

1 earlier this morning.

2 People's Exhibit 164 would be the
3 notes of Dr. Deadman. Again, I gave
4 those to Mr. Insero.

5 (Marked.)

6 THE COURT: Is that it?

7 MR. BOLEN: Yes.

8 THE COURT: Okay, bring the jury
9 in, please.

10 (Whereupon, the jury enters the
11 courtroom.)

12 THE COURT: All right, call your
13 next witness.

14 MR. BOLEN: The People would call
15 Linda Duffy.

16 L I N D A D U F F Y, a
17 witness called on behalf of the People,
18 having been first duly sworn, was
19 examined and testified as follows:

20 THE COURT CLERK: Would you please
21 be seated. Would you state your full
22 name for the record, spell your last
23 name and state your occupation and
24 business address, please?

1 THE WITNESS: My name is Linda
2 Duffy, D-u-f-f-y. I work for the
3 Westchester County Department of
4 Laboratories and Research in Valhalla,
5 New York.

6 THE COURT CLERK: Thank you.

7 THE COURT: Proceed.

8 MR. BOLEN: Thank you.

9 DIRECT EXAMINATION

10 BY MR. BOLEN:

11 Q Miss Duffy, how long have you been
12 associated with the Department of Laboratories
13 and Research, and what is it that you exactly do
14 for that particular agency?

15 A I worked in the Forensic Serology
16 Section for five years.

17 Q Try to keep your voice up.

18 THE COURT: Speak into the
19 microphone.

20 A I worked in the Westchester County
21 Forensic Serology Laboratory for the past five
22 years.

23 Q Your voice is trailing off.

24 A I worked as a forensic serologist. I

1 examine evidence for the presence of
2 physiological stains, such as blood, semen and
3 saliva.

4 Q How long have you been doing that?

5 A Five years.

6 Q At this time could you briefly and
7 concisely tell the ladies and gentlemen of the
8 jury, aside from your current work experience,
9 what you have been doing, what your training and
10 background is in that particular area?

11 A Before joining the Westchester County
12 Department of Laboratories and Research I worked
13 for six years as a medical technologist in the
14 blood bank in the Northern Westchester Hospital.

15 During my time there and during the time I
16 worked for the Westchester County Department of
17 Laboratories and Research I've attended the
18 annual meetings of the Northeastern Association
19 of Forensic Scientists to update myself on
20 current techniques, also several workshops each
21 year.

22 My background includes a masters of
23 science in forensic science from the University
24 of New Haven, and a bachelor of science from

1 Hartwick College in medical technology.

2 Q Prior to today, and in other courts of
3 this particular state, have you testified with
4 respect to the area of serological analysis as it
5 pertains to blood and seminal fluid and similar
6 type body fluids?

7 A Yes, I have.

8 Q Would it be fair to say that your
9 particular area exclusively deals with the area
10 of forensic bodily fluids and serology and
11 fluids?

12 A At present I'm also training to do DNA
13 analysis. That does cover forensic serological
14 analysis, I believe. So, yes.

15 Q So, my questions from here on out will
16 deal exclusively with your serological analysis
17 of blood and any other body fluids you have been
18 called upon to examine in connection with this
19 case; all right?

20 A Yes.

21 Q At this time I would like to direct
22 your attention to specifically November 17th,
23 1989, sometime in mid afternoon of that
24 particular day.

1 Did you have occasion to receive from a
2 Deputy Medical Examiner by the name of Dr. Louis
3 Roh certain items that he might have removed
4 during the course of an autopsy he performed on
5 the body of one Angela Correa --

6 THE COURT: Would counsel please
7 approach.

8 (Whereupon, the attorneys approach
9 the bench for a discussion off the
10 record.)

11 MR. BOLEN: May I confer with
12 counsel for a second?

13 THE COURT: Yes.

14 (Whereupon, Mr. Bolen confers with
15 Mr. Inero in a discussion off the
16 record.)

17 Q Miss Duffy, during the period of time
18 that you have been employed by the Department of
19 Laboratories and Research how many times would
20 you say approximately you have testified in the
21 particular field of serology?

22 A In excess of a dozen.

23 Q On each of those occasions were you
24 qualified to render certain opinions with respect

1 to your analysis and test results?

2 A Yes.

3 Q Would those prior occasions that you've
4 testified, would they have occurred within the
5 State of New York?

6 A Yes, within Westchester County.

7 Q Have you ever testified in any courts
8 of law outside Westchester County within the
9 State of New York?

10 A No.

11 Q Would it be fair to say that you have
12 not testified out of New York State?

13 A That's correct.

14 Q You alluded to one organization. Do
15 you belong to any particular associations or
16 organizations in the field of forensic science in
17 the criminal aspect, and more particularly the
18 serological aspect?

19 A I'm a member of the Northeastern
20 Association of Forensic Scientists, and I'm
21 currently a member of the Society of Clinical
22 Pathologists.

23 Q By the way, have you in any capacity
24 ever taken any additional course work, other than

1 the work that you've alluded to, with respect to
2 your bachelors degree and masters degree?

3 A I'm not sure I understand.

4 Q Specifically have you ever attended any
5 other courses given by a state agency in your
6 particular field?

7 A Yes.

8 Q Could you tell us about that?

9 A I attended several seminars in joint
10 connection with the University of New Haven and
11 the Northeastern Association of Scientists in New
12 Haven in several new techniques in serological
13 analysis. I also attended the FBI Quantico
14 training course for DNA analysis, completing six
15 credits with the University of Virginia for that
16 work.

17 Q You've indicated that you currently
18 have a masters in what?

19 A Forensic science.

20 Q Could you tell us at any time,
21 including the present time, whether you're
22 working towards a further post doctoral degree in
23 connection with your particular field?

24 MR. INSERO: Post doctoral?

1 MR. BOLEN: I'll withdraw that.

2 Q Are you working forwards a PhD in your
3 particular area?

4 A Not at this time, no.

5 MR. BOLEN: Your Honor, at this
6 time I would offer Miss Duffy as an
7 expert in the area of forensic science,
8 specifically the analysis of serology
9 and related bodily fluids, including
10 seminal constituents.

11 MR. INSERO: I have no objection,
12 your Honor.

13 THE COURT: All right, she's so
14 certified as an expert in the field.

15 Q A few preliminary, very general
16 questions, and then I will ask you certain
17 specific questions with respect to certain tests
18 you performed.

19 In connection with this case, whatever
20 work you might have done in connection with items
21 that might have been submitted to you for
22 analysis either from the body of Angela Correa or
23 any clothing that she might have had or any other
24 related evidence, I wonder, one, if you could

1 briefly tell the ladies and gentlemen of the jury
2 in a chronological sequence and in layman like
3 terms, how you go about testing for the presence
4 of blood, distinguishing between human and
5 animal, and then how you go beyond that to
6 determine blood type, including whatever enzymes
7 you're able to detect from the specimens that
8 might be submitted to you?

9 A On blood only?

10 Q Yes, just on blood only.

11 A When I examine physical evidence
12 submitted to the laboratory I visually examine it
13 for stains. If a stain appears to me to possibly
14 be blood, the first test I subject it to is a
15 chemical test. It's called the presumptive test
16 for blood. It's a very simple chemical test
17 involving a color change. If this test comes up
18 positive, then blood is present. But it could be
19 human, it could be animal.

20 The next test that I do is an
21 immunological test to determine whether it's of
22 human origin or animal origin. If that test
23 comes up positive as human origin, I then further
24 subject the stain, if the quantity is sufficient.

1 At each step I can stop if I don't have enough to
2 do any more analysis.

3 At this point once I've proved that
4 it's human in origin, if there's a very small
5 quantity I usually go ahead and do what's called
6 an electropheresis on the stain. There are
7 certain enzymes in the blood that perform
8 functions that they can be typed like a blood can
9 be typed A, B, O, that sort of thing. These
10 enzymes perform the same function in everybody,
11 but they can be distinguished from one person to
12 another.

13 I perform that test on the bloodstain,
14 get a result or no result. If there is
15 sufficient quantity, I then go ahead and try to
16 find out if I can find an A B O antigen present
17 in the blood corresponding to the blood types
18 that most people are present with, A, B, A B and
19 O.

20 Q Do you do an RH factor?

21 A No. An RH factor is very difficult in
22 a dried sustain. On tubes of blood from autopsy
23 victims and other tubes submitted to the
24 laboratory we will perform the RH test, but not

1 on a dried stain.

2 Q Now, when you're dealing with a stain,
3 as opposed to a fresh tube of blood drawn from a
4 live or a dead person, Miss Duffy, could you tell
5 us in the course of your analysis that you
6 performed step by step, you indicated that you
7 made the determination whether you would do
8 certain tests or not do certain tests based upon
9 the amount available to do the test?

10 A Yes.

11 Q Similarly, in the course of testing a
12 suspect stain, when you do the test do you, of
13 necessity, use up part of the sample when you do
14 that?

15 A Yes.

16 Q Now, I've asked you certain questions
17 with respect to blood. I wonder if you could
18 briefly tell the ladies and gentlemen of the jury
19 whether you are able to determine blood type from
20 bodily fluid, other than blood? If so, how does
21 one do that?

22 A Yes, it's possible to get a blood type
23 from another fluid other than blood, such as
24 semen and saliva. Eighty percent of the

1 population will secrete in their other fluids of
2 their body their blood type. These are people
3 who are called secreters.

4 What we do, in an immunological test we
5 attempt to determine if we can find those
6 substances that correspond with the blood type in
7 the particular fluid or stain submitted.

8 Q Now, again solely with respect to blood
9 and its component parts, from your vantage point
10 as a forensic scientist analyzing stains, could
11 you tell us what, if any, factors or what, if
12 any, other factors would affect your possible
13 results, and in what fashion?

14 A In relation to --

15 Q To determining whether there's blood or
16 not. Do you understand my question?

17 A I don't think so.

18 MR. BOLEN: I'll withdraw it.

19 Q When you are given a stain, and
20 assuming you have no personal knowledge where it
21 came from or where it's been, in your ability to
22 determine the blood type, could you tell us
23 whether any bacteria or contaminants might have
24 an effect with respect to the blood type?

1 MR. INSERO: I'll object to the
2 question. I think it's a four-pronged
3 question.

4 THE COURT: I'll permit it.
5 Overruled. Maybe she can explain it.

6 A Well, all the things that you've
7 mentioned are factors that determine the outcome
8 of a particular analysis on a stain, the
9 environmental factors that it's been subjected
10 to, where it's been stored, how long the stain
11 has been on the particular article. These all
12 have an effect on my analysis.

13 I have had cases where there was known
14 blood put on a particular item --

15 MR. INSERO: Your Honor, I'm going
16 to object to other cases.

17 THE COURT: Yes, I think so.

18 MR. INSERO: Thank you, your
19 Honor.

20 THE COURT: Maybe you can do it
21 without reference to a particular case.

22 MR. BOLEN: If I could just move
23 on to the next question?

24 THE COURT: Yes.

1 Q I've asked you questions with respect
2 to blood and the analysis of blood. Let me now
3 ask you, since you've already indicated you test
4 for this as well, to briefly explain to the
5 ladies and gentlemen of the jury from your
6 vantage point, forensically speaking, what the
7 components of seminal fluid would be and how you
8 go about and detecting the various constituents
9 of the seminal fluid?

10 A Seminal fluid-- it's also referred to
11 as seminal fluid, semen or seminal plasma. It's
12 all referred to as liquid produced by the male
13 reproductive organs.

14 Generally, the way I explain it is
15 there are two main fractions of semen. One is
16 the cellular fraction. This is the spermatozoa,
17 the actual cell that contains the genetic
18 material from a male.

19 The other, the liquid portion, contains
20 various enzymes, proteins, and other materials
21 from the male reproductive system.

22 When I test for semen, one of the tests
23 that I can do is to look for the cellular
24 fraction. If I find spermatozoa on a stain or an

1 article, the only place that spermatozoa can be
2 found is in semen. If I find spermatozoa in a
3 particular stain there's no question that semen
4 is present on that stain.

5 The other way to test for semen is to
6 do an immunological test we perform. There's a
7 protein found only in higher order apes and
8 semen. It's called P-30. If I find the presence
9 of this protein then I know that semen is present
10 on that particular article.

11 There's also another test. It's called
12 acid phosphatase. That's an enzyme found in high
13 levels of semen, and in other areas, but not to
14 the extent found in semen. That's a simple color
15 test.

16 Q Now, with respect to your analysis of
17 seminal fluid, do I understand you to say that
18 the two constituent parts from your vantage
19 points would be the cellular or spermatozoa?

20 A Yes.

21 Q What did you refer to as the second
22 aspect?

23 A The liquid portion. It's generally
24 referred to just as semen or seminal fluid.

1 Q Now, during the course of the time that
2 you have been employed at the Department of
3 Laboratories and Research, have you, prior to
4 your involvement in this particular case, been
5 called upon to determine the presence of any
6 seminal constituents from any swabs that might
7 have been taken from the body of an individual
8 during the course of an autopsy, one, from the
9 vaginal area?

