

In The Matter Of:

Guillermo Sarabia-Sanchez

v.

United Parcel Service

Alan L. Hiti, M.D. VOL I

September 21, 2017



17835 Ventura Blvd. Suite 310 Encino, CA 91316

P 888.272.0022 F 818.343.7119

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THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF LOS ANGELES

GUILLERMO SARABIA-SANCHEZ,)
an individual, by and)
through his guardian ad)
litem, ROGELIO SARABIA,) Case No.: BC617428
)
Plaintiff,)
)
vs.)
)
UNITED PARCEL SERVICE, INC.,)
a corporation; and DOES)
1 to 50, inclusive,)
)
Defendants.)
_____)

Deposition of ALAN L. HITI, M.D., taken
at 2020 Zonal Avenue, Room 902, Los Angeles,
California, commencing at 2:12 P.M., Thursday,
September 21, 2017, before Sheryl Williams, CSR No. 7453.

1 APPEARANCES OF COUNSEL:

2 For the Plaintiff:

3 THE DOMINGUEZ LAW FIRM
4 BY: OLIVIER A. TAILLIEU, ESQ.
-and-
OKORIE OKOROCHA, ESQ.
5 3250 Wilshire Boulevard
Suite 2200
6 Los Angeles, California 90010
(213) 388-7788
7 otaillieu@dominguezlawfirm.com

8 For the Defendant United Parcel Service:

9 MARANGA MORGENSTERN
10 BY: NINOS SAROUKHANIOFF, ESQ.
-and-
11 PHILLIP DENNY, Esq.
5850 Canoga Avenue
Suite 600
12 Woodland Hills, California 91367
(818) 587-9146
13 ninos@marmorlaw.com

14

15 Also Present: Joseph Fernandez, Videographer

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1 said he changed his mind.

2 Did I leave out anything?

3 MR. TAILLIEU: No. That's good.

4 MR. OKOROCHA: All right.

5 Q. Doctor, pronounce your full name for me. 02:15

6 A. My name Alan L. Hiti. H-i-t-i is the last name.

7 First name is Alan, A-l-a-n.

8 Q. And you're an M.D., Ph.D.?

9 A. That is correct.

10 Q. And you attended medical school at USC?

11 A. No, I didn't. I attended medical school at the

12 University of Miami in Florida. 02:16

13 Q. What year were you at that medical school?

14 A. From 1981 to 1983.

15 Q. Was that before the CIA people opened the lab
16 there?

17 A. I don't know about the CIA people opening a lab
18 there.

19 Q. Now, the University of Miami that was for medical
20 school, and then I assume you went to a residency?

21 A. I did. 02:16

22 Q. In your residency -- let's start with medical
23 school. In medical school did you use the textbook called
24 Goodman & Gilman's?

25 A. Yes, we did.

1 Q. And do you understand that to be a textbook
2 that's widely, widely used at most institutions of higher
3 learning for pharmacology?

4 A. Yes, sir. 02:17

5 Q. Did you have textbooks in your residency for the
6 pathology?

7 A. We did. Yes, I believe that we had a Robbins
8 textbook.

9 Q. Do you recall any other textbooks?

10 A. It was a long time ago. Not in medical school. 02:17
11 I think the Robbins textbook was our textbook. Sorry. I
12 can't recall. I'm sorry.

13 Q. Do you have textbooks or literature that you
14 commonly refer to when you're trying to verify something or 02:18
15 look something up?

16 MR. SAROUKHANIOFF: Objection. Vague and ambiguous.
17 Calls for speculation.

18 THE WITNESS: In the job that I'm currently in, we
19 have textbooks that are authored by Tietze, T-i-e-t-z-e.

20 Q. BY MR. OKOROCHA: T-i-e-t-z-e?

21 A. Uh-huh.

22 Q. Okay. Are those in your own personal library, or
23 are they part of the laboratory's library? 02:19

24 A. I think they are in both.

25 Q. Are you familiar with a pathology textbook called

1 Dimaio & Dimaio, D-i-m-a-i-o?

2 A. I have never read that textbook. That sounds
3 like a forensic textbook in pathology. Our forensic 02:19
4 training in residency and pathology is a small proportion
5 encompassed by forensics so that wasn't one where we did a
6 lot of reading. We did a lot of performing of autopsies
7 but not a lot of reading that was assigned.

