

18 THE COURT: You may be seated. At this  
19 time the State may call it's next witness.

20 ATTORNEY GAHN: Yes, your Honor, the State  
21 would call Dr. Marc LeBeau to the stand.

22 THE COURT: Very well.

23 **DR. MARC LEBEAU**, called as a witness  
24 herein, having been first duly sworn, was  
25 examined and testified as follows:



1 THE CLERK: Please be seated. Please state  
2 your name and spell your last name for the record.

3 THE WITNESS: My name is Marc, M-a-r-c  
4 LeBeau, L-e-B-e-a-u.

5 **DIRECT EXAMINATION**

6 BY ATTORNEY GAHN:

7 Q. And what is your occupation?

8 A. I'm the unit chief of the Chemistry Unit at the  
9 FBI Laboratory.

10 Q. And where is the FBI Laboratory located?

11 A. In Quantico, Virginia.

12 Q. And how long have you been so employed?

13 A. I have worked as the unit chief since September  
14 of 2000. And prior to that I was within the same  
15 unit at the FBI Laboratory, the Chemistry Unit,  
16 since 1994.

17 Q. And what are your duties at the FBI Laboratory in  
18 the Chemistry Division?

19 A. Well, as the unit chief, I oversee the day-to-day  
20 operation of that unit. That entails making  
21 decisions about the types of cases that we accept  
22 into our unit for analysis. And then assign  
23 those cases to the most experienced or the  
24 appropriate personnel that work under me.

25 When we receive evidence into our unit,

1 we're typically asked to analyze for the presence  
2 of a chemical, whether or not it is in or on a  
3 piece of evidence. Then we compile our results  
4 and prepare a report. And before that report is  
5 released to the contributing agency, another duty  
6 of mine is to review the result and the report to  
7 make sure that it meets all of the quality  
8 requirements that are set forth by our Quality  
9 Assurance Department in our laboratory.

10 Q. And what is your educational background, Doctor?

11 A. Well, I have a bachelor's degree in chemistry, as  
12 well as criminal justice from Central Missouri  
13 State University in Warrensburg, Missouri. I  
14 also have a master's degree in forensic science  
15 from the University of New Haven and that's in  
16 West Haven, Connecticut. And a doctorate in  
17 toxicology from St. Louis University, in St. --  
18 I'm sorry, from the University of Maryland in  
19 Baltimore. I took an additional four years of  
20 graduate level course work at St. Louis  
21 University in the early '90s.

22 Q. Now, when you say you have a doctorate, is that  
23 what is commonly referred to as having a Ph.D.?

24 A. Yes, it is.

25 Q. And thus the title, Dr. Marc LeBeau.

1 A. That's correct.

2 Q. Would you describe any experience or any special  
3 training you had in your field?

4 A. Yes, well, when I started with the FBI  
5 Laboratory, I was thoroughly trained in the types  
6 of examinations that we typically do in our  
7 laboratory. These are examinations specifically  
8 in the area of forensic chemistry as well as  
9 forensic toxicology.

10 Before I started with the FBI, I worked  
11 as the laboratory manager of the St. Louis County  
12 Medical Examiner's Office in St. Louis. And I  
13 did that for about four years. I have also  
14 worked as a chemistry instructor at the  
15 University of New Haven, as well as a laboratory  
16 intern at a private toxicology laboratory in  
17 Willow Grove, Pennsylvania, called National  
18 Medical Services. And I have also worked as a  
19 laboratory technician for Monsanto Chemical  
20 Company.

21 Q. Do you belong to any professional or scientific  
22 organizations pertaining to your field?

23 A. Yes, I do.

24 Q. And would you describe for the jurors what those  
25 are?

1     A.    Yes, I'm an active member of the Society of  
2           Forensic Toxicologists and I serve on their Board  
3           of Directors, as well as I chair one of their  
4           committees. I'm also involved with and a member  
5           of the International Association of Forensic  
6           Toxicologists. And, again, I serve on two  
7           committees within that organization. And I'm an  
8           active member of the American Academy of Forensic  
9           Sciences. And I hold a membership level of  
10          fellow within that organization, which is one of  
11          highest membership levels you can have.

12    Q.    And do you attend conferences within your field  
13          for forensic purposes?

14    A.    Yes, I do.

15    Q.    And how often and why?

16    A.    Well, I attend the conferences of those three  
17          organizations pretty much annually, specifically  
18          to stay on top of current trends within our field  
19          of forensic chemistry and forensic toxicology.  
20          But also I'm often invited to put on workshops  
21          and be a guest speaker at a number of  
22          conferences.

23    Q.    Is your lab at the FBI an accredited lab?

24    A.    Yes, it is.

25    Q.    And what does that mean to be accredited?

1 A. An accredited laboratory simply means that a body  
2 of experts that will, from time to time, come  
3 into the laboratory and check your practices to  
4 ensure that you are following a set of standards  
5 that this body has set down to those that they  
6 accredit. So it's simply a quality measure so  
7 that we have consistency from one laboratory to  
8 the next.

9           When you are dealing with an accredited  
10 laboratory under the body that accredits the FBI  
11 Laboratory, which is known as the American  
12 Society of Crime Laboratory Directors, Laboratory  
13 Accreditation Board, or ASCLD lab, all  
14 laboratories that are accredited by that agency,  
15 we follow their same standards.

16 Q. Do you undergo proficiency testing?

17 A. Yes, we're required to as part of our  
18 accreditation.

19 Q. And what is that proficiency testing?

20 A. Proficiency testing is simply, we're provided  
21 test cases, from time to time, where we're  
22 asked -- where we don't know the results, some  
23 outside entity knows the results, and we analyze  
24 these test cases as if they were real cases and  
25 then provide those results to the referee, if you

1 will, of those results. And they grade our  
2 results and then report back, not to just to us,  
3 but they report our result back to our  
4 accrediting body as well.

5 Q. And how have you done on your proficiency tests?

6 A. I have passed all of the proficiencies I have  
7 taken in the 16 years I've been employed in this  
8 business.

9 Q. Have you ever testified as an expert before in  
10 court?

11 A. Yes, I have.

12 Q. How many times?

13 A. Well, approximately 40 to 50 times.

14 Q. Have you ever been rejected as an expert in your  
15 field?

16 A. No. No, I have not.

17 Q. Have you authored or co-authored any peer  
18 reviewed journal articles?

19 A. Yes, I have.

20 Q. And could you describe some of those to the  
21 jurors?

22 A. Well, I have authored or co-authored about 15 to  
23 20 peer reviewed journal articles, professional  
24 articles, scientific articles, that are published  
25 in professional publications.

1 Q. And I have had placed in front of you an exhibit  
2 that was marked as Exhibit 433; could you tell  
3 the jurors what that is.

4 A. Yes, this is a copy of my curriculum vitae,  
5 essentially my resume that describes my  
6 experience.

7 Q. Now, did you analyze samples that were sent to  
8 you in this case?

9 A. Yes, I did.

10 Q. Describe how you, in your lab, became involved in  
11 this case?

12 A. Well, following the normal course of business at  
13 our laboratory, as the unit chief, as I  
14 indicated, I am the gatekeeper, if you will, of  
15 cases that we accept to work. And I was  
16 contacted by the local District Attorney's Office  
17 to make a determination whether or not we could  
18 provide assistance in analysis of specific  
19 evidence in this particular case.

20 Q. And did you know that this was a case that  
21 involved an allegation of police planting  
22 evidence?

23 A. Yes, I did.

24 Q. Why would a case such as that, an allegation of  
25 law enforcement officers planting evidence, be of

1 a concern to the FBI?

2 A. Well, one of the areas that the FBI is  
3 responsible for investigating in this country is  
4 crimes of public corruption. This is where a  
5 politician or another public official, such as a  
6 police officer, is accused or believed to be  
7 involved in doing something illegal.

8 So that is an area that we are strongly  
9 involved in in our investigations at our agency.  
10 And, of course, that's a very serious allegation.  
11 If an individual is truly in that political  
12 position or in a law enforcement position and  
13 they are doing something illegal that erodes the  
14 public's trust in that agency or that individual,  
15 and we would want that, certainly, that  
16 individual, out of that office or off the street.

17 But, additionally, if they are being  
18 wrongly accused, we want to be involved in that  
19 investigation to help set the record straight and  
20 hopefully clear their name, if they are wrongly  
21 accused so, again, the trust can be restored.

22 Q. And did the testing that you performed in this  
23 case determine that issue?

24 A. I believe it did, yes.

25 Q. Before we get to your conclusions, I would ask



1       you to describe for the jurors basically what  
2       type of instrumentation did you use to perform  
3       the testing in this case?

4       A.   Well, we used an instrument that's called a  
5       liquid chromatograph mass spectrometer.  And we  
6       abbreviate that LC/MS.  And then we also took  
7       that one step farther and did additional  
8       experiments with the mass spectrometer that the  
9       entire technique is what is known as LC/MS/MS.  
10      It's essentially three different instruments, if  
11      you will, that are all linked together and hand  
12      shaking with each other so that they work in  
13      tandem.

14      Q.   Would you describe for the jurors exactly what  
15      analytical chemistry is?

16      A.   Well, analytical chemistry is a subset of the  
17      whole field of chemistry that, in a nutshell,  
18      just is trying to determine the chemical  
19      properties or identity of matter.  Little simpler  
20      put, analytical chemistry involves trying to  
21      either identify the present -- or the chemical  
22      characteristics or the identity of an unknown  
23      substance, trying to figure out what it is.  Or  
24      if there's an idea that there's a specific  
25      chemical in some material, then we will target

1           that analysis in trying to figure out if a  
2           specific chemical is present in that substance.

3   Q.   And this instrumentation that you just referred  
4       to, the LC/MS/MS, is that what is used in  
5       analytical chemistry to determine these chemical  
6       compounds?

7   A.   Yeah, it's one of the tools that we use in order  
8       to do just that, identify what a substance is, or  
9       to target a particular analysis to see if  
10      specific chemicals are in a material.

11   Q.   Could you very briefly, and as simply as  
12       possible, tell the jurors how this instrument  
13       works?

14   A.   I will try.  It's -- Again, it's three  
15       instruments that we're really talking about.  The  
16       most simple form is to talk about it as two, the  
17       LC portion and the mass spec portion.  The liquid  
18       chromatograph, or LC, it's job is simply to take  
19       a mixture of chemicals and separate them so that  
20       they are delivered to the next instrument, the  
21       mass spectrometer, one at a time.

22               And a good analogy to think of is, if we  
23       had a bag full of marbles and we knew that some  
24       marbles were real small, other marbles were of a  
25       medium size, and the remaining marbles were very

1 large. And we can even complicate it a little  
2 more by saying that the large marbles are of two  
3 colors, some are blue and some are green.

4 If we were to put these marbles,  
5 thinking that they are chemicals, into our liquid  
6 chromatograph, the LC portion, it would take that  
7 mixture and separate them so that when they came  
8 out of the instrument, the small marbles would  
9 come out first, say one minute after they were  
10 introduced; the medium marbles would come out  
11 maybe at two minutes after they were introduced;  
12 the large marbles would come out -- or I should  
13 say the large blue marbles, perhaps, would come  
14 out at three minutes; and the green marbles would  
15 come out perhaps 15 seconds later.

16 So it allows that mixture to be  
17 separated into the individual components so that  
18 the next instrument only sees essentially one  
19 chemical at a time. And that's important because  
20 the next instrument is that mass spectrometer.  
21 And what that does is, it gives us the  
22 fingerprint of that chemical, breaks it apart  
23 into small pieces using a very large amount of  
24 energy, breaks it apart, and presents us a  
25 fingerprint that we can then compare.

1                   And, essentially, all chemicals give you  
2                   a different fingerprint. That's the value of a  
3                   mass spectrometer, is it gives us information  
4                   about the weight of the chemical as well as its  
5                   fragmentation pattern that, then, we will  
6                   interpret using a set of guidelines in order to  
7                   determine if it matches the specific chemical  
8                   we're looking for, or if we're trying to figure  
9                   out what unknown chemical it is, we can match it  
10                  against the data base to see what it matches.

11       Q.       And how long has this technology been around?

12       A.       Well, LC/MS has been around for decades in  
13                  analytical chemistry laboratories.

14       Q.       So is this a standard instrument used in  
15                  analytical chemistry?

16       A.       It is. We used it in our laboratory since the  
17                  early 90s.

18       Q.       Is this technology used in other fields besides  
19                  analytical chemistry?

20       A.       Yes, it is.

21       Q.       Could you describe a few of those for the jurors.

22       A.       Well, LC/MS is very widely used in the  
23                  pharmaceutical industry where they are developing  
24                  new drugs, they are looking for new metabolites  
25                  of drugs and trying to identify what those are.

1           It's also used in looking at explosives,  
2 explosive residues. If a bomb is discharged, it  
3 can look for the residues of the explosive  
4 portion that caused that.

5           It's used to test athletes for steroids.  
6 It's used to test workers for whether or not they  
7 are smoking marijuana on the weekends.

8           It's also used in the food industry to  
9 look at various components in foods. It is used  
10 in agricultural chemistry as well.

11 Q. I would like to switch topics a little bit now  
12 and ask you, would you explain to the jurors what  
13 EDTA is?

14 A. Yes, EDTA stands for ethylenediaminetetraacetic  
15 acid, and EDTA is a chemical, simply a chemical  
16 that is known as a chelating agent. And what  
17 that means is, it simply will take metals that  
18 are in the environment of this chemical and latch  
19 on to them, bind to it, and remove them from that  
20 environment that it's in.

21 Q. Where is EDTA found?

22 A. EDTA is found in a lot of commercial products  
23 that we all use. It's found in your shampoo.  
24 It's found in your laundry detergent. It's found  
25 in a number of foods such as sodas. And it's

1 found in fertilizers, just to name some.

2 And the reason that they are in things  
3 like detergents and shampoos is that it, again,  
4 it attaches to the metals. And I don't know if  
5 you have hard water here in this part of  
6 Wisconsin but, you know, generally hard water has  
7 a whole lot of metal in it, that's what makes it  
8 hard.

9 So what that shampoo will do with the  
10 EDTA in it is latch on to those metals so that it  
11 actually does a better job of cleaning, same with  
12 your detergent. So that's what EDTA is found in,  
13 a whole lot of different commercial products.

14 Q. And what's its purpose, again, what is it used  
15 for?

16 A. To bind metals, specifically, what it is used for  
17 is a chelating agent. And, then, as I indicated  
18 it, because of that binding of metals and  
19 different uses, it helps stabilize certain food  
20 products, for example. So that's why it's used.  
21 In that instance, it might be used in a  
22 laboratory setting to serve as a buffer in a  
23 reagent.

24 Q. You use the word it's used to stabilize  
25 something, could you explain a little more to the

1           jurors what you mean by a stable chemical.

2   A.   Well, a stable chemical is one that doesn't  
3       easily break apart. That's a very simple way of  
4       explaining it. It's very rugged. It's not  
5       fragile.

6   Q.   Are there studies in the scientific literature,  
7       or articles about the stability of EDTA?

8   A.   Yes, there are, there are numerous studies in the  
9       scientific literature that talk about the  
10      stability of EDTA.

11   Q.   And why would these studies be made?

12   A.   Well, most of the studies that have been done in  
13      the past few decades are studies that are  
14      concerned with the prevalence of EDTA in the  
15      environment. As I mentioned, it's stable and it  
16      attaches to metals. And over the years, as the  
17      use of EDTA continues to be used in more and more  
18      products, what we're seeing in the environment is  
19      that it continues to build up because EDTA is so  
20      stable.

21                So we're finding it in wastewater and  
22      river water, find it in your soil. And what the  
23      concern is, of course, is it's taking metals out  
24      of your water, taking metals out of the soil,  
25      that are normally supposed to be there for the

1 normal process of biology, and latching on to  
2 them, making them unusable in their normal form.

3 So that's what most of the studies are  
4 talking about, the stability of EDTA in the  
5 environment and the concern of it building up  
6 over time. And the difficulties of actually  
7 removing it from the environment, out of your  
8 water before you drink it, and out of soil,  
9 etcetera.

10 Q. These articles or other studies, these were  
11 studies that were developed by other scientists;  
12 is that correct?

13 A. Yes, scientists from all over the world. These  
14 publications are from the Netherlands, from South  
15 America, from the United States, all over Europe,  
16 yeah, essentially all over the world.

17 Q. Would you tell the jury a little bit about your  
18 experience with the stability of EDTA?

19 A. Well, as part of work that we did around this  
20 case is we were interested to see whether or not  
21 blood that was in an EDTA tube and put onto a  
22 spot card, which is simply a card that you put a  
23 spot of blood on, if that were stored at normal  
24 room temperature environment for a number of  
25 years, would that EDTA remain in that bloodstain.



1           And we did find that a stain that was made in May  
2           of 2004, today still were able to detect the  
3           presence of EDTA in.

4       Q.    So this chemical is not easily broken apart under  
5           normal environmental conditions; is that fair to  
6           say?

7       A.    That is absolutely a correct statement.

8       Q.    And why not?

9       A.    Well, again, it is not a fragile chemical.  It is  
10          not fragile at all.  It takes very severe  
11          conditions to break it down.  For example it can  
12          withstand temperatures up to 300 degrees  
13          Fahrenheit before it will break apart.

14      Q.    And this chemical, EDTA, is this a chemical that  
15          you could test for its presence in substances in  
16          this instrument that you talked about at the FBI?

17      A.    Yes, absolutely.

18      Q.    Now, I would like to ask you, Doctor, what is a  
19          blood collection tube?

20      A.    Well, a blood collection tube is simply the glass  
21          test tube, if you will, that when you have blood  
22          drawn at a doctor's office it is the tube that  
23          they put your blood in.

24      Q.    And are there different kinds of blood collection  
25          tubes?

1 A. Yes, there are.

2 Q. And would you be able to describe those for the  
3 jurors?

4 A. Yes, I could.

5 Q. We have prepared a -- you have prepared a  
6 PowerPoint presentation to give this description;  
7 would that be helpful to the jurors while  
8 testifying?

9 A. Yes, it would.

10 Q. Can you -- Do you have a mechanism to back this  
11 up, I think we want a different slide initially  
12 to start with the collection tubes. And, again,  
13 I'm going to ask you to -- could you describe a  
14 little more about these different types before we  
15 get the slide set up, these different types of  
16 collection tubes and why they have different  
17 types.

18 A. Well, there are a number of different types of  
19 tubes. One type of tube has nothing in it; it's  
20 simply your blood goes into the tube and it's  
21 there with nothing added to it. But the majority  
22 of collection tubes that we deal with, the  
23 majority of collection tubes that we deal with  
24 have some form of a preservative or an  
25 anticoagulant in that tube. And the reason being

1 is you want to allow this blood to be stored for  
2 some time, so it's still usable to the  
3 laboratory.

4 As I indicated, there are multiple types  
5 of tubes. And the way we can tell what is in the  
6 tube is simply by the color of the stopper on  
7 that tube. The color indicates what's inside the  
8 tube when it's em -- when it's-- before it's  
9 filled with blood.

10 So the red-stoppered tube, as you can  
11 see on the screen, has nothing in it, where as  
12 the yellow-stoppered tube has citric acid or  
13 citrate in it. The gray-stoppered tube has  
14 potassium fluoride -- I'm sorry -- sodium  
15 fluoride and potassium oxalate in that one. And  
16 then the lavender or purple-stoppered tube has  
17 this chemical EDTA.

18 Now, when the blood is put into these  
19 tubes, you shake them up so that the chemical  
20 additive is well mixed within the tube. And then  
21 it does its thing.

22 Now, if we start by looking simply at  
23 the red-stoppered tube with nothing in it, what  
24 happens is, within our blood we have blood cells,  
25 red blood cells, which you I'm sure heard of, but

1 we also have calcium in our blood. And that's  
2 important because the calcium plays a very key  
3 role in those red blood cells staying apart from  
4 one another.

5 After awhile, if we don't have a  
6 preservative or an anticoagulant in that tube,  
7 what happens is those red blood cells clot. They  
8 come together and form clots within that tube,  
9 which of course makes it very difficult for  
10 laboratories to do testing on the blood.

11 So that's why we use these  
12 anticoagulants and preservatives in these tubes.  
13 If we look at the purple-stoppered tube, which is  
14 your EDTA tube, the EDTA is in with the blood,  
15 mixed in, with the calcium and the red blood  
16 cells. And as I said earlier, the role that EDTA  
17 plays is to bind metals, such as calcium. But it  
18 binds any metals that are present in our blood.  
19 And a lot of those metals come from our diet,  
20 from our normal metabolic processes that occur in  
21 our body.

22 So the EDTA is going to bind with those  
23 calcium -- the calcium, the iron, and other  
24 metals and, again, latch onto it and make it  
25 unavailable for its normal use. So that's going

1           to prevent your blood from clotting. And that's  
2           why EDTA is in the purple-stoppered tube. What  
3           this does, as I said, we have iron floating  
4           around in our blood and we have calcium, which is  
5           the CA, iron is FE. The EDTA comes along and it  
6           complexes with those metals, complexes with the  
7           calcium and it complexes with the iron. And  
8           that's simply what the different blood collection  
9           tubes are and why EDTA, in particular, is present  
10          in these purple-stoppered tubes.

11       Q.   And when you did your personal stability test for  
12           EDTA, was it bloodstains from purple-topped  
13           tubes?

14       A.   That's what was reported to us. I'm sorry, what  
15           was your question?

16       Q.   When you did your stability study and degradation  
17           study, was it bloodstains from purple-topped  
18           tubes?

19       A.   Yes. Yes, they were. They were all stains that  
20           were generated from purple-stoppered tubes.  
21           Those were generated, again, in May of 2004, and  
22           we analyzed them just last week.

23       Q.   And the chemical that you would be looking for,  
24           just so it's clear for the jurors, in the  
25           instrumentation that you have described, again,

1           according to this slide, what can you identify  
2           with your instrumentation?

3       A.   Well, we specifically focused on EDTA bound to  
4           iron, as well as free EDTA.  There's so much EDTA  
5           in that tube, that not all of it is used.  In  
6           fact, the majority of it is not used, so there's  
7           a lot of the original EDTA still floating around,  
8           unbound to anything.

9                        So we focused on both the unbound EDTA,  
10           the original form, as well as the EDTA that was  
11           bound to iron.  And we chose the iron over  
12           calcium, simply because iron is about 10 to 30  
13           times more abundant in our blood than is calcium,  
14           so it would make it easier to answer the question  
15           that was put before us.

16       Q.   And did you receive samples to test in this case?

17       A.   Yes, we did.

18       Q.   And do you recall, what did you receive?

19       A.   We received a number of swabs that were reported  
20           to us as having been taken from bloodstains out  
21           of a Toyota RAV4, as well as control swabs that  
22           were collected in the areas near where those  
23           bloodstains were.  And we also received a tube of  
24           blood in a purple-stop -- stoppered tube, a EDTA  
25           tube, that was collected from Mr. Steven Avery.

1 Q. I'm going to ask Agent Fassbender to bring you  
2 what have previously been marked as Exhibits 332,  
3 334, and 336. Dr. LeBeau, would you look at  
4 Exhibit 332, which has been already entered into  
5 evidence and testified to by Sherry Culhane as  
6 being a blood swab that she took from the  
7 dashboard of Teresa Halbach's RAV4 and she  
8 identified that as her laboratory number A-8; did  
9 you receive that?

10 A. I'm sorry, could you repeat the exhibit number?

11 Q. Exhibit No. 332?

12 A. And A?

13 Q. It was previously identified by Sherry Culhane  
14 from the State Crime Lab.

15 ATTORNEY BUTING: Why don't we just read  
16 what's on the exhibit?

17 A. This says A-10.

18 Q. I'm sorry. Then, I'm asking you to look at --  
19 look for the one that is for A-8?

20 A. A-8 has exhibit 336 on it.

21 Q. And that was previously identified by Sherry  
22 Culhane as a bloodstain taken from the dashboard  
23 of Teresa Halbach's RAV4; did you receive that?

24 A. Yes, I did.

25 Q. And how can you tell?

1 A. I can recognize our laboratory number that we  
2 placed on this packaging, as well as the initials  
3 of the technician that did perform the analysis,  
4 and my own initials.