10 A Yes.

11 Q About how many times during the course
12 of the five years that you have been working at
13 the lab have you been called upon to do that?

14 A If I had to give a number, I would
15 probably say between ten and fifteen autopsy
16 cases of women with swabs.

17 Q During the five years that you have
18 been there?

19 A Yes.

20 Q Now, I ask you the same question with
21 respect to any swabs you might have taken from
22 the anal area of any female upon whom an autopsy
23 might have been performed?

24 A Each autopsy on a female victim has the

1 same swabs taken. So, the number would be the
2 same, vaginal, rectal and oral.

3 Q Now, when you get these vaginal swabs,
4 are there times when you do them yourselves?

5 A Yes.

6 Q And are there times when you it's done
7 by a Medical Examiner and given to you?

8 A You mean the taking of the swabs?

9 Q Yes.

10 A No, I never take the swabs. That's
11 done by the Medical Examiner.

12 Q Now, when you get a vaginal or an anal
13 swab, how do you go about analyzing it? Do you
14 just look at the swab itself, or is the swab
15 transferred to something else to assist you in
16 making that determination?

17 A As with any other stain I take an
18 extract of the swab and do my tests on that. In
19 other words, I put some physiological saline in
20 with the swab, extract some of the material off
21 of the swab with that saline, and I perform the
22 test that I described, either looking for
23 spermatozoa or doing in conjunction with the P-30
24 test and the acid phosphotase test.

1 Q Do you use anything other than the
2 naked eye to make these determination?

3 A Yes. Each test is -- well, the test
4 for spermatozoa I use a microscope to aid me in
5 determining whether spermatozoa is present. The
6 others we use various apparatus at the
7 laboratory.

8 Q With respect to the utilizing of the
9 microscope with respect to determining
10 spermatozoa, do you somehow put a sample on a
11 slide to do that?

12 A Yes.

13 Q When is that done in this process, and
14 by whom?

15 A Are you talking now from a swab that I
16 receive?

17 Q Yes.

18 A I would make an extract and make the
19 slide myself, stain it. We use a stain that is
20 designed to bring out any spermatozoa that are
21 present, stains that are red and green. It's
22 called the Christmas tree stain. And I would
23 personally perform the analysis under the
24 microscope looking for the presence of

1 spermatozoa on such a slide.

2 Q If one were to look through a
3 microscope to see if there were any spermatozoa
4 present, how would they reveal themselves through
5 the microscope to you shape wise?

6 A In order for me to call it spermatozoa
7 on a particular slide it has to really look like
8 a text book spermatozoa. It must have a head
9 with a neck, a mid piece and a tail sufficiently
10 long to make a determination that this is indeed
11 an intact spermatozoa.

12 Q Now, when you reference an intact
13 spermatozoa, what does that indicate to you,
14 forensicly speaking?

15 A That semen is present in whatever I
16 took that extract from.

17 Q Now, if one were to look through a
18 microscope and not -- and observe sperm, but it
19 not being intact, what, if anything, can you
20 determine from that, forensicly speaking?

21 A There are several reasons why they
22 would not be intact.

23 Q Could you explain that to us?

24 A One can be just mechanical in the

1 physical making of the slide. You can rip the
2 tails off. Also, the environmental factors that
3 I mentioned before on the particular items or
4 stains, bacteria. The bacteria will slice the
5 tails off and separate them from the heads.

6 Q Let me follow up on that. You used the
7 word bacteria. Could you please tell the ladies
8 and gentlemen of the jury, utilizing the human
9 anatomy, and particularly the female human body,
10 could you tell us what, if any, impact urine
11 and/or feces might have with respect to the
12 detection of spermatozoa in an intact fashion,
13 and if there's any difference between the two
14 please let us know.

15 A Well, urine on a normal person without
16 a urine infection has no bacteria in it.
17 Bacteria wouldn't be a factor with that. The PH
18 of the urine could have a negative impact on the
19 spermatozoa. I'm not familiar -- I can't talk
20 too much about that.

21 Q Fine.

22 A Fecal material is loaded with bacteria.
23 Anything contaminated with fecal material, the
24 spermatozoa would not remain intact for more than

1 a few hours.

2 Q In terms of determining the age of
3 sperm that you might see under a microscope,
4 could you tell us -- you've already described to
5 us the term of intact, head, a neck, a body and a
6 tail. What about the concept of movement or
7 motility. Can you explain that to us?

8 A Our laboratory does not do any motility
9 studies. When I get a slide or I make a slide, I
10 immediately heat-fix it to the glass, the
11 material on there. That would destroy any
12 motility that was present.

13 Then, like I said, I physically stain
14 the material on the slide. So, I never see
15 motility on the slides that I look at at the
16 laboratory.

17 Q But from a forensic viewpoint, motility
18 would be similar to movement?

19 A Motility means movement.

20 Q But your lab does not perform those
21 tests, is that correct?

22 A Correct.

23 Q Now, getting back to the swabs that
24 might be taken from the vaginal area which you've

1 indicated is done by a pathologist who performs
2 an autopsy -- is that correct?

3 A Yes.

4 Q That's the practice within the Medical
5 Examiner's Office of Westchester County?

6 A Yes.

7 Q In connection with this case, do you
8 know the name of the physician who performed the
9 autopsy on the body of Angela Correa?

10 A Yes, I was present when the swabs from
11 this particular case were taken by Dr. Louis Roh.

12 Q So, you saw him take what type of
13 swabs, and from where?

14 A I saw him take vaginal swabs from the
15 vaginal area of Angela Correa's body.

16 Q Do you recall whether or not any anal
17 swabs might have been taken?

18 A Anal swabs were submitted, along with
19 oral swabs. However, I was not present when
20 those particular swabs were taken.

21 Q Now, in terms of the constituent
22 elements of seminal fluid, drawing upon your
23 background, training and experience in the area,
24 how long can the constituent elements of

1 spermatozoa remain in the vaginal area, assuming
2 there has been some type of contact between a man
3 and a woman such that the penis of a male entered
4 the vaginal area and there was an ejaculation and
5 depositing of some seminal fluid within that
6 area?

7 A Are you talking on a live person or a
8 dead body?

9 Q Let's start with a live person.

10 A Generally, it's our laboratories policy
11 if we find spermatozoa in the vaginal area, we
12 say that coitis has taken place within
13 twenty-four hours. The environment in the
14 vaginal area is not conducive to spermatozoa
15 staying around for more than that, that the
16 normal bacterial will destroy them and eventually
17 just disappear.

18 Q Now, when you say twenty-four hours,
19 would that be twenty-four hours going back in
20 time from when the seminal fluid was deposited?

21 A Correct.

22 Q Now, what about -- let me ask you the
23 same question with respect to the other
24 constituents of seminal fluid, other than

1 spermatozoa?

2 A The same applies. After the
3 twenty-four hour point very little constituents
4 are found.

5 Q Now, you've indicated what the office
6 policy is of the Department of Laboratories and
7 Research. Are you familiar with the literature
8 in this particular area?

9 A Somewhat, yes.

10 Q In general, with respect to the -- with
11 respect to how long reasonably speaking the
12 constituent fluids remain in the vaginal area,
13 how long would that be?

14 A There have been cases reported in the
15 literature stating up to seven days in the
16 vaginal area.

17 Q Let me ask you this: Is there any way
18 for you to determine whether --

19 MR. BOLEN: Withdrawn.

20 Q With respect to the series of questions
21 I just asked you with respect to how long seminal
22 fluid can remain in the vaginal area, would your
23 answers be the same or any different with respect
24 to the -- assuming it were deposited there, the

1 presence of seminal fluid in the anal area?

2 A In the anal area, as I mentioned
3 before, the number of bacteria in that particular
4 area is so high that generally you do not find
5 seminal constituents after hours. I'd say in my
6 experience, in my cases, no longer than six hours
7 after anal contact.

8 Q Now, in connection with this case there
9 was a point in time on the afternoon of November
10 17th, 1989 when you were present in the autopsy
11 room with, among others, Dr. Roh, is that
12 correct?

13 A Yes.

14 Q And prior to that time earlier that
15 afternoon had you received any items from Dr.
16 Roh, independent of those things that you might
17 have taken yourself later on that day in the
18 autopsy room?

19 A In connection with this case?

20 Q Yes.

21 A I was called in before the autopsy was
22 started, so I viewed the body while the pictures
23 were being taken. There was a point where I left
24 the autopsy room after the original vaginal swabs

1 were taken where I went back to the laboratory,
2 made a slide from that and viewed spermatozoa. I
3 then returned to the autopsy room and requested
4 Dr. Roh to take more vaginal swabs.

5 Q All right, you've answered my question
6 of what I was getting to.

7 Let me ask you this: Based upon your
8 own observations of the body --

9 MR. BOLEN: Withdrawn.

10 Q At some point in connection with this
11 case --

12 MR. BOLEN: May I have one moment,
13 please.

14 (A brief pause.)

15 Q In going ahead in time to November
16 20th, 1989, shortly after ten o'clock, on that
17 particular day do you recall receiving from the
18 Peekskill Police Department certain items of
19 clothing, yes or no?

20 A Yes.

21 Q And among the other items you might
22 have received, would they have included a pair of
23 underpants?

24 A Yes.

1 Q A pair of blue jeans?

2 A Yes.

3 Q And a bra?

4 A Yes.

5 Q Now, at some point was your attention
6 drawn to that set of underpants?

7 A I performed my regular analysis on
8 those underpants, yes.

9 Q And I have one specific question of you
10 as to the underpants at this point, and I will
11 ask you some more questions with respect to your
12 various tests of the underpants later on. But
13 let me ask you this:

14 When you first observed and were about
15 to commence your analysis of the underpants what,
16 if anything, were you able to detect, either with
17 your outward senses or a microscope, if
18 necessary, as to the presence or absence of any
19 fecal material on the underpants?

20 A Fecal material was apparent on the
21 underpants, both visually and with my nose.

22 Q And going back to November 17th, 1989
23 when you were in the autopsy room where the body
24 was, were you able to determine or make any

1 similar observations with respect to the presence
2 of any fecal material on or about the body?

3 A There was fecal material in other
4 areas, other than the immediate anal area.

5 Q And again in response to one or more
6 questions I previously posed to you, fecal
7 materials, among other things, contains bacteria
8 which would affect spermatozoa, is that correct?

9 A Yes.

10 Q Now, I now would like to ask you
11 certain questions with respect to certain tests
12 you performed on November 17th, 1989 sometime
13 later that afternoon.

14 Now, on that particular day did you
15 have occasion to receive from Dr. Roh or be
16 present when certain vaginal swabs were taken?

17 A Yes.

18 Q Approximately how many in number?

19 A I believe there were eight in total.

20 Q And when we say a swab, what
21 specifically are we referring to that was
22 utilized to extract, if you will, a specimen from
23 the vaginal area?

24 A Our laboratory uses applicator swabs

1 which are approximately six inches in length. It
2 looks like a Q-tip with a wooden stick.

3 Q At some point later that day or
4 thereafter did you have occasion to perform
5 certain serological tests with respect to one of
6 more of those vaginal swabs to detect the
7 presence of any seminal fluids, including
8 spermatozoa?

9 A Yes.

10 Q What were the results?

11 A I found the presence of spermatozoa on
12 the swabs. I treated all the swabs, because I
13 was present when they were taken. I treated all
14 the swabs as one specimen. In other words,
15 assuming that spermatozoa was on one, spermatozoa
16 was on all of them, because they were taken at
17 the same time in the same area. Spermatozoa was
18 present, so that indicates that semen was present
19 on those particular swabs.

20 Therefore, I went ahead and did the
21 test to determine whether I could find any blood
22 group substances corresponding to a blood type on
23 the swabs. I performed that test, and I found
24 there was the presence of blood group substance A

1 and H.

2 When the blood bankers were naming
3 antigens and substances they didn't make it easy.
4 Blood type O means the absence of A or B antigen.
5 There is no O blood substance. They called it H.
6 So, the antigen that determines that you are O,
7 what we find when we do the blood typing is H.
8 So, the presence of A and H would indicate the
9 substances came from most probably an A type
10 person.

11 H is found on all cells. Everybody has
12 H. It's a building block. H is what you make A
13 from. It's what your body makes B from. So, A
14 people have H, but not as much as O people,
15 because they haven't used any to make A or B.

16 So, the presence of A and H most
17 probably indicates that that came from an A type
18 person. It could also be a combination of an A
19 secreter person and an O secreter person, or two
20 A secreter people. There's no way to determine
21 with that test how many people's fluids are mixed
22 in that particular stain.

23 The next test that I performed on the
24 vaginal swab was the test for the enzyme typings.

1 Those are performed. The first enzyme is called
2 ESD. That's called for Esterase D. I found that
3 to be type one.

4 The second enzyme is PGM. That stands
5 for Phostoglucomutase. That I determined to be
6 type one also.

7 The next enzyme that I tested for was
8 GLO. That stands for Glyoxilase. That I also
9 determined the presence of type one. These
10 enzymes and the blood group substances were
11 consistent with the enzymes that I tested in the
12 tube of blood submitted from Angela Correa's
13 body. They're consistent with her blood type and
14 her enzyme types.