8 Q. You guys call it meat cutting; right?

9 A. No, I never did. I thought of it as a learning
10 experience each time that I did my one-hundred-seventy-some 02:19
11 autopsies.

12 Q. Wow. Do you know Dimaio & Dimaio as a pathology
13 textbook that is commonly used by pathologists?

14 A. I do not. I'm not familiar with that book. I'm
15 sorry.

16 Q. All right. Now, let me go over the medical 02:20
17 things I wanted to go over.

18 Now, we have a urine screen for amphetamines.
19 Are you familiar with that document?

20 A. Yes.

21 Q. All right. Now, it looks like his labs were not
22 redone. They just incorporated the information in another 02:20
23 part of the records.

24 MR. SAROUKHANIOFF: Objection. Vague and ambiguous.

25 THE WITNESS: I can't -- who is "they," and what are

1 we talking about?

2 Q. BY MR. OKOROCHA: Okay. We'll skip that one.

3 Now, blood -- blood gas.

02:21

4 Do you recall that Mr. Sarabia had very -- for
5 the urine that was tested it was very concentrated?

02:22

6 A. I remember looking at the specific gravity of the
7 urine, and it was concentrated. It was a higher level than
8 what we consider to be our reference interval.

9 Q. What effect does that have on the results?

10 MR. SAROUKHANIOFF: Objection. Calls for speculation.
11 Is an incomplete hypothetical as phrased.

02:22

12 THE WITNESS: It reflects the status of the urine and
13 the components within the urine.

14 Q. BY MR. OKOROCHA: Would the amount of meth or
15 amphetamines come out higher in more concentrated urine?

16 MR. SAROUKHANIOFF: Same objections.

02:22

17 THE WITNESS: Potentially if the urine is
18 concentrated, very little urine is being put out, then the
19 amphetamines that would be excreted would be in smaller
20 volume and, therefore, would have higher concentrations.

21 MR. TAILLIEU: Why don't we start with the documents
22 that he gave us.

02:23

23 MR. OKOROCHA: I'm sorry?

24 MR. TAILLIEU: He gave us a stack of documents.

25 MR. OKOROCHA: Yeah, I was -- but I have the medical

1 records tabbed for just a couple things.

2 Q. Do you remember what his creatinine level was?

3 A. No. I was not asked to review those records.

4 Q. I don't see it on -- this is page 276 of 524.

02:23

5 MR. TAILLIEU: Is that your red binder?

6 MR. OKOROCHA: Yes.

7 THE WITNESS: This does not have a creatinine value on
8 this report.

02:24

9 MR. OKOROCHA: Okay.

10 MR. SAROUKHANIOFF: And, for the record, we're looking
11 at Mr. Sarabia's medical records from LA County USC Medical
12 Center, and I think what you were referring to, Counsel,
13 was at the bottom of the page it's referenced page 276 of
14 524; is that correct?

15 Counsel?

16 MR. OKOROCHA: Yes, that's what I was referring to.

02:24

17 MR. TAILLIEU: And we'll mark it as Exhibit 1 of this
18 deposition.

19 (Exhibit 1 was marked for identification
20 is attached hereto.)

21 Q. BY MR. OKOROCHA; Would you agree that he
22 had -- well, from these results would you agree that he had
23 very concentrated urine?

24 A. Yes.

02:25

25 Q. Now, when it comes to amphetamines or any drug,

1 does the level of drugs, drugs in the blood have any
2 prediction on the outcome or impairment of the patient?

3 ~~MR. SAROUKHANIOFF: Objection. Incomplete~~
4 ~~hypothetical. Calls for speculation. Also calls for~~
5 ~~expert testimony which I don't believe we've established at~~ 02:25
6 ~~this point.~~

7 THE WITNESS: I believe that a single determination of
8 a drug in the urine does not speak to the intoxication or
9 effect on the patient. It depends on a number of factors.

10 Q. BY MR. OKOROCHA: Okay. So regardless of what's
11 in the urine, it's not something you can predict impairment
12 based on?

13 A. That's correct.

14 Q. And even with blood it is difficult to correlate 02:26
15 the outcome, the impairment with a drug level; right?

16 A. That's correct.

17 Q. Now, are you familiar with the two -- I call them
18 hands -- but the chirality or the two parts of 02:26
19 methamphetamine?