5 Q. Okay. And did you test the swabs from that  
6 bloodstain using the technology you have  
7 described to the jurors?

8 A. Yes, we did.

9 Q. Now, I would ask you to identify for us, if you  
10 can, what would have been marked as A-12, a  
11 bloodstain from the rear passenger door of Teresa  
12 Halbach's car?

13 A. That's correct.

14 Q. What exhibit number is that, please?

15 A. Exhibit 334, yes.

16 Q. And, again, that has been already entered into  
17 evidence and identified by Sherry Culhane as a  
18 bloodstain--

19 ATTORNEY BUTING: Your Honor, I would  
20 object to counsel telling this witness what has --  
21 describing these exhibits as something other than  
22 what this witness knows. This witness should  
23 testify to what he saw, what he was advised. But  
24 what was testified to, he has no knowledge of.

25 THE COURT: I agree that I don't know that



1           this witness was in a position to say what a  
2           previous witness said, but if these exhibits have  
3           been admitted on that basis previously, I think it  
4           is help for the identification. If there's a  
5           dispute about that, then I think we should be heard.  
6           Is there a question?

7                     ATTORNEY BUTING: Not at this time, you can  
8           proceed.

9                     THE COURT: All right.

10          Q.    (By Attorney Gahn)~ And, again, Exhibit 334, did  
11           you receive that for testing in your lab?

12          A.    Yes, we did.

13          Q.    And how can you tell, Doctor?

14          A.    Again, our laboratory number and the initials of  
15           both the technician that did the work, as well as  
16           myself.

17          Q.    And would you -- would you have Exhibit 336  
18           there?

19          A.    Yes, I do.

20          Q.    And that is an exhibit that has been previously  
21           identified by Sherry Culhane from the State Crime  
22           Lab as a bloodstain that she took from a CD case  
23           from Teresa Halbach's RAV4; is that correct?

24          A.    No, sir.

25          Q.    I'm sorry? I'm sorry, 332; is that correct?

1 A. Exhibit 332 is identified by the label on the  
2 packaging as being collected from the CD case on  
3 the front passenger seat.

4 Q. And -- And did you receive that for testing?

5 A. Yes, we did.

6 Q. And how can you the tell?

7 A. Again, our laboratory number written on the  
8 packaging, as well as the initials of the  
9 technician that did the work, and myself.

10 Q. I'm going to ask Agent Fassbender to bring you  
11 three additional envelopes which were control  
12 swabs taken in this case. And, again,  
13 Dr. LeBeau, just the last exhibit, 332; is that  
14 marked as exhibit -- have the identifying Crime  
15 Lab No. A-10?

16 A. That's correct.

17 Q. Dr. LeBeau, would you look at Exhibit 476?

18 A. Yes.

19 Q. And can you identify that exhibit?

20 A. This is a -- reported to be a control swab, or  
21 two control swabs that were collected from the  
22 rear passenger door area in the RAV4.

23 Q. And how can you -- Did you examine those?

24 A. Yes, we did.

25 Q. And how can you tell?

1 A. Again, our laboratory number is placed on there  
2 as well as our initials.

3 Q. And would you look at Exhibit 475; can you  
4 identify that exhibit?

5 A. Yes, I can.

6 Q. Will you tell the jurors what that is?

7 A. This is reported to be control swabs that were  
8 collected from the RAV4, off of a CD case.

9 Q. And did you receive that for testing?

10 A. Yes, we did.

11 Q. And how can you tell?

12 A. Again, the laboratory number that we assigned to  
13 this case as well as our initials are on it.

14 Q. And do you have Exhibit 477 in front of you, sir?

15 A. Yes, I do.

16 Q. And can you tell the jurors what that is?

17 A. Again, this is reported to be control swabs that  
18 were collected from the RAV4, in the ignition  
19 switch area of the vehicle.

20 Q. And did you test that with the technology you  
21 have described?

22 A. Yes, I did.

23 ATTORNEY BUTING: Objection, your Honor, I  
24 think we need, for foundation purposes, when he says  
25 did you test, counsel is asking did you test this,

1        did you test that, and he is repeatedly answering we  
2        tested, yes, we did. So I think there needs to be  
3        some clarification as to what this witness did.

4                THE COURT: The Court agrees, that should  
5        be clarified.

6        Q.    (By Attorney Gahn)~ Would you explain to the --  
7        when I say, did you test this, I'm talking about  
8        the FBI. Would you explain to the jurors when  
9        you receive evidence, how the testing process  
10       proceeds?

11       A.    Typically, the way we're set up is, certainly the  
12       manager of the unit isn't -- doesn't have a lot  
13       of time to spend performing the actual analyses.  
14       So, we have two levels of scientists within our  
15       unit.

16               We have what are called chemists, which  
17       are essentially technicians, but they are well  
18       educated technicians, many with Ph.D.s. And,  
19       then, we have examiners. And I'm -- In this role  
20       I serve as an examiner. The examiner is assigned  
21       the case and oversees the analytical work that's  
22       done on the case.

23               So they're the supervisor. They are in  
24       close contact with the technician that worked on  
25       the case, often times in the lab with him,

1 helping out. But most of the analytical work is  
2 actually done by a qualified chemist.

3 When the work is finished, the  
4 analytical product, the results, are handed off  
5 to the examiner, who compiles the results, forms  
6 the opinion that is then put into the report, as  
7 I indicated earlier, and is sent out to the  
8 contributing agency. So it's simply an  
9 efficiency thing so that work can always be done  
10 while the examiners are out testifying on their  
11 cases.

12 Q. Would you also describe to the jurors the roles  
13 that you have played yourself in the processing  
14 of this case and the analysis that was done.

15 A. Well, again, I supervised the entire process of  
16 this case as far as the method development, the  
17 receipt of the evidence, the decisions that were  
18 made on what was analyzed, when it was analyzed,  
19 how it was analyzed. And then took the results  
20 and compiled them, formed an opinion, my opinion,  
21 as to what they meant, wrote the report myself,  
22 issued the report after it had been reviewed by  
23 an independent scientist that works within my  
24 unit and, of course, here today to testify.

25 Q. And these items of evidence that you testified to

1           just now in front of the jury, did you personally  
2           examine these items?

3       A.    Yes, I did.

4       Q.    And, thus, that's why your initials are on each  
5           of the bags?

6       A.    Yes.

7                    ATTORNEY GAHN:   May I proceed?

8                    THE COURT:   Actually, I think you are not  
9           going to finish before lunch, so I think I'm going  
10          to take a break at this time.

11                   Members of the jury, we'll take our  
12          lunch break at this time, I will remind you not  
13          to discuss the case among yourselves until we  
14          resume.   And we'll see you after lunch.

15                               (Jury not present.)

16                   THE COURT:   You may be seated.   Counsel, I  
17          would like to see you briefly in chambers before we  
18          break for lunch.

19                               (Recess taken.)

20                               (Jury present.)

21                   THE COURT:   At this time we're back on the  
22          record and Mr. Gahn you may resume.

23                   ATTORNEY GAHN:   Thank you, your Honor.  
24          Before resuming the testimony I would like to inform  
25          the Court that we have marked as exhibits,

1 Exhibit 465, and Exhibit 466; 466 is the PowerPoint  
2 demonstration that Dr. LeBeau was using to explain  
3 his testimony for the jurors. We have probably gone  
4 through about half of it. There will be some more  
5 coming. And Exhibit 465 is a CD Rom of that  
6 PowerPoint demonstration. I would move those into  
7 evidence at this time.

8 ATTORNEY BUTING: No objection.

9 THE COURT: Very well, they are admitted.

10 **DIRECT EXAMINATION CONTD.**

11 BY ATTORNEY GAHN:

12 Q. Now, Dr. LeBeau, you just finished testifying  
13 about some of the samples that you received for  
14 testing at your laboratory, namely the three  
15 blood swabs that came are from the RAV4 and three  
16 controlled swabs, correct, that came from the  
17 RAV4?

18 A. Actually six control swabs, there were two of  
19 each.

20 Q. Two of each. Thank you, Doctor. And did you  
21 also receive a blood sample from Steven Avery in  
22 this case?

23 A. I did receive a blood sample that was reported to  
24 have been taken from Steven Avery, yes.

25 Q. And I'm going to ask that that be marked as an

1 exhibit at this time and I'm going to have that  
2 brought to you for your examination.

3 (Exhibit No. 478 marked for identification.)

4 Q. (By Attorney Gahn)~ First, could you state what  
5 exhibit number is that?

6 A. This is Exhibit 478.

7 Q. And do you recognize that?

8 A. Yes, I do.

9 Q. And how do you recognize that, sir?

10 A. Again, I recognize it by the initials of the  
11 technician who opened this. Some of the markings  
12 that we did place on it, unfortunately our lab  
13 number has been covered up by crime scene tape,  
14 or evidence tampering tape, rather, from the  
15 Wisconsin State Crime Lab in Madison apparently.

16 Q. And if you were to open that container, would you  
17 be able to make further identifications of the  
18 blood vial that you tested in this case?

19 A. Yes, I would be.

20 Q. Would you do so at this time, sir.

21 A. Yes.

22 THE COURT: Before that happens, I recall  
23 there was some discussion about fingerprint evidence  
24 on the vial, is that -- has that matter been  
25 resolved?



1 ATTORNEY GAHN: It's been completed.

2 THE COURT: Defense is satisfied?

3 ATTORNEY BUTING: Let's go to side bar for  
4 just a minute.

5 THE COURT: All right. Don't open it any  
6 further, please.

7 (Side bar taken.)

8 THE COURT: I should indicate for the  
9 record that during the side bar a question was  
10 raised about the evidence tape on the vial, which  
11 the parties are free to go in their examination.

12 It was also pointed out to the Court,  
13 that witness, in fact, does have latex gloves on,  
14 something, unfortunately, in this courtroom, I  
15 can't really see from the bench, so. But go  
16 ahead, you may proceed.

17 ATTORNEY GAHN: All right. Thank you, your  
18 Honor.

19 (Witness opens exhibit.)

20 A. I'm going to try to open it. Oh, okay, it's  
21 reversed. I'm a little concerned that I'm going  
22 to throw a vial of blood when I open this. There  
23 we go.

24 Q. And would you explain to the jurors why a vial of  
25 blood is packaged as it is?

1 A. Well, this container is a shipping container to  
2 ensure that the tube inside doesn't break. It's  
3 very high density plastic material and packed on  
4 the inside with cotton and then further packaged  
5 on the inside with yet another tube that is heavy  
6 duty, like a plastic material so that the tube,  
7 if it were to break on the inside, the blood  
8 would remain, actually, in this secondary  
9 container here. It's just a safety precaution.

10 Opening and being able now to see the  
11 tube, I can recognize our laboratory number, as  
12 well as the initials of myself and the technician  
13 that performed the actual analyses on this blood.

14 ATTORNEY BUTING: May I see the tube,  
15 counsel?

16 ATTORNEY GAHN: Certainly.

17 ATTORNEY BUTING: I will let you hold it.

18 THE WITNESS: Okay.

19 Q. (By Attorney Gahn)~ And does that blood tube  
20 that's contained in that container have the name  
21 Steven Avery written on it?

22 A. Yes, it does.

23 Q. Now, you may put that aside for the moment. And  
24 I would like you to explain to the jurors what  
25 you mean by, what are control samples as it

1       pertains to the control samples that were taken  
2       in this case and sent to you?

3     A.   Well, a control sample is simply a replicate swab  
4       of the area near the stain that was collected to  
5       look for any contamination that would count for  
6       positive findings you actually find in the item  
7       that you are analyzing.  So in this case, the  
8       bloodstain itself, it was a swabbing of the area  
9       around it to ensure that there wasn't any  
10       contaminants that would interfere with our  
11       particular analysis.

12    Q.   And why would they be particularly helpful in  
13       this case for your analysis?

14    A.   Well, for this particular case because, in part,  
15       as I indicated, EDTA is widely used in a number  
16       of commercial products.  So, you would be  
17       concerned that the inside of the car, for  
18       example, may be processed with a cleaning agent  
19       that may leave a residual amount of EDTA behind.  
20       So you want to make sure that that isn't there in  
21       case you have a positive finding in the  
22       bloodstain because that could confuse the  
23       interpretation of the results.

24    Q.   When you receive a case submitted to you for an  
25       analysis, do you routinely take photographs of

1           the items that are sent to you?

2   A.   Yes, I do, as well as my staff routinely does

3       that.

4   Q.   And that is something that is in the protocol of

5       the FBI in your Chemistry Unit?

6   A.   It is within the protocol of the whole FBI

7       Laboratory to document -- to every extent that we

8       can, document the evidence as it is received into

9       the laboratory and into the unit.

10  Q.   And was that done in this case?

11  A.   Yes, it was.

12  Q.   I'm going to ask Mr. Fallon to bring you six

13       photographs. I would like you to look at those.

14       And if you were to take the top photograph, turn

15       it over and identify the exhibit number, please.

16  A.   This is Exhibit 458.

17  Q.   And how -- Do you recognize that photograph?

18  A.   Yes, I do.

19  Q.   How do you do that, sir?

20  A.   I recognize our laboratory number and the item

21       designation we gave to this particular item of

22       evidence.

23  Q.   And how does that photograph -- would you explain

24       to the jurors how that corresponds to the

25       evidentiary items that you have in front of you?

1 A. Yes, this is a photograph of the blood swab that  
2 was reported to have been taken from the ignition  
3 area in the RAV4.

4 Q. And is that photograph now being displayed on the  
5 large screen?

6 A. Yes, it is.

7 Q. And could you just explain to the jurors the  
8 condition of this swab when you first saw it?

9 A. When -- It looks exactly like you can see in the  
10 photograph, that's how we received it.

11 ATTORNEY BUTING: Objection, again, he's  
12 got to testify, it's not clear whether he saw it, or  
13 whether he reviewed it, or whether he is talking  
14 about his lab staff.

15 THE COURT: The objection is sustained.

16 Q. (By Attorney Gahn)~ Did you review this  
17 photograph? I mean, have you seen this  
18 photograph before?

19 A. Yes.

20 Q. And did you yourself look at the swabs that were  
21 submitted to you for analysis?

22 A. Yes, I did.

23 Q. And could you describe for the jurors the  
24 condition of this swab that you actually saw?

25 A. Again, exactly as you see on the screen, this is

1           the condition of the swab when it was received in  
2           our laboratory and when we opened it for the  
3           first time, this is a photograph of it.

4                     It was obvious to us that this swab had  
5           been analyzed, or at least cut at one point,  
6           previously, because it wasn't the typical rounded  
7           shape you would expect on a cotton tipped  
8           applicator. It appeared as if a portion of it  
9           had been removed and that was consistent with  
10          what we had been told had occurred with this  
11          particular swab, prior to our analysis with it.

12       Q.    Would a laser pointer be helpful to you --

13       A.    Yes, it would.

14       Q.    -- in pointing this out to the jurors?

15       A.    So specifically this area here, the top portion  
16          appeared to have -- that the top had been cut  
17          off.

18       Q.    And does this photograph in Exhibit 458  
19          accurately depict this swab, from the dashboard  
20          of Teresa Halbach's car, as you observed it?

21       A.    Yes, it does.

22       Q.    Would you go to the next photograph and identify  
23          which exhibit that is?

24       A.    This is Exhibit 459.

25       Q.    And how does that correspond to the evidentiary

1 items in front of you that you have already  
2 testified about?

3 A. This is a photograph of a swab that was reported  
4 to have been collected from the rear passenger  
5 door area from the RAV4.

6 Q. And did you personally look at the swabs that  
7 were submitted in this case from the rear  
8 passenger door area of the RAV4?

9 A. I did, yes.

10 Q. And does the photograph, the photograph that you  
11 have, is that being displayed now on the large  
12 screen?

13 A. Yes, it is.

14 Q. And, again, could you point out to the jurors  
15 what you observed about this swab?

16 A. Again, this swab had what appeared to be blood on  
17 it. And, again, it was obvious that a portion of  
18 it had been cut or removed, prior to it arriving  
19 to our laboratory.

20 Q. And does the photograph that you have in  
21 Exhibit 459 accurately depict the condition of  
22 this swab from the rear passenger door area as  
23 you observed it?

24 A. Yes.

25 Q. And would you go to the next exhibit, please, and

1 identify it.

2 A. This is Exhibit 460.

3 Q. And how does that correspond to the evidence  
4 samples that you examined in this case?

5 A. This is a swab that was reported to us as having  
6 been collected from the CD case that was found in  
7 the RAV4.

8 Q. And does that photograph -- is that being  
9 depicted now on the large screen?

10 A. Yes, it is.

11 Q. And did you personally examine this swab?

12 A. Yes, I did.

13 Q. And please describe for the jurors the conditions  
14 that you observed?

15 A. Again, this swab appeared to have been sampled  
16 previously. There did not appear to be a great  
17 deal of blood on this particular swab suggesting  
18 that there was little to begin with in the  
19 previous analysis, perhaps took the portion that  
20 would have been useful for our particular  
21 examination.

22 Q. I would ask you to take the next exhibit, which  
23 would be Exhibit 461, I believe, next photograph,  
24 please, and identify that exhibit number.

25 A. Exhibit 461.



1 Q. Yes.

2 A. This is -- These are two control swabs, reported  
3 to us as control swabs.

4 Q. And can you correspond those swabs with the  
5 evidence samples that you received for analysis?

6 A. Yes, these were control swabs that were collected  
7 from the area near the ignition switch.

8 Q. And are those swabs that are in that photograph  
9 now being shown on the large screen?

10 A. Yes, they are.

11 Q. Could you take the next exhibit, please, and  
12 identify it.

13 A. Exhibit 462.

14 Q. And what is that a photograph of?

15 A. These are control swabs that were reported to us  
16 as having been collected from the area near the  
17 staining on the rear passenger door of the RAV4.

18 Q. And the next exhibit, next photograph, please.

19 A. Exhibit 463.

20 Q. Yes. Would you identify that and tell us what  
21 that -- which evidentiary item that photograph  
22 corresponds to?

23 A. These are control swabs that were reported to us  
24 as having been collected off the CD case that was  
25 found in the RAV4 pickup.

1 Q. And all of these swabs, the controls as well as  
2 the bloodstains, did you test these samples for  
3 the presence of what you described to the jurors  
4 as EDTA?

5 A. Yes, I did, or we did.

6 ATTORNEY BUTING: I'm sorry, which is it,  
7 you said I did, we did?

8 A. Collectively we did it within my unit, my staff  
9 and I did, yes.

10 Q. Would you explain, again, to the jurors, just how  
11 the process works at the FBI Laboratory, what  
12 your role is and the role of your technicians and  
13 what is the typical way that a case is processed?

14 A. Throughout the FBI laboratory we have, again,  
15 technicians that do a vast majority of the actual  
16 hands on analytical work, saving the staff that  
17 is responsible for compiling the result,  
18 reviewing the results, ensuring that all the  
19 quality standards are correctly documented in the  
20 results, preparing the report, testifying,  
21 etcetera; assuring that they are available to do  
22 their job, we have technicians that do the vast  
23 majority of the analytical work.

24 Q. And, again, what were you looking for when you  
25 tested these swabs?

1 A. We were looking for the presence of EDTA,  
2 specifically, as well as the iron complex of  
3 EDTA. And if I could go back to the presentation  
4 I had used earlier?

5 Q. Would this be helpful to the jurors?

6 A. I believe it would be.

7 Q. Please, do.

8 A. So, specifically, we were looking for the free  
9 form of EDTA, this was the EDTA that was in  
10 excess and never bound to any metals in the blood  
11 sample, as well as the presence of the EDTA that  
12 actually bound to iron. And, again, we chose  
13 iron over calcium because iron tends to be  
14 present at about a 10 to 30 times higher amount  
15 in a blood sample than you would expect calcium  
16 to be there.

17 Q. When was the last time your laboratory at the FBI  
18 tested for the presence of EDTA in a bloodstain?

19 A. The last time we, within the FBI Laboratory,  
20 analyzed a bloodstain for EDTA was in the O.J.  
21 Simpson trial in the mid 1990's.

22 Q. Why is that so long ago, why is that the case,  
23 that it's been such a long time?

24 A. Well, simply, because we haven't had any request  
25 to do the analysis since then. We -- As I

1 indicated earlier, we don't go in search of work  
2 to do. The investigators call us and ask us if  
3 we can provide analytical assistance. We have  
4 never had a request, that I can recall, since the  
5 O.J. Simpson trial, in which prosecution was  
6 interested, or an investigation was interested in  
7 determining whether or not EDTA was in a  
8 bloodstain.

9 Q. Are there routine cases and non-routine cases  
10 that are submitted to the FBI Laboratory?

11 A. Yes, there are routine and non-routine cases.

12 Q. Could you explain the difference to the jurors,  
13 please.

14 A. Well, we -- we do many examinations that we  
15 consider routine. And by that I mean, these  
16 we're doing, maybe not weekly, but at least  
17 monthly. Examples of this might be something  
18 like, in a bank robbery, where a individual  
19 robbing a bank is given a die pack. And that die  
20 pack goes off and leaves a stain on the clothing  
21 or on the money of that individual.

22 We'll analyze that stain to determine  
23 whether or not a very unique die is present  
24 that's associated with die packs. That's a very  
25 routine examination for us. We're one of the few

1 labs in this country that do that analysis and  
2 those types of cases tend to be federal cases.

3 Another routine examination we do is  
4 looking at unknown powders that are mailed in  
5 threat letters. We have a whole lot of these  
6 happening throughout the country. Our laboratory  
7 tends to get these unknown powders and tries to  
8 identify what those powders actually are and  
9 assess whether or not they are a true threat.  
10 Again, that's a very routine thing.

11 DNA in our laboratory is as routine,  
12 essentially, as you can get it, as well as latent  
13 fingerprints. You can't get much more routine.

14 On the other hand, we do a whole lot of  
15 non-routine examinations. These are examinations  
16 that the state labs would not typically put  
17 together a procedure to do, because they may get  
18 this request once in their lifetime.

19 So we're often called upon, especially  
20 in my unit we're called upon, to develop a  
21 technique to analyze for a specific chemical, a  
22 unique chemical. And we may not do that again  
23 for a decade. It is not uncommon at all. So  
24 that would be an example of a non-routine  
25 examination.

1                   An example of some ones that come to  
2                   mind recently is looking for insulin in a  
3                   syringe. Most state labs wouldn't do that. We  
4                   get that request maybe every three years to do  
5                   something like that.

6                   Looking for a new drug that just  
7                   recently came on the market, that cannot be a  
8                   routine examination, so we would develop that as  
9                   a non-routine procedure and then perform analysis  
10                  on the evidence. So it's very common in our unit  
11                  and it does take up a considerable amount of our  
12                  time to do.

13       Q.    Are you familiar with the crime that has been  
14              referred to as a drug facilitated sexual assault?

15       A.    Yes, I am.

16       Q.    Do you have any expertise in this area?

17       A.    Yes, I do.

18       Q.    Please describe for the jurors your expertise in  
19              this area?

20       A.    Well, I'm considered one of the country's experts  
21              on this particular topic. I do a considerable  
22              amount of training, not just in the United States  
23              but throughout the world, on drug facilitated  
24              sexual assault and drug facilitated crimes.

25                   I have written a number of scientific

1 articles that have been published in peer review  
2 journals. I have also co-authored a book on drug  
3 facilitated sexual assault.

4 Q. And what is a drug facilitated sexual assault?

5 A. These are crimes that people typically think of  
6 as when someone is slipped a drug secretly and  
7 that drug knocks them out, incapacitates them so  
8 that a perpetrator can potentially assault them,  
9 sexually assault them without them resisting the  
10 attack.

11 Q. And what are these drugs that are used to  
12 accomplish that?

13 ATTORNEY BUTING: Objection, to relevance  
14 at this point.

15 ATTORNEY GAHN: Well --

16 THE COURT: Mr. Gahn.

17 ATTORNEY GAHN: I have a few more questions  
18 and then I will wrap this up, I just wanted to show  
19 the chemical testing that was done on this drug.

20 ATTORNEY BUTING: And why, we test  
21 chemicals every day, what's the relevance here?

22 ATTORNEY GAHN: Well, that's the point of  
23 this, to show how the procedures were developed for  
24 a non-routine case. It's just a few more questions.