15 Q And specifically I was about to ask you
16 to a reasonable degree of scientific certainty,
17 what was Angelo Correa's blood type?

18 A She was A.

19 Q I asked you about the constituents of
20 the seminal fluid. How about a man and a woman
21 engaging in sexual intercourse? What fluids
22 would a male excrete or generate?

23 A If you're talking about what would be
24 found on the vaginal swabs?

1 Q Yes.

2 A It would be a mixture of the vaginal
3 secretions from the woman and the seminal
4 constituents of the man.

5 Q So, that when you just recently
6 mentioned that with respect to some of your
7 analyses as to the vaginal swabs, that they
8 corresponded to Angela Correa, you're talking
9 about the secretions of Angela Correa, is that
10 correct?

11 A That's correct. The vaginal swab is a
12 mixture of the semen and the victim's vaginal
13 secretions. In this case I was unable to detect
14 any constituents, any types on the enzymes or the
15 ABO that did not correspond with the victim.

16 Q Now, again during the course of that
17 particular afternoon, among other things, did you
18 have occasion to receive and/or participate in
19 the removal of what we call certain pubic
20 controls from the vaginal area of Angela Correa's
21 body?

22 A I can't remember whether I was actually
23 present when that was taken. As I said, I did
24 leave the autopsy room. But I did receive

1 specimens marked pubic from Angela Correa and
2 scalp marked Angela Correa, as in the course of a
3 normal autopsy I would receive the pubics, the
4 hair samples and the swabs.

5 Q With respect to the pubic hairs you
6 received from her, would they be manually
7 extracted from her pubic areas?

8 A Yes.

9 Q They're called controls for the
10 purposes of comparisons?

11 A Yes.

12 Q Apart from the pubic controls, did
13 there come a time that day that you had occasion
14 to receive what we call pubic combings from the
15 vaginal area as distinguished from pubic
16 controls?

17 A Yes. We provide the autopsy room with
18 kits containing the various swabs and slides that
19 we require for analyses on an autopsy victim
20 homicide. This includes a paper towel, an
21 envelope with a comb, to comb the vaginal area to
22 determine whether there are any foreign hairs
23 mixed in with the victim's hair.

24 Q Now, in connection with this case, to

1 your knowledge, who was it that took the public
2 controls?

3 A I believe it was -- the controls?

4 Q The controls.

5 A That I don't remember whether I was
6 present for it. Most probably it would be Dr.
7 Roh, but I really couldn't say.

8 MR. INSERO: I'll object to the
9 most probably answer.

10 THE COURT: Sustained.

11 Q Let me ask you this, Miss Duffy: Dr.
12 Roh, what's his full name again?

13 A Doctor Louis Roh.

14 Q To your knowledge, where is he from?

15 A Korea.

16 Q Now, did there come a point in time on
17 November 17th of 1989 that you had occasion to be
18 in the autopsy room when the body of Angela
19 Correa was still there, and to remove what we
20 will call certain artifacts from her body?

21 A Yes.

22 Q And specifically, in terms of artifacts
23 that would have been removed from her skin
24 surface and solely with respect to that, as you

1 sit here now do you recall the specific order
2 that you retrieved those artifacts from, and from
3 what parts of the body?

4 A The specific order?

5 Q Yes.

6 A No. But I know what I picked up.

7 Q Directing your attention now to
8 specifically the breast area of Angela Correa, do
9 you recall what, if any, artifact you might have
10 removed from that area?

11 A Yes. I removed a hair-like artifact.
12 I'm not a hair expert, I'm not a fiber expert.
13 When I see a foreign material I can only describe
14 it as to what it looks like to me, hair-like or
15 fiber-like.

16 Q So, do you recall from which breast it
17 might have been removed?

18 A The right breast.

19 Q Next, do you recall whether or not you
20 yourself or in your presence any type of artifact
21 was removed from any portion of the feet of
22 Angela Correa?

23 A I removed another hair-like artifact
24 from the right leg above the right foot sock

1 area.

2 Q When you did that were socks on the
3 foot or not?

4 A I believe there was a sock on the foot,
5 yes.

6 Q So the record is clear here, when you
7 removed that artifact, was it removed from the
8 sock or the skin?

9 A The skin.

10 Q Where in relation to the sock was it?

11 A Above it.

12 Q How close or how far?

13 A Not that far. Within several inches of
14 the sock.

15 Q In any event, it would be somewhere
16 between the ankle and the knee?

17 A Correct.

18 Q And, lastly, do you recall whether or
19 not with respect to either the right or the left
20 arm you had occasion to remove any type of
21 artifacts?

22 A I removed another artifact from the
23 left arm.

24 MR. INSERO: The left arm?

1 THE WITNESS: The left arm.

2 MR. INSERO: Thank you.

3 Q Now, I've asked you a series of
4 questions with respect to whether any swabs were
5 taken of the vaginal area and the anal area. Let
6 me ask you this:

7 To your knowledge would it be the
8 course of the procedure on a female individual,
9 in addition to those swabs that were taken from
10 the mouth area --

11 A From a homicide victim, yes, we take
12 from female and male, oral swabs, yes.

13 Q Now, to your knowledge, that was done
14 in this case since swabs like that were given to
15 you?

16 A They were submitted, yes.

17 Q Now, with respect to any analyses you
18 might have thereafter done, and to a reasonable
19 degree of scientific certainty with respect to
20 any oral mouth swabs, the results were what with
21 respect to the presence or absence of
22 spermatozoa?

23 A I didn't test the oral swab for the
24 presence of spermatozoa. I performed the

1 chemical and immunological tests to determine
2 whether semen was present, and the results were
3 negative.

4 Q What is your --

5 MR. BOLEN: Withdrawn.

6 Q With respect -- you've already given us
7 the results with respect to the vaginal swabs.
8 Again, what were your results to a reasonable
9 degree of scientific certainty with respect to
10 the rectal swabs for seminal constituents?

11 A They were negative again for the acid
12 phosphotase and the P-30 test.

13 Q What does that mean in the context of
14 the fact that you have indicated there had been
15 some defecation in this particular case?

16 A I'm not sure exactly what you want
17 there.

18 MR. BOLEN: Let me withdraw the
19 question.

20 Q Could you tell us to a reasonable
21 degree of scientific certainty what, if anything,
22 fecal matter might have played with respect to
23 the area of the anal swabs?

24 A I would expect fecal material on the

1 rectal swabs.

2 Q Okay, fine. Now, the artifacts that
3 you have previously described that you removed,
4 the right breast above the right leg, and the
5 left arm, as well as the pubic controls and the
6 pubic combings, do you recall whether or not in
7 connection with this case any or all of those
8 various things were mounted on some type of
9 slides, yes or no?

10 A By myself, no. I gave them to the
11 trace evidence department of our laboratory.

12 MR. INSERO: What department?

13 THE WITNESS: The trace evidence
14 department.

15 MR. INSERO: Thank you.

16 A Specifically Karen Lamminen of the
17 laboratory. And I have seen them mounted. So,
18 yes, they were mounted, but not by me.

19 Q Would you now take a look ceriatum and
20 collectively at what has previously been marked
21 for identification as People's Exhibit 162 A
22 through G.

23 (Witness examines.)

24 Q Have you had a chance to look at each

1 of those which comprise Exhibit 162 A through 162
2 G?

3 A Yes.

4 Q At some point between November 17th,
5 1989 and today have you had occasion to see each
6 of those particular slides?

7 A Yes, visually.

8 Q Now, could you tell us whether those
9 various slides would comprise, among other
10 things, the three artifacts that you had removed?

11 A Yes, they are present here.

12 Q As well as one or more elements from
13 the pubic controls and/or pubic combings?

14 A Correct.

15 MR. BOLEN: May I have those back,
16 please.

17 Q As you've already indicated, you have
18 no expertise in the area of hair fiber analysis,
19 is that correct?

20 A That's correct.

21 Q Now, going ahead in time to November
22 20th, 1989, I've already had occasion to ask you
23 one question with respect to the underwear.
24 You've already indicated that on that day, among

1 other things, you saw underpants, a bra and
2 jeans, is that correct?

3 A Yes.

4 Q Were you also provided on that day with
5 what would be denominated as twigs and leaves?

6 A Yes.

7 Q Now, could you tell us whether with
8 respect specifically to the jeans, the bra and
9 the underwear, whether you performed any tests to
10 determine the presence or absence of semen?

11 A I did on each article.

12 Q With what results, to a reasonable
13 degree of scientific certainty?

14 A I found no evidence of semen on any of
15 the articles.

16 Q Did you notice or observe with your
17 eyes what appeared to you to be certain stains on
18 one or more of those objects?

19 A I tested stains on each of the objects,
20 yes.

21 Q Would it be fair to say when you do
22 that, before you do an analysis, that you do
23 certain cuttings of the stained area and then
24 take certain cuttings of control areas?

1 A Yes, where possible I take a control
2 area.

3 Q Now, in this particular case with
4 respect to the bra, the underpants and the jeans,
5 once you were done with your testing would it be
6 fair to say that they would not be in the same
7 condition with respect to the presence of certain
8 holes where you had taken certain cuttings?

9 A Where I take cuttings I mark the holes
10 with a stain designation one, two. I mark which
11 ones are controls, and I mark each article with
12 my case number, the article designation and
13 initials, so they would have writing all over
14 them.

15 Q Now, going ahead in time now to the new
16 year. We're into the new year, specifically on
17 January 11th of 1990, at some point on that
18 particular morning did you have occasion to
19 receive one or more items from a Detective Paul
20 Astrologo of the Peekskill Police Department?
21 And if so, what would those items be?

22 A Yes, I received a box with two tubes of
23 blood contained within it.

24 Q Did you then have occasion to perform

1 certain serological analyses to determine the ABO
2 blood type of the blood contained in those
3 particular tubes?

4 A I did.

5 Q With what result, to a reasonable
6 degree of scientific certainty?

7 A I determined the blood to be from an AB
8 individual.

9 MR. INSERO: I'm sorry, a what?

10 THE WITNESS: AB.

11 Q You were not present when those tubes
12 of blood were drawn?

13 A I was not.

14 Q Nevertheless, were you advised that was
15 the blood of one Jeffrey Deskovic?

16 A It was labeled as such, yes.

17 Q Now, I know you briefly explained to
18 the ladies and gentlemen of the jury the ABO
19 system and how it breaks down. Approximately
20 speaking, there are four categories under the ABO
21 system, is that correct?

22 A Yes.

23 Q I wonder if you could briefly tell the
24 ladies and gentlemen of the jury what the four

1 categories are going from the most prevalent to
2 the least prevalent?

3 A The most common type is type O. The
4 second most common is type A. The third most
5 common is B, and the least common is AB.

6 Q Now, did you --

7 MR. BOLEN: If I could have one
8 moment. I'm almost finished with my
9 direct examination.

10 (A brief pause.)

11 Q Miss Duffy, with respect to the autopsy
12 blood specimen, the tubes taken during the
13 autopsy of Angela Correa, as well as any one or
14 more of the vaginal swabs that were taken of her
15 vaginal area during the course of that autopsy,
16 as well as the tubes of blood that you were given
17 on January 11th of 1990 and upon which you
18 performed certain testing, did there come a time
19 in January, specifically mid January, on or about
20 January 17th of 1990, that you had occasion to
21 forward by express carrier certain of those items
22 to the Federal Bureau of Investigation, and
23 specifically their DNA laboratory in Washington,
24 D.C.?

1 A Yes.

2 Q Could you tell us as concisely as
3 possible what it was that you sent of those
4 various items to the laboratory in Washington,
5 D.C.?

6 A The DNA laboratory in Washington will
7 not accept a tube of blood, wet blood.
8 Therefore, of the two tubes that I received on
9 January 11th marked Jeffrey Deskovic, I took one
10 tube and transferred it to clean cotton, white
11 cotton cloth, and allowed that to dry. I
12 submitted that as a specimen of known origin of
13 Jeffrey Deskovic.

14 I also submitted a similar cloth made
15 from the tube of blood taken at autopsy from
16 Angela Correa, and I stored it in the freezer.
17 Also, a vaginal swab taken at the autopsy from
18 Angela Correa.

19 Q And directing your attention forward in
20 time, did there come a period in June of 1990, on
21 or about June 19th of 1990, give or take a couple
22 of days, that you had occasion to receive back
23 from the FBI laboratory in Washington, D.C.
24 various component parts of the items that you had

1 sent down to them in January?

2 A Yes, I did receive back what they
3 didn't use.

4 Q Now, early on in my examination of you
5 I asked you with respect to -- drawing upon your
6 training, experience and background in this area,
7 I asked you how long one or more of the
8 constituent elements of seminal fluid deposited
9 by a male in the female vaginal area could remain
10 within the vaginal area. You gave your answers
11 with respect to that, is that correct?