20 A. I believe I'm aware that there are a right rear
21 and a left rear door, plus or minus optic stereoisomers of
22 the drug.

23 Q. Would you agree that the L-methamphetamine is in
24 cold medicine, nasal decongestants, things such 02:27
25 as -- things of that nature?

1 A. Yes. And they have different effects on the body
2 based upon whether they're D or L forms of the drug.

3 Q. Now, do we have any information on whether
4 Mr. Sarabia had the D or the L form?

5 A. No, we do not have any information that is
6 confirmed.

02:27

7 Q. So we can -- so what we can just say is that if,
8 in fact, he has L-methamphetamine, that's not nearly as
9 associated with impairment as D-methamphetamine; correct?

02:28

10 MR. SAROUKHANIOFF: Objection. Calls for speculation.
11 Incomplete hypothetical. Also calls for expert testimony.

12 THE WITNESS: That is my understanding.

13 Q. BY MR. OKOROCHA: Now, assuming -- are you
14 familiar with the literature on -- first, do you guys use
15 your instrument is it the Roche or Cobas? What instrument
16 do you guys use?

17 A. The sample was done on a Roche modular
18 instrument, an actual P module.

02:28

19 Q. All right. A little bit of that here.

20 Now, the test is performed by enzymatic assay;
21 correct?

22 A. It's actually a homogeneous competitive assay
23 that utilizes two fragments of an enzyme that will then
24 produce a colored product, yes. It's not like a strict
25 enzymatic reaction that we put an enzyme in like with

02:29

1 ethanol, and when we put in alcohol dehydrogenase and that
2 identifies alcohol and brings it to an assayable product.
3 So it's an interesting sort of competitive assay in order
4 to form an enzyme and then give us the answer by
5 absorbance.

02:29

6 Q. We do need to talk about the absorbance. Before
7 we go there. Now, the reagents you put in with the sample,
8 do those react with antibodies produced by the body?

02:30

9 A. Some of the reagents that we use are both
10 antibodies and antigens and indicator enzymes. So all of
11 that is part of the reaction that we utilize in order to
12 get a result as positive or negative for the analytes of
13 interest.

14 Q. Okay. Are you familiar with the literature by
15 the Department of Defense and in peer review journals about
16 the use of methamphetamine to improve performance for
17 helicopter pilots, for example, in combat?

02:30

18 A. No, I'm not familiar with that. I'm not an
19 expert on that issue.

20 Q. Okay. You're aware that there's a prescription
21 for methamphetamine given to young children to improve
22 performance; correct?

02:31

23 A. Correct.

24 Q. Now I'm going to ask you if you're familiar with
25 the Forensic Toxicology Laboratory guidelines by the U.S.

02:31

1 Department of Health & Human Services, Society of Forensic
2 Toxicologists and the American Academy of Forensic
3 sciences.

4 A. I have heard them referred to. I have not in
5 depth read that article or that report.

6 Q. Now, you don't run a forensic lab; correct?

02:32

7 A. I do not.

8 Q. And for forensic purposes, which you don't do,
9 the screening must be followed up by a confirmation per the
10 national standards?

11 A. That is correct.

12 Q. Now, absorbants are we talking about
13 spectrophotometric absorbance?

02:33

14 A. Yes.

15 Q. And s-p-e-c-t-r-o-p-h-o-t-o-m-e-t-r-i-c.

16 And that works by shining a light through the
17 sample and looking at the change if the light dims, or can
18 you explain how it works with the light?

02:33

19 A. So spectrophotometry works on the basis of a
20 light of a specific wavelength that is shown through a
21 cuvette which contains a reaction, and we measure the light
22 that's the incident light to the cuvette and we measure the
23 light that is an exit, that exits the cuvette, and we can
24 calculate the percent of transmittance light, and the
25 absorbance is the inverse -- inverse of the log to the base

02:33

1 ten of the transmittance. So the absorbance is a reading
2 that we get from the spectrophotometer that correlates to
3 the concentration of the analyte of interest that changes,
4 that absorbs that light as it is shown through the cuvette.

02:34

5 Q. Okay. And I wouldn't know this offhand, but do
6 you happen to know what wavelength methamphetamine -- what
7 wavelength of light is used to measure methamphetamine?

