

UNITED STATES DEPARTMENT OF JUSTICE
DRUG ENFORCEMENT ADMINISTRATION
Hearing

IN THE MATTER OF:	:	DEA Docket No.
	:	1362
Schedules of Controlled	:	
Substances: Proposed	:	Hearing Docket No:
Rescheduling of Marijuana	:	26-96
	:	

Tuesday,
July 7, 2026

700 Army Navy Drive
Arlington, Virginia 22202

The above-entitled matter came on for
hearing, pursuant to notice, at 9:00 a.m. EDT.

BEFORE:

THE HONORABLE DEREK C. JULIUS,
Chief Administrative Law Judge

1 APPEARANCES:

2 On Behalf of the Government:

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4 DAVID C. MALEY, ESQ.
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22 On Behalf of Smart Approaches to Marijuana:

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26 On Behalf of the States of Nebraska, Idaho,
27 and Indiana:

28 JOHN M. McNICHOLS, ESQ.
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1 APPEARANCES: (continued)

2 On Behalf of DUID Victim Voices:

3 PATRICK D. KENNEALLY, ESQ.

4 CONNOR MIGHELL, ESQ.

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8 DAVID G. EVANS, ESQ.

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On Behalf of Kenneth Finn, M.D.:

12

PATRICK D. KENNEALLY, ESQ.

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DAVID G. EVANS, ESQ.

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18

19

ALSO PRESENT:

20

GRAYSON E. PHILLIPS, ESQ., Law Clerk

21

LUKE NIFORATOS, Executive Vice President of

22

Smart Approaches to Marijuana (SAM)

23

DECLAN HURLEY, Torridon Law summer associate

24

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1 P-R-O-C-E-E-D-I-N-G-S

2 (9:00 a.m.)

3 JUDGE JULIUS: On the record. Today is
4 July 7th, 2026. This is Day 6 in the matter of
5 Schedules of Controlled Substances: Proposed
6 Rescheduling of Marijuana, DEA Docket Number
7 1362, Hearing Docket Number 26-96.

8 I'll start with taking appearances
9 today. Government Counsel, who do you have here
10 on behalf of the Government?

11 MR. LONICH: Yes, Your Honor. For the
12 Government, Jar~~rett~~ Lonich, David Maley, Kayla
13 Kreinheder, and Mack Swan.

14 JUDGE JULIUS: Thank you, Counsel.
15 And on behalf of Smart Approaches to
16 Marijuana, who do we have?

17 MR. McNICHOLS: Good morning, Your
18 Honor. John McNichols, Chase Harrington, and
19 Luke Niforatos on behalf of Smart Approaches to
20 Marijuana.

21 JUDGE JULIUS: And for the opposed
22 states?

23 MR. McNICHOLS: For the opposed states,
24 John McNichols, Chase Harrington, accompanied by
25 Declan Hurley.

1 JUDGE JULIUS: Thank you, Counsel.
2 On behalf of Kenneth Finn, M.D.?

3 MR. KENNEALLY: Good morning, Your
4 Honor. Patrick Kenneally for the record,
5 K-E-N-N-E-A-L-L-Y, along with Connor Mighell,
6 M-I-G-H-E-L-L.

7 JUDGE JULIUS: Okay.

8 MR. EVANS: And David Evans, Your Honor.

9 JUDGE JULIUS: Thank you, Counsel.
10 And on behalf of DUID Victim Voices?

11 MR. KENNEALLY: Good morning, Your
12 Honor. Patrick Kenneally on behalf of DUID
13 Victim Voices, as well as Connor Mighell.

14 JUDGE JULIUS: And on behalf of National
15 Drug and Alcohol Screening Association?

16 MR. EVANS: I -- I'm also with DUID.

17 JUDGE JULIUS: My apologies, Mr. Evans.

18 MR. EVANS: David Evans.

19 JUDGE JULIUS: And on behalf of National
20 Drug and Alcohol Screening Association?

21 MR. EVANS: David Evans, Your Honor.

22 JUDGE JULIUS: Thank you very much. And
23 I have, according to our attendance sheet, that
24 Tennessee Bureau of Investigation is not planning
25 on attending today, nor is Phillip Drum, PharmD.