12 A Yes.

13 Q I did not ask you, again drawing upon
14 your training, background and experience, how
15 long one or more of the constituents of seminal
16 fluid would remain in the vaginal area remain
17 there post mortem, after the death of the female.
18 In your experience, what would your answer be to
19 that?

20 A The vaginal area of a corpse would be
21 changed from a living vaginal area. The presence
22 of spermatozoa would last twenty-four hours in a
23 living body. After death the area is not as
24 harsh an environment to the spermatozoa as

1 previously. There have been cases where
2 spermatozoa had been found a week or more after
3 death, assuming that it was deposited before
4 death within a twenty-four hour period.

5 MR. BOLEN: May I have just one
6 moment, your Honor.

7 (A brief pause.)

8 MR. BOLEN: Judge, I think that
9 would conclude my direct examination.

10 THE COURT: Okay, this is a good
11 time to stop. Let's take a lunch
12 break. Let's come back at a quarter to
13 two. We'll have a short lunch break,
14 because we have a full day.

15 Don't discuss the case amongst
16 yourselves or with anybody else. We'll
17 see you at 1:45 p.m.

18 (Whereupon, the Court declares a
19 luncheon recess at 12:55 p.m., and the
20 trial resumes at 1:50 p.m.)

21 MR. BOLEN: This is the transcript
22 of the Grand Jury testimony of Martin
23 Burrett, pages seventeen through
24 twenty-two. At the Court's direction,

1 I'm providing a copy of this to Mr.
2 Insero.

3 MR. INSERO: Your Honor, I'll look
4 it over right here, if I may.

5 (Marked.)

6 (Whereupon, Mr. Insero examines
7 said document.)

8 THE COURT: Okay, bring the jury
9 in.

10 (Whereupon, the jury enters the
11 courtroom.)

12 THE COURT: Good afternoon. Bring
13 the witness back.

14 (Whereupon, the witness Linda
15 Duffy returns to the witness stand.)

16 THE COURT: Go ahead, Mr. Insero.

17 MR. INSERO: Your Honor, I don't
18 know if Mr. Bolen is finished.

19 MR. BOLEN: Your Honor, one
20 question.

21 DIRECT EXAMINATION

22 BY MR. BOLEN: (Continued)

23 Q You made mention of Karen Lamminen?

24 A Yes.

1 Q Who is she?

2 A She's a scientist assigned to the trace
3 evidence laboratory.

4 Q Who is Robert Adamo?

5 A He's the supervisor of both the
6 serology and the trace evidence section.

7 MR. BOLEN: Thank you. I've no
8 further questions.

9 THE COURT: All right, Mr. Insero.

10 MR. INSERO: Thank you. Miss
11 Duffy, I have no questions for you.

12 THE COURT: Thank you.

13 (The witness is excused.)

14 THE COURT: Call your next
15 witness.

16 MR. BOLEN: The People call Peter
17 DeForest?

18 P E T E R D e F O R E S T, a
19 witness called on behalf of the People,
20 having been first duly sworn, was
21 examined and testified as follows:

22 THE COURT CLERK: Would you please
23 be seated. Would you state your full
24 name for the record, spell your last

1 name and state your occupation and
2 business address for the record?

3 THE WITNESS: Peter R. DeForest,
4 D-e-F-o-r-e-s-t. I'm a Professor of
5 Criminalistics at John Jay College of
6 Criminal Justice, City University of
7 New York.

8 THE COURT: Thank you. Please
9 proceed.

10 MR. BOLEN: Thank you.

11 DIRECT EXAMINATION

12 BY MR. BOLEN:

13 Q Dr. DeForest, while you're here please
14 keep your voice up.

15 Having just indicated that you're a
16 Professor of Criminalistics at John Jay College
17 in the City of New York, I wonder if you could
18 briefly tell the ladies and gentlemen of the jury
19 what would be the areas that you particularly
20 teach?

21 A The areas of trace evidence and crime
22 scene reconstruction. The term criminalistics
23 applies to the use of science in dealing with
24 legal questions, trying to have some input on

1 resolution of legal questions. So, that the
2 areas I specialize in would be the trace
3 evidence, the trace and transfer evidence and
4 reconstruction.

5 Q Would your particular area that you
6 cover include hair and fiber analysis?

7 A The hair and fiber area is part of
8 trace evidence.

9 Q Now, I'm going to do this, even for me
10 in logical sequence. I wonder at this time if
11 you could tell the jury your educational, your
12 academic training in the areas you've just
13 described?

14 A I have a bachelor of science degree in
15 criminalistics from the University of California,
16 Berkeley, and a doctor of criminology degree in
17 criminalistics in Berkeley.

18 Q Did you study under any one particular
19 person who is fairly well known?

20 A My mentor was Dr. Paul Kirk who was the
21 pioneer in forensic science education and
22 research.

23 Q At this time could you tell us
24 something of what you do at John Jay College,

1 your particular area of expertise?

2 A I teach three discrete groups. I have
3 a program, a bachelor of science degree in
4 criminalistics, we have a masters, and also a PhD
5 concentration in the criminalistics PhD programs.

6 I have three kinds of students. The
7 courses I teach deal with microscopy and trace
8 evidence, and some forensic serology, as well.

9 Q What would be your professional
10 background prior to joining the faculty at John
11 Jay?

12 A I have had a series of jobs that I
13 worked when I was still a student. I was -- I
14 first started in the field about thirty years ago
15 in a sheriff's laboratory in California, and then
16 I did some work study in other police
17 laboratories.

18 I also worked on some Federal grants in
19 the area of forensic toxicology while I was a
20 graduate student. I consulted with my mentor in
21 his private laboratory also while I was a
22 doctoral student.

23 Q At this time could you tell us any
24 formal teaching students you may have had?

1 A There have been a number of lectures
2 and teaching assignments at other universities,
3 Northeastern University in Boston, the University
4 of New Haven in New Haven, Connecticut. I can't
5 recount all of these, but I've lectured or taught
6 things at various other universities.

7 Q With respect to your PhD you secured,
8 what was your doctoral dissertation in?

9 A The forensic of hair by pyrosis
10 photography.

11 Q Could you tell us any society
12 memberships you have?

13 A I'm a Fellow of the American Academy of
14 Sciences. I'm a life-long member of the
15 Northeastern Association of Sciences. I'm a
16 member of the American Chemical Society for the
17 Advancement of Science, a Board Member of the New
18 York Microscopic Society, and I am a Board Member
19 of the New York Society of Forensic Scientists.
20 I'm a member of the California Association of
21 Criminalistics, a member of the Canadian Society
22 of Forensic Sciences-- Forensic Society is the
23 proper term.

24 Q With respect to any publications that

1 you might have individually or jointly authored,
2 have you done so with respect to any particular
3 books?

4 A Yes. I have co-authored a book with
5 two colleagues and contributed chapters to
6 several other books. The total number I've
7 forgotten right now, but one book is actually
8 co-authored and several I have a contribution of
9 chapters.

10 Q In addition, have you offered any
11 articles in your particular field or fields?
12 And if so, can you give us the approximate
13 number?

14 A Something over thirty articles in
15 various scientific journals.

16 Q Now, in addition to your teaching
17 assignments at John Jay, do you also have and
18 maintain a private consultancy business?

19 A Yes.

20 Q Could you please tell us a little about
21 that?

22 A As a sideline I have for about the last
23 twenty years or so maintained a consulting
24 practice which started out very small and has

1 become more like the tail wagging the dog at this
2 point, and I really have to keep a lid on that,
3 but it is engaging in these areas of consulting
4 with attorneys, both prosecution and defense, and
5 also in civil case work, as well, that deal with
6 physical evidence problems, particularly trace
7 evidence and reconstruction areas.

8 Q Prior to today have you testified in
9 any courts in the State of New York with respect
10 to your particular fields, specifically hair and
11 trace evidence?

12 A Yes, I have.

13 Q About how many times within any state
14 courts of the State of New York?

15 A I really don't know how many times it
16 would be within New York. But New York would
17 probably be something in the majority of the
18 cases that I've testified to, a rough number
19 about one hundred times I've testified in total.
20 So, perhaps forty or fifty of those would be in
21 New York State.

22 Q And the others, would they be in other
23 courts, that is state courts or federal courts or
24 both?

1 A Both.

2 Q What other states have you testified?

3 A Obviously things nearby, Connecticut,
4 Rhode Island, Massachusetts, New Jersey,
5 Pennsylvania, Delaware, Virginia, Florida,
6 Louisiana, California.

7 Q Now, Dr. DeForest --

8 MR. BOLEN: At this time, your
9 Honor, I would propose that Dr.
10 DeForest is an expert in the area of
11 criminalistics, particularly with
12 respect to trace evidence and hair and
13 fiber analysis.

14 MR. INSERO: I have no objection,
15 your Honor.

16 THE COURT: He's so certified in
17 criminalistics and other related
18 matters.

19 Q Now, Dr. DeForest, I wonder at this
20 time if you could briefly and concisely explain
21 to the ladies and gentlemen of the jury what is
22 cannated by the terms transfer evidence or trace
23 evidence?

24 A There is somewhat of a casual use of

1 these terms. Strictly speaking, trace evidence
2 applies to things that are very, very small,
3 little bits, traces of things that are exchanged
4 between surfaces. That exchange process is
5 called transfer. So, very often what's
6 transferred is, in fact, the bits of small
7 materials.

8 The terms tend to be used jointly, but
9 really they have separate meanings. The transfer
10 implies the exchange between the two surfaces.

11 Q Early on in answer to one of your
12 questions, Doctor, you used the word microscopy?

13 A Yes.

14 Q Does that have to do with microscopes?

15 A Yes, it does.

16 Q In connection with this particular
17 case, on or about April 16th of this year, do you
18 recall receiving at your offices -- by the way,
19 where would your consultancy office be located in
20 New York?

21 A In Hartsdale.

22 Q Again, on that date do you recall
23 receiving a number of slides on which were
24 mounted various type of hairs, those items being

1 delivered to you by two individuals or perhaps
2 one individual, and maybe two, a Robert Adamo and
3 a Karen Lamminen of the Department of
4 Laboratories and Research of Westchester County?

5 A Yes, I do.

6 Q Jumping ahead in time to on or about
7 September 7th of 1990, on that particular day do
8 you recall again at your offices in Hartsdale
9 receiving from Mr. Adamo and Miss Lamminen a
10 number of known hair exemplars from an individual
11 by the name of Jeffrey Deskovic, specifically
12 certain head hairs, and of more particular
13 significance here, certain known pubic control
14 hairs?

15 A Yes, I do.

16 Q Now, I wonder if I could just ask you,
17 Dr. DeForest, with respect to your analysis of
18 hair-like, hair artifacts or hair-like artifacts,
19 and particularly with respect to hair artifacts,
20 would you agree with me there's a differentiation
21 between human hairs and animal hairs?

22 A Yes.

23 Q My questions will deal with human
24 hairs. Drawing on your training and experience

1 in the area, do you as a forensic scientist have
2 occasion to utilize or employ certain terminology
3 to describe hairs of certain individuals as they
4 correspond to the human population?

5 A Yes.

6 Q Breaking them down into certain
7 categories?

8 A Yes.

9 Q How is that done?

10 A The terms that are used?

11 Q Yes.

12 A There are three racial populations,
13 racial groups that are recognized. And the
14 terminology has been derived from -- it's been
15 established many, many years ago. So, the term
16 Caucasoid is used to determine hairs that have
17 characteristics of white population in layman's
18 language. The term Negroid is used to determine
19 hair from an African origin. The term Mongoloid
20 indicates hairs of American Indians, Chinese,
21 Indians, and that kind of group.

22 Q Within the three categories you use,
23 and obviously would it be fair to say that as
24 terminology changes you in the forensic world

1 change the terms, Caucasoid, Mongoloid and
2 Negroid?

3 A I think of late there has been a use of
4 both, the lay terms and the classical scientific
5 terms.

6 Q Now, within any of those three general
7 categories, from a forensic scientist viewpoint,
8 are there further sub-categories to eliminate the
9 possibility of cross -- what's the word I'm
10 looking for-- inter-relationship between certain
11 individuals that share characteristics between
12 each of the groups?

13 A I think I understand what you're
14 getting at. The point should be made that we do
15 not say that a given hair is from a particular
16 racial group. We generally look at the hair, we
17 observe certain characteristics of that hair and
18 say that that hair exhibits characteristics of
19 hairs derived from that group, rather than
20 identifying the hair as having come from that
21 group, because we recognize that there is a
22 continuing variation here.

23 And only when we have certain features
24 do we say that it's predominantly of a particular

1 group. But we would never say this hair came
2 from an individual of a particular group.

3 Q Now, next with respect to head hairs on
4 a human and pubic hairs on a human, as opposed to
5 an animal, generally are there any similarities
6 or dissimilarities between the two? And if so,
7 what would they be from a forensic science
8 viewpoint?