02:34

8 A. We measure the reaction wavelength of interest
9 instead of looking just at methamphetamine. We don't look
10 to see if the methamphetamine is present by the absorbance
11 of the methamphetamine or the amphetamine molecule itself.
12 We put together a reaction that allows us to easily read
13 the absorbance of a colored metric indicator as to how much
14 of the target is present.

02:35

15 Q. And would you agree that each wavelength may have
16 other compounds that absorb -- multiple compounds can be,
17 can absorb at the same wavelength?

02:35

18 A. Yes. Multiple compounds can absorb at the same
19 wavelength.

20 Q. And so that can be a source of error if you
21 have -- if you're measuring one thing and you have
22 something else in the sample that absorbs at the same
23 wavelength; correct?

24 MR. SAROUKHANIOFF: Objection. Calls for speculation.
25 It's an incomplete hypothetical as phrased.

1 THE WITNESS: It may be. We usually worry more about
2 reactions that occur from other analytes that provide a
3 signal that we get as a measurement of reactive analyte
4 that may be either nonspecific or may be from a different
5 chemical. So it's not specific to the amphetamine, but
6 specific to our color metric product that we are looking at
7 to judge the concentration.

02:36

02:36

8 Q. BY MR. OKOROCHA: And how specific is that? Does
9 it differentiate between multiple compounds at the same
10 wavelength?

11 A. So we are looking for an activity that will
12 produce a color change that we are then reading the
13 absorbance of.

14 Q. And are there more than one things that can cause
15 the color metric changes?

02:37

16 A. Yes.

17 Q. And so that can be an interference or source of
18 error; correct?

19 A. Yes.

20 Q. All right. Now, let me just go back to this.
21 Because we don't know if it was D- or L-methamphetamine, we
22 don't know if Mr. Sarabia took cold medicine or Vicks
23 inhaler that morning; correct?

02:37

24 A. I do not know that.

25 Q. And we actually don't know when the drug was

1 actually taken; correct?

2 A. That's correct.

3 Q. And that cannot be predicted by the urine;

4 correct?

5 A. That's correct.

6 Q. All right. Now, I'm just going to ask you if 02:38
7 you're familiar with a few of these papers.

8 This one is titled "False-Positive RIA for
9 Methamphetamine Following Ingestion of an Ephedra Derived
10 Herbal Product."

11 Are you familiar this paper?

12 A. No, I have not read that. We do not do
13 radioimmunoassays in our clinical laboratory. 02:38

14 Q. Okay. Are you familiar with a paper titled
15 "False-Positive Interferences of Common Urine Drug
16 Screening Immunoassays" by Saitman, Park and Fitzgerald?

17 A. Yes, I have that read that article. UC San 02:39
18 Diego, yes. Yes, I am.

19 Q. Can I attach that as Exhibit 2, please.

20 (Exhibit 2 was marked for identification
21 is attached hereto.)

22 Q. BY MR. OKOROCHA: Is the a-met 2 is that the same
23 type of assay that you use?

24 A. It is not. The one that we use is a CEDIA assay 02:39
25 which is slightly different from the a-met 2 assay. We

1 provided my methodology in the paper that you just received
2 today.

3 Q. Okay. Thank you.

4 Are you familiar with this paper differentiating
5 medicinal from illicit use in positive methamphetamine
6 results? 02:40

7 A. I have not reviewed that article. I'm sorry.

8 Q. By the way, for Exhibit 2 would you agree that it
9 is in a reputable journal and uses proper scientific
10 methods?

11 A. Yes, I do agree. 02:40

12 Q. Is it used by experts in the field, in your
13 field?

14 A. I do believe that that's true.

15 Q. Now, the reaction that takes -- can you describe
16 the reaction that takes place between the sample, the urine
17 sample and the reagents you add to it. 02:41

18 A. Okay. So the CEDIA reaction that we utilize on
19 the cuvette Roche modular instrument --

20 Q. CEDIA? I'm sorry to interrupt, but can you spell
21 that, please.

22 A. Capital C, capital E, capital D, capital I,
23 capital A. So it stands for Cloned Enzyme Donor
24 Immunoassay.

25 So it is an assay that is a homogeneous

1 inactive fragment of the beta-galactosidase to combine with
2 the other inactive fragment to form an active
3 beta-galactosidase enzyme, and then that enzyme will work 02:44
4 on our colored product which is chlorophenol red
5 beta-d-galactoside -- beta-D-galactopyranoside, and that's
6 a substrate for beta-galactosidase, and so we will be able
7 to follow by absorbance the production of active
8 beta-galactosidase, and that occurs when there is product 02:44
9 in the urine that binds up with the antibodies that are
10 directed against the amphetamine, the methamphetamine, or
11 the MDMA, or any analyte that might cross-react.