1 Anyone here on behalf of either of those parties?

2 (No response.)

3 JUDGE JULIUS: Okay. That's consistent
4 with our attendance roster. Thank you, everyone.

5 We were ready for Witness 2 on Smart
6 Approaches to Marijuana. Are you ready to call
7 your second witness?

8 MR. McNICHOLS: We are, Your Honor.
9 Smart Approaches to Marijuana calls Dr. Luli
10 Akinfiresoye.

11 JUDGE JULIUS: Okay. If someone can go
12 get her.

13 MR. McNICHOLS: Can you show her to the
14 witness stand?

15 THE COURT OFFICER: Yes. If you will
16 follow me, ma'am.

17 JUDGE JULIUS: Good morning, ma'am. Go
18 ahead and step up on the witness stand. And
19 before you have a seat, let me swear you in.
20 Please raise your right hand.

21 WHEREUPON,

22 LULI R. AKINFIRESOYE
23 was called as a witness by Counsel for Smart
24 Approaches to Marijuana and, having been first
25 duly sworn, assumed the witness stand, was

1 examined and testified as follows:

2 JUDGE JULIUS: Thank you very much. You
3 may have a seat. Let me give you some quick
4 instructions about the process of testifying,
5 just for clarity of the record. Please wait
6 until any question is fully asked before
7 beginning your answer.

8 Please pause before beginning your
9 answer to see if the question draws an objection.
10 If you hear the word "objection," just pause.
11 I'll deal with the objection, and then I'll
12 instruct you whether you should answer or not.
13 If you need the question repeated at that time,
14 you can ask for repetition.

15 If at any time you get a question you
16 don't understand, just say that you don't
17 understand the question before you try to answer.
18 If you answer a question, the Court will assume
19 that you understood the question. Okay?

20 THE WITNESS: Okay.

21 JUDGE JULIUS: Thank you very much.

22 THE WITNESS: Thanks.

23 JUDGE JULIUS: Mr. McNichols?

24 DIRECT EXAMINATION

25 BY MR. McNICHOLS:

1 Q Ma'am, can you please state your full
2 name for the record?

3 A Luli Akinfiresoye.

4 Q Okay. Can you speak a little bit closer
5 to the microphone --

6 A Yes.

7 Q -- just for purposes of the record?
8 Thank you, ma'am. Can you verify for the record
9 and for the Court that you and I have never met
10 before today?

11 A Yes.

12 Q And you and I have made no effort to
13 coordinate your testimony or what you're going to
14 say today. Is that correct?

15 A Correct.

16 Q How long have you worked for the Drug
17 Enforcement Administration, ma'am?

18 A Over 10 years.

19 Q Okay. And do you work in a particular
20 section or unit or division of the Drug
21 Enforcement Administration?

22 A I work with the Diversion Division,
23 specifically with the Drug and Chemical
24 Evaluation Section.

25 Q In very summary and general terms,

1 ma'am, what does the Drug and Chemical Evaluation
2 Section do?

3 A We evaluate drugs and chemicals for
4 abuse liability, and we also draft regulations to
5 place those within the CSA, the Controlled
6 Substances Act.

7 Q Thank you. And is the Drug and Chemical
8 Evaluation Section sometimes referred to as DOE?

9 A Currently, yes, it is referred to as
10 DOE. Yes.

11 Q Okay. If I refer to it by that
12 shorthand, will you know what I'm talking about
13 today?

14 A Yes, sir.

15 Q All right. Thank you. What is your
16 highest level of education, Dr. Akinfiresoye?

17 A I have a Ph.D. in pharmacology.

18 Q And where did you get that from, ma'am?

19 A From Howard University.

20 Q Okay. And in general terms, ma'am, what
21 is the science of pharmacology?

22 A Pharmacology deals with the study of
23 drug interaction within the body and how the body
24 responds to the drug, so pharmacodynamics and
25 pharmacokinetics.