9 A There are different characteristics
10 that can be seen in the head and pubic hairs.
11 Generally we do not have any cross correlations
12 with an individual. We would compare a pubic
13 hair sample with a pubic hair individually. We
14 would make no inferences about a comparison if we
15 had a head hair sample with a pubic hair sample
16 with somebody else. We wouldn't even consider
17 doing that at all.

18 Does that answer your question?

19 Q Somewhat. I can be inarticulate at
20 times. Forgetting about the racial origin what,
21 if any differences or similarities, would there
22 be between a head hair and a pubic hair to the
23 naked eye, or if you need a microscope, from that
24 viewpoint?

1 A Those that can be seen with with the
2 naked eye or low magnification, there are
3 features that make it very easy to differentiate
4 the classical type pubic hairs from head hairs.
5 It's not a difficulty generally assigning a hair
6 to a particular body origin.

7 Q That's what I'm asking you. What would
8 those things be? Can you articulate between a
9 head hair and a pubic hair?

10 A One of the most obviously is what we
11 call bottling. The cross-section changes very
12 dramatically and, therefore, what appears to be
13 the continuity of the shape. It's kinky, curly,
14 as opposed to the head hairs which tend to be
15 straighter and have a more circular type
16 of cross-section.

17 Q Now, generally speaking with respect to
18 any human, whether it be a male or female,
19 confining ourselves to head hair, if you were to
20 examine all the head hairs on such an individual,
21 would all the hairs be uniform in terms of the
22 characteristics that you would look for,
23 particularly with respect to color, length,
24 configuration and whatever, or would there be

1 differences?

2 A They would not be all the same. I
3 would not expect that to be the case. In fact,
4 in many cases we see quite large ranges of
5 variances within individuals. We do have to
6 account for a fairly large degree of individual
7 differences.

8 Q Would your answer be the same with
9 respect to pubic hair?

10 A Yes.

11 Q With respect to your being called upon
12 to analyze a head or pubic hair first visually
13 with your eye and then perhaps with the
14 assistance of a microscope, can you, drawing upon
15 your experience, tell whether a questioned hair
16 was natural, as opposed to being artificial in
17 color?

18 A The coloration?

19 Q Yes.

20 A Yes, generally one can do that.

21 Q And is there any way for you,
22 forensically speaking, to determine the age of
23 the hair?

24 A Age in terms of the donor's age or in

1 terms of the times and shedding?

2 Q Let's take the first one, the donor's
3 hair.

4 A Other than dealing with infants and
5 people who have graying hair, like my own, those
6 are very broad things. But the answer to that is
7 no.

8 Q If you came back to me with a question
9 with respect to the hair specimen, could you
10 determine age simply from looking at the
11 specimen?

12 A Not in any accurate way. There are
13 certain kinds of includes we might have, that
14 might be the debris on the hair, that might have
15 been in an environment that might have been
16 dirty. We may see some kind of damage, such as
17 insect damage, whether it's chewed up a little
18 bit, or we may see physical abhorations type
19 damage to the hair, which might suggest it might
20 be an area trot upon.

21 There may be functional damage. That
22 would be indicative of some age. Again, these
23 are very, very hard to pin down. There's another
24 thought I had, and I lost the train of thought.

1 But, in general, it can only be handled in very
2 general ways.

3 Q If you were given a known hair for
4 analysis and possible comparison, are you able,
5 drawing upon your experience and training and
6 background, to determine whether one particular
7 questioned hair is a -- is what we would call a
8 growing hair?

9 A Yes.

10 Q How would one do that?

11 A I think we've all experienced the fact
12 that when we brush our hair or shampoo and so
13 forth, hairs fall out with no pain. The roots of
14 these hairs have a different appearance. They
15 become inactive. There's no living tissue
16 associated with them.

17 We shed something on the order of one
18 hundred hairs a day. The normal loss of hairs,
19 even when we aren't going bald, would be about a
20 hundred hairs a day. If we have a hair that's
21 plucked out, one that may snag in a hair brush or
22 may result in some kind of violence, that hair
23 has been removed from the follicle while it's
24 actively growing and has a different appearance

1 from the so-called fallen hairs.

2 Q One or two more general questions, and
3 then I'll get to specific questions with respect
4 to items delivered to you.

5 Assuming, Doctor, if you will, that
6 we're dealing with a young man or woman
7 approaching and perhaps going through the age of
8 puberty. If you can, from your vantage point,
9 Doctor, how would that be manifested with respect
10 to particularly the pubic hair on such an
11 individual?

12 A One can see more range of variation
13 within that kind of a sample. There's an
14 evolving process going on there, so there are
15 hairs with different degrees of maturity that
16 would be present in a sample taken from that.
17 There's not a lot of data on this. There's
18 experience with case work suggesting that this
19 can be a problem in interpretation in some of
20 these cases.

21 Q Doctor, I think lastly, although I
22 shouldn't really say that, from your vantage
23 point as a forensic scientist, do you have
24 experience, scientifically speaking, with the way

1 to draw a certain known or exemplar hair
2 specimens for comparisons with certain hair
3 specimens?

4 A You mean the comparison of the hair
5 specimens?

6 Q Yes.

7 A Yes.

8 Q If one wanted to get certain known
9 controls let's say of the pubic area of a human
10 being, how would one do that generally?

11 A There are some considerations here that
12 really depend upon what the nature of the unknown
13 samples would be. But typically in most cases
14 involving the pubic hairs, the hairs in evidence
15 are the ones that were in the head naturally,
16 ones ready to fall out.

17 So, what we would do, we would do a
18 combing of the pubic region which would be enough
19 to remove hairs that are ready to be shed and,
20 therefore, become the controlled sample for the
21 comparison work.

22 If the combing is insufficient to
23 produce an adequate number of hairs, then a
24 massaging of the area would dislodge a number of

1 others so that the combing would pick up others,
2 as well.

3 Q Would any of that involve when you're
4 trying to get certain controlled pubic hairs,
5 actual plucking of hairs from the body?

6 A That would be another way of increasing
7 the numbers of hairs that would be obtained. If
8 it turned out it was difficult to get enough by
9 the former method, or if it turned out that the
10 hairs in evidence were the ones that had been
11 growing at the time they were shed, the best
12 comparison sample would be one that consisted of
13 actively growing hairs. But normally it wouldn't
14 be necessary to have actual pluckings.

15 Q Early on in my examination of you, I
16 asked you, and you complied, you told the ladies
17 and gentlemen of the jury basically the
18 difference or what's entailed with transfer
19 evidence and trace evidence, the concept of
20 transfer, is that right?

21 A Yes.

22 Q Would your response there certainly
23 apply to hair comparisons?

24 A Yes. It's not the exclusive evidence

1 of having -- for example, a burglar at a crime
2 scene might leave hairs at the crime scene
3 without contacting the surface the hair is found
4 on. But the majority of the hair we encounter is
5 as a result of contact.

6 Q And let me ask you this: I guess I can
7 phrase this in terms of your professional
8 experience and perhaps your own experience.
9 Assuming there was an act of intercourse between
10 had a man and woman, would you expect or not
11 expect to see the transfer of evidence,
12 vis-a-vis, among other things, pubic hairs?

13 A Clearly that does take place. We have
14 a lot of case work experience showing that these
15 kinds of transfers do take place as a result of
16 sexual contact. There is no data that would
17 allow us to talk about what percentage or under
18 what conditions this takes place. There have
19 been limited studies that have been done, but
20 nothing that allows us to make overall
21 generalizations.

22 Then there's the additional question
23 that has to be considered about the retention of
24 those after the transfer has taken place.

1 Q Now, Doctor, at this time I would like
2 to, with the assistance of the Court Officer,
3 show you what has been previously deemed marked
4 for identification as People's Exhibit 162 A
5 through G. And directing your attention to this
6 particular exhibit, and specifically directing
7 your attention to it as you look at it, the right
8 hand column starting with the fourth slide down,
9 would you take a look at that.

10 (Witness examines.)

11 A Okay.

12 Q Have you looked at each of those,
13 please?

14 A Yes. Okay, I have a general idea, yes.

15 Q Now, there are some seven slides there
16 deemed marked for identification. I ask you
17 this, whether you recognize collectively those
18 slides and the slides delivered to you on or
19 about April 16th, 1990 or on or about September
20 7th of 1990?

21 A I do.

22 Q Now, again I am glad I had a caveat
23 before. I have a general question. With the
24 naked I or under the microscope, can you

1 distinguish between a hair artifact and a
2 hair-like artifact that might consist of fiber,
3 fabric or vegetable matter?

4 A Yes, microscopically it's very easy to
5 tell a hair from a vegetable matter.

6 Q Now, directing your attention to the
7 last slide, the bottom slide which appears to be
8 a hair removed from the left arm of Angela
9 Correa --

10 MR. INSERO: Could we have a
11 citation on that?

12 MR. BOLEN: That would be Exhibit
13 162 G.

14 MR. INSERO: Thank you.

15 A I recall that one.

16 Q Are you with me?

17 A Yes.

18 Q Did you have occasion, and again these
19 series of questions are drawing upon your
20 background, training and experience and your
21 personal analysis in this case, do you have an
22 opinion, sir, as to what that particular artifact
23 is?

24 A It is clearly not a hair. It's a

1 vegetable fiber of some kind.

2 Q Working our way upwards, directing your
3 attention to what has been deemed marked for
4 identification as Exhibit 162 F, do you have an
5 opinion, and if you can answer this to a
6 reasonable degree of scientific certainty, please
7 do, and if you can't, please tell us, as to what
8 that particular artifact is or represents?

9 A It is a human hair fragment. It is not
10 an intact hair. It has the characteristics of
11 having come from a black person or what we would
12 call a Negroid hair.

13 Q So the record is clear, referring to
14 Exhibit 162 F, that would have been an artifact
15 recovered from the right foot of Angela Correa
16 between the angle and the knee.

17 Directing your attention now to what
18 has been deemed marked for identification as
19 Exhibit 162 E, a slide of an artifact taken from
20 the right breast of Angela Correa, what is that,
21 Doctor?

22 A That's a human head hair with Caucasian
23 type characteristics.

24 Q Did you, in connection with this case,

1 Doctor, have an opportunity to compare that with
2 known head hair exemplars of Angela Correa?

3 A Yes.

4 Q What was your opinion?

5 A That I could not eliminate her as the
6 source of that hair.

7 MR. INSERO: That you could not?

8 THE WITNESS: That I could not
9 eliminate her as the source of the
10 hair.

11 Q This is corresponding to the hair found
12 on the right breast?

13 A Yes.

14 Q Now, I want to direct your attention
15 now to the first slide which has been deemed
16 marked for identification as Exhibit 162 A, a
17 hair slide of a pubic control taken during the
18 course of the autopsy on Angela Correa. What is
19 that, Doctor?

20 A It is not a pubic hair. It is a human
21 hair that has the characteristics of having come
22 from a Oriental type person, what we call a
23 Mongoloid type head hair.

24 Q What, if anything, could you tell us

1 with respect to whether that hair would be a
2 growing hair or not?

3 A That would have been a growing hair
4 when it was lost.

5 Q Now, did I understand you to say early
6 on when you broke down the classification is into
7 Caucasian, Negroid and Mongoloid, that within
8 Mongoloid you refer to as Oriental?

9 A Yes.

10 Q Did you also include into that
11 correlation?

12 A Yes, of course.

13 Q Let me ask you this, Doctor, if you
14 can, having just determined that this is a
15 growing hair, a head hair from an individual
16 Mongoloid type hair, and mindful of the concept
17 of transfer, if one were in the process of taking
18 or trying to extract certain known pubic hair
19 controls during the course of an autopsy, and one
20 were to bend over, in your experience could a
21 head hair from that individual come into the
22 known pubic controls?

23 A Yes, that's a possibility and, in fact,
24 it does happen.

1 Q Now, lastly, Doctor, I direct your
2 attention to what has been --

3 MR. BOLEN: If I can just approach
4 the witness for a second?

5 THE COURT: Yes.

6 Q Directing your attention to that
7 holder, specifically again directing your
8 attention to the right hand column, the fourth
9 slide up from the bottom which has been
10 previously deemed marked for identification as
11 Exhibit 162 D, what, if anything, can you tell us
12 about that hair to a reasonable degree of
13 scientific certainty as to whether it is a human
14 or animal hair? And if human, what kind of a
15 hair, and things like that?

16 A Exhibit 162 D is a human hair which is
17 from the pubic region and it has Caucasian
18 characteristics.

19 Q What, if anything, can you tell us
20 based upon your examination of that hair as to
21 whether it was a growing or non-growing hair?

22 A It was a non-growing hair. It was a
23 shed hair.

24 Q In terms of color what, if anything,

1 could you tell us about that hair?

2 A I can check my notes. It was basically
3 a medium brown hair. Do you want more detail
4 than that?

5 Q No, that's fine. Now, in connection
6 with this case, you've already indicated that you
7 were provided with certain known public control
8 hairs of Jeffrey Deskovic, is that correct?