12 Q. So is the reaction between the reagents and the
13 actual drug itself, or is it dealing mostly with antibodies 02:45
14 and antigens?

15 MR. TAILLIEU: I thought this depo was going to be in
16 English.

17 MR. OKOROCHA: I know.

18 MR. TAILLIEU: This is a court reporter's nightmare.

19 MR. OKOROCHA: Sorry.

20 THE WITNESS: Could you repeat that question. I'm
21 sorry.

22 MR. OKOROCHA: Sure.

23 Can you read it back?

24 (The question was read.)

25 THE WITNESS: I believe it's both. The reagents will

1 react with the analyte that we're talking about, either
2 amphetamine, methamphetamine, or MDMA. These are all
3 antigen antibody interactions. The system is an antigen
4 antibody reactivity, and it's competitive. So it's the
5 drug that would be in the urine competing with the reagent
6 drug that is attached to the inactive fragment of
7 beta-galactosidase.

02:46

8 Q. BY MR. OKOROCHA: Are you familiar with generally
9 what is stated -- are you familiar with what the
10 manufacturer Roche says about this, about testing for drugs
11 of abuse?

02:46

12 A. We use Roche reagents for many of our toxicologic
13 assays, and they identify that. Many of the assays which
14 are immunoassays are screening assays, and the confirmation
15 of those assays is recommended for identification of the
16 drugs that have been picked up by the initial screen
17 immunoassay.

02:47

18 Q. I have a case report here. "Amphetamine Positive
19 Urine Toxicology Screen Secondary to Atomoxetine" which I
20 think is Strattera.

21 Are you familiar with this paper?

22 A. I'm not familiar with that paper. I am aware
23 that there are other drugs that various, various assays for
24 amphetamines are known to cross-react and give a positive
25 screen result.

1 Q. Cross-reaction meaning -- can you elaborate on
2 what cross-reaction is?

02:48

3 A. So the antibodies that are directed against the
4 drugs may recognize an epitope, and the structure of that
5 epitope may be similar to the structure of other drugs and
6 not exclusively to amphetamines or methamphetamines or
7 MDMA. So even though we say that the antibodies within our
8 system of the assay are specific for those three
9 structures, those molecular structures, there are similar
10 compounds that are able to be recognized by the antibodies
11 in a, let's say, looser fit and still give a positive
12 result.

02:48

13 Q. So that would be a -- if that happened, that
14 would be a false-positive result?

15 A. That is correct. That would be a false-positive
16 result, and your -- what do you call it -- document No. 2
17 has a listing of a number of situations where drugs, other
18 drugs, whether they're antidepressants or whether they are
19 antibiotics or whether they are different types of classes
20 of drugs, interact and give false-positives in the
21 amphetamine assay. They are often assay specific, and so
22 one would have to test to make sure that the specific assay
23 may have a sensitivity to cross-reactive compounds as well.

02:49

02:49

24 The procedure for the Roche assay for
25 amphetamines lists a number of studies where they have

1 looked at -- I'm guessing -- 30 to 40 different compounds
2 to see if they are potentially able to cross-react and give
3 false-positives and what concentration those might be. So
4 that's as their requirement to look at interfering
5 substances that may cause false-positives.

02:50

6 Q. Okay. I have a Roche manual here, and it says
7 that the test is for in vitro diagnostic purposes only.

02:50

8 Would you agree with that?

9 A. Yes, I do.

10 Q. And in vitro --

11 MR. TAILLIEU: I'm sorry. I was going to say can you
12 explain what that means.

13 MR. OKOROCHA: Yes.

14 Q. And in vitro -- in vitro diagnostic use means a
15 clinician taking the results, looking at the -- examining
16 the patient and medical history -- well, actually can you,
17 can you tell me?

02:51

18 A. That designation of an in vitro diagnostic use is
19 one that's determined by the FDA. All of the support for
20 the utilization of that assay as a diagnostic product has
21 to go through review by the FDA, and when they approve the
22 utilization on the test, they allow you to use that
23 designation of an in vitro diagnostic test or device.