1 Q Okay. Do you teach pharmacology, ma'am?

2 A Yes, sir.

3 Q Where?

4 A At Northern Virginia Community College.

5 Q And how long have you been teaching
6 there?

7 A Over 15 years.

8 Q Okay. And have you authored
9 publications on pharmacology as well, ma'am?

10 A Yes, sir.

11 Q Approximately how many?

12 A More than 15.

13 Q Okay. And have you previously testified
14 as an expert witness on pharmacology as well?

15 A Yes, sir.

16 MR. McNICHOLS: Okay. At this point,
17 Your Honor, we would tender Dr. Akinfiresoye as
18 an expert in the science of pharmacology.

19 JUDGE JULIUS: She will be provisionally
20 accepted as an expert in compliance with the
21 preliminary order that this Court issued
22 regarding expert witness testimony.

23 MR. McNICHOLS: Thank you.

24 JUDGE JULIUS: Thank you, Mr. McNichols.

25 MR. McNICHOLS: Thank you.

1 BY MR. McNICHOLS:

2 Q And in your role in the Drug and
3 Chemical Evaluation Section, or DOE, do you
4 evaluate drugs of abuse?

5 A Pretty much, yes.

6 Q Okay. And you evaluate them for
7 purposes of scheduling under the Controlled
8 Substances Act as well?

9 A Yes.

10 Q Okay. And in the course of doing so, do
11 you prepare something called an eight-factor
12 analysis?

13 A Yes.

14 Q All right. And in broad strokes, ma'am,
15 what is an eight-factor analysis?

16 A It's an analysis required under the
17 Controlled Substances Act to evaluate the abuse
18 potential and liability of a drug before it can
19 be placed within the -- a given schedule of the
20 CSA.

21 Q Okay. And in 2024, ma'am, in connection
22 with this rescheduling, did you prepare an
23 evaluation of marijuana?

24 A I provided a scientific document on the
25 science of marijuana.

1 Q Okay. And did that scientific document
2 take the form of an eight-factor analysis?

3 A Correct.

4 Q All right. And in preparing that
5 document, did you review the published scientific
6 literature on marijuana?

7 A Yes.

8 Q Did you review the literature on its
9 potential for abuse?

10 A Yes.

11 Q Did you also review the literature on
12 its potential medical uses?

13 A Yes.

14 Q And did you also review information from
15 databases, for example, on the diversion and
16 distribution of marijuana?

17 A Yes.

18 Q And did you also review information from
19 databases on its societal effects?

20 A Yes.

21 Q Okay. And did you also, in the course
22 of preparing your eight-factor analysis, review
23 the eight-factor analysis that had been prepared
24 by the Department of Health and Human Services on
25 marijuana?

1 A I looked at it, yes.

2 Q And you're familiar with its contents,
3 are you not, ma'am?

4 A To an extent.

5 Q All right. I've placed in front of you
6 a document that says on the front of it SAM
7 Exhibit 7. Do you have that in front of you,
8 ma'am?

9 A Yes, sir.

10 MR. McNICHOLS: And could you please
11 pass that up, those binders? Thank you. And we
12 have one coming for Your Honor as well. And
13 you'll -- I think you'll find it behind Tab 2,
14 Your Honor.

15 JUDGE JULIUS: Oh.

16 MR. McNICHOLS: Thank you.

17 BY MR. McNICHOLS:

18 Q And, Dr. Akinfiresoye, do you recognize
19 SAM Exhibit 7?

20 A Yes.

21 Q And what is that document, ma'am?

22 A It's the scientific review that we
23 conducted on the science of marijuana.

24 Q Okay. And it's the one that you
25 prepared in December of 2024?

1 A Yes. It's the one we submitted, yes.

2 Q Did you say, "The one we submitted"?

3 A Correct.

4 Q Okay. And it's also accompanied by a
5 sworn declaration from you and a curriculum vitae
6 of yours. Is that also correct?