9 A Yes.

10 Q You've also indicated to us that you
11 were provided with certain known public control
12 hairs of Angela Correa?

13 A Correct.

14 Q Now, did you, sir, with respect to the
15 known public control hairs of Angela Correa make
16 efforts to compare that particular hair, People's
17 Exhibit 162 D deemed for identification, with the
18 known public control hairs of Angela Correa?

19 A Yes.

20 Q With what result, if any?

21 A That it fell outside the range of
22 variation exhibited by the control hairs
23 themselves. In other words, with the
24 availability of the control hairs from the victim

1 this hair fell outside of that range and,
2 therefore, suggested that it came from a
3 different origin.

4 Q Can you rule out completely to one
5 hundred percent certainty it was not from Angela
6 Correa?

7 A No, I cannot.

8 Q The reason being?

9 A The reason being that based on the
10 sample of the knowns that I had available it fell
11 outside that range, but there were not a large
12 number of knowns available. I was also concerned
13 at the time about the range of variation
14 exhibited in the knowns that I did see and the
15 question of the maturation process as far as the
16 victim goes.

17 Q I guess now that -- well, let me ask
18 you this: In connection with this case, sir, did
19 you have occasion to compare Exhibit 162 D with
20 one or more of the controls of Jeffrey Deskovic?

21 A Yes.

22 Q For purposes of a comparison between
23 Exhibit 162 D and any one or more controlled
24 knowns of Jeffrey Deskovic?

1 A Yes.

2 Q With what result, if any?

3 A There was no comparison. In other
4 words, I was unable to associate the Exhibit 162
5 D with the known hairs from that of Jeffrey
6 Deskovic.

7 Q And, lastly, by way of capsule summary,
8 during the course of your particular analysis
9 here you found within the known pubic control
10 combings taken during the autopsy of Angela
11 Correa, you found a head hair in that which was
12 Mongoloid?

13 A Correct.

14 Q And on the right leg you found a
15 Negroid hair artifact?

16 A Again, let's use the terms that they
17 exhibit those characteristics, rather than giving
18 the idea that we can associate those given to a
19 particular racial group.

20 Q Lastly, Doctor, I don't know whether
21 you can answer that, but with respect to Exhibit
22 162 D, the pubic hair taken from the combings of
23 Angela Correa which you've described as being a
24 pubic hair and Caucasian, when you say that, can

1 you rule out it not having any Mongoloid
2 characteristics?

3 A Maybe I wasn't giving it my full
4 attention. Repeat the question, please.

5 Q With respect to Exhibit 162 D which you
6 described as being a pubic hair Caucasian, which
7 was included within the pubic combings taken
8 during the course of the autopsy as opposed to
9 the pubic controls -- are you with me so far?

10 A Yes.

11 Q You indicated that was a human hair and
12 Caucasian?

13 A Yes.

14 Q Were you able to rule that out as
15 having any Mongoloid characteristics or any
16 Oriental characteristics?

17 A No. As I tried to indicate, when we
18 make a statement about the hair exhibiting
19 certain characteristics, that's the predominant
20 feature seen. But we can't rule out the
21 contribution of some other racial groups to that.

22 Q Would your answer be the same with
23 respect to ruling out whether that feature
24 contains any Negroid characteristics?

1 A Yes.

2 Q Nevertheless, having determined that
3 hair to be Caucasian, are you saying that is
4 those are the features that dominated in that
5 hair?

6 A That's correct.

7 MR. BOLEN: I have nothing further
8 of the witness.

9 MR. INSERO: Your Honor, may I
10 proceed, please?

11 THE COURT: Yes.

12 MR. INSERO: Could I perhaps see
13 the exhibits that the doctor has been
14 referring to, Exhibit 162, A, B, C, D,
15 E, F and G?

16 MR. BOLEN: It's right here.

17 (Whereupon, Mr. Insero examines
18 said exhibit.)

19 CROSS EXAMINATION

20 BY MR. INSERO:

21 Q Good afternoon, Dr. DeForest.

22 A Good afternoon.

23 Q Doctor, let me make sure I understand
24 some of the terminology that we have been using

1 here this afternoon. Your science breaks down
2 hair analysis into essentially three groups, am I
3 correct?

4 A In terms of the requisite groups?

5 Q Yes. The Caucasoid, the Negroid and
6 the Mongoloid group?

7 A Yes.

8 Q As part of your analysis of this
9 situation in this case, Doctor, you were
10 presented with hair exemplars, samples of Angela
11 Correa?

12 A Correct.

13 Q And you were also presented with
14 samples of hair from Jeffrey Deskovic?

15 A That's correct.

16 Q In fact, the hair samples from Jeffrey,
17 they were known samples to you, were they not?

18 A They were presented as knowns, yes.

19 Q They were a control group?

20 A We call those control hairs.

21 Q And you, in fact, studied Jeffrey's
22 head hair and his pubic hair under the
23 microscope, did you not?

24 A I did not look at the head hair, but

1 the pubic hair, yes.

2 Q The pubic hair you looked at under the
3 microscope?

4 A Yes.

5 Q What were those hairs of Jeffrey that
6 were presented to you? What were they called
7 again, control samples?

8 A Known controls.

9 Q Known controls?

10 A Yes.

11 Q In addition to the known controls of
12 Jeffrey and the hair of Angela Correa, were you
13 presented with any other known controls?

14 A None that I recall, although let me
15 think for a minute here. No, I was not.

16 Q Were you presented with known controls
17 from a pathologist named Dr. Louis Roh?

18 A No. I made that suggestion, but I was
19 not given any hairs.

20 Q Were you presented with known samples
21 from that pathologist's assistant?

22 A I was not.

23 Q Do you know, sir, that that
24 pathologist's assistant is a member of the

1 Negroid race?

2 A I don't know that of my own personal
3 knowledge, no.

4 Q Do you know of your own personal
5 knowledge, Doctor, that Dr. Louis Roh is a member
6 of the Mongoloid race, that is if a Korean person
7 can be characterized as a member of the Mongoloid
8 race?

9 A I do know that he is a Korean, yes.

10 Q In other words, Doctor, you do know Dr.
11 Louis Roh?

12 A Yes.

13 Q Is it my understanding, Dr. DeForest,
14 that according to your testimony here early
15 today, that you would never say that a particular
16 hair is from a particular group unequivocally,
17 sir?

18 A Unequivocally?

19 Q Yes.

20 A It would be a very rare occasion that
21 one would be able to support that kind of a
22 strong statement.

23 Q That's a very strong statement to make,
24 is it not?

1 A Yes.

2 Q And it would be extremely rare where
3 one would be able to make that statement, is that
4 correct?

5 A Yes, in a formal sense, in a report or
6 in that kind of thing.

7 Q And this case is not one of those
8 extremely rare cases that such an unequivocal
9 statement can be made, is that a fact, sir?

10 A Are we talking in the case of the
11 question of the pubic hair now or is it of the
12 head hair?

13 Q In terms of the head hair.

14 A In terms of the head hair, I guess even
15 there I wouldn't be totally unequivocal on that.

16 Q And certainly not with respect to pubic
17 hair?

18 A That's right.

19 Q And it is a fact, sir, is it not, that
20 not all head hairs, even from the same
21 individual, are identical?

22 A No. In fact, it would be rare for them
23 to be identical. There are differing degrees in
24 the range of variation. Some people may have

1 hairs more similar across the sampling areas.
2 Others would tend to have quite a range of
3 variation.

4 Q And your response, sir, that is to a
5 reasonable degree of scientific certainty, is
6 that correct?

7 A That's right.

8 Q And it is a fact, sir, that all pubic
9 hairs, even from the same individual, are not
10 identical, is that a fact?

11 A Yes.

12 Q And that is also to a reasonable degree
13 of scientific certainty?

14 A Yes.

15 Q I just want to make sure that I'm
16 correct about a couple of things, Dr. DeForest:
17 Exhibit 162 E, I'll hand you back that exhibit.
18 Sir, Exhibit 162 E, that's a human hair?

19 A Yes.

20 Q And with respect to that hair, Exhibit
21 162 E, you could not eliminate that that hair
22 belonged to Angela Correa?

23 A That's correct.

24 Q Now, Dr. DeForest, with respect to

1 Exhibit 162 E, the slide there, where did that
2 hair come from?

3 A I believe it was the right breast. Let
4 me just check the labeling on the slide.

5 (The witness examines.)

6 A That's correct.

7 Q In other words, Doctor, that could have
8 been Angela Correa's hair on her own right
9 breast?

10 A Correct.

11 Q Would you please explain once again,
12 please, what is a growing hair? You used that
13 terminology, a growing hair.

14 A Let me elaborate a little bit here. I
15 don't want to confuse things. But three
16 different growth phases are recognized as far as
17 the hair follicle goes. The hair goes through
18 the three different phases.

19 When the follicles are producing hair
20 actively, in which it's active and producing hair
21 at a constant rate, that's the catagen phase.
22 And that phase lasts for a long time,
23 particularly with the head, the scalp. That may
24 last several years. At some point that follicle

1 begins to shut down in activity. This is a
2 fairly short phase it goes into next called the
3 catigen phase.

4 Then after the short period of a week
5 or two, then the hair remains in the follicle for
6 a period of time up to several months, but is no
7 longer alive and growing at the base. It's
8 simply a dead hair that's being held in the scalp
9 mechanically by an enlarged lump at the bottom of
10 the hair shaft. And those are the hairs that
11 fall out after some period of time or come out in
12 the hair brush or in shampooing or so forth.

13 So, when we talk about a hair that does
14 not contain this hardened bump at the bottom that
15 shows some living tissue at the base of it, then
16 we know that hair didn't come out naturally. It
17 wasn't a shed. Something had to have snagged it
18 or pulled it out. So, that it's a very easy
19 distinction to be made between those two
20 extremes.

21 Between those in the area between the
22 actively growing phase and the resting phase,
23 there is some question sometimes whether or not
24 you are dealing with a hair that's in the late

1 part of the growing phase or in the early part of
2 the resting phase. But, in general, it's very
3 easy to distinguish between these two extremes.

4 Q Dr. DeForest, with respect to Exhibit
5 162 D, could you look at that slide?

6 A Yes.

7 Q That is a human pubic Caucasoid hair?

8 A Yes.

9 Q And I believe you described it as under
10 visual examination of a medium brown hair?

11 A Yes. I can check my notes on that, if
12 you would like.

13 Q If you would, please.

14 (Whereupon, the witness examines said
15 notes.)

16 A The only reference I see in color to
17 that is that it was lighter than the other hairs
18 from that same sample.

19 Q That is fine. While you have your
20 notes there, before today you discussed this
21 matter with Mr. Bolen, did you not?

22 A Yes.

23 Q Would reading your notes reflect
24 perhaps how many conversations you have had with

1 Mr. Bolen since April of this year?

2 A Yes, they would.

3 Q Could you give us an estimate perhaps
4 of the exact number of conversations you have had
5 with Mr. Bolen?

6 A Some of these would be phone calls --

7 Q Phone calls, in person conversations or
8 whatever.

9 A There may have been two in one day. On
10 April 24th I can see there were two calls on the
11 same date. It would be eleven by my count.

12 Q I just have a few more questions for
13 you, Dr. DeForest: The hair that we're talking
14 about now, Exhibit 162 D, your conclusion based
15 to a reasonable degree of scientific certainty,
16 sir, is that you can't rule out that this hair is
17 also Angela Correa's hair, is that correct?

18 A Yes.

19 Q Let me ask you this further: With
20 respect to that Exhibit 162 D, you are unable to
21 associate that particular exhibit with Jeffrey
22 Deskovic's hair, is that correct?

23 A Yes.

24 MR. INSERO: Thank you. I have no

1 further questions questions.

2 MR. BOLEN: I just have a few
3 questions.

4 REDIRECT EXAMINATION

5 BY MR. BOLEN:

6 Q As a follow-up to your three
7 clarifications of hair stages that it goes
8 through, the first stage being the first stage,
9 the anagan phase?

10 A Yes.

11 Q With respect to the Mongoloid phase,
12 what phase was that phase going through?

13 A That was in the anagan phase. We talk
14 about the follicle being in the phase, rather
15 than the hair itself.

16 Q I qualify my question just posed and
17 include follicle. With respect to the head hair
18 on the right breast, I assume that was Caucasoid?

19 A Yes, the characteristics.

20 Q Was there any follicle for you to
21 determine which of the three stages that head
22 hair might have been going through, if you
23 recall?

24 A If I recall, it was a hair from a

1 telegon hair follicle. I don't see my notes of
2 that, but I'm quite certain of that at this
3 point.

4 Q I assume we can do the same thing with
5 respect to follicles on a pubic hair, the three
6 stages?

7 A Yes, although the time frame is very,
8 very different.

9 Q I see. Was there any follicle part of
10 the Caucasoid pubic hair found in the pubic
11 combings of Angela Correa, if you recall?