25 THE COURT: This is a foundational question

1           for something else?

2                   ATTORNEY GAHN:   Yes.   Yes.

3                   THE COURT:   All right.   If you can relate  
4           it, I will allow you to continue.

5   Q.    (By Attorney Gahn)~ Did a time come -- These  
6           drugs that are used for the drug facilitated  
7           sexual assaults, did a time come when your lab  
8           was requested to test for these for the first  
9           time?

10   A.   Yes, of course.

11   Q.    And what did you do?   Did you develop a procedure  
12           to test for these drugs that are used in drug  
13           facilitated sexual assaults?

14   A.   Yes, we did.

15   Q.    And why was it important to do that?

16   A.    Because we didn't have a procedure that had been  
17           validated and put on line, as we would call it,  
18           to do the analysis for these drugs.   So there's  
19           always a first time for everything, of course,  
20           and we had to develop a method and validate it  
21           and then use it in cases.   And it eventually  
22           became a very routine examination that we now  
23           conduct, but initially it was a first case where  
24           we were asked to do this analysis.

25   Q.    And how often do you get requests to test for



1 chemicals that you have never tested for before?

2 A. I would say approximately 20 percent of our case  
3 load are requests to do unique non-routine types  
4 of examinations.

5 Q. And in this case here, did you develop a  
6 procedure or a protocol to test for the presence  
7 of EDTA in bloodstains?

8 A. Yes, we did.

9 Q. And did you specifically develop those procedures  
10 for this case?

11 A. Yes, we did.

12 Q. I'm going to ask Mr. Fallon to bring you what has  
13 been marked as Exhibit 434 and ask you to  
14 identify the document.

15 A. This is a copy of the procedure that we developed  
16 and used in the evidence for this case.

17 Q. And was there anything in the scientific  
18 literature that helped you develop the procedures  
19 that you used in this case?

20 A. Yes, there was.

21 Q. I'm going to ask Mr. Fallon to bring you what  
22 have been marked as Exhibits 436 and Exhibits 437  
23 and I ask that you examine them, please. And  
24 what is Exhibit 436?

25 A. 436 is a article entitled *The Analysis of EDTA in*

1        *Dried Bloodstains by Electrospray LC/MS/MS and*  
2        *Ion Chromatography*, published in the *Journal of*  
3        *Analytical Toxicology*, in November/December,  
4        1997.

5        Q.    And what is Exhibit 437?

6        A.    Exhibit 437 is an article entitled *Determining*  
7        *EDTA in Blood*, published in a journal entitled  
8        *Analytical Chemistry*, in August, 1997.

9        Q.    And what is the *Journal of Analytical Toxicology*?

10       A.    This is one -- The *Journal of Analytical*  
11       *Toxicology* is one of the most relied upon  
12       professional journals for individuals in the  
13       field of toxicology, but more specifically  
14       forensic toxicology.

15       Q.    And what is the *Journal of Analytical Chemistry*?

16       A.    Analytical Chemistry is one of the most relied  
17       upon professional journals for those that  
18       practice analytical chemistry.

19       Q.    And are those considered to be scholarly  
20       authoritative publications in the scientific  
21       community?

22       A.    Absolutely.

23       Q.    And do you consider those articles to be peer  
24       reviewed?

25       A.    Yes, they both are.

1 Q. And what do you mean by an article or publication  
2 being peer reviewed?

3 A. Peer review, what that simply means is a  
4 scientist that does research and then wants to  
5 publish that research. What they will do is  
6 write up a manuscript and submit it to the editor  
7 of that particular journal.

8 Now in science, what we do, we don't  
9 just publish because somebody sends us an  
10 article, but the editor has the responsibility of  
11 reviewing that article and finding experts in  
12 that area of study to review the work that was  
13 done in that particular manuscript.

14 So the editor sends that to reviewers,  
15 it's done blindly so no one knows who the  
16 reviewers are, except the editor. And the  
17 reviewers then make comments. They critique the  
18 manuscript, make suggestions for improvements in  
19 the science and then send those comments back to  
20 the editor who then passes those comments on to  
21 the original author of the manuscript.

22 Then the author of that manuscript must  
23 meet the recommendations and the suggestions of  
24 the peer reviewers and send that back to the  
25 editor who then makes a decision as to whether or

1 not it is suitable to be published. So it's a  
2 check and balance to ensure that what is  
3 published is actually scientifically valid  
4 information.

5 Q. And did you develop your protocol, which you have  
6 identified as Exhibit 434, that you developed for  
7 this case, to test for EDTA in bloodstains, based  
8 upon procedures in those two exhibits?

9 A. Yes, one of the things that we do, when we're  
10 looking for a method to develop, when we're  
11 deciding we need to develop a method that we  
12 don't currently have a written standard operating  
13 procedure for, we go to the literature, published  
14 literature, and we try to find a method that's  
15 been used and published by another group of  
16 scientists.

17 And we basically find one that meets our  
18 needs that we can apply with the instrumentation  
19 that we have in our laboratory and that will meet  
20 the needs for the particular analysis that we're  
21 being asked to perform. And the first article I  
22 referred to, Exhibit 436, from the *Journal of*  
23 *Analytical Toxicology*, this article met those  
24 needs.

25 We essentially based our entire method

1 on what was published in this article, with the  
2 article, Exhibit 437, from Analytical Chemistry,  
3 supporting the ideas that were presented in the  
4 article from the *Journal of Analytical*  
5 *Toxicology*.

6 Q. And did you make they improvements to the  
7 procedures that you observed in the publication  
8 from Analytical Chemistry and Analytical  
9 Toxicology?

10 A. I believe we did make some improvements when we  
11 put the method together and actually validated  
12 it.

13 Q. And what were those improvements?

14 A. Well, one thing we did, we used a different type  
15 of LC/MS for analysis. It was a newer technology  
16 than what was used in the 1997 publication.

17 Additionally, we introduced what's  
18 called an internal standard into our method. And  
19 simply what this is is a -- it's a control that  
20 we introduce into every sample as we're doing the  
21 analysis. It's a control that tells us whether  
22 or not the analysis, not for the whole batch of  
23 samples that we're running at one time, but for  
24 each individual sample, to show us that it  
25 actually worked as it was supposed to work.

1                   Additionally, we added one more  
2                   experiment than what they were suggesting to do  
3                   in this paper, that looked for the free form of  
4                   EDTA in not just one technique, but two  
5                   techniques.

6       Q.    What was your thought process in approaching this  
7            case that was sent to you?

8       A.    If I can go to the presentation.

9       Q.    Will this be helpful to the jurors?

10      A.    It certainly will be.

11      Q.    Then, please, do.

12      A.    The thought process is simply there's going to be  
13            one or two scenarios when you are dealing with  
14            the notion that blood was planted from an EDTA  
15            tube.  First scenario is that bloodstain that is  
16            found at a crime scene is either there from  
17            someone bleeding, actively bleeding, such as  
18            indicated here.

19                   If that blood then dries and a crime  
20            scene technician comes along and swabs that  
21            particular bloodstain, they are going to put some  
22            of the blood onto that swab.  And then if that  
23            swab is sent into the laboratory for doing an  
24            analysis, the laboratory will look at that swab  
25            and analyze it.  That's scenario one.

1                   Second scenario is if the blood is  
2                   actually planted from an EDTA tube, again, a swab  
3                   from a crime scene technician, that comes along  
4                   and samples that stain, again, that swab being  
5                   sent to the Crime Lab to analyze the stain. So,  
6                   essentially, if you look at that swab that's sent  
7                   to the laboratory, you have one of two potential  
8                   options here.

9                   The first option is if you find the  
10                  presence of EDTA and the iron complex of EDTA on  
11                  that bloodstain, on the swab, and you don't find  
12                  any significant EDTA on your controlled swab, in  
13                  that area, remember I said you need to make sure  
14                  that a cleaning product wasn't used that would  
15                  confuse the interpretation of the results. If  
16                  that's the case, you find EDTA present on that  
17                  swab, then that's an indication that that blood  
18                  was indeed planted or came from a tube such as a  
19                  purple-topped tube.

20                 The other scenario is that you do not  
21                 find EDTA, or that metal complex of EDTA, and  
22                 that would, then, suggest that the blood came  
23                 from active bleeding and not from an EDTA  
24                 preserved tube.

25    Q.    And the blood tube that you have identified as

1           being the blood tube with the name Steven Avery,  
2           is that a purple-topped tube blood?

3    A.    Yes, it is.

4    Q.    And in this case, did you follow the protocol  
5           that you developed to test for these two  
6           scenarios?

7    A.    Yes, we did.

8    Q.    First, would you, please, describe to the jury  
9           the steps that you took to validate the  
10          procedures that you used in this case.

11   A.    Well, once we had ensured that all of our  
12          instrument settings were correct, based, again,  
13          on the paper from the *Journal of Analytical*  
14          *Toxicology*, we performed the required validation  
15          steps that are a requirement of our unit, based  
16          upon the requirements of our laboratory, which,  
17          again, are based on the requirements of our  
18          accrediting body. And we performed an analysis  
19          initially to determine what our detection limit  
20          was for this particular analysis, basically, how  
21          low could we go to find EDTA.

22                 And we did that one of two ways. We did  
23          it, first, by taking solutions of known  
24          concentration of EDTA and continuously diluting  
25          them, analyzing it, diluting it, analyzing,



1       diluting, until we got to the point that we could  
2       no longer meet the requirements that we had  
3       written into the protocol, as far as something  
4       being a positive or a negative. When we reached  
5       that lowest concentration, that's what's called  
6       our detection limit.

7               Another test we did, though, is we took  
8       a tube of blood that had been preserved with EDTA  
9       and we put different size drops of blood on a  
10      microscope glass slide and we let that dry and  
11      then came along with a swab, swabbed it off, and  
12      did, again, the analysis like we wrote in this  
13      procedure, on those swabs, until the point that  
14      we could no longer detect the presence of EDTA.

15              And as it turned out, with that  
16      particular analysis, with the spot, the lowest  
17      volume we can accurately measure is one  
18      microliter of blood. And one microliter of blood  
19      is the equivalent of about 1/50th of a drop. So  
20      that's as low as we could accurately measure a  
21      volume out onto the microscope slide. And we  
22      were still able to find the presence of EDTA and  
23      EDTA with the iron complex on that one microliter  
24      drop.

25              So that, combined with the fact that our

1 decreasing concentration suggested that we could  
2 go as low as 13 parts per million, with the  
3 analysis, 13 parts per million, we knew where we  
4 were as far as sensitivity with this particular  
5 method.

6 The second thing that we did was to look  
7 for the presence of interferences that would  
8 cause us some confusion when we did the analysis.  
9 Since we were dealing with blood, we looked at a  
10 number of blood specimens that were not preserved  
11 with EDTA. They had other preservatives in them  
12 and blood that had no preservatives. And we ran  
13 this through the same test. We put some of that  
14 blood onto swabs, let it dry, and then ran  
15 through the procedure.

16 That, again, was to demonstrate that  
17 blood doesn't interfere with the test. None of  
18 the components that are normally found in blood  
19 interferes with the test.

20 The third thing we did was something  
21 that's called matrix suppression, an evaluation  
22 of matrix suppression. You are putting proteins  
23 and all these other things into the instrument  
24 when you are dealing with blood. So what we  
25 wanted to also verify is that these other things,

1 not just that they didn't interfere and cause  
2 signals that we shouldn't -- that would interfere  
3 with our ability to detect or identify EDTA, but  
4 also that the signal itself didn't drop because  
5 we were dealing with blood.

6 Now, this is very important when you are  
7 doing a method with LC/MS, particularly with the  
8 technique, as this paper describes, electrospray  
9 LC/MS. Because it's very well known that  
10 electrospray LC/MS, this is one of the criticisms  
11 of that particular analysis is that with some  
12 analytes other things that are in the sample can  
13 cause your signal in -- if it were this high, for  
14 example, in water, when you run it in a  
15 particular matrix, say like blood, or if you were  
16 doing food, that those things, other chemicals  
17 could cause that signal to drop.

18 So we had to evaluate that so we knew if  
19 this was a significant drop in the signal. And  
20 what we found is that at the very low  
21 concentration, we had an average drop in signal  
22 of about three percent. And at the very high  
23 concentration, we had a drop in signal of about a  
24 third. And, again, that's not very significant.

25 The next thing we did was to analyze for

1       carryover. And this is an important concept any  
2       time we're doing chemistry, analytical chemistry,  
3       is that when you shoot a sample that has a  
4       chemical in it, you want to make sure that that  
5       sample doesn't stick around, residual amounts of  
6       that sample don't stick around and show up in the  
7       next sample that's injected.

8               And this is a particular concern because  
9       this paper, again, from the *Journal of Analytical*  
10      *Toxicology*, talked about this being a problem  
11      with EDTA. And their recommendation in this  
12      paper, to avoid carryover to the next sample or  
13      the sample that follows, was to extract blank  
14      blood, unpreserved blood, and shoot that as a  
15      negative in between samples that were associated  
16      with the case.

17             So we evaluated carryover as part of our  
18      validation. And we actually found, with the  
19      system we were using today, that we had  
20      essentially no carryover. We did not find any.  
21      So I attribute that in part because technology  
22      has changed and the tubing, etcetera, within the  
23      instrument, is no longer made of metal, like it  
24      was in 1997. We're using a high density plastic  
25      material and that's probably why that occurred.

1 But those are the steps of the validation that we  
2 undertook for this particular analysis.

3 Q. And after completing this validation, did you use  
4 the LC/MS/MS technology, with the procedures that  
5 you developed, to test for the presence of EDTA  
6 in the samples that were sent to you in this  
7 case?

8 A. Yes, we did.

9 Q. And after all these different types of analyses  
10 that you performed, were you able to reach a  
11 conclusion concerning the presence of EDTA in the  
12 control swabs from Teresa Halbach's RAV4?

13 A. I was.

14 Q. And what was that conclusion?

15 A. We were not able to identify any presence,  
16 whatsoever, of EDTA or the EDTA iron complex on  
17 the controlled swabs, any of the controlled swabs  
18 from the RAV4.

19 Q. After all these different types of analyses that  
20 were performed, were you able to reach a  
21 conclusion concerning the presence of EDTA on the  
22 blood swabs that you tested from Teresa Halbach's  
23 RAV4 that were sent to you in this case?

24 A. Yes, sir. Yes, I was.

25 Q. And what was that conclusion?

1 A. Again, we were not able to identify any  
2 indication of the presence of EDTA or EDTA bound  
3 to iron in any of the swabs that were submitted  
4 to our laboratory that contained blood and were  
5 reported to us as being collected from the RAV4.

6 Q. And after all these different types of analysis  
7 that you performed, were you able to reach a  
8 conclusion concerning the presence of EDTA in the  
9 purple-topped tube that came from Steven Avery?

10 A. Yes, I was.

11 Q. And what is that conclusion?

12 A. That the tube of blood, the purple-stoppered tube  
13 of blood that was reported to have come from  
14 Steven Avery, did indeed contain significant  
15 amounts of EDTA in it.

16 Q. Dr. LeBeau, based upon your training and  
17 experience, and based upon your test results  
18 using the LC/MS/MS technique, and based upon all  
19 the data that you reviewed and all the  
20 compilations that were done in this case, do you  
21 have an opinion, to a reasonable degree of  
22 scientific certainty, whether the bloodstains  
23 from Teresa Halbach's RAV4, that you tested, came  
24 from the vial of blood of Steven Avery that was  
25 in the Manitowoc County Clerk of Court's Office?

1 A. Yes, I do.

2 Q. And what is that opinion?

3 A. It's my opinion that the bloodstains that were  
4 collected from the RAV4 could not have come from  
5 the EDTA tube that was provided to us in this  
6 case.

7 Q. And, therefore, which scenario did your testing  
8 answer in this case?

9 A. Of the scenarios on the board, I think our  
10 results rule out one of those two possibilities.  
11 It would be my opinion that it could not have  
12 been from an EDTA tube.

13 Q. And, therefore, there was no planting of  
14 evidence?

15 ATTORNEY BUTING: Objection, way over  
16 broad.

17 THE COURT: Without any limitation, yes,  
18 sustained. I will sustain the objection. I  
19 think -- I'm sustaining the objection.

20 Q. (By Attorney Gahn)~ In accordance with the two  
21 scenarios that you set out in your thought  
22 process in analyzing this case, did the planting  
23 scenario prove true?

24 A. No, it did not.

25 ATTORNEY GAHN: Thank you. That's all I

1           have.

2                   ATTORNEY BUTING:   A break?

3                   THE COURT:   Yeah.  Members of the jury,  
4           would you like a full break or a stretch break at  
5           this time.  Stretch, is that enough?  Okay.  We'll  
6           take a stretch break at this time.  You may be  
7           seated.

8                   ATTORNEY GAHN:   Before I officially pass  
9           the witness, I guess I would like to just introduce  
10          the exhibit of the report of Dr. LeBeau from the  
11          Crime lab, which has been marked as Exhibit 435.

12   Q.   If you would just identify that.

13   A.   Yes, Exhibit 435 is the laboratory report I  
14          prepared for this case.

15   Q.   And does that contain your findings and  
16          conclusions in this case?

17   A.   It does, yes.

18                   ATTORNEY GAHN:   Thank you.

19                   THE COURT:   Is the State moving for  
20          admission of any exhibits at this time?

21                   ATTORNEY GAHN:   Yes, I would move for  
22          admission of Exhibit 475 to 478, 434 through 437,  
23          and 433.

24                   ATTORNEY BUTING:   No objection.

25                   THE COURT:   Very well, those exhibits are



1 admitted. And, Mr. Buting, you may begin.

2 ATTORNEY BUTING: This PowerPoint isn't an  
3 exhibit, is it?

4 ATTORNEY KRATZ: It is.

5 THE COURT: Which number?

6 ATTORNEY BUTING: I will object to that,  
7 but the others I won't.

8 THE COURT: What number is that?

9 THE CLERK: 466.

10 ATTORNEY FALLON: 465.

11 THE CLERK: 465 is the CD Rom.

12 THE COURT: All right. Do you wish to be  
13 heard, later, outside the presence of the jury?

14 ATTORNEY BUTING: Later.

15 THE COURT: The other uncontested exhibits  
16 are admitted at this time.

17 **CROSS-EXAMINATION**

18 BY ATTORNEY BUTING:

19 Q. Good afternoon, Doctor.

20 A. Good afternoon.

21 Q. I'm sure you're anxious to get back to Virginia  
22 where it's not quite so cold.

23 A. It would be nice, yes.

24 Q. You have your curriculum vitae up there with you?

25 A. Yes, I do.

1 Q. And we had a little bit of talk about your  
2 expertise in drug facilitated rape cases, right?

3 A. That's correct.

4 Q. Also sometimes called GHB drugs, one of those  
5 types of drugs?

6 A. One of the 60 different drugs used, yes.

7 Q. Okay. That's the one that maybe most people have  
8 heard of; it's the one I have heard of, okay.

9 A. Okay.

10 Q. When you are going through your CV you talked  
11 about how you authored or coauthored 15 to 20  
12 articles?

13 A. That's correct.

14 Q. How many of those articles did not involve drug  
15 facilitated rape?

16 A. Seventeen.

17 Q. Okay. And how many of those involved postmortem  
18 fluids, analysis of postmortem fluids; do you  
19 know what I'm talking about, from deceased  
20 bodies?

21 A. Yes, I know what you are talking about. I'm  
22 sorry, did refer to postmortem or did not?

23 Q. Did.

24 A. Okay. I don't know that I can answer that  
25 because -- If I can elaborate?

1 Q. Well, go ahead.

2 A. Well, urine can be a fluid from an autopsy, a  
3 postmortem fluid, or urine can be from a living  
4 person. So an article I published about urine,  
5 it would be hard to say if that's meant to be for  
6 postmortem or living people. The same with  
7 blood. Now, obviously a liver sample or a brain  
8 sample, must be from a deceased individual.

9 Q. Okay. Would you agree or disagree that the  
10 majority of your presentations and the majority  
11 of your publications involve either drug  
12 facilitated sexual assaults or the analysis of  
13 postmortem fluids?

14 A. I would disagree.

15 Q. Okay. You do have some experience in analysis of  
16 postmortem fluids, right?

17 A. I certainly do.

18 Q. You certainly do, yes. And, in fact, one of your  
19 more recent articles you published, holds  
20 yourself out as an expert in the area of  
21 postmortem fluid analysis, does it not?

22 A. I'm now sure I know --

23 Q. Are you --

24 A. -- what article you are referring to.

25 Q. Okay. Are you an expert, do you consider

1           yourself an expert in the analysis of postmortem  
2           fluids?

3    A.    I do, yes.

4    Q.    Okay.  We'll return to that in a moment.  You  
5           also give quite a few presentations.  Just this  
6           year alone, out of -- looks like out of nine --  
7           just one moment, please.  Out of nine times that  
8           you have gone around presenting talks this year,  
9           six of those involve drug facilitated sexual  
10          assaults, right?  In 2006, I'm sorry.

11   A.    Yes, six of the presentations that I gave in 2006  
12          were on the topic of drug facilitated crimes and  
13          drug facilitated sexual assaults.

14   Q.    Okay.  So would you agree with me that that's one  
15          of your real specialties?

16   A.    Yes.

17   Q.    And that's what you are often sought after for,  
18          by conferences?

19   A.    It's an area that I am asked to speak on quite  
20          frequently, yes.

21   Q.    Have you ever, in your life, been asked to give a  
22          presentation on EDTA interpretation in  
23          bloodstains?

24   A.    No, I have not.

25   Q.    You are not sought off -- you are not a sought

1           after presenter on that particular topic, are  
2           you?

3       A.    No, sir, I'm not.

4       Q.    Have you ever before testified, in a court of  
5           law, as an expert who is giving opinions about  
6           the interpretation of EDTA and bloodstains?

7       A.    No.

8       Q.    This jury is privileged to be the first to hear  
9           your wisdom on this topic; isn't that right?

10                   ATTORNEY GAHN:  Objection, your Honor, to  
11           the form of the question.

12                   THE COURT:   I will sustain the objection.

13       Q.    (By Attorney Buting)~ This jury is privileged to  
14           be the first to hear any opinions you have ever  
15           expressed in court on the analysis of EDTA in  
16           bloodstains, correct?

17       A.    I wouldn't say they are privileged, but I would  
18           say that this is certainly the first time I'm  
19           testifying about EDTA in a bloodstain, that's  
20           correct.

21       Q.    And one reason is, this is the first case you  
22           have ever been asked to test -- to test for EDTA  
23           in bloodstains, isn't it?

24       A.    That is correct.

25       Q.    But some of your colleagues at the FBI Laboratory

1           did have the pleasure of testifying on that topic  
2           once before, didn't they?

3    A.    Yes, they did.

4    Q.    In the O.J. Simpson case you mentioned, correct?

5    A.    Yes.

6    Q.    And I believe you said that that, in fact, in 19  
7           -- that's 10 years now, 10 years ago, right?

8    A.    At least 10 years ago, yes.

9    Q.    At least 10 years ago.   Okay.   So in the last 10  
10           years, nobody has come to your lab and asked for  
11           your lab to give us the benefit of your knowledge  
12           and your ability to test for EDTA in bloodstains;  
13           isn't that right?

14   A.    It hasn't happened to me personally, not to my  
15           knowledge.

16   Q.    Okay.   And might that be because your lab screwed  
17           up in the O.J. Simpson case?

18   A.    No, we did not screw up, as you say, in the O.J.  
19           Simpson case.

20   Q.    Well, in the O.J Simpson case, correct me if I'm  
21           wrong, tests that your lab did, found EDTA in a  
22           sock, right?

23   A.    That is correct, yes.

24   Q.    And the defense used your test to help acquit  
25           Mr. Simpson, didn't they?

1 A. Could you repeat that.

2 Q. The defense used your test results in the O.J.  
3 Simpson case, your lab test results, to help  
4 acquit Mr. O.J. Simpson of that crime, didn't  
5 they?

6 A. That I don't know. I have no idea. I wasn't the  
7 one that performed any of the analysis of EDTA,  
8 as I testified to --

9 Q. Sir --

10 A. -- in the O.J. Simpson case. I don't know how --  
11 I don't know that the defense used the results or  
12 the prosecution. I don't recall that.