7 A Correct, yes.

8 MR. McNICHOLS: All right. And at this
9 point, Your Honor, we would move SAM Exhibit 7
10 into evidence.

11 JUDGE JULIUS: Any objection?

12 MS. KREINHEDER: No objection, Your
13 Honor. The Government would like to request if
14 the witness would like some water.

15 JUDGE JULIUS: Oh, certainly. Ma'am,
16 would you like -- do you have some over there?
17 Would you like some?

18 THE WITNESS: There is some, yes.

19 JUDGE JULIUS: Oh, perfect.

20 THE WITNESS: Thanks.

21 JUDGE JULIUS: Do you have a cup as
22 well?

23 THE WITNESS: Yes.

24 JUDGE JULIUS: Okay. SAM Exhibit 7 will
25 be admitted, without objection.

1 (Whereupon, the above-referred
2 to document was received into
3 evidence as SAM Exhibit
4 No. 7.)

5 MR. McNICHOLS: Thank you. May we
6 publish it electronically?

7 JUDGE JULIUS: Yes.

8 MR. McNICHOLS: Thank you.

9 BY MR. McNICHOLS:

10 Q All right. We'll -- we'll go through it
11 as we -- and, ma'am, did you prepare this
12 document in your role as a DEA employee?

13 A Yes.

14 Q All right. And before you submitted it,
15 to use your word, did you get sign off from other
16 people in the Drug and Chemical Evaluation
17 Section?

18 A Yes.

19 Q And you prepared it in coordination with
20 other colleagues from within DEA, correct?

21 A Correct, yes.

22 Q Okay. And the first page on the report,
23 page 13, and is this the first page of the
24 report, ma'am?

25 A Yes, sir.

1 Q Okay. And you see at the front of it it
2 has the logo of the Drug and Enforcement
3 Administration and the U.S. Department of
4 Justice, correct?

5 A Correct.

6 Q Okay. Is this an official DEA document?

7 A Yes.

8 Q All right. And do the contents of this
9 document correspond to the scheduling factors
10 that the DEA is supposed to consider under the
11 Controlled Substances Act?

12 A The content or the -- the add-ins?

13 Q Say again?

14 A Can you clarify your question, please?

15 Q Do the contents of this document, the
16 materials that you put together that comprise it,
17 do they correspond to the eight scheduling
18 factors that DEA considers under the Controlled
19 Substances Act?

20 A The document was drafted to mimic the
21 eight -- the factors required for control.

22 Q And you -- did you say "mimic the
23 factors"?

24 A Using the same titles, correct. Yes.

25 Q Okay.

1 A Of the eight factors.

2 Q It provides -- it provides information
3 as to each of those factors, correct?

4 A To an extent, yes.

5 Q All right. Okay. And does -- and you
6 prepared this for the Notice of Proposed
7 Rulemaking on marijuana, correct?

8 A No.

9 Q You did not?

10 A Yes.

11 Q Could you go to page 4 of this document,
12 ma'am? And this is part of your -- no. All
13 right. And I'm on paragraph 13. This is -- you
14 -- are you -- are you with me, ma'am?

15 A Yes, sir.

16 Q Okay. And this is paragraph 13 of a
17 declaration that you swore to in December of
18 2024, correct?

19 A Correct, yes.

20 Q Okay. And what you wrote here in
21 paragraph 13 is, "The attached document, titled
22 Marijuana: Scientific Knowledge, serves to
23 provide the information sought by the NPRM." Do
24 you see that, ma'am?

25 A Yes, sir.

1 Q Okay. And NPRM refers to Notice of
2 Proposed Rulemaking. Does it not?

3 A Correct, yes.

4 Q And in this case, the NPRM was the NPRM
5 for marijuana, correct?

6 A Correct.

7 Q All right.

8 A Your question was, did I prepare this
9 for the NPRM? No, I did not.

10 Q Okay. Well, in light of what you have
11 written there in paragraph 13, ma'am, why do you
12 say that you did not prepare this for the NPRM?

13 A It said to provide the information
14 sought by the NPRM. So the NPRM had gaps in
15 data, and ideally, when we publish an NPRM, we
16 also publish an eight-factor analysis. In this
17 case, that did not happen because one was not
18 done.