12 A You'd better bring that one by me
13 again.

14 Q Was there any follicle that you noted
15 when you examined that?

16 A You mean was I able to determine
17 whether that was a shed hair as opposed to a
18 plucked hair?

19 Q Yes.

20 A Yes, it was clearly a shed hair.

21 MR. BOLEN: Thank you, Doctor. I
22 have nothing further.

23 MR. INSERO: I have nothing
24 further, your Honor.

1 THE COURT: Thank you, Doctor.

2 THE WITNESS: Thank you.

3 (The witness is excused.)

4 MR. BOLEN: May I just approach
5 the bench for a moment?

6 THE COURT: Okay.

7 (Whereupon, the attorneys approach
8 the bench for a discussion off the
9 record.)

10 THE COURT: All right, we'll take
11 a five-minute recess.

12 (Whereupon, the Court declares a
13 recess at 2:55 p.m., and the trial
14 resumes at 3:05 p.m.)

15 THE COURT: All right, bring the
16 jury in.

17 (Whereupon, the jury enters the
18 courtroom.)

19 THE COURT: Mr. Bolen, call your
20 next witness.

21 MR. BOLEN: Yes. The People call
22 Dr. Deadman.

23 H A R O L D D E A D M A N, a
24 witness called on behalf of the People,

1 having been first duly sworn, was
2 examined and testified as follows:

3 THE COURT CLERK: Would you please
4 be seated. Would you state your full
5 name, spell your last name and state
6 your occupation and business address,
7 please?

8 THE WITNESS: My name is Harold A.
9 Deadman, Jr. I'm a special agent with
10 the Federal Bureau of Investigation,
11 presently assigned to the FBI
12 Laboratory in Washington, D.C.

13 THE COURT CLERK: Spell your last
14 name.

15 THE WITNESS: D-e-a-d-m-a-n.

16 THE COURT CLERK: Thank you.

17 THE COURT: Proceed.

18 MR. BOLEN: Thank you.

19 DIRECT EXAMINATION

20 BY MR. BOLEN:

21 Q Good afternoon, Dr. Deadman.

22 A Good afternoon.

23 Q While you're here, please keep your
24 voice up and speak as clearly as you can.

1 A Yes.

2 Q How long have you been employed by the
3 Federal Bureau of Investigation?

4 A Slightly over twenty years.

5 Q Prior to affiliating yourself with the
6 FBI, by whom were you employed?

7 A Employed by the Dupont Company for
8 approximately two years.

9 Q In what capacity?

10 A As a research chemist.

11 Q During the period of time that you have
12 been with the FBI, what basically have you been
13 doing within the FBI lab?

14 A I have been assigned to two units
15 within the FBI laboratory. I spent approximately
16 fifteen and a half years in a unit involved with
17 the comparison of hairs and textile fibers. I've
18 spent approximately three and a half years in the
19 laboratory involved in DNA analysis.

20 Q I wonder if you could just -- that
21 seems to be a shorthand term. What does that
22 term actually stand for.

23 A It's an abbreviation for a chemical
24 substance called dioxyriboneuclacid.

1 Q Where does one find that?

2 A It's in essentially all cellular
3 material.

4 Q Including that of human beings?

5 A Yes.

6 Q Now, at this time would you briefly
7 relate to the ladies and gentlemen of the jury
8 your particular educational background?

9 A I have a bachelor of arts degree with a
10 major in chemistry from DePaul University. I
11 majored in mathematics. I also have PhD from
12 Carpendale, Illinois. I have a major degree in
13 organic chemistry.

14 Q During the course of your undergraduate
15 and graduate course of studies, did you take
16 biology?

17 A I did take a zoology course, I've taken
18 a biochemistry course which basically pertains
19 somewhat to biology.

20 Q Now, I wonder if you can elaborate, if
21 you will, with respect to your background,
22 training and experience in the field of DNA
23 analysis. I'll use the short term DNA.

24 A I have been involved in DNA analysis

1 for approximately three and a half years. I was
2 assigned to a research group in July of 1987 that
3 was responsible for developing the methods that
4 we currently use for DNA analysis. I spent
5 approximately a year and a half in that
6 assignment, at which time I began my training in
7 this field.

8 I also took course work from the
9 University of Virginia and the National
10 Institutes of Health dealing with molecular
11 biology topics that are part of my or were part
12 of my training. I conducted research. I was
13 also involved in training during that first year
14 and a half.

15 I was assigned to the DNA analysis unit
16 in March of 1989. This is part of the laboratory
17 that actually receives evidence in case work from
18 law enforcement agencies throughout the United
19 States. That evidence is subjected to DNA
20 analysis, DNA comparisons that are conducted with
21 that evidence. I've spent approximately eighteen
22 months in that assignment.

23 I have been involved in the examination
24 of approximately four hundred cases since my

1 assignment to that unit.

2 Q And as a follow-up to the last thing
3 you said involved in approximately four hundred
4 cases, would it be fair to say that of the cases
5 you have been involved with they have been
6 submitted to the FBI laboratories throughout the
7 Continental United States?

8 A Yes, but they would all be law
9 enforcement agencies.

10 Q Of the cases you have worked upon, how
11 many of those were you called to testify in any
12 courts of law before today?

13 A Concerning DNA analysis, I've testified
14 in twenty-five cases. I would say approximately
15 thirty times in those twenty-five cases.

16 Q And would those cases predominate on
17 the Federal or the State side?

18 A I think in all cases they are local
19 cases, not Federal cases.

20 Q Have you ever testified in any court in
21 New York State today within the area of DNA
22 analysis?

23 A I've testified twice in the State of
24 New York.

1 Q In connection with the various times
2 that you have been called upon to testify, would
3 that be -- would you be called as a witness both
4 by the prosecution and the defense?

5 A Primarily by the prosecution, but I
6 have testified at the request of the defense on
7 one occasion in the State of New York.

8 Q Do you belong to any particular
9 organizations or associations in connection with
10 your association with the Federal Bureau of
11 Investigation, honorary groups, or things like
12 that?

13 A I'm a member of three professional
14 organizations related to my scientific work and
15 so forth. I'm a member of the American Chemical
16 Society, I'm a member of the American Academy of
17 Forensic Science. I'm also a member of the
18 Mid-Atlantic Association of Scientists.

19 Q Have you participated in any fashion in
20 connection with the authoring of any type of
21 articles in your particular field, particularly
22 in the field of DNA analysis?

23 A I have authored articles both in hair
24 and fiber analysis and several that pertain to

1 DNA analysis.

2 Q I don't know whether I'm phrasing this
3 correctly, but with respect to the DNA analysis
4 that you and your colleagues do in the lab in
5 Washington, is there any one type of analysis
6 that you utilize or rely upon to perform your
7 tests?

8 A There are various ways of comparing
9 DNA. We use one particular approach in our
10 laboratory.

11 Q What approach would that be?

12 A It's called the restriction fragment
13 length polyformism approach, also known as the
14 RFLP.

15 Q Are there other methodologies that are
16 included by labs, other than your own, or by
17 private or governmental with respect to DNA
18 analysis?

19 A There's one other technique presently
20 being used to a somewhat limited extent for DNA
21 analysis.

22 Q That would be what?

23 A It's a technique that utilizes a
24 procedure that goes by the abbreviation PCR. It

1 involves taking the DNA and generating copies of
2 it and then using that DNA for comparison
3 purposes.

4 Q You did not utilize that in the FBI
5 laboratory?

6 A We've done extensive research on that
7 procedure, but we're not presently using it for
8 case work to conduct cases or to conduct
9 comparisons in cases that are being submitted to
10 us.

11 MR. BOLEN: Your Honor, at this
12 time I would ask that Dr. Deadman be
13 submitted to the jury as an expert in
14 the area of DNA.

15 MR. INSERO: Voir dire.

16 THE COURT: Okay.

17 VOIR DIRE EXAMINATION

18 BY MR. INSERO:

19 Q I represent Jeffrey Deskovic here. One
20 question: You indicated that you were the author
21 of a couple of articles on DNA?

22 A My name is listed as an author on
23 several articles that have come out of the FBI
24 laboratory. I'm not the chief author, but I have

1 contributed to the paper in some way.

2 Q What papers were those, sir?

3 A One dealt with the initial development
4 of the DNA technology, what the FBI laboratory
5 set out to do back in 1987. It was written at
6 the end of 1987 or in the early part of 1988.

7 Q That could be described as a historical
8 article on DNA, vis-a-vis the FBI?

9 A Historical in the sense that it was
10 written prior to the development of our
11 procedures, but we set forth what we planned to
12 do, the necessary steps that we felt were
13 required to validate our process once it was
14 developed, that type of thing.

15 Q Are there any other articles, sir, if
16 any?

17 A The recent article that was accepted
18 for publication that contains my name dealt with
19 our statistical approach for assessing the
20 significance of a DNA match.

21 Q Sir, you are a PhD, not an EDD?

22 A It's a PhD.

23 Q In what?

24 A Organic chemistry.

1 you do the RFLP, when you're given knowns and
2 unknowns and you seek to come up with some kind
3 of a match, if you can, using DNA analysis, the
4 technique that you referred to, what do you do
5 from the beginning to the end? What's involved?
6 And if you can just in layman like terms explain
7 the DNA technology that you rely upon to come to
8 a result, to include or exclude?

9 A The procedure is fairly straight
10 forward in some respects, but it's also
11 complicated in that it involves a number of
12 steps. DNA is a chemical substance present in
13 essentially all cellular material. It's a
14 material that can be isolated from cells.

15 In our laboratory we take the isolated
16 DNA, purify it. We then process it in a
17 particular way which involves cutting the DNA up
18 into pieces. DNA is an extremely long chemical
19 substance that can be thought of as being
20 an extremely long chain, a chain-like chemical
21 substance. We process it and cut it up into
22 pieces.

23 We then have the ability to locate
24 certain pieces. These are pieces that have

1 several characteristics that we're concerned
2 with.

3 One characteristic allows us to locate
4 the same piece from every individual. In other
5 words, we have the ability to locate pieces that
6 have similar properties from every individual.
7 These pieces, however, are different in other
8 ways. They're different in terms of the sizes of
9 the pieces. This variation in the size of the
10 pieces that we locate and compare is our basis
11 for determining whether we have DNA similar to a
12 particular person or different from a particular
13 person.

14 So, we process DNA in a particular way,
15 and we have the ability to locate pieces of DNA
16 from our samples. Generally these are samples of
17 unknown origin, bloodstain perhaps, and samples
18 of on a known origin, from a particular person.
19 We have the ability to compare these fragments of
20 DNA.

21 If they are of the same length we can
22 determine that a particular person could have
23 contributed that DNA. If they are of different
24 lengths, then we can exclude a person as being a

1 contributor of the DNA sample we're examining.

2 Q Now, is the DNA components of every
3 individual different and unique from every other
4 human being?

5 A When the entire amount of DNA is
6 considered, it's considered to be unique to a
7 particular individual, with one exception, that
8 is when you're comparing a DNA from identical
9 twins. They have the same DNA.

10 Our procedures would show that. In
11 fact, the pieces of DNA we're concerned with
12 would be the same when you're dealing with
13 identical twins. Other than identical twins,
14 however, the DNA from different individuals is
15 considered to be different.

16 Q Utilizing the procedures you do, you
17 can determine DNA from an adequate specimen of
18 blood?

19 A Yes. Given a certain amount of blood
20 or other biological tissue, we can obtain results
21 that are suitable for comparison and suitable for
22 either inclusion or exclusion.

23 Q If you were given a bodily fluid, say
24 seminal fluid in its constituent parts, would you

1 then be able to determine the DNA in seminal
2 fluid?

3 A It will mostly contain sperm cells, a
4 large number of sperm cells, all of which contain
5 DNA. So, we would generally be able to get
6 sufficient information from a seminal fluid
7 sample.

8 Q In the process of the various tests you
9 performed when you're given knowns and unknowns,
10 and questioned things that you want to compare it
11 to, with respect to the various stages of the
12 various examinations that you do, are portions of
13 those knowns and unknowns used up?

14 A Depending on the amount that we start
15 with, we may in some cases consume all the sample
16 that we are submitting or that is submitted to
17 us. In other cases we may not consume it all.
18 It depends on the amount we start with.

19 Q Does the FBI, to your knowledge, have
20 any policy as to how they want to receive from
21 another agency, whether it be a sister state or
22 a federal agency requesting testing on blood?
23 How do you prefer to receive that for comparison
24 purposes? Specifically, do you prefer to see it

1 in the fluid liquid state or in the dried state?

2 A We have been asking laboratories to
3 prepare a dried stain from a liquid blood sample
4 and submit that to us. It's basically more
5 stable. At least DNA is more stable in a dried
6 state. And there are several other reasons. But
7 we prefer to get it in the dried state.

8 Q I ask you the same question with
9 respect to seminal fluid specimens. Is there any
10 way you like to receive those to be used for
11 comparisons with certain knowns?

12 A In almost all cases we've received
13 seminal fluid as some type of stain, either on an
14 item of clothing, a textile material, or we quite
15 often receive vaginal swabs that are obtained
16 from a female. And then those swabs would or
17 should be allowed to dry out before they are sent
18 to us.