02:51

24 Q. And in vitro diagnostic tests are not designed to
25 be used for forensic purposes or outside the hospital; is

02:52

1 that correct?

2 MR. SAROUKHANIOFF: Objection. Calls for speculation.
3 Expert opinion.

4 THE WITNESS: I, I don't believe that there's an
5 exclusion for it to be utilized for forensic purposes. It
6 is an FDA approved test to be utilized to identify a
7 result. There are many other things that are required for
8 forensic drug testing that are not done in the process of
9 preanalytical as well as analytical actions in a forensic
10 drug testing lab.

02:52

02:53

11 Q. BY MR. OKOROCHA: Now, would you agree that the
12 tests -- well, in a hospital setting there's a patient that
13 needs to be treated urgently, and so the clinical
14 laboratory is used as opposed to other methods such as gas
15 chromatography or liquid chromatography which would take
16 much longer.

02:53

17 A. I would agree with that. We have no gas
18 chromatography or liquid chromatography systems in our core
19 laboratory at the LAC-USC Medical Center at this time, and
20 immunoassays are used commonly for any toxicologic
21 preliminary testing.

22 Q. Okay. And they are screening tests; correct?

02:54

23 A. That is correct.

24 Q. I'm going to ask you if you agree with Demaio &
25 Demaio. Let me get mine out. Specifically -- well, for

02:54

1 example --

2 MR. SAROUKHANIOFF: Can we identify on the record what
3 you're having the doctor look at. I'm sorry.

4 MR. OKOROCHA: I'm sorry about that. This is
5 "Forensic Pathology, Handbook of Forensic Pathology" by
6 Demaio & Demaio.

7 MR. SAROUKHANIOFF: And it's which edition?

8 MR. OKOROCHA: Second.

9 MR. SAROUKHANIOFF: Is that the most recent edition if
10 you know?

11 THE WITNESS: The copyright is 2007 on this third
12 page.

13 Q. BY MR. OKOROCHA: Now --

14 MR. TAILLIEU: And we're looking at page 260; is that
15 correct?

16 THE WITNESS: That is correct.

17 Q. BY MR. OKOROCHA: 260 -- and so this agrees with
18 you that it's a drug screening; correct?

02:55

19 A. Yes. Uh-huh.

20 Q. Turning to page 262, and it's Roman numeral XI,
21 would you agree when it says, "No scientist should go to
22 court and testify a drug was definitely present in an
23 individual or specimen based solely on a screening test"?

02:56

24 A. I agree.

25 Q. And the confirmatory test is absolutely necessary

1 to confirm a positive screening test; would you agree?

2 A. I would agree.

3 Q. So -- thanks. Unless you need to borrow it? 02:56

4 A. No.

5 Q. Now, are you familiar with -- did I hand you this 02:57
6 page?

7 MR. SAROUKHANIOFF: No. You handed it to me. Did you
8 want it for the doctor or for me?

9 MR. OKOROCHA: I'm sorry. Both.

10 MR. SAROUKHANIOFF: Normally I get copies of this, but
11 we're just kind of freelancing; right? You're just showing
12 him stuff, and I get excluded, but that's fine. Go ahead
13 and do your thing. I understand.

14 MR. TAILLIEU: Come on. Are your feelings being hurt,
15 Nino?

16 MR. SAROUKHANIOFF: Not my feelings being hurt, but
17 there's protocol, and protocol is that I get a copy of 02:57
18 what's being shown to the doctor, and perhaps we can attach
19 the documents as exhibits.

20 MR. TAILLIEU: I hear that.

21 MR. SAROUKHANIOFF: We haven't done any of that. So
22 it's an awkward situation, but if that's how you want to
23 take your depo, go ahead and take your depo. It's fine.

24 MR. OKOROCHA: All right.

25 MR. TAILLIEU: Make sure you identify as exhibits

1 everything that the witness sees just sequentially
2 especially if he reads from it.

3 I would like to actually attach the book that he
4 read from, and we can go ahead and mark the pages, and
5 we'll go ahead and make copies of those pages. We'll
6 identify pages 260 and 262 of the "Handbook of Forensic
7 Pathology," 2nd edition, and we'll attach those as the next
8 exhibit in line which is what?

9 THE COURT REPORTER: 3.

10 MR. TAILLIEU: Exhibit 3. So leave the book out, and
11 we can make copies after the deposition, and we'll make
12 sure that counsel for the defense gets a copy.