19 Q What was not done, ma'am?

20 A The scientific -- the eight-factor
21 analysis was not complete at the time of the
22 NPRM, and we needed more data. Data was lacking.
23 We needed more information. So the scientific
24 document provided the general knowledge of the
25 science of marijuana.

1 Q I see. And you provided it because in
2 the DEA you saw gaps in what -- in the
3 information that was already part of the record.

4 A Correct.

5 Q Correct?

6 A Yes.

7 Q Okay. And you and -- and the document
8 that you're providing or that you created was
9 intended to fill those gaps.

10 A Correct.

11 Q Is that correct?

12 A Correct.

13 Q Thank you, ma'am. Thank you. And does
14 this document represent -- that -- that is -- go
15 to the report, please. To use your phrase,
16 ma'am, scientific document, does this scientific
17 document represent the DEA's current state of
18 knowledge on marijuana as it existed in December
19 of 2024?

20 A Correct, yes.

21 Q Okay. Which was just a year and a half
22 ago, correct?

23 A Yes.

24 Q Okay. And does this document attempt to
25 summarize the DEA's knowledge on marijuana as it

1 relates to the Controlled Substances Act?

2 A Correct, yes.

3 Q All right. And do you stand by
4 everything that you wrote in this document,
5 ma'am?

6 A Yes.

7 Q Okay. Has this document ever been
8 superseded by another eight-factor analysis by
9 DEA since you created this?

10 A Not to my knowledge.

11 Q Okay. The first part of this document I
12 want to go to, ma'am, is the section on currently
13 accepted medical use, which appears at page 36.
14 And did you cover the currently accepted medical
15 use of marijuana under factor 3 of the
16 eight-factor analysis, ma'am?

17 A Yes, sir.

18 Q Okay. And at the time that you wrote
19 this, as we established, you possessed HHS's
20 eight-factor analysis, which was prepared a year
21 earlier or so, correct?

22 A Yes.

23 Q All right. And you knew at the time you
24 wrote this that HHS's eight-factor analysis
25 applied a two-part test to the question of

1 currently accepted medical use.

2 A Correct.

3 Q Correct?

4 A Yes.

5 Q Okay. But, nevertheless, in your
6 analysis in this document, you applied the
7 five-factor test, correct?

8 A Correct.

9 Q All right. And you did that even
10 knowing that there was a memorandum from the
11 Office of Legal Counsel that said you could use
12 the two-factor test, correct?

13 MS. KREINHEDER: Objection, Your Honor.

14 JUDGE JULIUS: What's the objection?

15 MS. KREINHEDER: That's a leading
16 question.

17 JUDGE JULIUS: It is a leading question.
18 Do you want to rephrase, Counsel?

19 MR. McNICHOLS: Your Honor, under -- I
20 understand the federal rules of evidence are not
21 -- are guiding rather than binding here. But
22 under the Federal Rule 611, because this witness
23 is currently employed by my adversary, I'm
24 allowed to ask leading questions.

25 And, moreover, she is testifying here

1 consistent with a Touhy notice. It will be much
2 easier for me to keep this examination within the
3 confines of the things she's allowed to testify
4 to if I'm allowed to be very direct with these
5 questions.

6 JUDGE JULIUS: I can give you some
7 leeway there. Do I understand that there is a
8 Touhy letter out there that provides the scope of
9 what she's allowed to testify to? Have we been
10 provided, as the Tribunal, a copy of that? It
11 might be helpful for our records to -- to have a
12 copy of that.

13 MR. McNICHOLS: We have a copy. We will
14 provide it now to Your Honor.

15 JUDGE JULIUS: Thank you. Just in case
16 there are any objections related to that, I want
17 to be able to --

18 MR. McNICHOLS: Yeah.

19 JUDGE JULIUS: -- see the scope. Thank
20 you.

21 So overruled. I'll allow the question
22 as the circumstances make sense to me.

23 MR. McNICHOLS: Thank you, Your Honor.

24 BY MR. McNICHOLS:

25 Q At the time you did your analysis of

1 currently accepted medical use, ma'am, as you
2 wrote in your report, you were aware that the
3 Office of Legal Counsel had issued a memorandum
4 stating that the two-factor analysis was okay,
5 correct?