19 Q Now, in particular, with respect to the
20 methodology that you employ within the laboratory
21 for DNA analysis, do you, in addition to
22 determining and making, if you can, comparisons
23 along DNA lines, do you do anything with respect
24 to determining ethnic characteristics of any

1 specimens submitted to you?

2 A We at the present time do not have any
3 way of determining ethnic background or racial
4 background from a person's DNA.

5 Q Now, let me ask you just a few more
6 questions: When for the first time did you and I
7 personally meet?

8 A Just today.

9 Q And before today how many contacts have
10 we had, not in person obviously, if you recall?

11 A I know we've talked on one or two
12 occasions, but certainly just a few times.

13 Q Now, in connection with this case, Dr.
14 Deadman, sometime in the month of January of this
15 year did your lab and ultimately you have
16 occasion to receive a number of items from the
17 Department of Laboratories and Research in
18 Westchester County related to one Angela Correa
19 and one Jeffrey Deskovic?

20 A Yes, we did.

21 Q Now, in this case, as well as in all
22 other cases, in terms of your again methodology
23 within the office, when you're given things to
24 compare to, is there certain terminology that you

1 give to the knowns and the unknowns?

2 A We assign a specimen number to the both
3 the unknowns and the known samples. The known
4 samples are given a K number. The unknown
5 samples are given a Q number.

6 MR. INSERO: A Q number?

7 THE WITNESS: Yes.

8 Q K standing for known, and Q standing
9 for question?

10 A Yes.

11 Q Very briefly, what steps do you take,
12 if I can ask you this, to make sure that there is
13 no mix among various items of physical evidence
14 sent to you from different agencies? What
15 procedures do you have in place to make sure
16 there is no advertent or inadvertent co-mingling,
17 so to speak?

18 A When a case is checked in, it's either
19 left in the container it's submitted, or the
20 entire case is placed in another container that
21 is, in fact, separate from other evidence in the
22 laboratory.

23 In DNA analysis we have had the
24 submitting laboratories quite often do the

1 preliminary screening for us which involves the
2 identification of blood or seminal fluid. They
3 then have submitted cuttings to us which contain
4 the samples that they have already prescreened or
5 they have submitted the vaginal swabs or whatever
6 may be the item they have identified, either the
7 blood or the seminal fluid.

8 So, it's not voluminous. It's
9 generally something that can fit into the
10 envelope. All the items from a single case are
11 put in an envelope and maintained in that
12 envelope until the case is worked.

13 Q Let me ask you this, Doctor: In your
14 experience when you have been submitted a
15 question item which has been denominated through
16 initial scientific screening as seminal fluid, is
17 there any way for you independently to determine
18 through your DNA analysis to see if there has
19 been a co-mingling, so to speak, in the same
20 sample given to you for analysis?

21 A We do not do any additional screening
22 or any additional identification or analysis to
23 determine if seminal fluid is present or sperm
24 cells are present. We basically accept the

1 findings of the laboratory. In this case seminal
2 fluid would have been identified, and we would
3 have subjected the vaginal swabs sent to us for
4 DNA analysis.

5 Q If you're submitted a sample that
6 contains more than one seminal fluid from more
7 than one person and you're asked to do a DNA
8 analysis of that with knowns --

9 MR. INSERO: I'll object to that.
10 There's absolutely no evidence before
11 this jury that --

12 THE COURT: Wait a minute.

13 MR. BOLEN: I'll withdraw the
14 question.

15 THE COURT: Let's not have any
16 argument in front of the jury that
17 shouldn't be before the jury.

18 MR. INSERO: I'm sorry, Judge. I
19 apologize.

20 THE COURT: That applies to both
21 of you. All right, he withdraws the
22 question.

23 Q Dr. Deadman, if you need anything to
24 refresh your recollection, please do. But again

1 in the month of January of 1990 do you recall
2 receiving again from the Department of
3 Laboratories and Research the following knowns:
4 A dried blood sample of one Angela Correa?

5 A Yes.

6 Q A dried blood sample from one Jeffrey
7 Deskovic?

8 A Yes.

9 Q Also, at or around the same time of
10 that submission to your laboratory do you recall
11 receiving, among other things, the following two
12 things which you would have denominated as Q,
13 standing for question: Several vaginal swabs
14 taken from one Angela Correa?

15 A I received one vaginal swab, and then
16 what was identified as a seminal pellet from a
17 vaginal swab. It would have been basically a
18 sperm pellet that would have been isolated prior
19 to being submitted to our laboratory.

20 MR. BOLEN: May the record reflect
21 that the question I just posed to the
22 witness I would ask to be deleted and
23 that the jury be instructed to
24 disregard the question posed, a known

1 seminal from Angela Correa.

2 THE COURT: Come over here.

3 (At the side bar.)

4 THE COURT: What do you want to do
5 now?

6 MR. BOLEN: I forgot how I framed
7 it. He received, and they were
8 denominated Q, vaginal swabs. I think
9 I said from Angela Correa. I guess
10 they were taken. But I might have
11 added in my question, belonging to her.
12 I might have misspoke. I'm not sure if
13 I did or not.

14 THE COURT: Why don't you just go
15 on.

16 MR. BOLEN: All right, fine.

17 THE COURT: I don't see any
18 prejudice. Just go on.

19 MR. INSERO: I don't have any
20 problem with that.

21 (Back before the jury.)

22 Q Perhaps I can phrase my question this
23 way: In addition to the two knowns that you were
24 given of the dried bloodstains, did you also

1 receive one or more vaginal swabs which you
2 denominated as Q one or Q two, or something like
3 that?

4 A Yes.

5 Q Now, thereafter, Doctor, did you have
6 occasion in the laboratory, working with the
7 various laboratory personnel in the DNA lab, did
8 you have occasion to perform the RFLP analysis
9 methodology to determine whether there was any
10 match or not with respect to any of the
11 questioned items submitted to you, the vaginal
12 swabs or any of the either two known samples
13 submitted to you?

14 A I did.

15 Q And I wonder if you could at this time,
16 if you could couch in terms of reasonable
17 scientific degrees of certainty, tell us what
18 those results were vis-a-vis whether or not the
19 material on any one or more of the vaginal swabs
20 were in any way contributed from the known
21 sources to that of Angela Correa and/or Jeffrey
22 Deskovic?

23 A In our procedure we have a method for
24 separating sperm DNA from non-sperm DNA. And so

1 when we examine something like a vaginal swab we
2 would subject it to the separation process,
3 because when a vaginal swab is taken there will
4 quite often be cells from the female.

5 In this particular case the separation
6 process was conducted on both samples that I
7 looked at. There were profiles developed, DNA
8 profiles, which is the terminology used to
9 describe the results of our comparison. These
10 DNA profiles were found in both the male or sperm
11 fraction and the female or non-sperm fraction.

12 The profiles in the female fraction
13 matched the profiles generated from the victim's
14 known blood sample. And I would conclude that,
15 in fact, the vaginal swab is consistent with
16 having been used with the victim. In other
17 words, the profiles are the same, which is what
18 you would expect to obtain if the vaginal swabs
19 were the ones that were used with the victim in
20 this case.

21 The DNA, however, in the sperm
22 fractions, the DNA profiles were dissimilar to
23 the Defendant's DNA profiles obtained from this
24 known sample. I would conclude that the DNA

1 isolated did not originate from the Defendant in
2 this case.

3 Q When you use the term Defendant, you're
4 referring to Jeffrey Deskovic?

5 A Yes.

6 Q If I could ask you this, Dr. Deadman:
7 With respect to your results, with respect to the
8 comparison with the known of Jeffrey Deskovic,
9 when did you make that determination timewise in
10 1990?

11 A The process takes about a month. It's
12 a fairly long process. And the final result was
13 obtained March 2nd of 1990. So, the actual
14 examination process would have been completed in
15 March of 1990.

16 Q And when that final process was
17 completed, could you tell us whether or not you
18 had occasion to notify the Peekskill Police
19 Department of your results?

20 A I did notify a Lieutenant Tumolo that
21 the results, at least in terms of the comparison
22 process, the results were negative, at least the
23 known sample was not the source of the DNA from
24 the vaginal swabs.

1 Q And when would that have been
2 approximately that you made that notification?

3 A My notes indicated that it was on March
4 2nd.

5 MR. BOLEN: I have nothing further
6 of the witness, your Honor.

7 MR. INSERO: Your Honor, may I
8 confer with Mr. Bolen here just for a
9 moment, please?

10 THE COURT: Yes.

11 (Whereupon, Mr. Insero confers
12 with Mr. Bolen in a discussion off the
13 record.)

14 MR. INSERO: Your Honor, may we
15 approach the side bar, please?

16 THE COURT: Okay.

17 MR. BOLEN: It doesn't have to be
18 on the record.

19 (Whereupon, the attorneys approach
20 the bench for a discussion off the
21 record.)

22 CROSS EXAMINATION

23 BY MR. INSERO:

24 Q Dr. Deadman, I don't have too many

1 questions here. This will be very brief.

2 Correct me if I'm wrong, but DNA
3 essentially is a chemical substance?

4 A Yes.

5 Q Could you perhaps elucidate a little
6 bit to the jury what that actual chemical
7 substance is?

8 A Well, it's a extremely large chemical
9 substance. It's somewhat unique among chemical
10 substances in terms of the size and its purpose.
11 It basically is a genetic blueprint for the
12 organism that it's apart of. It basically
13 directs and controls the formation of an
14 organism.

15 Q Dr. Deadman, you just used a term
16 genetic blueprint. Am I correct, sir, that this
17 DNA substance would enable a scientist or one
18 first in this area to differentiate between you
19 and me?

20 A Again, depending on the procedures and
21 the amount of the DNA you're dealing with, yes,
22 we could easily use it to differentiate between
23 two individuals.

24 Q It would, however, be difficult, if not

1 impossible, to differentiate between me and my
2 twin brother, if I had a twin brother?

3 A If it was an identical twin in this
4 case, yes.

5 Q Mr. Bolen asked you on direct
6 examination whether or not you had enough samples
7 to conduct this test. You didn't have any
8 problem with the quantity of the samples in this
9 case, did you?

10 A No. There was sufficient material to
11 obtain conclusive results.

12 Q So, what your conclusion is, sir, is
13 that the sperm sample -- excuse me, the sample on
14 the swab did not come from Jeffrey Deskovic, is
15 that correct?

16 A The sperm cells that would have been on
17 the vaginal swabs did not come from Mr. Deskovic,
18 yes.

19 MR. INSERO: Thank you, sir. I
20 have no further questions.

21 MR. BOLEN: Thank you. I have
22 nothing further.

23 THE COURT: Thank you, Doctor.

24 THE WITNESS: Thank you.

1 (The witness is excused.)

2 THE COURT: Ladies and gentlemen,
3 I understand that we need a little
4 longer break before we start the next
5 set of witnesses. So, it's four
6 o'clock now.

7 All right, you may file out.
8 Please don't discuss the case.

9 (Whereupon, the Court declares a
10 recess at 3:45 p.m., and the trial
11 resumes at 4:15 p.m.)

12 THE COURT: Okay, bring the jury
13 back out.

14 (Whereupon, the jury enters the
15 courtroom.)

16 THE COURT: Are you ready, Mr.
17 Bolen?

18 MR. BOLEN: Yes, Judge. The
19 People call Officer Eugene Rooney.

20 E U G E N E R O O N E Y, a
21 witness called on behalf of the People,
22 having been first duly sworn, was
23 examined and testified as follows:

24 THE COURT CLERK: Would you please

1 be seated. Would you state your full
2 name, spell your last name and state
3 your occupation and business address
4 for the record, please?

5 THE WITNESS: My name is Eugene M.
6 Rooney, Jr., R-o-o-n-e-y. I work for
7 the City of Peekskill Police Department
8 in the capacity of a police officer.

9 THE COURT CLERK: Thank you.

10 THE COURT: Proceed.

11 MR. BOLEN: Thank you.

12 DIRECT EXAMINATION

13 BY MR. BOLEN:

14 Q Officer Rooney, on November 17th, 1989,
15 a Wednesday, at some point that day in the
16 afternoon or early evening, did you have occasion
17 to have some contact with a brother officer by
18 the name of Detective Thomas McIntyre insofar as
19 this case is concerned?

20 A Yes.

21 Q At that time and on that day, among
22 other things, did he have occasion to give you a
23 camera?

24 A Yes.

1 A Yes.

2 Q You have a photo lab, a dark room?

3 A Yes.

4 Q When you did that, when you processed
5 the film that was in the camera, were you able to
6 make any prints of any of the film that was in
7 the camera?

8 A Yes.

9 Q How many?

10 A There was four total.

11 Q Would you take a look at what has been
12 previously marked for identification as People's
13 Exhibit 22, Exhibit 23, Exhibit 24 and Exhibit
14 25.

15 (Witness examines.)

16 Q Would you tell us whether you recognize
17 each of those particular exhibits in the order
18 that I'm showing it to you?

19 A Yes, I do.

20 Q Are those the four prints that you
21 previously mentioned?

22 A Yes.

23 Q And you developed those?

24 A Yes.