13 Q. Were you working the FBI Lab during the O.J.  
14 Simpson case?

15 A. Yes, I was. I had been there approximately a  
16 year.

17 Q. And you would have us believe that you weren't  
18 following what was going on with your lab's  
19 testimony in the O.J. Simpson case?

20 A. Actually, while that examiner was testifying, I  
21 was out on my own testimony at a bank robbery  
22 trial in Los Angeles, myself.

23 Q. Ah, so you --

24 A. I couldn't --

25 Q. So --

1 A. I'm sorry, so I couldn't really monitor the  
2 actual testimony in that case.

3 Q. Sure, you couldn't watch it while it was going  
4 on, is what you are saying, right?

5 A. That's correct.

6 Q. And are you telling us that you didn't follow up  
7 afterward, you didn't hear all of the discussion  
8 in the news about your lab's involvement in that  
9 case?

10 A. I heard what the media reported, yes. And I  
11 heard what our own chemist reported.

12 Q. Sure, you talked about it in the lab, didn't you?

13 A. Yes.

14 Q. You sat around the water cooler or the lunch  
15 table and you talked about it, right?

16 A. Yes, we did.

17 Q. And, more than that, shortly after the O.J.  
18 Simpson case, your unit, the chemistry unit of  
19 the FBI was accused of misconduct or malfeasance  
20 of some sort that resulted in an audit by the  
21 Inspector General of the United States of  
22 America; isn't that right?

23 A. No, that's not correct.

24 ATTORNEY GAHN: Objection, your Honor, as  
25 to relevancy.



1 THE COURT: Over --

2 ATTORNEY BUTING: It's foundation.

3 THE COURT: Overruled.

4 Q. (By Attorney Buting)~ Your answer was no?

5 A. No, that's incorrect.

6 Q. Okay. Have you read an inspector general's  
7 report from 1999 that involved an audit of your  
8 unit?

9 A. I have read a portion of the inspector general's  
10 report, that was a report on their audit of the  
11 FBI Laboratory.

12 Q. Okay. And part of that review involved your  
13 unit, the chemistry unit, did it not?

14 A. Not to my recollection. It involved  
15 investigation of one chemist within the unit,  
16 same individual who worked on the FBI -- sorry --  
17 on the O.J. Simpson case. He was specifically  
18 targeted within that investigation; it wasn't our  
19 entire unit.

20 Q. Okay.

21 A. There were units within the FBI --

22 Q. Sure.

23 A. -- laboratory, though, that do chemical analysis  
24 that were looked at as a whole unit, but it was  
25 not the Chemistry Unit to my recollection.

1 Q. Do you know Roger Martz?

2 A. I do, yes.

3 Q. Was he one of your colleagues at the FBI Lab in

4 1997?

5 A. Yes, he was.

6 Q. Did he testify in the O.J. Simpson case?

7 A. Yes, he did.

8 Q. Is he working in your unit any more?

9 A. No, he's retired from the FBI.

10 Q. Took early retirement, huh?

11 A. That would be personnel information that I

12 wouldn't be privy to.

13 Q. Oh, of course. Well, Mr. Martz, if you read that

14 portion of this inspector general's report, was

15 the target of complaints about the performance

16 of -- or about his performance on EDTA testing in

17 the O.J. Simpson case, was he not?

18 A. I believe that Mr. Martz was -- there were a

19 number of allegations made by the individual who

20 made allegations against Mr. Martz. And there

21 were approximately 10 individuals within the

22 whole FBI Laboratory that this Dr. Fred

23 Whitehurst made allegations against. Those

24 individuals were looked at because of these

25 allegations, the inspector general came in and

1           looked into every allegation that was made by Mr.  
2           -- or Dr. Whitehurst.

3   Q.    Sir, I'm going to stop you here for a second.

4   A.    Yes, sir.

5   Q.    Are you telling us now that you read the entire  
6           report?

7   A.    No, as I -- No, sir.

8   Q.    Okay.

9   A.    But I do know the history.

10   Q.   All right. Well, we'll get into it, question by  
11           answer -- question and answer, okay.

12   A.    Yes.

13   Q.    All right. Mr. Martz is one of the esteemed  
14           authors of this Exhibit 436, isn't he?

15   A.    Yes, he is.

16   Q.    In this esteemed publication of the *Journal of*  
17           *Analytic Toxicology*, right?

18   A.    It's the *Journal of Analytical Toxicology* and he  
19           is one of the authors.

20   Q.    Forgive me. He is one of the authors, one of the  
21           four authors of this article upon which you  
22           primarily based your protocol for EDTA testing in  
23           this case, right?

24   A.    That's exactly right, yes, sir.

25   Q.    The other three authors are all FBI employees,

1           aren't they?

2       A.    Yes, they are.

3       Q.    And this -- In fact, this entire article is based  
4           on the protocol that was developed for the O.J.  
5           Simpson case, by the FBI Lab, right?

6       A.    I believe part of it is, but I don't know that  
7           the entire article is based on what was done in  
8           the O.J. Simpson --

9       Q.    Okay.

10      A.    -- case.

11      Q.    Well, the article was written after the O.J. case  
12           was done, right?

13      A.    Approximately two years afterwards.

14      Q.    And the article, in fact, is an effort to explain  
15           to the rest of the scientific world how you guys  
16           screwed up when you tested O.J. Simpson's --

17                   ATTORNEY GAHN:  Objection, your Honor, to  
18           the form of the question and the relevancy of this.

19                   THE COURT:  It's cross-examination, I will  
20           allow the question and I will allow the witness to  
21           explain and answer.

22      A.    Could I get the question again, please?

23      Q.    This article was written by these four agents  
24           from the FBI to explain to the rest of the  
25           scientific world how you guys, your lab, I should

1           say, managed to screw up in the O.J. Simpson  
2           case?

3       A.   Well, that's incorrect, on a number of levels,  
4           sir. First of all, those are not agents at the  
5           FBI Laboratory. The only one that was was Roger  
6           Martz. The others are Ph.D. scientists,  
7           chemists, or Ph.D biologist. That article was  
8           not written as any form of excuse, or  
9           explanation, for what our laboratory for -- in  
10          the O.J. Simpson case.

11                   That was simply a group of researchers  
12          who had the lead, published group lead authors.  
13          Dr. Mark Miller, as well as Dr. Bruce Mccord.  
14          They are not in our case working area at the  
15          laboratory. They never work on cases. They are  
16          in our research unit. They are the lead authors.  
17          They are the ones that did the research. They  
18          are the ones that published it.

19                   It is quite common for those researchers  
20          to give credit to individuals in the case working  
21          units who had the original idea.

22       Q.   Okay. So --

23       A.   So that is why, I'm sure, Mr. Martz's name is on  
24           that article. He had nothing to do with the  
25           actual work done.

1 Q. Oh, really?

2 A. Publication.

3 Q. So these authors, you are telling us that they

4 put Mr. Martz's name on here when he didn't do

5 anything at all to do with this study or this

6 article?

7 A. I believe that to be true.

8 Q. How about Mr. Bruce Bedowle.

9 A. Dr. Bruce Bedowle, he is an expert statistician

10 and at the time was, as I recall, the ranking

11 manager within the research unit. Again, it's a

12 respect thing where you include your supervisor

13 in the list of authors.

14 Q. Okay. Let's talk for a minute about how the

15 protocol was developed for the O.J. Simpson case.

16 All right?

17 A. Yes.

18 Q. Just as in this case, a request was made or

19 efforts were started to create a new type of

20 test, mid-trial, right?

21 A. Well, again, sir, I didn't do the testing in the

22 O.J. Simpson trial. I don't have all the

23 intimate details as to what conversations

24 occurred, when the request came in. I was a

25 newly qualified examiner in the FBI Laboratory.

1 I had been there approximately a year. So I  
2 don't have knowledge about the intimate details  
3 that you are asking there.

4 Q. Well, I didn't realize I was asking intimate  
5 details, but let's rephrase it so I'm not,  
6 clearly. Was the protocol used in the O.J.  
7 Simpson case in existence in the FBI Lab before  
8 that trial began?

9 A. Not to my knowledge, it was not.

10 Q. It was developed in a hurry while the trial was  
11 going -- ongoing, right?

12 A. I don't know when they started to develop the  
13 pro --

14 Q. How long did it take to develop the --

15 A. -- protocol.

16 Q. How long did it take to develop the protocol in  
17 the O.J. Simpson case?

18 A. I don't know.

19 Q. Okay. Well, Exhibit 437, *Determining EDTA in*  
20 *Blood*, another scholarly article you refer to,  
21 right?

22 A. Yes, it is.

23 Q. Respected in the field?

24 A. Yes, it is.

25 Q. By two authors, at that time associated with

1           Cornell University, right?

2       A.    That's correct.

3       Q.    And they talked about, and part of this article  
4           talks about, the FBI Lab experience in developing  
5           the protocol for testing EDTA in bloodstains,  
6           that was used in the O.J. Simpson case, right?

7       A.    I would have to review the article again to  
8           answer that question.

9       Q.    Are you serious, you don't know what this says?  
10          You don't know if this refers to the O.J. Simpson  
11          case?

12      A.    Yes, I am serious.  And I asked to review the  
13          portion that you are referring to.

14      Q.    Go right ahead.  It's on the first page, Doctor.

15      A.    What was your question, again?

16      Q.    Does that refresh your recollection?

17      A.    Yes.

18      Q.    And do these authors say, quote, What was wrong  
19          with the laboratory testing?  First, it was not  
20          clear whether the method had ever been used  
21          before.  Most likely the method was developed  
22          quickly, under a great deal of time pressure.  In  
23          retrospect, FBI chemists now believe that the  
24          EDTA detected may have been injection carryover  
25          in the LC/MS/MS instrumentation; do you recall



1 reading that?

2 A. I do. I can't verify that that's it. You said  
3 quote, I can't verify that, but it sounds like  
4 the context is very much what I recall reading in  
5 that --

6 Q. Okay.

7 A. -- paragraph.

8 Q. Okay. So these authors pointed out that the FBI  
9 effort to develop a protocol for testing EDTA in  
10 bloodstains for the O.J. Simpson case was  
11 hurried?

12 A. No, sir, they said it appeared to have been  
13 hurried. Those authors were not present in our  
14 laboratory when that method was developed. I  
15 know that to be a fact.

16 Q. Okay. So you would like to criticize these  
17 authors --

18 A. No.

19 Q. -- this publication, now?

20 A. No, sir. The portion of that article that we  
21 relied upon was the scientific portion, not the  
22 narrative.

23 Q. Well --

24 A. It's the science within the latter portion of the  
25 article refers to the use of an instrumental

1           technique called capillary electrophoresis, mass  
2           spectrometry, mass spectrometry. Again it's a  
3           technique --

4   Q.    Sir --

5   A.    -- that analyzed for EDTA.

6           ATTORNEY BUTING: May I ask a question?  
7           This is cross-examination, Judge.

8           THE WITNESS: I thought I was responding.

9           ATTORNEY BUTING: No, you're not.

10          THE COURT: Well, the answer goes a little  
11          bit beyond what the question was, so.

12   Q.    (By Attorney Buting)~ So --

13          THE COURT: Mr. Buting.

14   Q.    (By Attorney Buting)~ Okay. So, Exhibit 437 that  
15          you considered, that you offered here on direct  
16          as one of only two publications that you  
17          considered while developing this protocol, you  
18          say that you considered the portion of science in  
19          the latter part of it, but you ignored the  
20          portion in the narrative at the beginning that  
21          criticized the hurried nature of the development  
22          of a protocol; is that right?

23   A.    Yes, that's correct. It was irrelevant in my  
24          opinion.

25   Q.    And you know why -- Well, let me ask it this way.

1           It was irrelevant to you because, in this case,  
2           you were under a time crunch, weren't you?

3   A.   Yes, I was.

4   Q.   Let's talk about that.  Oh, and by the way, just  
5           to make it absolutely clear, these two  
6           publications that you referred to, Exhibit 436  
7           and 437, were both published in 1997, right?

8   A.   Yes, they were.

9   Q.   And both of them discuss the use of an EDTA test  
10          in the O.J. Simpson case, right?

11  A.   Yes, they do.

12  Q.   And they don't discuss the use of an EDTA test in  
13          any other case, right?

14  A.   No, they don't.

15  Q.   Because, as a matter of fact, no one has ever  
16          presented to any jury, anywhere, not just you, no  
17          one has ever presented a test for EDTA in  
18          bloodstains in a criminal trial before, other  
19          than the O.J. Simpson case?

20  A.   I don't know that that's true.

21  Q.   Can you tell me another case in this country  
22          where an expert has gotten up in court and  
23          expressed an opinion that they are able to  
24          determine the presence or lack of EDTA, in a  
25          bloodstain, in a criminal jury trial?

1 A. No, I can't, but I don't know that it's true that  
2 it hasn't happened. I haven't done a search of  
3 the legal system to make that determination.

4 Q. Oh, really?

5 A. Really.

6 Q. So when you were asked to develop a protocol in  
7 this case, are you telling us, then, that you  
8 didn't search the public domain to see if maybe  
9 someone else had already invented the wheel?

10 A. I searched the scientific literature, as I  
11 indicated earlier, to see if there were published  
12 methods in peer review journals that are  
13 scientifically sound, in order to base my method  
14 upon. I didn't search the so-called public  
15 domain for such a method.

16 Q. Okay. But in any event, you found no other  
17 reference in any other scientific journal across  
18 whatever disciplines there may be, you found no  
19 other reference to any other case or instance  
20 where a jury had been presented an expert opinion  
21 by somebody who says that they can determine  
22 whether or not EDTA exists in a bloodstain,  
23 correct?

24 A. Again, I did not search, like, legal proceedings.

25 Q. Perhaps my question was too long. Let's break it

1 down. You searched the entire scientific domain  
2 of research articles, right?

3 A. Yes, I did.

4 Q. And in that entire search, I'm talking not just  
5 chemistry, but any kind of forensic science  
6 journals, right? You looked at those?

7 A. Yes, I did.

8 Q. Okay. Any kind of physics journals, or whatever?

9 A. I didn't look at physics journals.

10 Q. Whatever scientific domain you looked at, you  
11 found no other case where anyone had done what  
12 you are doing here today and come into court and  
13 presented an opinion about whether you can  
14 determine EDTA in a bloodstain other than the O.  
15 J. Simpson case; correct?

16 A. That's correct.

17 Q. All right. Now, you were first contacted by  
18 someone on the prosecution team in this case in  
19 December, late December, of 2006, correct?

20 A. That's correct.

21 Q. Let me go back. I'm sorry, I need to clear up  
22 one thing in this Exhibit 437 to 436, the FBI --  
23 I will bring it back to you. Because we talked  
24 about carryover, right?

25 A. Yes, we did.

1 Q. And the authors of that particular study  
2 apparently believe that carryover explained why  
3 they were -- why they found any kind of EDTA in  
4 Mr. O.J. Simpson's sock, right?

5 A. Again, I don't recall that specific detail being  
6 in this paper. I think, yes, they talked about  
7 carryover as being a problem in the O.J. Simpson  
8 case. I don't know if that was with a sock, or  
9 if it was the bloodstain itself, or a swab, or --

10 Q. All right.

11 A. -- or what the evidentiary --

12 Q. That's fair.

13 A. -- material was.

14 Q. That's fair. I don't expect you to remember the  
15 particular evidentiary item. But you understand,  
16 though, that the conclusion was that carryover  
17 was the result of the EDTA reading. EDTA  
18 positive came from carryover, right?

19 A. There was a small signal for EDTA, as I recall,  
20 that was attributed to a previous injection of  
21 EDTA; again, carrying over into a future  
22 injection.

23 Q. All right. So, then, if carryover explained that  
24 small signal of EDTA in whatever piece of  
25 evidence that was in Mr. Simpson's case, then, in

1 fact, there may not have been any EDTA in that  
2 piece of evidence, right?

3 A. That's correct, yes.

4 Q. And, then, if there was not EDTA in that piece of  
5 evidence, when the FBI concluded that there was,  
6 then the FBI lab was wrong in that case, right?

7 A. I don't know that the FBI Laboratory concluded  
8 that there was EDTA in that case. Again, I never  
9 read the report that was issued in the O.J.  
10 Simpson case. I didn't do the work myself. I  
11 don't know what the actual report was. And I  
12 don't know that they claimed there was a  
13 significant amount of EDTA.

14 Q. All right. Well, let me ask it this way. Either  
15 the protocol that was used in that case was  
16 faulty, or the work performed was faulty, in  
17 order for there to be this report of a finding of  
18 EDTA on the evidence sample, right?

19 A. No, I disagree.

20 Q. Well, which is it?

21 A. Well, if I can elaborate?

22 Q. If you would like to, go right ahead.

23 A. Okay. What I believe is that the method was not  
24 well validated, quite frankly.

25 Q. All right.

1 A. That's my understanding.

2 Q. Okay. I will accept that.

3 THE COURT: Mr. Buting, I think I'm going  
4 to stop you there.

5 ATTORNEY BUTING: Okay. I see it's 2:30.

6 THE COURT: It is 2:30. So members of the  
7 jury we'll take our break at this time. I will  
8 remind you again, as usual, not to discuss the case  
9 during the break.

10 (Jury not present.)

11 THE COURT: You may be seated. Counsel, I  
12 will ask you to report back at quarter to three.

13 ATTORNEY BUTING: Okay.

14 (Recess taken.)

15 THE COURT: Mr. Buting, you may resume.

16 ATTORNEY BUTING: Thank you, your Honor.

17 **CROSS-EXAMINATION, CONTD.**

18 BY ATTORNEY BUTING:

19 Q. Okay. Now, sir you were first contacted by  
20 somebody from the prosecution team in late  
21 December of 2006, right?

22 A. If I could correct some testimony I made earlier;  
23 I realized I made an error. And then I can  
24 answer your question; is that all right?

25 Q. Well, we can wait for redirect, but -- what -- Is



1           it on one of the articles that you were referring  
2           to?

3       A.    It was in response to one of your questions.

4       Q.    And what was it?

5       A.    You asked me earlier, as I recall, if both these  
6           articles referred to the testing in the O.J.  
7           Simpson case.  And during the break I reviewed  
8           the article from the Journal of Analytical  
9           Chem -- Toxicology and realized that I had  
10          mistakenly agreed with your statement.  This  
11          article does not refer to the O.J. Simpson case.  
12          So I wanted to set that -- the record straight.

13      Q.    Oh.  Okay.  Well, let's -- let's just, for a  
14           couple minutes, follow up on that.  This article  
15           is written, though, by four FBI employees, right?

16      A.    Yes, it is.

17      Q.    Including Mr. Martz, right?

18      A.    Yes.  I'm not changing my testimony on that, sir.

19      Q.    Okay.  Who testified in the O.J. Simpson case,  
20           right?

21      A.    Mr. Martz.

22      Q.    And the article discusses the test on a sock; is  
23           that right?

24      A.    You will have to show me that, sir, I couldn't  
25           find it in that article.

1 Q. Let me see if I can find it in mine. I'm going  
2 to have Mr. Strang take a moment and look at it  
3 and then we can move on and not bore the jury,  
4 okay?

5 A. Yes, sir.

6 Q. All right. He's quicker than I am. If you would  
7 take a minute and look at page 526, begin with  
8 the circling of the word, but that will help  
9 refresh your recollection.

10 A. Okay. The word "a sock" is circled, but there is  
11 no reference to the O.J. Simpson case. And as I  
12 -- I said, I agreed with your statement that it  
13 referred to evidence in the O.J. Simpson case and  
14 I need to withdraw that agreement because it --  
15 to set the record straight.

16 Q. Well, do you know of any other case in the  
17 mid-nineties when the FBI testified about EDTA on  
18 some sock? Yes or no? Do you know of any other?

19 A. No.

20 Q. No, right?

21 A. No.

22 Q. Okay. And maybe just so the jury is a little bit  
23 -- can understand your concerns about your  
24 testimony being accurate, there's something  
25 called a court testimony monitoring practice that

1 the FBI is engaged in, right?

2 A. That's correct.

3 Q. And the FBI, at least for the last number of  
4 years, has a practice of following up what their  
5 agents or lab people testify when they come to  
6 court, right?

7 A. That's correct.

8 Q. And what you say here today, to this jury, could  
9 be followed up and reviewed by your supervisor?

10 A. That's right. Our testimonies are reviewed as  
11 part of our accrediting body's requirement.

12 Q. And so you want to be absolutely sure that you  
13 don't say something that may be construed  
14 negative about the bureau, by your supervisors,  
15 unless it's true, right?

16 A. Sir, I just want to make sure I'm telling the  
17 truth if I'm under oath.

18 Q. All right. If I can return, my question was,  
19 that you were first contacted by somebody in the  
20 prosecution team in late, very late December of  
21 2006, right?

22 A. Yes, sir.

23 Q. Approximately two months ago, correct?

24 A. Approximately two and a half months ago.

25 Q. All right. And that was the first you had ever

1           heard about this case, or was it?

2       A.    Yes, it was the first I had heard of this case.

3       Q.    And as you thought about, well, geez, what can I  
4           do here, to do this test, you thought maybe an  
5           LC/MS/MS instrument might be an appropriate  
6           instrument to try and run a test for this  
7           particular chemical; is that fair?

8       A.    Not in December of 2006.

9       Q.    All right. Let me move forward, just make it a  
10          little broader, then. As you later committed to  
11          do a protocol or test in this case, you thought  
12          about that particular instrument, right?

13      A.    Yes.

14      Q.    And that instrument, as you said, has been used  
15          for decades, right?

16      A.    Yes.

17      Q.    It has commercial applications?

18      A.    Yes, it does.

19      Q.    So, for instance, the petroleum industry may use  
20          it to determine the, you know, chemical  
21          compositions of products that they are putting  
22          out?

23      A.    Perhaps.

24      Q.    Pharmaceuticals I think you mentioned. One of  
25          the things that they have to do is make sure

1           that, according to FDA regulations, that the  
2           drugs that they are marketing contain the  
3           chemical makeup that they represent, right?

4       A.    The pharmaceutical industry does use LC/MS and  
5           LC/MS/MS techniques.

6       Q.    Sure.  And they use it for all kinds of reasons  
7           including testing how long their drugs may last,  
8           right?

9       A.    Generally, no, they tend to use the LC/MS and  
10          LC/MS/MS for metabolite studies and looking for  
11          what the body converts these drugs into to  
12          monitor.

13      Q.    I see.  Okay.

14      A.    Studies that are done.

15      Q.    So they are looking -- They use the instrument to  
16          see if -- how the drug breaks down into some  
17          other metabolite, you say, right?

18      A.    That's exactly right.

19      Q.    And they want to be sure that there's not side  
20          affects, that this drug breaks down into  
21          something that might be toxic, for instance,  
22          right?

23      A.    That be might one -- one thing that they are  
24          looking for, yes.

25      Q.    And they are looking to see that the drugs don't

1 break down too quickly, or they are just trying  
2 to find out how quickly the drug will break down,  
3 for one thing, right?

4 A. That's part of it, yes.

5 Q. Expiration dates, that's what the whole point of  
6 having those kinds of things on drug labels and  
7 what not, right?

8 A. Well, I don't know that they are studying it for  
9 expiration dates. Again, they are studying it  
10 for metabolites, what the body is converting it  
11 into. Shelf life, which I believe you were  
12 referring to there, is a completely separate  
13 issue.

14 Q. Okay. But that's an issue as well, that they  
15 want to make sure that their drugs are, you know,  
16 working long enough to be effective; in other  
17 words, someone doesn't take a drug out of their  
18 medicine cabinet five years later and it's no  
19 longer -- it's way past the expiration date or  
20 something?

21 A. And for some drugs they may need to do that, to  
22 verify that it's -- it's stable.

23 Q. Okay. So you settled on this particular  
24 instrument but, before you got there, the person  
25 you spoke to was Mr. Gahn, correct?

1 A. That is correct, yes.

2 Q. And what you told him in December, when he asked  
3 if you could run a test to see if there was EDTA  
4 in a bloodstain, was that it would take you three  
5 to four months before you would be able to get  
6 him any results, right?