13 (Exhibit 3 was marked for identification
14 is attached hereto.)

15 MR. TAILLIEU: The witness is currently looking at?
16 What is it?

17 MR. OKOROCHA: The California Regulations Title 17
18 about forensic testing.

19 MR. TAILLIEU: Got it. We'll identify that as Exhibit
20 4.

21 (Exhibit 4 was marked for identification
22 is attached hereto.)

23 MR. SAROUKHANIOFF: Thank you.

24 MR. OKOROCHA: By the way, in Demaio it was pages 260
25 through 262.

02:58

02:58

1 MR. SAROUKHANIOFF: This doesn't apply to
2 methamphetamines, does it?

3 MR. OKOROCHA: Well, it's --

4 MR. SAROUKHANIOFF: I just want to be clear that that
5 is what this regulation discusses.

6 MR. OKOROCHA: Correct.

7 MR. SAROUKHANIOFF: Is that true, Doctor? Is that
8 your understanding?

9 THE WITNESS: That is my understanding.

10 MR. SAROUKHANIOFF: Based upon your reading of this
11 document?

12 THE WITNESS: That is my understanding.

13 MR. SAROUKHANIOFF: Okay. He can use mine so he can
14 follow along with you, Counsel.

03:02

15 MR. OKOROCHA: Okay.

16 MR. SAROUKHANIOFF: So if you want to direct him to
17 the page you're looking at.

18 MR. OKOROCHA: Sure. I'm on page 6.

19 Q. And for forensic purposes "a urine sample from a
20 living individual shall be a sample collected no sooner
21 than 20 minutes after first voiding the bladder."

22 In your -- in this test was there a voiding of
23 the bladder in a 20 minute waiting period?

24 MR. SAROUKHANIOFF: Calls for speculation.

25 THE WITNESS: I do not know. I just do not know.

03:03

1 Q. Got it. And how long have you had this position?

2 A. I was assigned and moved over in February of this
3 year.

03:22

4 Q. Before that what was your position?

5 A. I was a lab director for one of the campus
6 laboratories, and we did a lot of the outpatient testing in
7 chemistry and hematology and microbiology and molecular
8 pathology.

9 Q. Got it. Any of that related to forensic testing
10 of blood samples, urine samples?

11 A. No.

12 Q. How about before that position? What was your
13 job?

14 A. So I worked at the LAC-USC Medical Center as the
15 lab director of the immunology section there doing things
16 like hepatitis testing and other immunologic tests and a
17 little bit of flow cytometry. I've been running the flow
18 cytometry laboratory for our pathology department since
19 1998.

03:23

20 Q. Got it. What's flow cytometry? I'm sorry. I'm
21 not -- I don't know as much as he knows about the medicine.

03:23

22 A. Flow cytometry is a technique that allows us to
23 identify antigens on the surface of cells usually used in
24 diagnosing leukemias and lymphomas in patients that are
25 being seen by hematologists.

1 Q. Hold on. You lost me.

2 A. L-methamphetamine.

3 Q. What is L-methamphetamine?

4 A. It's the optical stereoisomer of methamphetamine.
5 So it has different effects on the body.

6 Q. I don't know what that means.

7 A. So there are two different stereoisomers that
8 optically rotate light either right or left, and it turns 03:40
9 out that the receptors are specific for one or the other,
10 and most of the effects in the body are related to the D
11 type of stereoisomer of amphetamine or methamphetamine and
12 the L types have different effects.

13 Q. Got it. But, nonetheless, at the levels
14 indicated on the right column, you would get a positive on
15 the assay for amphetamines; correct? 03:40

16 A. That is correct.

17 Q. And that doesn't include the false-positive
18 results that were discussed earlier and that I think were
19 at least partially discussed in Exhibit 2?

20 A. In Exhibit 2 I think they identify bupropion by
21 my recollection, and that's the only one that I think that
22 they comment on. There are a couple of other
23 antidepressants, one other antidepressant that they have
24 new information on, but that was not tested by the Roche 03:41
25 company.

1 Q. So if Mr. Sarabia had consumed any of the
2 positive compounds on page 8, including potentially some of
3 the compounds that would lead -- that would result in a
4 false-positive, he would have likely shown a positive
5 screening test for amphetamines; correct?