6 A Yeah. That it can be -- it can be
7 accepted if DEA chooses to.

8 Q I -- I'm sorry. A little slower?

9 A It can be accepted if DEA chooses to.
10 It was -- it was my understanding that, you know,
11 DEA could use it if they want to.

12 Q Or not use it if they wanted to,
13 correct?

14 A That's my own personal opinion.

15 Q Okay. But in this particular analysis
16 here, you didn't use the two-factor analysis,
17 correct?

18 A Correct.

19 Q You used the five-factor analysis,
20 correct?

21 A Correct.

22 Q Right. Which was the analysis that you
23 -- you've used in all other evaluations for
24 currently accepted medical use, correct?

25 A Correct.

1 Q Okay. And the decision to apply the
2 five-factor analysis rather than the two-factor
3 analysis, that was a decision that you made in
4 conjunction with your other colleagues within the
5 DEA, correct?

6 MS. KREINHEDER: Objection, Your Honor.

7 JUDGE JULIUS: Hold on.

8 MS. KREINHEDER: That's outside the
9 scope of the Touhy authorization. The
10 declaration doesn't discuss the decision-making
11 process behind which test was used.

12 JUDGE JULIUS: And ~~did~~ you have a
13 response to the objection, Mr. McNichols?

14 MR. McNICHOLS: Yeah. There is a
15 discussion on the page that we're showing here,
16 under the paragraph that begins April 11, 2024,
17 where the witness -- the document that the
18 witness prepared explains that they were in
19 possession of the opinion by the Office of Legal
20 Counsel that said they could use a two-part test,
21 but then they decided not to, right? And they
22 decided they were not bound by that.

23 What I'm trying to understand here,
24 consistent with the phrasing in this paragraph,
25 is, how did they come to the decision to apply

1 the five-part test rather than the two-part test?
2 And the current question that's under objection
3 is simply, was this a collective decision, or was
4 it an individual decision?

5 JUDGE JULIUS: I do see that, number 2,
6 the December 2024 declaration of the doctor and
7 its attachments marked in a separate but related
8 proceeding as Government Exhibit 4 in Hearing
9 24-44. It is -- this question is related to
10 information that is contained in that attachment,
11 so I'll allow the question.

12 MR. McNICHOLS: Thank you.

13 BY MR. McNICHOLS:

14 Q Dr. Akinfiresoye, the -- the decision to
15 apply the five-factor test rather than the
16 two-factor test, was that a decision that you
17 made by yourself or in conjunction -- in
18 discussion with your colleagues at DEA?

19 A It was in conjunction with my colleagues
20 within the Drug and Chemical Evaluation Section.

21 Q Okay. And you and your colleagues
22 decided to apply the five-factor test because it
23 was consistent with what you've always done,
24 correct?

25 A Correct. And it's been upheld in court

1 previously.

2 Q Correct. And you thought it was a
3 better test than the two-factor test, correct?

4 MS. KREINHEDER: Objection, Your Honor.

5 MR. McNICHOLS: You may answer. Oh,
6 sorry.

7 JUDGE JULIUS: Hold on.

8 Basis of the objection?

9 MS. KREINHEDER: Again, this is outside
10 the Touhy authorization letter.

11 JUDGE JULIUS: Response?

12 MR. McNICHOLS: This is entirely
13 consistent with the -- with the fact that they
14 did an analysis of both the two-factor and the
15 five -- or at least **as** they explained the
16 decision-making here, chose one over the other.

17 We've established this was a collective
18 decision. We've established DEA did not think it
19 had to follow the two-factor test, and I'm trying
20 to understand the logic behind this
21 organization's decision to apply that rather than
22 the other one. This is directly within the scope
23 of what's covered in this particular paragraph.