7 A. Yes, that's what I told him.

8 Q. Okay. And that that was, in part, because you  
9 knew that you would -- it had been so long since  
10 the O.J. case, the last time your lab had done  
11 this kind of a test, that you would need to  
12 develop or retest some protocol, right?

13 A. That we would need to validate the protocol in  
14 order to use it.

15 Q. Sure. And that you would have to, in order to do  
16 that, go through a number of tests and what not  
17 in order to satisfy the validation process that  
18 you thought was necessary, right?

19 A. That's exactly right, yes.

20 Q. And so you told them about three to four months?

21 A. That's the standard estimate I give. When we --  
22 we're asked if we can develop a new method, my  
23 standard response is three to four months and  
24 that's what I recall responding to Mr. Gahn's  
25 request.

1 Q. Okay. So when you say you get these non-routine  
2 cases and you are asked to develop these  
3 protocols, typically it takes three to four  
4 months?

5 A. It depends, quite honestly.

6 Q. But that's the standard answer you give?

7 A. It's the standard answer.

8 Q. Okay. And he asked you -- he told you, well,  
9 that was not going to work with the trial date  
10 that was set in this case, right?

11 A. He relayed to me that there was an upcoming trial  
12 date and indicated that they may need the results  
13 faster in order for it to be used in this case.

14 Q. Okay. And yet, in that discussion with Mr. Gahn,  
15 you still could not promise to do anything  
16 quicker than three to four months, right?

17 A. In my recollection, at the time was, I actually  
18 suggested that they try to find another  
19 laboratory to do the analysis. That was my  
20 initial response because we had the holidays  
21 coming up, this was right before Christmas. And  
22 most of my staff is gone for -- at the end of the  
23 year, we lose our leave if we don't take off and  
24 use it.

25 So, you know, realistically, looking at



1           the scenario we were represented with, I thought  
2           three to four months was probably a fair  
3           estimate. And the other thing we always have to  
4           keep in mind, that we're the primary federal law  
5           enforcement investigative body. So if a bomb  
6           goes off, if there's a terrorist attack --

7   Q.   Sir --

8   A.   There's --

9   Q.   Excuse me. We would like to get you back to  
10       Virginia some time soon so. The question didn't  
11       require that long an answer. If you would just  
12       try and focus on the questions and give us some  
13       answers.

14   A.   I was trying to, sir, I'm sorry.

15   Q.   Okay. And if you need to you, I mean, you will  
16       have an opportunity with Mr. Gahn, you can  
17       elaborate your answers and explain them further.  
18       And if I cut you off and it's unfair, just tell  
19       me, okay.

20   A.   Yes, sir, I will.

21   Q.   All right. Thank you. So, you gave Mr. Gahn the  
22       standard response. Then, in January, you were  
23       contacted again by someone else, about this case,  
24       to see if you could do something a little  
25       quicker, right?

1 A. I was, yes.

2 Q. And that was the FBI office or -- Who was that,

3 U.S. Attorney's Office, or what?

4 A. It was our local FBI Office.

5 Q. In Milwaukee?

6 A. Green Bay.

7 Q. Green Bay, okay. And after speaking with them

8 and learning something about the case and the

9 trial date that was starting February 5th, you

10 said, oh, well, I think we can do it faster than

11 that, right?

12 A. No, sir.

13 Q. You didn't?

14 A. No.

15 Q. Did you say you would try to do it faster; is

16 that the difference?

17 A. I told the agent that called me from our field

18 office in Green Bay, I explained to him that I

19 had had numerous conversations with Mr. Gahn and

20 I had agreed that we would accept the evidence

21 and analyze it for this case, after we had

22 developed a method and validated that method.

23 Q. Okay. But you told Mr. Gahn, or you told this

24 FBI agent in Green Bay, that you thought you

25 would be able to do all of that while the trial

1           was going on and you would be able to get results  
2           by the end of the trial, right?

3       A.   No, sir.  I told him that we would do our best to  
4           get the work completed in the time requirements  
5           that were needed.

6       Q.   Okay.  And you knew that those time requirements  
7           were that it's, what, early March now, you knew  
8           that you were going to have to get something in  
9           probably by around the end of February, right?

10      A.   I believe the deadline we were given was,  
11           essentially this week, to have the actual results  
12           in.

13      Q.   Okay.  Actually, March 9th, I think, right?

14      A.   That sounds familiar, yes.

15      Q.   Okay.  So you beat the deadline, right?

16      A.   We did, yes.

17      Q.   Because your actual report is dated  
18           February 26th?

19      A.   That's correct.

20      Q.   Now, you testified about why the FBI would have  
21           any interest in this case in the first place, do  
22           you recall that, with Mr. Gahn?

23      A.   Yes, I do.

24      Q.   You said that, oh, the FBI has this -- has a  
25           concern about public corruption, correct?

1 A. It's one of the types of investigations that we  
2 have a classification for within the FBI, yes.

3 Q. Sure, you have agents that go around and do  
4 investigations when there is allegations of  
5 public corruption, right?

6 A. That's correct, yes.

7 Q. It's not just your chemistry unit that gets  
8 involved, right?

9 A. Of course not. Of course not.

10 Q. You tell me, now you knew this case, by the way,  
11 was charged against Mr. Avery in November of  
12 2005, 16 months ago, approximately, okay. Are  
13 you aware of that?

14 A. That the charges were made then?

15 Q. Yes.

16 A. I don't know when the charges were made, sir.

17 Q. Well, you looked at these swabs that you were  
18 testing, right, and they had some dates on them?

19 A. Yes.

20 Q. Some of those dates were November of 2005, right?

21 A. That's correct.

22 Q. So you knew that Mr. Avery must have been charged  
23 by that time.

24 A. No, sir, I just knew that's when the date that  
25 indicated the specimens were collected. I don't

1           have any knowledge of when charges were made.

2       Q.    Okay.  In any event, can you tell me what  
3           investigation was started by the FBI to  
4           investigate allegations that Mr. Avery made, upon  
5           his arrest, publicly, that the police had planted  
6           his blood in Teresa Halbach's car?

7       A.    I have no knowledge of an investigation.

8       Q.    In fact there was none, was there?

9       A.    I have no knowledge of it --

10      Q.    Okay.

11      A.    -- whether there was or was not.

12      Q.    Can you tell me when the U.S. attorney convened a  
13           grand jury investigation to investigate  
14           allegations of public corruption made by  
15           Mr. Avery, against police officers, in this case?

16      A.    I have no knowledge of whether or not they did  
17           it.

18      Q.    Okay.  And can you tell me when any members, any  
19           agents from the FBI spoke to Lieutenant Lenk,  
20           Lieutenant Colborn, or any other person involved  
21           in the investigation of this case?

22      A.    Sir, I'm a scientist; I'm not a law enforcement  
23           officer, I have no knowledge of anything of that  
24           nature.

25      Q.    Now, you were trying to find out in your test

1 simply whether or not there was a corrupt,  
2 dishonest, criminal cop who planted evidence to  
3 frame Mr. Avery is one scenario, right?

4 ATTORNEY GAHN: I'm going to object, your  
5 Honor. I don't believe that was his testimony.

6 ATTORNEY BUTING: I can rephrase it, it's a  
7 little cumbersome.

8 THE COURT: Go ahead.

9 Q. (By Attorney Buting)~ You testified, one of the  
10 FBI's concerns was, that if there was a corrupt  
11 cop on the street and doing something illegal,  
12 and certainly planting evidence to frame somebody  
13 would be illegal, right? Would you agree with  
14 me?

15 A. Yes, I would.

16 Q. Okay. And that one of the functions of the FBI  
17 was to ferret out bad cops like that, right?

18 A. Generally, that's what I -- Yes --

19 Q. Okay.

20 A. Generally --

21 Q. Okay.

22 A. -- that's what I said, yes.

23 Q. And so what the FBI was asked to do in this case,  
24 then, was to find out if there was evidence that  
25 would point towards someone planting the

1 evidence, against Mr. Avery, as he has said,  
2 police officers, right; that was one scenario  
3 that you were looking into?

4 A. That's correct.

5 Q. Or whether or not perhaps Mr. Avery was just full  
6 of hot hair and making this up, right?

7 A. No, sir, I wouldn't say that that was the other  
8 scenario. The other scenario was whether that  
9 blood came from active bleeding --

10 Q. All right.

11 A. -- as opposed to from that tube of EDTA preserved  
12 blood.

13 Q. All right. I didn't -- Don't let me put words in  
14 your mouth then, but those were the two  
15 scenarios. And as far as you were concerned,  
16 you're an objective chemist, you didn't care  
17 which way it came down; is that your testimony?

18 A. That's absolutely my testimony.

19 Q. And that's the position of the FBI, your boss, I  
20 mean, your organization that you work for, they  
21 were taking an objective and independent view, in  
22 this case, and didn't care which way it came  
23 down, in that analysis; is that right?

24 A. Well, I can't speak for any of my bosses. I'm  
25 here testifying for myself. And that is my view

1 of it, yes, I could care less as to what the  
2 results are, quite frankly.

3 Q. I'm going to show you what's been marked as  
4 Exhibit 479 and see if you can identify that for  
5 us, please. I'm going to substitute a copy  
6 later, so it's really just the first few pages  
7 we're concerned about. The chain of custody  
8 isn't at issue here.

9 A. Okay. The first few pages are a copy of the  
10 internal communication that the FBI uses to  
11 essentially write memos between field offices and  
12 divisions within the FBI. And this is the  
13 specific request that was sent in to me for  
14 analysis in this particular case.

15 Q. Okay. And did you read the sentence on top of  
16 page two that discusses the purpose of this  
17 request for your services?

18 A. The purpose of this request is to establish the  
19 presence of EDTA in the vial of blood, thereby  
20 eliminating the allegation that this vial was  
21 used to plant evidence.

22 Q. Okay. Can you show me anywhere in there where  
23 that request says our purpose is also to find out  
24 if there might be any evidence that there's a  
25 corrupt cop in Manitowoc County.



1 A. No, I don't see anything of that nature.

2 Q. Okay.

3 A. But I can elaborate if you like.

4 Q. So, the purpose of your -- of the FBI's request  
5 of your laboratory, to get involved in this case,  
6 the state crime -- Let me step back for a second.  
7 The FBI generally is a law enforcement branch for  
8 federal crimes, correct?

9 A. That's correct.

10 Q. You don't typically get involved in run of the  
11 mill state crimes, do you?

12 A. That's incorrect.

13 Q. Well, unless someone brings you in from the state  
14 level, for some particular reason, it's not  
15 normally the kind of a case where you take  
16 jurisdiction, is it?

17 A. Forty percent of the cases that we work in my  
18 unit come from state and local investigations.  
19 So I would say it's a significant number.

20 Q. Is homicide of a citizen in the State of  
21 Wisconsin a federal crime?

22 A. No, sir, it's not.

23 Q. Okay. Is mutilation of a corpse in the State of  
24 Wisconsin a federal crime?

25 A. No.

1 Q. Okay. So, the purpose of you getting your  
2 federal agency involved in this state crime was  
3 to eliminate the allegation that this vial was  
4 used to plant evidence; isn't that true?

5 A. No, sir. If I can elaborate, I will be happy to  
6 explain.

7 Q. You can elaborate later, sir. Now, the protocol  
8 that you developed for this case, this test, all  
9 right, you began to develop around the beginning  
10 of February, February 1st, something like that?

11 A. I believe we began the actual method validation  
12 on -- at the very end of January, perhaps the  
13 very last day of January.

14 Q. All right. So January 31st, let's say, okay.  
15 The protocol was completed on February 14th?

16 A. That's correct.

17 Q. About two weeks, right?

18 A. Let me correct that, the protocol was issued --

19 Q. I said completed. I will get to the differences  
20 in a second.

21 A. The protocol was completed and issued on  
22 February 15th.

23 Q. Okay. Was issued on the 15th, but it was  
24 actually completed on the 14th, other than a  
25 review process still, right?

1 A. Well, it's not technically complete until it  
2 passes the review process.

3 Q. Okay. And this so-called validation studies, or  
4 whatever you told us was ongoing, that was done  
5 by February 14, right?

6 A. Can I refer to my notes?

7 Q. Sure.

8 A. I believe the last validation test was performed  
9 on February 13th.

10 Q. Okay. Thank you. So February 13th. So, really,  
11 14 days, then, if you started on the 31st of  
12 January, right.

13 A. Yes, 14 days.

14 Q. Okay. But as you said, it's not complete unless  
15 it goes through an approval process, right?

16 A. That's correct.

17 Q. And the approval process, in your instance, I  
18 think you said -- I'm not sure if you did say,  
19 actually. But I think you did, yes, you said you  
20 had another scientist look at it?

21 A. Which part are you referring to, sir?

22 Q. Well, between February 13th and February 15th,  
23 did you have somebody else look at this protocol  
24 before it was issued?

25 A. Yes, I did.

1 Q. A who was that?

2 A. I had -- Well, if I can clarify things, I had  
3 another scientist review all of the validation  
4 data --

5 Q. Okay.

6 A. -- before the protocol was issued.

7 Q. Who was that?

8 A. Madeline Montgomery.

9 Q. And is Madeline Montgomery in some independent  
10 lab?

11 A. No, she's within the FBI Laboratory, Chemistry  
12 Unit.

13 Q. And she's in the very same Chemistry Unit as  
14 yourself?

15 A. Yes, she is.

16 Q. Okay. Anybody else?

17 A. Reviewing the validation data, only the chemist  
18 that did the actual work.

19 Q. And that wouldn't count for your approval  
20 purposes, you have to have somebody else take a  
21 look at this, right?

22 A. No, sir, I mean, the first person that does the  
23 work has to, of course, review it and verify all  
24 of the data is correct. So that's your first  
25 level review. Then you follow that up with a

1           second level review by an independent person and  
2           who wasn't involved in the study at all. And I  
3           always assign that to a supervisory chemist  
4           within the unit, someone with more experience,  
5           etcetera.

6   Q.    Okay. Someone in your unit, though, right?

7   A.    It has to be done in the same unit in which they  
8           are qualified to do the work. We couldn't get it  
9           to a DNA examiner --

10  Q.    Sure.

11  A.    -- they are not a chemist.

12  Q.    Of course. Anybody else look at this validation  
13           data, besides yourself and Ms Montgomery and the  
14           technician who ran it?

15  A.    I don't believe so.

16  Q.    Okay. Well, I believe we learned a little bit  
17           earlier, before the break, that the FBI has  
18           something called a forensics science research  
19           division, don't they?

20  A.    Yes, they do, they have a research unit.

21  Q.    And, in fact, that's where you said Mr. Miller  
22           and Mr. McCord were working. It's called the  
23           Forensic Science Research and Training Center,  
24           right?

25  A.    That's correct.

1 Q. And these people don't work on cases?

2 A. No, they do not.

3 Q. They just do research, right?

4 A. They do long term research, primarily.

5 Q. And that includes developing protocols for new

6 types of tests, right.

7 A. Not in recent years, no. Most of those duties

8 fall back to the case working units. As I

9 indicated --

10 Q. Oh, really? You don't -- These are scientists

11 who are doing research, but you don't have them

12 ever look at your new protocols; you let the

13 caseworkers do that?

14 A. Yes, I mean, I think in this instance, the people

15 that work under me are more qualified to look at

16 this particular type of an analysis. The

17 research unit these days are heavily focused in

18 dealing with homeland security issues. They

19 would not have the time to review this type of

20 material.

21 Q. Well, you didn't think you had the time either,

22 initially, right?

23 A. That's correct. But I can make myself make the

24 time; I can't make them make the time.

25 Q. Just so we're clear, then, you did not have any

1           scientist researcher from the FBI Forensic  
2           Science Research and Training Center review your  
3           validation data or the protocol that you used in  
4           this case, before using it in Mr. Avery's case,  
5           right?

6   A.   That's correct.

7   Q.   Okay.  This Madeline Montgomery, that's in your  
8           unit?

9   A.   Yes, she is.

10  Q.   She's the one you said you had independently  
11          review the validation data?

12  A.   Yes.

13  Q.   Does she report to you?

14  A.   Yes, she does.

15  Q.   Do you review her work?

16  A.   Yes, I do.

17  Q.   Do you decide her raises and promotions?

18  A.   I do, yes.

19  Q.   Okay.  And that's your idea of an independent  
20          scientist?

21  A.   Absolutely.  We train our scientists to be  
22          unbiased.

23  Q.   Actually, while I'm on that, you talked about how  
24          peer review is done for articles that get  
25          published in scientific journals, right?

1 A. Yes, that's correct.

2 Q. And that before anything gets put into some sort  
3 of publication that has any reputation  
4 worthwhile, the editor takes it from the author,  
5 the manuscript from the author, and finds some  
6 other scientist to review it?

7 A. Yes, that's correct. Qualified scientist, based  
8 on the editor's opinion.

9 Q. Right. And you say that that's done blindly, so  
10 that, you know, there is no bias involved by the  
11 reviewers, right?

12 A. That's exactly right.

13 Q. And that's important in order to be fair and make  
14 sure that you can weed out any kind of bias that  
15 one individual may have, either for or against  
16 another.

17 A. Yes, I believe that's true.

18 Q. But you didn't have Ms Montgomery or Mr. -- or  
19 the technician who did this case, run through  
20 these tests in a blind fashion, did you?

21 A. Not blind specifically for the evidence in the  
22 case, but we did do some blind testing before we  
23 issued the protocol.

24 Q. And the protocol, just so we're clear, it  
25 wasn't -- didn't grow out of any kind of ongoing



1 research project that you were doing in your lab,  
2 right?

3 A. That's correct, it was based on the publication,  
4 as I indicated earlier.

5 Q. No, no, no. What I'm saying is, it didn't grow  
6 out of, it didn't develop because of some ongoing  
7 project separate from Mr. Avery's case?

8 A. No, no, no. It was -- The protocol was validated  
9 and reviewed and put into use specifically for  
10 this case.

11 Q. And only this case, so far, right?

12 A. So far, yes.

13 Q. Okay. And as you say, the data stuff was done on  
14 the 13th of February and it was issued on the  
15 15th, right?

16 A. Which --

17 Q. The protocol.

18 A. -- data stuff? I'm sorry?

19 Q. You said that all of the data acquisition,  
20 however that was being done by these  
21 validation -- what you call validation tests, was  
22 completed on the 13th, right?

23 A. The validation work was completed -- the last day  
24 of the validation was the 13th of February.

25 Q. And it was formally issued and adopted by your

1           laboratory on the 15th of February, right?

2   A.    Yes, it was.

3   Q.    Of this year, 2007?

4   A.    Yes, that's correct.

5   Q.    Okay. And in order to get to that point where

6           it's actually issued, that -- that constitutes an

7           approval process, right?

8   A.    Absolutely, it does.

9   Q.    And that approval process, by your own protocols

10          with the FBI, requires approval by the unit

11          chief, right?

12   A.    That's correct.

13   Q.    As well as someone else, right?

14   A.    As well as the unit chief over our Quality

15          Assurance Unit, which is an independent unit that

16          oversees all quality within the laboratory.

17   Q.    Now, in this case, you are the unit chief?

18   A.    I'm the unit chief of the Chemistry Unit, but --

19   Q.    Right.

20   A.    -- not the Quality Assurance Unit.

21   Q.    So in the protocol, the chain of how these things

22          are supposed to be approved -- By the way, this

23          whole approval process, is part of quality

24          assurance, right?

25   A.    That's exactly right.

1 Q. And the idea is, we want to get some other eyes  
2 looking at this to make sure that it's -- that  
3 it's, you know, the protocols have been followed  
4 and that this is valid science, right?

5 A. That's right.

6 Q. Okay.

7 A. And other scientists review the procedure before  
8 it's issued.

9 Q. Right. Now, in your case, though, one of those  
10 steps was really sort of skipped because you were  
11 involved doing the development of the protocol,  
12 right?

13 A. No, sir, not at all.

14 Q. Oh, so you just reviewed yourself?

15 A. No.

16 Q. You graded yourself?

17 A. No.

18 Q. Did you find another unit chief besides the  
19 quality assurance person?

20 A. No, as I indicated, the review is done by another  
21 scientist. And the scientist that did the review  
22 for the protocol, that went through the stepwise  
23 procedure, to verify, again, that everything was  
24 written as was required by our quality assurance  
25 program, that the validation study had been

1 completed, was Madeline Montgomery.

2 She did an independent review of this  
3 procedure and then -- I'm not approving it in the  
4 sense of I'm saying it's okay to be used, my  
5 approval is simply that all the steps for the  
6 quality assurance program, within my unit, have  
7 been met.

8 Q. So --

9 A. That's why --

10 Q. Sir.

11 A. -- my signature is on the approval line.

12 Q. The answer to my question then is, yes, you  
13 skipped a step in the usual approval process  
14 because you were the unit chief who would  
15 otherwise have to independently approve a new  
16 protocol?

17 A. No, you're incorrect. No steps were skipped,  
18 this is the same approach we take to every  
19 protocol that's issued within the FBI Laboratory.  
20 I have to be the final signature for approval of  
21 any protocol that's issued out of my unit.

22 Q. All right. And so you graded yourself and gave  
23 yourself and A+?

24 A. I did not --

25 ATTORNEY GAHN: Objection, your Honor, as

1 to the form of the question.

2 THE COURT: Sustained.

3 Q. (By Attorney Buting)~ As part of the discovery  
4 request, you know, attorneys file requests and  
5 ask your -- people such as yourself to produce  
6 documents, right?

7 A. Yes.

8 Q. You are familiar with that process?

9 A. I am, yes.

10 Q. You are aware that I asked you, through Mr. Gahn,  
11 to disclose the FBI protocol that was used in  
12 1997 in the O.J. Simpson case, right?

13 A. I am aware that you asked for that, yes.

14 Q. Okay. And yet your lab refused to give that to  
15 me; isn't that right?

16 A. The attorney that represents our laboratory did  
17 indicate that we were not to turn over any other  
18 protocol except the one that was used in this  
19 particular case, as her opinion was, it was the  
20 only one relevant --

21 Q. In her opinion?

22 A. -- for this report.

23 Q. So in her opinion, your lab didn't want this jury  
24 to see the only other protocol, the only other  
25 time you have ever tested for EDTA in a

1           bloodstain in any case in this country?

2                   ATTORNEY GAHN:  Objection, your Honor, that  
3           was not his testimony.

4                   THE COURT:  Sustained.

5   Q.    (By Attorney Buting)~ Well, you knew that if you  
6           turned over that protocol to the defense, I would  
7           use it to cross-examine you, right?

8   A.    I don't know that.

9   Q.    Well, wouldn't take much of a guess to figure it  
10          out, that if I had your prior protocol, I could  
11          point out to this jury the differences that you  
12          made, or lack of differences, between that  
13          protocol and this one, right?

14                  ATTORNEY GAHN:  Objection, your Honor, as  
15          to the relevancy of the O.J. Simpson protocol.

16                  ATTORNEY BUTING:  Couldn't be more  
17          relevant.

18                  THE COURT:  Well, I'm going to sustain the  
19          objection, though, on that basis, if there was --  
20          the witness testified it wasn't his decision, but  
21          the attorney's decision, not to turn it over.  If  
22          there's a request for an order to turn it over, that  
23          should be directed to the Court, so I don't think  
24          this witness is in a position to answer.  That's why  
25          I'm sustaining the objection.

1 Q. (By Attorney Buting)~ All right. At any rate,  
2 because we don't have, in front of us today -- I  
3 assume you didn't bring it, right, or did you?  
4 A. No, I did not.  
5 Q. So you didn't bring it, if the Court was -- if I  
6 asked the Court to order you to turn it over  
7 today, you don't have it to do that, do you?  
8 A. No, I do not.  
9 Q. Okay. So, because you don't have it, we don't  
10 have anything to compare this protocol to the one  
11 you used in the OJ case?  
12 A. No, you don't.  
13 Q. We talked briefly about blind tests, let's  
14 explain a little bit to the jury. There is --  
15 There is a concept or a technique that's used in  
16 science to -- it's called blind testing; are you  
17 familiar with that?  
18 A. Yes, I am.  
19 Q. And the idea behind blind testing is that you --  
20 the examiner, or the person who is testing the  
21 results or the samples doesn't know what they are  
22 or where they came from, right?  
23 A. Sometimes that's considered blind testing, yes.  
24 There are other forms of blind testing.  
25 Q. Okay. And one of the reasons that you do -- or

1           that the scientists do blind testing is to remove  
2           the possibility of some sort of bias in the  
3           examiner's testing process, right?