03:41

6 A. Correct.

7 MR. SAROUKHANIOFF: Objection. Incomplete
8 hypothetical. Calls for speculation.

9 Q. BY MR. TAILLIEU: If someone were to say based
10 only on the screening test that Mr. Sarabia was under the
11 influence of methamphetamine, could that be proved solely
12 by the screening test?

13 A. Not in my opinion.

14 MR. SAROUKHANIOFF: Belated objection. Calls for
15 expert testimony.

16 Sorry, Doctor.

17 THE WITNESS: It's all right.

03:42

18 Q. BY MR. TAILLIEU: So this was 7?

19 A. Yes. Or that one. Yes. That was 8. I'm sorry.

20 THE COURT REPORTER: I have 6.

21 MR. TAILLIEU: Exhibit 7. Sorry.

22 Q. And Exhibit 7 that we just looked at, that's put
23 out by the manufacturer of the assay; right?

24 A. That is correct.

25 Q. Okay. All right.

03:42

1 with the possible identification of the amphetamine or
2 methamphetamine in the system.

04:13

3 Q. Why does a hospital -- why do you even do these
4 screens? Why are they done?

5 A. We do them because patients present with symptoms
6 and signs that oftentimes need to be understood before they
7 can proceed with the treatment, and so in the case of
8 sympathoametic amines, they may potentially have a patient
9 who comes in who is acting a little bit unusual, has signs
10 that they have hypertension, that they have increased heart
11 rates, they have dilated pupils, and so they ask us to do
12 testing to help us put into perspective those signs and
13 symptoms and to help them identify whether they need to
14 just support the patient or whether they need to do
15 additional interventions that might be able to address the
16 issue.

04:14

04:14

17 Q. And also a physician who's treating a patient, a
18 patient comes in with a serious injury, let's say, that
19 physician would want to know whether or not the patient has
20 some kind of drug in his or her system so that if they are
21 going to be giving the patient drugs here at the hospital,
22 there is not going to be a counter-reaction or adverse
23 reaction between the drug that's being given here and a
24 drug that may have been taken previously by the patient him
25 or herself; correct?

04:15

1 Q. In this case based upon the information that
2 you've reviewed in preparation for your deposition here
3 today, can you state to a reasonable degree of medical
4 probability that there was a drug that was either
5 interfering or providing another source of error in the
6 positive result for amphetamines?

04:18

7 A. I believe that the result that we have identifies
8 that there was either evidence of amphetamine,
9 methamphetamine, or MDMA which are specific targets of our
10 assay or an interfering substance or something that is
11 recognized because of their similar cross-reactivity
12 in the assay. So that is something that needs to be
13 confirmed in order to identify which of those possibilities
14 were operant.

04:18

15 Q. Would any of the interfering drugs appear on
16 their own in the assay that was done here? For example,
17 could you -- would this test identify any of those drugs
18 that are listed as being potential interferers?

04:19

19 A. Any of the individual drugs at the level that
20 were identified by Roche would give you -- alone would give
21 you a positive result in the assay that we do.

22 Q. There's been some discussion about
23 D-methamphetamines and L-amphetamines. In layman's terms
24 can you tell what us what is the difference between the
25 two?

04:20

1 A. I think the difference is in the specificity of
2 the receptor on the cells. So that only certain
3 stereoisomers of the compounds are effective in causing the
4 physiologic effect as opposed to the other stereoisomer.

04:20

5 MR. TAILLIEU: Is that clear now?

6 Q. BY MR. SAROUKHANIOFF: Can you give us now -- are
7 there L-amphetamines that are sold over the counter to your
8 knowledge?

9 A. I'm not -- I don't do therapeutics as a
10 pathologist, so I don't know the possible L-amphetamines
11 that might be out there. I just don't know.

12 Q. Fair enough. I was just throwing it out there.
13 Then there was some discussion where you
14 mentioned preanalytical versus analytical. What did you
15 mean by that?

04:20

16 A. Preanalytical means that it's everything that
17 happens before the sample is tested on the instrument. So
18 was the sample intact and kept at a temperature that would
19 not destroy the analytes. Was there any other problem with
20 mix up of a sample with another. That sort of a thing that
21 would affect the results.

04:21

22 Q. And analytical is everything that happens
23 afterwards?

24 A. Everything that is tested.

25 Q. In this case based upon everything that you have