4    A.    Yes, that's exactly right.

5    Q.    And so, for instance, when they are testing -- or  
6           when you are testing drugs, they will sometimes  
7           have a placebo with one person and the effective  
8           drug with another. And the person who is testing  
9           it doesn't know one way or the other?

10   A.    That's right.

11   Q.    Okay. In this case, maybe in all FBI cases, I  
12           don't know, but in this case, the person who did  
13           the tests didn't do a blind test, did he? Let me  
14           be more specific, because I see you are already  
15           trying to pick that question apart. In this  
16           case, the person who tested the swabs and the  
17           blood that was submitted to you, from the Avery  
18           case, did not do a blind test, did he?

19   A.    No, he knew that this was evidence related to a  
20           case that we were working.

21   Q.    And he knew more than just that it was evidence,  
22           he knew exactly what evidence was which, correct?

23   A.    Yes, I -- Yes, he did. I knew which specimen  
24           came from which area.

25   Q.    Okay. And the designations that we saw some of



1           them up there Q-46, Q-48, K-3, those  
2           designations, wasn't some blind code that he  
3           didn't know what they meant, right?

4       A.   No, those were the designations that we gave to  
5           those individual items that we would refer to  
6           within our report.

7       Q.   And when you say we, let's be very clear to the  
8           jury you are talking about yourself and the  
9           technician who did the tests?

10      A.   Well, no, I'm sorry, in that instance, when I say  
11           we, I mean the entire FBI laboratory, that's the  
12           system that we use. Those numbers, letter number  
13           designation Q-43, for example, it's actually  
14           assigned by our evidence control unit. They are  
15           the very first ones that receive the evidence and  
16           do that initial assignment of specimen  
17           designations to -- to evidence.

18      Q.   Okay. But -- Well, let's name this mystery  
19           person who was doing the testing in your case;  
20           it's a guy named Jason Brewer, right?

21      A.   That's correct.

22      Q.   B-r-e-w-e-r.

23      A.   That's correct.

24      Q.   And he is more than just a technician, would you  
25           agree?

1 A. Well, I would -- He's a Ph.D. He is recently  
2 promoted to be an examiner --

3 Q. Okay.

4 A. -- in this area.

5 Q. And he's the one who actually did all the tests  
6 that you then later reviewed, right?

7 A. Well, not exactly. He performed most of the  
8 analyses, that part is true. But I was reviewing  
9 the data all along. And I was with him a great  
10 majority of the time that decisions were being  
11 made about the order of things and the amount of  
12 sample to use, etcetera.

13 Q. But you are a busy man, you are a manager, right?

14 A. I'm a manager, yes.

15 Q. You don't have time to sit around in the lab  
16 while these machines are clicking and whirring,  
17 right?

18 A. Well, I did make time for this case, I was in the  
19 lab a substantial amount of time, actually.

20 Q. Okay. But is it fair to say that Mr. Brewer is  
21 the guy who really, from one test to the other,  
22 did all of the LS/MS/MS (sic), and the  
23 extractions, and the whole protocol; he was  
24 involved in every step of your protocol?

25 A. There's multiple answers to your question; could

1           you break it out?

2   Q.    Yeah, that was a bad question. Is it fair to say

3           that Mr. Brewer is the one who did the actual

4           instrument analyses in this case?

5   A.    Yes, that is fair to say.

6   Q.    Okay. And Mr. Brewer, you have designations of

7           chemist at sort of the lower level?

8   A.    That's the equivalent of a technician,

9           essentially.

10  Q.    Okay. And then you get promoted to forensic

11          chemist examiner, right?

12  A.    That's exactly right.

13  Q.    And that allows you to do other things, including

14          expert witness testimony regarding the results of

15          chemical analysis, right?

16  A.    That is true, yes.

17  Q.    And you have seen Mr. Brewer's resumé, have you

18          not?

19  A.    Yes, I did. I turned it over to you.

20  Q.    Okay.

21               (Exhibit 480 marked for identification.)

22  Q.    (By Attorney Buting)~ I'm showing you what's

23          marked now as Exhibit 480; this is Jason Brewer's

24          curriculum vitae, right?

25  A.    Yes, it is.

1 Q. And would you agree with me that it says in his  
2 curriculum vitae that he is qualified, by your  
3 laboratory, to come to court and to explain to  
4 juries what it is he does in cases?

5 A. No, sir, it does not say that on his curriculum  
6 vitae that he is qualified to do so --

7 Q. Oh.

8 A. -- and he is not qualified to do so.

9 Q. Doesn't this say, under his job description here,  
10 interpret data, prepare written reports and  
11 provide expert witness testimony regarding the  
12 results of chemical analysis?

13 A. That's correct, that's what it says. But he  
14 is -- he was a chemist and qualified as a  
15 chemist, as a technician. And, then, just last  
16 September, he was promoted to the level of an  
17 examiner, but he is still in a training mode as  
18 an examiner. He still works cases as a chemist.  
19 Until he is qualified, completes his training,  
20 passes all the tests, he is not allowed to  
21 testify until that is completed and he is  
22 certified. He is not a certified examiner at  
23 this time, sir.

24 Q. Well, he is a forensic chemist examiner?

25 A. That's his position, his official position title

1           within the U.S. government.

2       Q.   And so, despite the fact that the curriculum  
3           vitae that he has, that you turned over to us,  
4           that says that he can do that, it's your  
5           testimony today that he is not qualified to come  
6           here like you are?

7       A.   That's correct.

8       Q.   Okay.  So that's why we're not hearing from him?

9       A.   That's correct.  I supervised his work and I'm  
10          the one that compiled the results and formed the  
11          opinion and issued the report; that's why I'm  
12          here today.

13      Q.   All right.  You say that Mr. Brewer is still in  
14          training for courtroom testimony, right?

15      A.   No, sir, I didn't say that.

16      Q.   Well, you said he is not qualified to come here  
17          and testify to this jury about what he did?

18      A.   That's what I said, yes.

19      Q.   Okay.  What sort of courses or training does he  
20          need to do to learn how to tell the truth to a  
21          jury.

22                   ATTORNEY GAHN:  Objection, your Honor, as  
23          to the form of the question.

24                   THE COURT:  Sustained.

25      Q.   (By Attorney Buting)~ Let me just turn for a

1 moment to this particular instrument that you  
2 use, GS -- or I'm sorry -- LC/MS/MS. All right.

3 THE COURT: Mr. Buting, just before you get  
4 into that new --

5 ATTORNEY BUTING: You want to stretch?

6 THE COURT: -- topic, lets stand up and  
7 stretch.

8 ATTORNEY BUTING: Okay.

9 THE COURT: All right. Mr. Buting, you may  
10 resume.

11 ATTORNEY BUTING: Thank you.

12 Q. (By Attorney Buting)~ Let's talk about this --  
13 this instrument, this LS/MS/MS (sic) instrument.  
14 It's three instruments, you said, together,  
15 right?

16 A. Yes, sir, it's the LC/MS/MS.

17 Q. I'm sorry, I'm not a chemist. I keep botching  
18 that designation, I'm sorry. I want to explain,  
19 make sure the jury understands, because sometimes  
20 lay people, like myself, are in awe of science  
21 and machines and we sometimes think that they do  
22 more than they can, okay?

23 A. Yes.

24 Q. So this isn't something that you just push a few  
25 buttons, run a sample through, some lights flash

1           and buzzers go off, and then spits out a result  
2           at the end, paper result says this is EDTA, or  
3           this is not EDTA, right?

4   A.   That's correct.

5   Q.   It's nowhere near that simple, right?

6   A.   No, it's not that simple.

7   Q.   And in fact, what the whole premise of the  
8           machine is is that it's supposed to somehow  
9           determine the characteristic of an ion and  
10          whether or not it's consistent with one chemical  
11          or another?

12   A.   That's not technically correct, no.

13   Q.   All right. A series of ions, is that the  
14          correction you wanted?

15   A.   It's fragments that are ions --

16   Q.   Okay.

17   A.   -- that originate from the chemical itself.

18   Q.   Okay. If you turn to -- I have handed you what's  
19          been marked as exhibit -- I'm sorry, what is the  
20          exhibit number?

21   A.   441.

22   Q.   441, and it's entitled guidelines for comparison  
23          of mass spectra, right?

24   A.   That's correct.

25   Q.   And this is a document that's issued by your

1 unit, the FBI Laboratory, Chemistry Unit, right?

2 A. That is correct.

3 Q. June 21st of '06 is this one, right?

4 A. Yes, it is.

5 Q. And it's signed by yourself at the end, as well  
6 as the quality assurance people?

7 A. Yes, it's signed by myself and two other  
8 individuals.

9 Q. Okay. And if you would turn to page three,  
10 there's a section that has a heading that says  
11 determination of diagnostic ions in a mass  
12 spectrum, okay?

13 A. Yes, sir.

14 Q. Your guidelines state, quote, the definition of  
15 what makes any given ion "characteristic" of a  
16 particular chemical structure is somewhat  
17 nebulous and there does not appear to be any  
18 universally accepted standard in the field,  
19 correct?

20 A. Yes, that's what it says.

21 Q. Okay. And it says that's why you have got to  
22 have good and consistent judgment and you have to  
23 employ judgment -- subjective judgment as an  
24 examiner, when you look at the results of these  
25 tests, right?



1 A. It does say you should apply good and consistent  
2 judgment, it doesn't say subjective, as you  
3 indicated there.

4 Q. Is there any such thing as objective judgment?

5 A. I don't know.

6 Q. I will take that as a no.

7 A. I don't know.

8 Q. You are going to fight me on that one too?

9 A. No.

10 Q. Okay. And, then, on the last page, page 10 of 15  
11 actually, limitation section?

12 A. I'm sorry, I do want to -- I want to rethink that  
13 answer. I do believe there is such a thing as  
14 objective judgment.

15 Q. All right. Go ahead turn to page 10 of 15. You  
16 got it?

17 A. Yes, sir.

18 Q. Okay. And this is a heading that's called  
19 limitation and, again, these are the guidelines  
20 on how to interpret the results of these tests,  
21 right? That's what this document is?

22 A. Of the mass spec --

23 Q. Mass spectra.

24 A. -- type test?

25 Q. Yes.

1 A. Yes, this -- this is a narrative talking about  
2 the general limitations in evaluating mass  
3 spectral data.

4 Q. And this particular section is headed  
5 limitations. It's telling you, you know, hold  
6 on, there are some limits to this we have got to  
7 consider, right?

8 A. That is exactly right.

9 Q. Okay. And doesn't it say, quote, the mere fact  
10 that an unknown mass spectrum matches well to the  
11 spectrum of a known standard will rarely, by  
12 itself, be sufficient grounds to claim the  
13 presence of that compound in the question sample,  
14 correct?

15 A. That's correct.

16 Q. Doesn't it also say that, quote, similarly, the  
17 fact that an unknown mass spectrum fails to match  
18 that of a known standard generally will not, by  
19 itself, constitute grounds for concluding that  
20 the compound is not present in the questioned  
21 spectrum, correct?

22 A. That's correct, too.

23 Q. All right. And so what you have to do with these  
24 mass spectrum tests is look at a big picture,  
25 consider all the data, as well as what comes out

1 of this machine or instrument, correct?

2 A. Yes, you have to look at all the data that's  
3 generated and put all the pieces of the puzzle  
4 together to reach your conclusion.

5 Q. All right. Your protocol, then, that was  
6 developed on February -- or issued on  
7 February 15th of 2007, for this case only, it's  
8 important that whoever do the test, follow the  
9 protocol as written, correct?

10 A. Yes.

11 Q. And that you are not supposed to just adjust one  
12 procedure differently than what's in the  
13 protocol?

14 A. You are allowed to do that as long as you  
15 document the fact that you did make a deviation  
16 to the procedure.

17 Q. Okay. And when you do that, you are actually, by  
18 your lab's protocol, you are supposed to fill out  
19 some kind of a form saying I want to deviate from  
20 the protocol?

21 A. Well, it depends, there's two types of  
22 deviations. We have what are called major  
23 deviations, which are quality affecting, meaning  
24 by doing this deviation you potentially are going  
25 to affect the results of the test and you have to

1           get a higher level of approval. It has to go up  
2           to the quality assurance unit, if you are going  
3           to do a major deviation. If you're going to do a  
4           minor deviation, on the other hand, it simply  
5           just requires a notation in the notes with  
6           approval by the examiner and myself, and in this  
7           case, approval by me.

8   Q.   All right. Turn to 434 exhibit, please, page 3  
9           of 9, No. 9 procedure, got that?

10 A.   Yes, sir.

11 Q.   Sets forth five steps to follow, right?

12 A.   Yes, sir.

13 Q.   And the last step after you do this filtrate  
14           and -- I'm not going to bore everybody with the  
15           scientific jargon -- but is that you are supposed  
16           to transfer this -- this solution that you come  
17           up with, first, and inject it into a system  
18           that's a negative ion mode, correct?

19 A.   That's what the procedure says, yes.

20 Q.   And then you follow that up and inject some of  
21           the other samples, if they are positive, into the  
22           positive ion mode, correct?

23 A.   That's correct.

24 Q.   And in this case, Mr. Brewer did the reverse,  
25           didn't he?

1 A. Yes, he did.

2 Q. He injected it, first, into the positive ion  
3 mode, right?

4 A. Yes, he did.

5 Q. And then into the negative ion?

6 A. Yes, he did, per my instructions.

7 Q. Okay. Your instructions?

8 A. Yes.

9 Q. Okay. So on the very first time you used this  
10 protocol, you started changing the procedures  
11 around?

12 A. No, sir. Consider that a minor deviation,  
13 simply, it's like you put your right shoe on  
14 first or your left shoe--

15 Q. Okay.

16 A. It's that simple.

17 Q. The exhibit in front of you, also, in  
18 paragraph two -- number two, I should say, not  
19 paragraph two, first page?

20 A. Paragraph two, first page.

21 Q. Not paragraph two, item number two, where it says  
22 scope?

23 A. Yes, sir.

24 Q. It says that this procedure allows for the  
25 screening and confirmation of EDTA in suspected

1           bloodstains, right?

2   A.    That's correct.

3   Q.    The protocol isn't actually validated to do -- to

4           quantitate a particular specific level of EDTA,

5           correct?

6   A.    That's exactly right.

7   Q.    And the difference, just so we're clear, is that

8           protocol is designed to see if there's any level

9           of EDTA that can be detected under your -- above

10          your bar, your limit, right?

11   A.    Yes, that's part of it, yes.

12   Q.    But the protocol is not designed to allow you to

13          actually fix a number and say this is 500

14          micrograms or whatever, right?

15   A.    It's not validated to provide an accurate number

16          on any measurement we make where we put a number

17          on it.

18   Q.    Okay. Mass spec instruments, though, you can set

19          up a protocol and they are sometimes used to

20          actually quantitate, right?

21   A.    Yes, they are.

22   Q.    But you didn't use it -- you didn't use the

23          instrument in this type of protocol to do that,

24          right?

25   A.    That's correct, we did not.

1 Q. And you did not, for instance, when you tested in  
2 the blood vial that had Mr. Avery's name on it,  
3 you didn't quantitate what level of EDTA was in  
4 the tube, right?

5 A. It wasn't validated to do quantitative analysis,  
6 so we did not --

7 Q. All right.

8 A. -- put a specific value on the amount of EDTA  
9 that was present in the tube.

10 Q. That's fine. That's all I'm asking. You didn't  
11 do it, right?

12 A. That's right.

13 Q. And you issued your report, Exhibit -- what is  
14 it, 326? No. Do you have the report up there  
15 with you?

16 A. Yes, I do.

17 Q. What is the number?

18 A. Exhibit 435.

19 Q. 435. You didn't -- As per the protocol, you  
20 didn't express any kind of opinion in the report  
21 about how much, if any, EDTA was detected in the  
22 vial from -- of Mr. Avery's blood, right?

23 A. No, I did not.

24 Q. Okay. And one of the things that was kind of  
25 really unique about it, or is unique about this

1 case, is that when you are testing that purple  
2 vial, it's 11 years old, right?

3 A. Yes, I believe it was.

4 Q. It was drawn from Mr. Avery's arm in January of  
5 1996 and tested in your lab in February of 2007,  
6 correct?

7 A. I would have to refer to my notes.

8 Q. Go ahead.

9 A. Yes, that's a correct statement.

10 Q. Okay. And we talked a little bit -- or you  
11 talked a little bit about this, I think, with  
12 Mr. Gahn, but the whole question of the stability  
13 or lack of stability of this chemical, EDTA, is  
14 an issue of research, correct? In the scientific  
15 community?

16 A. I don't know how much it's researched these days.  
17 It's -- I think it's very well documented. I  
18 don't know how much ongoing research there is on  
19 it.

20 Q. Well, you mentioned that it's a concern that some  
21 environmentalists have that this chemical could  
22 be building up in our water and our soil, right?

23 A. That's correct, yes.

24 Q. On the other hand, manufacturers who include this  
25 chemical in their products are countering that by



1           saying that this a biodegradable product and will  
2           ultimately be dissolved and not be a problem?

3   A.   No, sir, I don't believe that's true.

4   Q.   Are the manufacturers telling the  
5           environmentalists that you are right, this drug  
6           is just going to build up in our soil and water  
7           forever?

8   A.   I don't know that the manufacturers are saying  
9           anything to the environmentalists.

10   Q.   You are not aware of any debate, ongoing research  
11           in that field?

12   A.   No, sir, I'm not.

13   Q.   But you did mention that you were aware of some  
14           degree of studies about the stability of EDTA,  
15           right? I believe you testified to that.

16   A.   Yes, I'm aware of a number of studies that  
17           discuss the stability of EDTA as well as  
18           chemistry reference books that talk about the  
19           stability of EDTA.

20   Q.   Okay. Can you cite me to any study, published  
21           study, that's ever studied the -- or evaluated  
22           the degradation rate of EDTA in an 11 year old  
23           vial of blood?

24   A.   No, sir.

25   Q.   Can you cite me to any published study that has

1           ever tried to characterize the degradation rate  
2           of EDTA in any blood substance, stains or liquid?

3    A.    Yes, sir, I can.

4    Q.    What's that?

5    A.    The *Journal of Analytical Toxicology* article that  
6           I believe you have. I'm sorry. For  
7           clarification, did you say an 11 year old  
8           bloodstain?

9    Q.    Well, at first I said 11 year old and you are  
10          aware there is no study of blood that old, right?

11   A.    Yes, sir, I'm aware of that.

12   Q.    You do know, though -- Let me just step back for  
13          a second, you do know that EDTA is biodegradable  
14          eventually, correct, or is that the wrong term?

15   A.    That's the correct term, the research suggests  
16          that it is not very biodegradable.

17   Q.    But the research also suggests that it can be  
18          broken down, correct?

19   A.    Extremely harsh conditions, yes.

20   Q.    Well, waste water treatment plants have been  
21          doing studies where they determined that if you  
22          increase the PH in the treatment plant, you can  
23          break down EDTA quite readily, right?

24   A.    Well, the published references say that if you  
25          boil EDTA in a highly alkaline solution, which

1           would be high PH, it doesn't breakdown.

2       Q.    You are not aware of studies that talk about  
3           using lime in waste water treatment to increase  
4           the PH so that it breaks down?

5       A.    Well, the lime may be doing other things, other  
6           than just dealing with PH.  And there are  
7           numerous steps that they take to breakdown the  
8           EDTA in water, so it's not just lime.

9       Q.    Okay.  But it is -- there are steps they take to  
10          break it down.

11      A.    Again, very harsh steps.

12      Q.    In your opinion, you have never done any  
13          yourself --

14      (Court reporter asked to have the last answer repeated.)

15      A.    Harsh.  Harsh steps.

16      Q.    Harsh in your opinion because you have never  
17          actually done of any of those studies, right?

18      A.    Harsh in my review of the literature, as they  
19          call them.  I'm quoting some of those references.  
20          They are referring to things that, as a chemist,  
21          I consider to be quite harsh.

22      Q.    Have you ever done any kind of experiment  
23          yourself to see if you can actually make EDTA  
24          break down into its components?

25      A.    No, I haven't done any studies.

1 Q. Okay.

2 A. But your question is twofold there. And you said  
3 into its components, I'm not aware of the  
4 components that EDTA breaks into.

5 Q. Well, at some point, it can be degraded, whether  
6 it's harsh or whatever, that's what I'm talking  
7 about.

8 A. And then it would just fall apart as a molecule.

9 Q. Okay. I apologize, I don't know all the  
10 terminology, but you get my drift, right? You  
11 understand the question?

12 A. I do understand the question.

13 Q. And you haven't performed any experiments to  
14 break it down, break the molecules apart?

15 A. I have not performed any such experiments.

16 Q. Okay. You did, however, testify about performing  
17 a little study just last week, right?

18 A. Correct.

19 Q. And that study was designed to see whether or not  
20 you would still be able to detect EDTA in some  
21 blood spot cards that you had had on -- or that  
22 your lab, one of your units had, right, from a  
23 number of years ago or, actually, 33 months?

24 A. I need you to --

25 Q. All right.

1 A. -- repeat that question, please.

2 Q. It's a little study that you are talking about in  
3 which you tried to see if -- if you could still  
4 detect EDTA in some spot cards, that were 33  
5 months old, is something you did last week,  
6 right?

7 A. That's correct, yes, last week.

8 Q. And you actually did it on February 28th?

9 A. If I can refer to my notes.

10 Q. Go ahead.

11 A. Yes, sir, that's correct, February 28th.

12 Q. Now, on February 26th, you issued the report in  
13 this case, right?

14 A. That is correct.

15 Q. With your opinions, right?

16 A. That's correct.

17 Q. The opinions that you knew you'd have to express  
18 in court, under oath, in front of a jury, right?

19 A. Correct, yes.

20 Q. And so when you issued that report, you had done  
21 no study whatsoever of whether or not EDTA would  
22 be stable enough to be found in some old  
23 bloodstains or blood vial, correct?

24 A. Yeah, I had not personally done it, but it was in  
25 the literature.

1 Q. And the literature you are referring to is this  
2 analytical chemistry thing, right?

3 A. No, sir. The Journal of Analytical Toxicology  
4 did a stability study of EDTA in old blood stains  
5 as well.

6 Q. Two years old, right?

7 A. I believe it was 24 months, yes.

8 Q. Okay. And you knew in this case you were talking  
9 about a blood vial that's 11 years old, five  
10 times longer, right?

11 A. Well, my understanding there, the bloodstains  
12 were just about two years old themselves.

13 Q. Well, if the vial of blood that came out of  
14 Mr. Avery's arm on January of 1996 was used to  
15 plant the stains in the RAV4 in 2005, then that  
16 blood at that time was already almost nine years  
17 old, correct?

18 A. That's correct.

19 Q. And, then, since that date, another 16 months or  
20 so had elapsed?

21 A. Yes, that's correct.

22 Q. Okay. So you issue your report, without doing  
23 any study of your own on what the stability might  
24 be of EDTA in a bloodstain, correct?

25 A. That is correct.

1 Q. And so, then, two days later -- Was that after  
2 Mr. Gahn called you and asked you a question that  
3 I had raised, that you decided to do this study?  
4 A. No, I decided to do the study based on the letter  
5 you sent requesting materials, discovery  
6 materials, and one of the items you requested  
7 were any studies that the FBI had done on the  
8 stability of old bloodstains.  
9 Q. Okay.  
10 A. It prompted me to start thinking, is there a way  
11 that we could do it.  
12 Q. Okay.  
13 A. And I went to our DNA Unit and asked them if they  
14 had any old blood cards with EDTA on it, and they  
15 did. So we decided to go ahead and run them to  
16 see if it would help, for this particular case.  
17 Q. Okay. So -- I'm glad you cleared that up. So,  
18 then, this -- this study that you did on  
19 stability was because the defense attorney in the  
20 case had pointed out to you that something might  
21 be lacking in your ability to express an opinion  
22 to the jury about how stable EDTA was or was not;  
23 would that be fair?  
24 A. No, that wouldn't be fair at all, sir.  
25 Q. Okay. Well, we'll let the jury draw whatever

1 inference they want from that. But I'm showing  
2 you now what exhibit -- what's exhibit -- I'm  
3 sorry -- 444, this is your EDTA stability study,  
4 right? It's up on the screen?

5 A. Oh, that is the summary of the EDTA stability  
6 study. Those are my notes doing a quick review  
7 of what we found.

8 Q. Okay. And these are the other notes attached to  
9 this study dated February 28 of '07, correct?

10 A. That's correct.

11 Q. And those are Mr. Brewer's initials, again?

12 A. Yes, that's Dr. Brewer's initials.

13 Q. Dr. Brewer, I'm sorry.

14 A. Yes.

15 Q. And other than these handwritten notes and this  
16 one paragraph, there's nothing else that tells us  
17 about this study that you did, right?

18 A. No, that's false.

19 Q. Did you write up some report?

20 A. No, there are pages of data that are related to  
21 that study.

22 Q. Okay. Just graphs and charts and things of that  
23 nature, right?

24 A. That's correct. That's the actual study. This  
25 is the interpretation of the study and the notes



1           as to how the study was put together and how it  
2           was actually run.

3       Q.    Okay.  So would you submit this to some journal  
4           to be published, in its form?

5       A.    That one paragraph, I don't believe would be  
6           accepted for publication, sir.

7       Q.    I thought not.  Let me just talk about the timing  
8           of this for a second.  If you had done this test,  
9           two days after you issued your report, because  
10          you are worried about my cross-examination of  
11          you, and if you had found that these --

12                   ATTORNEY GAHN:  Objection, your Honor, to  
13          the form of that question and that's not what his  
14          testimony was.

15       Q.    I haven't finished it, but I will start  
16           rephrasing it.  If you had done this study, two  
17           days after issuing your report and you knew you  
18           were going to come into court and testify under  
19           oath about and if you had gotten results that  
20           would show this EDTA really wasn't as stable as  
21           you thought it was, you would be -- you would  
22           have a bit of a problem there, wouldn't you?

23       A.    Well, we would be refuting all the published  
24           scientific data out there that suggests that EDTA  
25           is an incredibly stable complex, so it would be

1           rather a eureka moment, quite frankly.

2   Q.   And so, then, there would have been no reason for  
3       you to do this study at all, right?  If it's --  
4       If it's that clear in the published literature,  
5       there would have been no reason for you to do  
6       this study two days after you issued your report,  
7       would there?

8   A.   Obviously, we didn't do it as part of the method  
9       development, so I do not consider it to be a  
10      relevant aspect of putting the method together,  
11      doing the analysis in this case, and providing  
12      that report to the agency that requested the  
13      examinations.

14                But I do believe that it assists in the  
15      final interpretation.  It does assist in  
16      answering your question, your specific question  
17      that we had not addressed in my unit.  It had  
18      been addressed in the publication, as I alluded  
19      to earlier.  I did think it was a good idea to do  
20      since we did have available to us bloodstains  
21      that were 33 months old.  I didn't think, as a  
22      scientist, that I could just pass that by and not  
23      test them.

24   Q.   Well, I'm very glad to hear that, sir.

25   A.   I'm sorry?

1 Q. I'm very glad to hear that, as a scientist, you  
2 didn't just pass that by. But, tell me, page  
3 two, which is the only place that describes the  
4 actual method that was used; is this a protocol?

5 A. I'm sorry?

6 Q. Is this a protocol for testing the stability of  
7 EDTA in 33 month old bloodstains?

8 A. These are the notes describing the steps that  
9 were taken in order to conduct the study. But  
10 the protocol that we used is the published  
11 protocol, the issued standard operating procedure  
12 for the analysis of EDTA in dried bloodstains.

13 Q. So, did you submit a protocol to determine the  
14 stability of EDTA, long term, over many, many  
15 months?

16 A. I don't think I understand that question.

17 Q. You just used the protocol you developed to see  
18 if there is EDTA in a particular stain at a given  
19 time, right? Correct?

20 A. Yes.

21 Q. Which isn't designed to quantitate how much EDTA,  
22 if any, is there?

23 A. That's right.

24 Q. My question is, did you develop a protocol, as a  
25 scientist, that would be accepted for peer

1 review, that would determine -- be designed to  
2 determine the stability of EDTA, as the term you  
3 actually used here, to determine EDTA stability?

4 A. Yes, I believe that the work that was done here  
5 is worthy of -- total worthy of publication if we  
6 decide to write it up and submit it to a journal.

7 Q. Okay. But you just used the other protocol that  
8 you already developed, you didn't develop a new  
9 protocol to study how stable EDTA was; am I  
10 right?

11 A. I'm sorry. I'm not completely understanding your  
12 question. We used this stepwise procedure, page  
13 two.

14 Q. Let me just ask, very simple: Did you develop a  
15 new protocol -- the question probably begs the  
16 answer -- but you did not develop a new protocol  
17 and go through your rigorous review and approval  
18 and validation and studies, and all of that, for  
19 the specific question of determining the  
20 stability of EDTA, correct?

21 A. We did not develop a new protocol to address  
22 the -- any potential breakdown of EDTA, but we  
23 did determine that we could still --

24 Q. Okay.

25 A. -- find EDTA in a 33 year old -- not -- 33 month

1           old bloodstain.

2   Q.   And looking at this result, you tested a total of

3       10 spot cards, right?

4   A.   That's correct.

5   Q.   That you got from the DNA Unit?

6   A.   Yes.

7   Q.   You didn't know where they came from, right?

8   A.   I didn't, no.

9   Q.   Didn't know whether they came out of a

10       purple-topped tube, a yellow-topped tube, a

11       red-topped tube, or a gray-topped tube, right?

12   A.   Wrong.

13   Q.   Wrong?

14   A.   That's an incorrect statement you just made.

15   Q.   Okay. How did you know what kind of tube a

16       little spot on a piece of paper came from?

17   A.   Because I was informed by the analyst in DNA that

18       these were all EDTA bloodstains.

19   Q.   Okay. So you relied on that, whatever

20       information that was?

21   A.   Yes.

22   Q.   Okay. And when you tested them, you found that 4

23       of the 10 spot cards you could not determine --

24       you could not detect the iron complex EDTA,

25       correct?

1 A. That's correct, 4 out of the 10 it failed --

2 Q. Okay.

3 A. -- the requirements failed to actually make the

4 call. There was an indication of it's presence,

5 though.

6 Q. But something that's an indication, that doesn't

7 reach your threshold, you don't make a call?

8 A. That's exactly right because we err -- we work

9 conservatively.

10 Q. Right. Because something that's just an

11 indication could be an indication of other

12 things, right? That's why you have threshold

13 limits, correct?

14 A. Well, as we discussed earlier, we have the

15 guideline for mass spectral comparison, which was

16 Exhibit 441. That defines how we interpret the

17 mass spectral data. And those four samples

18 failed the requirements in here to actually make

19 the call.

20 Q. All right. So, 40 percent of the samples that

21 were only 33 year -- 33 months old, were

22 already -- had already degraded in the EDTA iron

23 complex?

24 A. No, sir. I wouldn't say that at all. We don't

25 know what the original concentration of EDTA was,

1 of the iron complex, in that spot. Additionally,  
2 this was done on spot cards and we validated our  
3 method to be done on cotton tipped swabs.

4 We did not, in this study, go to see,  
5 you know, all the steps we talked about earlier  
6 about detection limit. We didn't look at  
7 interferences. We didn't look at matrix  
8 suppression. We did not do the -- Well, the  
9 carryover would probably be irrelevant here. But  
10 we didn't do all of those steps for extracting it  
11 from a filter paper, a DNA filter paper, which is  
12 probably insignificant, but scientifically I  
13 can't say that with absolute certainty, that that  
14 couldn't have some affects because --

15 Q. Okay.

16 A. -- this -- this material may --

17 Q. Sir.

18 A. -- bind more tightly to that filter paper, the  
19 bloodstain may. Because that's actually what  
20 these are designed for, these are spot cards for  
21 blood.

22 Q. Those steps you just mentioned: Carryover,  
23 matrix suppression, limited detections, that's  
24 called validation, right?

25 A. That's exactly right.

1 Q. And what you just told us is that you didn't  
2 validate this study to detect EDTA in spot cards,  
3 right?

4 A. That's exactly right.

5 Q. Thank you. So this study, then, wouldn't really  
6 tell you how stable or not EDTA might be in a  
7 liquid form that's 11 years old, right?

8 A. That's correct, yes.

9 Q. You mentioned -- You mentioned that you were  
10 testing swabs, or your tests were designed for  
11 swabs of cotton, right?

12 A. Yes, we did all of our validation on cotton  
13 tipped swabs --

14 Q. Okay.

15 A. -- because that's what we were told the  
16 evidentiary material was going to be in this  
17 case.

18 Q. Okay. And cotton swabs are also absorbent, more  
19 absorbent than paper, would you agree, or  
20 disagree?

21 A. I don't know.

22 Q. You don't know. You haven't tested it, so you  
23 don't have an opinion one way or the other?

24 A. I don't have an opinion.

25 Q. Okay. You do have an opinion, though, that EDTA



1           on -- in a bloodstain that is on fabric might be  
2           absorbed in different ways so that throughout the  
3           stain the level of EDTA is not homogenous,  
4           correct?

5    A.    Incorrect.

6    Q.    You disagree with that?

7    A.    Yes.

8    Q.    Okay. Did you shake up the tube when you got it?

9    A.    Yes, we did.

10   Q.    Mix it up real well?

11   A.    Yes.

12   Q.    Have no way of knowing if somebody used that vial  
13           to plant, as your little PowerPoint showed, drip,  
14           drip, drip, drip, whether or not that  
15           person would have shaken up the vial, 11 year  
16           old -- or nine year old vial, before doing that,  
17           do you?

18   A.    Could you repeat that question?

19   Q.    You have no way of knowing that if somebody used  
20           that vial to plant blood in the Halbach vehicle,  
21           whether that person shook that vial up like a  
22           scientist would before doing so, do you?

23   A.    If that was the scenario, then, I wouldn't know  
24           if they shook that vial first.

25   Q.    Okay. By the way you never did any -- I think

1           you testified about the swabs when you had the  
2           photos up there, you kept referring to them as  
3           bloodstains here and there, right? Do you recall  
4           that?

5       A.    Yes, that's what they were reported to us as  
6           being.

7       Q.    Okay. Reported to you, but you didn't do any  
8           kind of presumptive tests on them?

9       A.    No, sir, I'm not a qualified serologist.

10      Q.    So the portion when you -- well, not you, but  
11           when Mr. Brewer cut the swabs -- By the way, were  
12           you present when he cut the swabs?

13      A.    Yes, I was.

14      Q.    Okay. You didn't test to be sure that the  
15           section that he was cutting did or did not prove  
16           presumptively positive for the presence of human  
17           blood, right?

18      A.    Again, I'm not qualified to do that. It was  
19           reported to us that this was blood and that had  
20           been confirmed by testing at another laboratory.

21      Q.    Well, it had been confirmed to you that somewhere  
22           on this swab, the portion of the swab that was  
23           cut off by the prior lab had tested, that had  
24           blood, right? As far as you know?

25      A.    Yes, that's -- I believe that's what I said.

1 Q. Okay. But the portion that was left on those  
2 swabs, you don't know that anybody ever tested to  
3 see if there was blood, and if so, how much of  
4 the swab that was being cut off contained the  
5 blood, right?

6 A. That's correct.

7 Q. Okay. You know that blood and EDTA -- that EDTA  
8 is a binding; you call it chelating, but the same  
9 way -- another way of saying binding, right,  
10 molecules?

11 A. Yeah, it binds -- it binds metals, that's  
12 correct.

13 Q. Particularly metals, right?

14 A. Yes.

15 Q. And so it may bind with one substrate that a  
16 stain is sitting on differently than another  
17 substrate that a stain is sitting on, right?

18 A. If it's not already bound to another metal, yes.

19 Q. Okay. And by substrate, I'm talking -- it's  
20 another way of saying a surface, particular  
21 surface, right?

22 A. That's correct.

23 Q. You only tested three swabs that were reported to  
24 have been taken, or found, in the Teresa Halbach  
25 vehicle, right?

1 A. That's correct.

2 Q. Do you know how many other swabs or how many  
3 other stains were also found in that vehicle?

4 A. No, I don't.

5 Q. Your opinion that there's no EDTA in the swabs  
6 from the Halbach vehicle, then, is limited to the  
7 three swabs that were presented to you; isn't  
8 that right?

9 A. Could you repeat that?

10 Q. You expressed an opinion a little more broadly  
11 than perhaps you intended to, I believe, which  
12 was that your opinion was -- let me look for my  
13 notes -- that the stains in the Halbach --  
14 bloodstains in the Halbach vehicle could not have  
15 come from the purple vial that you tested, right?

16 A. That's correct.

17 Q. But you're actually referring only to the three  
18 stain swabs that you tested, correct?

19 A. No, I believe my original testimony is what I  
20 meant.

21 Q. Well, are you telling me right now, that even  
22 though you never tested three other swabs of  
23 separate bloodstains found elsewhere in the RAV4  
24 vehicle, that you're willing to express an  
25 opinion that none of those three swabs have EDTA

1           either?

2   A.    I am willing to -- to conclude that.

3   Q.    Oh, you are?

4   A.    Yes, sir.  If I can elaborate.

5   Q.    Well, no, let me finish my -- my question.  So  
6           even though you didn't test those other three  
7           swabs, you are prepared to state that they could  
8           not have come from the blue -- the purple-topped  
9           vial that you tested of Mr. Avery's blood?

10  A.    I believe that to be true within a reasonable  
11           degree of scientific certainty, yes.

12  Q.    Okay.  I just wanted to know how far you were  
13           willing to go.  And the -- You also give another  
14           interesting opinion where you -- I'm not sure  
15           exactly how it came out after I objected and it  
16           was rephrased, but that you believe the planting  
17           scenario, one of those two -- you only gave two  
18           scenarios there, one which is that the blood came  
19           from a dripping finger that you so helpfully gave  
20           us on the screen, right, that was one scenario?

21  A.    To represent active bleeding.  I wouldn't know if  
22           it came from a finger or a toe or an arm.

23  Q.    Oh, really, you just picked a dripping finger out  
24           of just thin air, right?

25  A.    That's what happened to be at Microsoft's web

1           site --

2   Q.    Oh.

3   A.    -- a finger, right.

4   Q.    And that was one scenario.  The other scenario

5           was that someone was pouring out these little

6           drops from the purple-topped tube, right?

7   A.    Sure, yes.

8   Q.    And I think if I understood you, you maybe went

9           even farther and said that because of your test

10          on those three stains, there was no way that --

11          that the blood in the RAV4 could have been

12          planted by anybody; isn't that what you said?

13   A.    Yes, that was my opinion.  That's correct.

14   Q.    Or did you mean that they couldn't have been

15          planted from that purple-topped tube only?

16   A.    Well, if you look at all of the information I was

17          given on this case, my opinion would be that it

18          couldn't have come from the EDTA tube that we

19          tested or any other EDTA tube.

20   Q.    Okay.  But you are not expressing the opinion

21          that it couldn't have been planted from some

22          other blood source, that didn't have EDTA

23          already, are you?

24   A.    No, sir.

25   Q.    Okay.

1 A. I'm not saying that.

2 Q. Okay. And you never tested any swabs that were  
3 reported to you to have been recovered from the  
4 garage floor or inside Mr. Avery's trailer --  
5 trailer, were you?

6 A. Could you repeat that?

7 Q. You never tested any swabs that were given to you  
8 that were reportedly recovered from the garage  
9 floor or trailer of Mr. Avery, did you?

10 A. No, I wasn't.

11 ATTORNEY BUTING: Should we approach the  
12 bench for a minute, your Honor?

13 THE COURT: Sure.

14 (Side bar taken.)

15 THE COURT: Members of the jury, we're  
16 going to go a little longer than normal to get the  
17 witness back to Virginia. I'm told we don't have  
18 too much to go. But let's take a quick stretch  
19 break and then allow the attorneys to finish. You  
20 may continue.

21 ATTORNEY BUTING: Thank you, Judge.

22 Q. (By Attorney Buting)~ The -- Without getting too  
23 bogged down in the procedure that's followed and  
24 the protocol and all that, if you allow me to  
25 oversimplify it, as I understand it, you take

1           these swabs -- And, by the way, let's just clear  
2           one thing up, the photograph showed two control  
3           swabs for each of these three stains, right?

4   A.   Yes, that's correct.

5   Q.   You didn't test both control swabs, though, did  
6        you?

7   A.   No, standard practice, we leave half for  
8        retesting, so we tested one and left the other  
9        for future testing if that was deemed necessary.

10  Q.   Well, aren't these swabs supposed to have been  
11       taken from different areas of, like, one side or  
12       the other of a particular stain.

13  A.   It's from the general area, that's correct.

14  Q.   But the theory being that you don't swab the  
15       exact same area twice, you swab -- you use the  
16       second swab to swab a different control area  
17       somewhere around the stain, right?

18  A.   That's one way to do it, yes.

19  Q.   All right.  You don't know how it was done in  
20       this case, because you weren't there?

21  A.   That's correct, I was not there.

22  Q.   Okay.  But my point is, you didn't test -- you  
23       didn't take half of each -- clip off half of each  
24       swab and do it that way, right?

25  A.   That's correct, we did not.



1 Q. You just tested one?

2 A. Yes.

3 Q. Okay. The -- As I understand it, what you do is

4 you clip off the swab. You put it in a little --

5 some sort of a little vial or something. You put

6 a solution in there. And it's actually 200

7 microliters of something, something of that

8 nature; does that sound right?

9 A. Well, perhaps you are oversimplifying it.

10 Q. Well, you put a solution -- you put a solution

11 into the dry swab sample, right?

12 A. You do, yes.

13 Q. And you allow it to react for a certain period of

14 time, right?

15 A. Forty-five minutes.

16 Q. And your protocol for this particular test, 45

17 minutes, correct?

18 A. Yes. Yes.

19 Q. And then you -- you centrifuge it?

20 A. Yes, we do.

21 Q. And then, what that does, is it separates the

22 liquid from the solids that drop to the bottom,

23 right?

24 A. The liquid portion goes through the filter and it

25 carries with it the EDTA and EDTA iron complex

1           that was dissolved into the solution.

2   Q.   And the solids drop to the bottom?

3   A.   No, sir.

4   Q.   Well, okay, the liquid is at the top?

5   A.   No, sir. If you would like, I can simplify this.

6   Q.   Please.

7   A.   Okay.

8   Q.   Simply.

9   A.   The swabs are cut and put into what's called a

10       molecular weight cut off filter, it's a filtering

11       device, sitting in this filter device. And then

12       we add a solution of the internal standard, which

13       I described earlier as the positive control, into

14       each sample. That's 200 microliters, which is --

15       again, that is approximately a 10th -- I'm

16       sorry -- a 20th of a drop, and that is placed

17       into the --

18   Q.   Two hundred microliters?

19   A.   I'm sorry, I misspoke. It's not --

20   Q.   Yeah, I thought so.

21   A.   It's approximately two drops. Thank you. It's

22       approximately two drops of liquid that are placed

23       into that -- onto that swab. And it's left to

24       sit for 45 minutes to allow for -- time for all

25       of the EDTA, or a portion of the EDTA and the

1           iron complex, to actually go into the water that  
2           was added to it.

3                       And then we centrifuge it at high speed  
4           to drive the liquid through the filter device and  
5           the liquid goes to the bottom of the tube and the  
6           swab and all the solids remain at the top in the  
7           filter itself. And then we analyze the liquid  
8           portion.

9   Q.    Okay. So I misspoke, it's the other way around,  
10       the liquid is at the bottom, right?

11   A.   Yes, sir.

12   Q.    All right. And then goes into -- there's --  
13       there's approximately 200 microliters of liquid,  
14       a little less probably by then, right?

15   A.    A little less, yes.

16   Q.    Okay. Then it goes into a machine called auto  
17       sampler, right?

18   A.    No, not exactly.

19   Q.    Well --

20   A.    It's transferred into a small sampling container,  
21       a vial, which is a sealed glass vial. And then  
22       we manually place it onto an auto sampler.

23   Q.    Okay. And then the auto sampler basically sucks  
24       out just five microliters for the test, right?

25   A.    For each of the individual tests that we ran on

1           this, yes.

2       Q.    Correct.  So out of each, Q-49, Q-48, Q-47, the  
3           micro sampler takes five micro -- auto sampler  
4           takes about five microliters, leaving 190 or so  
5           left, correct?

6       A.    Well, probably considerably less than 190, but it  
7           leaves some residual liquid behind, yes.

8       Q.    Okay.  And then it's that five microliters that  
9           gets tested in the instrument, correct?

10      A.    That's right.

11      Q.    But you don't save the remaining liquid to be  
12           retested by the defense, or another lab, or  
13           anything of that nature, do you?

14      A.    No, we don't.

15      Q.    And presumably, if you did, that would be one way  
16           of verifying the results that came from the five  
17           microliters that was tested, correct?

18      A.    That would be one of many ways it could be --

19      Q.    Okay.

20      A.    -- reevaluated.

21      Q.    Now, EDTA is found, you mentioned, in many, many  
22           products, common household products, right?

23      A.    Yes.

24      Q.    You mentioned shampoos, detergents, and some  
25           automotive cleaning products as well, right?

1 A. Yes.

2 Q. Including Armor All?

3 A. No.

4 Q. Make up?

5 A. Some cosmetics.

6 Q. Okay. Also used in photography?

7 A. In some applications of photography, yes.

8 Q. Okay. And, yet, when you tested the controls in

9 this case, you found no EDTA detectable, correct?

10 A. That's exactly right.

11 Q. And that was in the process whereby you have

12 diluted the -- or allowed the solid to react with

13 200 microliters of liquid, correct?

14 A. That's correct, yes.

15 Q. If you had allowed that to evaporate down to a

16 smaller amount, if there was any EDTA in the

17 liquid, it would be more concentrated, correct?

18 A. Yes, it would be.

19 Q. You did not do that in this case, on the

20 controls, for instance, to rerun them and see if

21 you would detect EDTA at a lower dilution?

22 A. No, I don't believe it was necessary to do.

23 Q. Okay. And, by the way, the -- even with this

24 brand new test you devised, you can't tell the

25 jury, to a absolute scientific certainty, if

1           there is such a thing, that there's no EDTA in  
2           any of those blood stains. All you can say is  
3           that there is none detectable given your limits  
4           of detection, correct?

5   A.   Yes, they are negative at our limit of detection,  
6        which I feel --

7   Q.   Okay.

8   A.   -- is more than adequate.

9   Q.   I understand that's your opinion, but the point  
10       of it is, there might be a lower level of  
11       detection which might reveal EDTA; isn't that  
12       right?

13   A.   Well, you could go lower and start detecting  
14       environmental contamination from soil and water,  
15       but that, I believe, would just confuse the  
16       interpretation on this case.

17   Q.   What that might do is just what happened in the  
18       O.J. case, which is, show the jury that there is  
19       EDTA in the bloodstain rather than that there is  
20       not, correct?

21   A.   Again, I didn't do the testing in the O.J. case  
22       and I'm not fully aware of all the final findings  
23       in that particular case. It's been, I believe,  
24       12 years, actually.

25   Q.   All right.

1 A. And -- But it's my recollection, to answer your  
2 question, that we did not report that there was a  
3 significant amount of EDTA in that bloodstain in  
4 that case.

5 Q. I want to show you a photograph that we have  
6 looked at earlier. Probably this -- one of these  
7 two. But I will show you Exhibit 473, first.  
8 Take a look at these two. Okay. Have you had a  
9 chance to look at that?

10 A. Yes, I have.

11 Q. And is that the blood vial that looked the way it  
12 looked when you got it?

13 A. No, sir.

14 Q. It's changed? The one you got was changed? How?

15 A. Well, I can't even verify that this is the same  
16 vial, based on this photograph, either of these  
17 photographs.

18 Q. Well, I think counsel -- we have had testimony  
19 earlier, we can -- for your purposes, you can  
20 assume that that is the same vial that ultimately  
21 made it to the FBI Lab, at least we hope, okay.

22 ATTORNEY GAHN: I will agree that the  
23 witness can assume that that's the vial that came  
24 from the Manitowoc County Clerk of Court's Office  
25 and was sent to the FBI for your analysis, Doctor.

1 Q. (By Attorney Buting)~ Okay.

2 A. Yes.

3 Q. So, then, my question is, the condition, the way

4 that vial looks to you right now in that picture,

5 is that consistent with the -- is that consistent

6 with the way the vial looked on that day that you

7 saw it?

8 A. If I can refer to my notes.

9 Q. Sure.

10 A. Again, I really can't tell fully because I can't

11 see all the markings on the vial to verify that

12 it's marked exactly the same as when we received

13 it. But when we -- when we received the vial of

14 blood, it came in a different container, as was

15 indicated earlier. It was sealed into a shipping

16 container like this and it has a label on the

17 side that I don't see in either of these

18 photographs. Additionally, the top was sealed

19 with evidence tape on here. Let me correct that

20 last statement, the vial itself was not sealed

21 with evidence tape, it's this outside container

22 that was.

23 Q. Okay. Let me put this up on the screen for you,

24 for the jury. Is this the same exhibit you are

25 looking at right now.



1 THE COURT: I'm not sure your microphone is  
2 on, Mr. Buting.

3 ATTORNEY BUTING: Sorry.

4 Q. (By Attorney Buting)~ Is this the same exhibit  
5 that you are looking at right now? Does it look  
6 the same?

7 A. No, sir, I believe that's a different photograph.

8 Q. Let me see the photograph, please.

9 A. Yes.

10 Q. All right. Let's try this one. Okay. I think  
11 counsel have agreed we have got Exhibit 473 up on  
12 the screen now. Let me ask you, when you did  
13 open up the vial, or the packaging, and found the  
14 purple vial of blood that said -- or that was  
15 reported to you to be Steven Avery's, did it  
16 appear to you that the vial had been clearly  
17 opened at some time?

18 A. Yes, it did.

19 Q. Okay. And is that, in part, because around the  
20 edge, as I have zoomed in on this exhibit of the  
21 stopper, there appears to be some red blood that  
22 has actually seeped in onto the stopper itself?

23 A. That's exactly right, yes.

24 Q. Okay. And that's a clear sign that at some point  
25 the top had been opened, right?

1 A. Yes, it is.

2 Q. All right. Your opinions that you expressed  
3 today are to a reasonable degree of scientific  
4 certainty, right?

5 A. Yes.

6 Q. And just as you would do in any other case where  
7 you are expressing an opinion to a jury, correct,  
8 as an expert?

9 A. Yes, based on the science, yes.

10 Q. All right. Well, let's talk about another case  
11 that you were involved in in which a protocol was  
12 developed rather hurriedly, not the O.J. one that  
13 you were not involved in, but a fellow by the  
14 name of Dr. William Sybers, does that ring a  
15 bell?

16 A. Yes, it does.

17 Q. Correct me if I'm wrong, but Dr. Sybers was a  
18 medical examiner in the State of Florida, whose  
19 wife passed away and nine years later was charged  
20 with her murder for poisoning -- allegedly  
21 poisoning her with a particular sort of muscle  
22 paralyzing drug, correct? Is that a fair  
23 summary?

24 A. Yes.

25 Q. Okay. And so what they did was, they dug up poor

1           Mrs. Sybers' body and took samples from the  
2           tissue of -- the embalmed tissue of her remains,  
3           correct?

4    A.    Yes, they did.

5    Q.    And then, they went to you, to develop a protocol  
6           to test for a particular drug called  
7           succinylcholine, that's s-u-c-c -- maybe you can  
8           spell it. S-u-c-c-i-n-y-l-c-h-o-l-i-n-e, is that  
9           right?

10   A.    No, that's wrong.

11   Q.    Okay. Tell us, how do you spell it?

12   A.    No, that's the correct spelling, your statement  
13           was wrong.

14   Q.    Okay. You developed a protocol to develop -- in  
15           an effort to determine whether, from a metabolite  
16           that could be found in someone's postmortem  
17           fluids, one could determine if the parent drug  
18           had been administered at some earlier time?

19   A.    I need you to repeat that before I can respond.

20   Q.    You developed a protocol, in that case -- First,  
21           let me step back. What you were trying to do,  
22           what you were asked to do, was to test these  
23           postmortem fluids, a subject which, by the way,  
24           you continue to testify on now, in 2007, right,  
25           or six?

1 A. Again, that's a multi-question question, I can't  
2 respond to it.

3 Q. They train you well on courtroom testimony, don't  
4 they?

5 A. I'm just answering your questions --

6 Q. Okay.

7 A. -- truthfully, sir.

8 Q. You were correct that was a multi -- that was a  
9 bad question, it's getting late. You still teach  
10 at conferences about postmortem fluids, right?  
11 The testing of postmortem bodily fluids?

12 A. I do, that's part of my job.

13 Q. Right. And it was back in 1999, I think, right?

14 A. Yes, it was.

15 Q. And you were asked in that case to try and see if  
16 you could come up with a test protocol that could  
17 determine whether or not Dr. Sybers had poisoned  
18 his wife with a particular drug; is that right?

19 A. Not entirely correct, no.

20 Q. Well, you're going to fight me all the way on  
21 this I can see. You developed a protocol to try  
22 and find out whether the prosecution's theory  
23 that Dr. Sybers had poisoned his wife was correct  
24 or not, correct?

25 A. No, sir. That's never the intent of developing a

1 procedure is to determine someone's guilt or  
2 innocence. It's to simply analyze for the  
3 presence of a chemical in evidentiary material.  
4 We don't decide the guilt or the innocence.

5 Q. Well, thank God for that.

6 ATTORNEY GAHN: Objection, your Honor.

7 THE COURT: Sustained.

8 Q. (By Attorney Buting)~ What you were trying to do  
9 was to test bodily fluid that had been embalmed  
10 nine years earlier and draw some conclusions  
11 about whether or not one could make an assessment  
12 of whether this parent drug had been administered  
13 to the person before they died, correct?

14 A. If I can correct your question a little bit, move  
15 things along. We tested, not postmortem fluids,  
16 but we tested postmortem tissues, heart, kidney,  
17 lung, fat, muscle, as I recall. We were asked to  
18 develop the protocol to determine whether or not  
19 a chemical called succinylmonocholine,  
20 s-u-c-c-i-n-y-l-m-o-n-o-c-h-o-l-i-n-e, was  
21 present in these tissues, because another  
22 laboratory had found them and we were asked to  
23 verify whether or not that laboratory had indeed  
24 identified this particular chemical.

25 Q. Okay. And your testing indicated a positive

1 finding for succinylmonocholine in the victim's  
2 kidney, correct?

3 A. That is correct.

4 Q. And that particular molecule is a metabolite of  
5 the drug succinylcholine, correct?

6 A. Yes, it is.

7 Q. And your testimony was employed, by the  
8 prosecution, to obtain a conviction of Dr. Sybers  
9 for the murder of his wife by means of the  
10 injection of this succinylcholine, correct?

11 A. I did pros -- I did testify for the prosecution  
12 in that case, that's correct.

13 Q. And you rendered opinions to a reasonable degree  
14 of scientific certainty, didn't you?

15 A. I believe I did. If I rendered an opinion, I  
16 would make sure it was within a reasonable degree  
17 of scientific certainty.

18 Q. Just as you are today?

19 A. Yes, sir.

20 Q. To a jury just as we have here today, correct?

21 A. To a jury, yes.

22 Q. And that jury convicted Mr. Sybers, correct?

23 A. Yes, they did.

24 Q. The conviction, however, was reversed by the  
25 Court of Appeals in Florida four years later,

1 right?

2 A. I don't know when, but I do know that they  
3 reversed the decision on appeal.

4 Q. And only after that, when additional tests were  
5 done on other tissues or fluids from other  
6 deceased persons, was it determined that that  
7 very same metabolite you found in Mrs. Sybers'  
8 body was also in theirs; isn't that right?

9 A. That's correct. I would like to elaborate on it.

10 Q. You can elaborate in a moment and I'm sure you  
11 will take any opportunity you can. But the point  
12 being, your protocol was hurriedly developed for  
13 the trial of Mr. Sybers' case, right? Mid-trial,  
14 while the trial was going on, yes or no?

15 A. I'm trying to answer, but you are not giving me a  
16 chance, sir. Yes, it was developed for the  
17 Sybers' case.

18 Q. Okay.

19 A. It was a court ordered test that we were --

20 Q. Okay.

21 A. -- told to do.

22 Q. And you didn't decline, right? You could have  
23 said, no, we don't have enough time to do this?

24 A. I couldn't decline in that instance, no.

25 Q. Well, did you tell the Court, hey, I just don't

1           have time to do this properly and scientifically?

2   A.   No, sir, I was told that the Attorney General of  
3       the United States was going to call me and  
4       request that we do this exam, so I decided that I  
5       would do it.

6   Q.   Did you tell the jury that you were under  
7       pressure to do -- to develop a test protocol that  
8       you didn't feel comfortable doing?

9   A.   No, I never -- never told the jury I was  
10      uncomfortable developing the test protocol.

11   Q.   Okay.

12   A.   But I do believe I informed them it was done  
13      under rather rushed circumstances.

14   Q.   Okay. And you never told them that there was any  
15      concerns about the scientific validity of the  
16      opinions you were expressing either, were you,  
17      correct?

18   A.   There were no concerns, in my opinion, about the  
19      scientific certainty of what we did in  
20      that particular case.

21   Q.   Okay.

22   A.   And I stand by it today.

23   Q.   Okay. Except that years later, when you tested,  
24      as you should have all along, other tissues from  
25      other bodies, you found the same metabolite?



1 A. Well, it's a complex question; I can't just  
2 answer yes or no. We did test tissues from other  
3 bodies when we worked to develop the method and  
4 validate the method before it was used on  
5 specimens in the Sybers case, we did do that.

6 But what happened was years later we got  
7 a new instrument into our laboratory and we had  
8 additional cases where we were requested to  
9 analyze for the same analyte. And when we  
10 started to move the method over to the new  
11 instrument, which was more sensitive than the old  
12 method, we started to find this chemical there at  
13 very low levels in bodies that we knew had never  
14 been exposed to that particular drug.

15 So that was then reported immediately to  
16 the investigators in Florida. We did all of that  
17 work ourself. We reported it to the  
18 investigators and informed the Court of our  
19 findings.

20 Q. Now, just out of the goodness of your heart, you  
21 kept testing these samples, is that what you are  
22 saying? There was no ongoing post-conviction  
23 litigation that was involved in this case?

24 A. No, sir, not at all. As I testified, we  
25 continued to test specimens because we were

1 requested to do this examination on other cases  
2 in the future.

3 Q. Okay. And what happened was this, you expressed  
4 an opinion, in court, to the jury, that the  
5 presence of the metabolite, succinylmonocholine,  
6 proved to a scientific certainty, the prior  
7 presence of or injection of succinylcholine,  
8 correct?

9 A. Can I see what you are reading from, please.

10 Q. I just asked you the question?

11 A. I don't recall. I would have to see what you are  
12 reading from.

13 Q. Okay. Well, I will show you this in just a  
14 moment. In any event, several years later, the  
15 attorney general, or the prosecutor in Florida,  
16 submitted what's called a notice to the court,  
17 that is marked as the Exhibit 439, correct?

18 A. I don't know what that form is called, I'm sorry.

19 Q. Well, have you seen this exhibit before?

20 A. First time I saw it was yesterday.

21 Q. Okay. But you saw it yesterday?

22 A. Yes.

23 Q. Okay. I'm going to read you a sentence and you  
24 tell me in you agree or disagree with it. The  
25 purpose of this filing is to notify the Court and

1 the defendant that recent scientific testing,  
2 conducted by National Medical Services and the  
3 Federal Bureau of Investigation Laboratories, has  
4 discovered that the findings specifically related  
5 to this defendant and the testimony of the  
6 experts from each of these laboratories, though  
7 believed to be correct at the time of the  
8 testimony, can no longer be relied upon.

9 The findings of the presence of  
10 succinylmonocholine in the specimens tested are  
11 believed to be accurate and correct; however, the  
12 opinions that the succinylmonocholine proves, to  
13 a scientific certainty, the prior presence of, or  
14 ingestion of, succinylcholine are not correct,  
15 end quote.

16 A. I disagree with that statement.

17 Q. You do? Oh, this is the ***State of Florida vs.***  
18 ***William Sybers***, correct?

19 A. Yes, it is.

20 Q. Okay. Prosecutor apparently agreed with it,  
21 correct?

22 A. I think you would have to ask the prosecutor; I  
23 don't know.

24 Q. Okay. Well, would you like to see the signature  
25 of the State's attorney on this document?

1 A. Yes.

2 Q. Do you see that?

3 A. Yes.

4 Q. Okay. By the way, National Medical Services is  
5 the lab that you interned at, correct?

6 A. I did a three month intern there while I was  
7 working on my master's in 1987.

8 Q. And in the trial of that case, you and Dr. Kevin  
9 Ballard, from that lab, were both testifying for  
10 the prosecution, correct?

11 A. Yes, we were both called by the prosecution to  
12 testify in that case, that's correct.

13 Q. Do you know how many years Mr. -- or Dr. Sybers  
14 spent in prison before the -- before these tests  
15 proved to disprove that original thesis?

16 A. I believe he's still in prison, sir.

17 Q. Well, did you ever go apologize to Dr. Sybers?

18 A. No, sir, I did not.

19 Q. Did you ever send a letter or apology to the  
20 jurors who convicted him, for giving them an  
21 opinion that was later retracted by the  
22 prosecutor himself?

23 A. No, because I believed my original testing was  
24 accurate, that the specimens did contain what I  
25 said were in those specimens, which was

1           succinylmonocholine.

2       Q.   And that your opinion was that the presence of  
3           that proved poor Mrs. Sybers had been injected by  
4           the parent drug?

5       A.   And that opinion, of course, was based on the  
6           research that was available at the time.

7       Q.   And later research proved your opinion to be  
8           wrong; isn't that right, sir?

9       A.   Not exactly.  Later research, with more sensitive  
10          instrumentation that was not used in the Sybers  
11          case, proved that we were able to find traces of  
12          this chemical, now, when we used a more sensitive  
13          approach than we actually used in this case.

14      Q.   So, later science and instrumentation proved your  
15          opinion, offered to the jury to a reasonable  
16          degree of scientific certainty in that case, was  
17          wrong, correct?

18      A.   No, sir.  I believe all it did is actually  
19          confuse the issue.

20      Q.   Just like you are doing here today in Mr. Avery's  
21          case, correct?

22      A.   I hope I'm not confusing the issue, sir.

23      Q.   Well, I hope so too.

24                   ATTORNEY BUTING:  Thank you, sir that's all  
25          I have.

1 THE COURT: Mr. Gahn, any redirect?

2 ATTORNEY GAHN: Yes, your Honor, just a  
3 little bit.

4 **REDIRECT EXAMINATION**

5 BY ATTORNEY GAHN:

6 Q. Dr. LeBeau, will you, please, explain to the  
7 jurors how you became involved in the Sybers  
8 case, what transpired, and how it was finally  
9 resolved?

10 A. Yes, I will. There was an investigation of a  
11 medical examiner named William Sybers, in the  
12 State of Florida. It was a very long ongoing  
13 investigation where there was a great deal of  
14 evidence -- the investigators felt there was a  
15 great deal of evidence against this forensic  
16 pathologist in the death of his wife. And the  
17 investigation lasted approximately 10 years.  
18 Because he was a medical doctor --

19 ATTORNEY BUTING: Judge, I'm going to  
20 object, unless this is knowledge that he's acquired  
21 on his own, from his involvement in the case, it's  
22 hearsay and it's irrelevant. It's at least hearsay.

23 THE COURT: I think the background of the  
24 case is already established and the witness should  
25 move onto his role in it and what he knows happened

1           afterward, if we haven't heard it already.

2       A.   The laboratory in Pennsylvania was involved in  
3           this case and they analyzed those specimens from  
4           her exhumed body for the presence of every single  
5           chemical known to man. And they found the  
6           presence of this chemical called  
7           succinylmonocholine. And in that, they concluded  
8           that that would -- that chemical was a metabolite  
9           that comes from succinylcholine. And that was  
10          very well established in the research that dated  
11          back into the '50s.

12                 But because they were the only  
13           laboratory that did this analysis and because  
14           they had some prior evidence rejected by the  
15           Court on that particular case, the Court ordered  
16           the prosecution to find another laboratory to  
17           verify the findings of the laboratory out of  
18           Pennsylvania and they called upon us to do so.

19                 So we developed a method -- quickly  
20           developed a method to try to identify the  
21           presence of this chemical, succinylmonocholine,  
22           in tissues, which is actually one of the most  
23           difficult types of analyses to do. And we did  
24           identify the presence of this chemical in some of  
25           the same tissues that the laboratory in

1           Pennsylvania found it in, but not all of them.  
2           And I testified to that in the trial, that we  
3           were not able to find it in all those tissues and  
4           that our method was not as sensitive as the  
5           method that was used by the laboratory in  
6           Pennsylvania.

7                     I did conclude, at that trial, that the  
8           only known source of succinylmonocholine, at the  
9           time, came from injections of the parent drug,  
10          succinylcholine. And I testified to that. We  
11          did validate the method before it was put into  
12          use. We ran negative tissues from other bodies  
13          that we knew had never been exposed to  
14          succinylcholine or succinylmonocholine.

15                    Then, in the years after the trial and  
16          the conviction, we were continuing to get  
17          requests from other agencies that were claiming  
18          that that same laboratory in Pennsylvania had  
19          found the presence of this same chemical in old  
20          cases, unclosed cases. And after awhile I  
21          started to get concerned, because it didn't make  
22          sense to me that this very unique drug would be  
23          used in so many homicide cases.

24                    So we started testing, using a new  
25          instrument. And we transferred the method over



1 to this new instrument that was much more  
2 sensitive than what we had used in the past. And  
3 in the validation steps for the transfer, we ran  
4 some blank tissues again, as we did before we  
5 used it in the Sybers case. But this time we  
6 started to find small, small amounts of the  
7 chemical, succinylmonocholine.

8 And we -- as soon as we finished that  
9 and we verified the findings, we consulted  
10 heavily with the laboratory in Pennsylvania and  
11 we concluded that this was present in very trace  
12 amounts, naturally, in our bodies, at least in  
13 postmortem specimens. So we were the very first  
14 ones to identify this.

15 And we reported it immediately, not only  
16 to the prosecutor in that case, but prosecutors  
17 in other cases. And we also immediately put a  
18 letter into the *Journal of Analytical Toxicology*  
19 so that that information would be immediately  
20 available to anyone else that may be doing this  
21 testing. So my opinion at the time, I feel, was  
22 correct. At the time, the only known source for  
23 succinylmonocholine came from the parent drug  
24 succinylcholine.

25 Q. And it was your testing for this chemical later

1           on that you notified the Court that the  
2           technology that you had in place now was finding  
3           it?

4    A.   That's exactly right.

5    Q.   And can you tell this jury how was the Sybers  
6           case resolved.

7    A.   My understanding is --

8                   ATTORNEY BUTING:  Objection, the -- we  
9           can -- the Court can take judicial notice of how the  
10          matter was ultimately resolved.  And unless this  
11          witness was involved in the resolution, I don't know  
12          how that is relevant.

13                   ATTORNEY GAHN:  Well, your Honor, I will  
14          take the exhibit that defense attorney has been  
15          reading from and I would like to get a complete  
16          reading of the exhibit.

17                   THE COURT:  Is the exhibit available?

18                   ATTORNEY BUTING:  Yes, it is.

19    Q.   (By Attorney Gahn)~ This is Exhibit 439 that you  
20          have seen before?

21    A.   Yes, it is.

22    Q.   And do you know, how was this case resolved  
23          against Mr. Sybers?

24    A.   Dr. Sybers pled guilty.

25    Q.   Thank you.

1                   ATTORNEY GAHN: That's all I have.

2                   **RECROSS-EXAMINATION**

3 BY ATTORNEY BUTING:

4 Q. Dr. Sybers pled guilty to time served and was  
5 released immediately, wasn't he?

6 A. That I don't know, sir.

7 Q. You haven't researched it? You didn't look that  
8 up; is that what you are saying? Do you know  
9 that Dr. Sybers was released from prison, in  
10 2003, as a result of entering a plea that was  
11 time served, after this notice was filed with the  
12 Court?

13                   THE COURT: I'm going to intercept here and  
14 stop with your comment. I think the relevance of  
15 whatever happened to him later is borderline. I  
16 believe the testimony that's relevant to this case  
17 is already in the record.

18                   ATTORNEY BUTING: All right.

19                   THE COURT: Members of the jury, we're  
20 going to excuse you for today. I apologize for  
21 running late. Again, I will remind you not to  
22 discuss the case with each other or with anyone else  
23 and we'll see you tomorrow morning.

24                   (Jury not present.)

25                   THE COURT: You may be seated. Counsel,

1 I'm not going to take up any of the outstanding  
2 motions at this time, but we probably should deal  
3 with Exhibit 466, the PowerPoint presentation of  
4 this witness that the defense objected to -- defense  
5 objected to the admission.

6 ATTORNEY BUTING: I object to it because it  
7 really draws a conclusion that -- of a dripping -- a  
8 finger dripping blood, when the State is trying to  
9 argue that that may have been the source of the  
10 blood is highly prejudicial and apparently without  
11 any foundation from this witness, according to his  
12 own testimony.

13 THE COURT: Mr. Gahn.

14 ATTORNEY GAHN: I think that the witness --  
15 that the doctor testified that his PowerPoint  
16 demonstration would be helpful to the jury. And I  
17 think he explained that on cross-examination that  
18 the only reason he used that was because it was in  
19 the Microsoft. I really don't think it has any  
20 impact.

21 THE COURT: In the Court's mind, the jury  
22 has already seen it. He's given a satisfactory  
23 explanation. I believe the jury understands it was  
24 used for illustrative purposes only and it is  
25 consistent with the opinion that he gave, so I'm

1 going to admit Exhibit 466.

2 ATTORNEY BUTING: I would also move to  
3 admit whatever -- what are those two, the curriculum  
4 vitae, No. 480, of Mr. Brewer -- Dr. Brewer, oh,  
5 and No. 479, which is the original intake internal  
6 communication document.

7 THE COURT: Are there any exhibits that you  
8 marked that you are not requesting be admitted?

9 ATTORNEY BUTING: I don't believe so. I  
10 think we have introduced everything else.

11 THE COURT: Any objection from the State to  
12 any of the marked exhibits being admitted?

13 ATTORNEY GAHN: Only to the CV of  
14 Dr. Brewer, I don't what the purpose of that is.  
15 Dr. Brewer did not testify.

16 THE COURT: He did not testify, but there  
17 was testimony he played a role in the testing of the  
18 blood, so I'm going to allow that exhibit as well.  
19 Anything else today?

20 ATTORNEY STRANG: Are 475 through 478 in?

21 ATTORNEY GAHN: Yes.

22 ATTORNEY STRANG: They are, okay.

23 THE COURT: All right. We'll see you  
24 tomorrow morning.

25 ATTORNEY GAHN: Your Honor, may Dr. LeBeau

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go back to Virginia?

THE COURT: Assuming the defense isn't asking him to say.

ATTORNEY BUTING: No, we're not.

THE COURT: He is excused.

THE WITNESS: Thank you, your Honor.

(Proceedings concluded.)

1 STATE OF WISCONSIN )  
 )ss  
2 COUNTY OF MANITOWOC )  
3

4 I, Diane Tesheneck, Official Court  
5 Reporter for Circuit Court Branch 1 and the State  
6 of Wisconsin, do hereby certify that I reported  
7 the foregoing matter and that the foregoing  
8 transcript has been carefully prepared by me with  
9 my computerized stenographic notes as taken by me  
10 in machine shorthand, and by computer-assisted  
11 transcription thereafter transcribed, and that it  
12 is a true and correct transcript of the  
13 proceedings had in said matter to the best of my  
14 knowledge and ability.

15 Dated this 2nd day of January, 2008.  
16  
17  
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19 \_\_\_\_\_  
Diane Tesheneck, RPR  
20 Official Court Reporter  
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