24 MS. KREINHEDER: Your Honor, may we add
25 something?

1 JUDGE JULIUS: Go ahead, Counsel.

2 MS. KREINHEDER: Within the scientific
3 data review that is subject to the Touhy
4 authorization letter, there's no discussion of
5 this topic besides this one paragraph that we can
6 see on the screen right now.

7 MR. McNICHOLS: The -- this is --

8 MS. KREINHEDER: There's no discussion
9 of why the decision was made to use one test over
10 the other.

11 JUDGE JULIUS: Mr. McNichols?

12 MR. McNICHOLS: This paragraph explains
13 the basis for thinking they could depart from the
14 two-factor test. This is included within the
15 scope of what she's allowed to testify to. In
16 the course of asking her questions about this, as
17 I understand it, I'm not limited to just asking
18 her to read from what she wrote and can ask for
19 the logic underlying these decisions and the
20 decision to apply the test that they did.

21 And my only question at this point is
22 whether they chose this particular test rather
23 than the other one, which was an option to them
24 because it was better.

25 JUDGE JULIUS: I do tend to agree with

1 you, Mr. McNichols. I think number 2 is more
2 expansive than just asking her to read the
3 document, so I will allow the question.

4 MR. McNICHOLS: Thank you, ma'am.

5 BY MR. McNICHOLS:

6 Q My question to you, Dr. Akinfiresoye, is
7 you and your colleagues in the Drug and Chemical
8 Evaluation Section decided to apply the
9 five-factor test rather than the two-factor test
10 because you thought it was a better test,
11 correct?

12 A "Better" is not the right word. It was
13 -- it's a -- it's a more comprehensive test.

14 Q I'll settle for more comprehensive.
15 Thank you, ma'am. And you were aware, though, in
16 general terms, of the confines of the two-factor
17 test. Were you not?

18 A Yes.

19 Q Did that test make sense to you as a
20 pharmacologist?

21 A Scientifically, no.

22 Q And why didn't it make sense?

23 A It lacked chemistry. It lacked
24 consideration for safety. It lacked
25 consideration for efficacy.

1 Q And those were all things that you hoped
2 to provide by conducting your analysis under the
3 five-factor test, correct?

4 A Correct.

5 Q And it's fair to say that those were all
6 things that you thought should have been provided
7 in the HHS's analysis but which were not
8 provided. Correct, ma'am?

9 A I can't --

10 Q I apologize. I think you had said that
11 the HHS's two-factor analysis lacked information
12 on efficacy and safety and chemistry. Is that
13 what you said?

14 A Correct, yes.

15 Q And you thought the HHS should have
16 provided analyses of those subjects, correct?

17 A For drug approved for medicine, it's a
18 -- it's an important requirement.

19 Q Exactly. And -- and you were filling
20 that gap, correct?

21 A Correct, yes.

22 Q Right. And under the five-factor test
23 that you applied, ma'am, in order for a drug to
24 have a currently accepted medical use, it has to
25 pass all five factors. Is that correct?

1 A To an extent, yes.

2 Q Okay. And am I right, then, that if it
3 fails even one of the factors, even one of the
4 five factors, it does not have a currently
5 accepted medical use, correct? Let me withdraw
6 the question.

7 Let me -- I think I can help you with
8 this, Dr. Akinfiresoye. May I direct you into
9 your report?

10 A Yeah.

11 Q Thank you. If you go down to the -- up
12 there, the paragraph begins "Historically," which
13 is now on display here.

14 The sentence that begins,
15 "Specifically," and you tell me if I read this
16 correctly. It states, "Specifically, with
17 respect to a drug that has not been approved by
18 FDA, in order for that drug to have a currently
19 accepted medical use in treatment in the United
20 States, DEA and HHS have required that the
21 substance demonstrate all five of the following
22 elements," and then you list the elements. Do
23 you see that, ma'am?

24 A Yes, sir.

25 Q Okay. So my -- my question to you is,

1 then, if a drug fails any one of the five factors
2 of the five-factor test, it does not have a
3 currently accepted medical use, correct?

4 A There's a designation that may differ,
5 but in general, yes.

6 Q Okay.

7 A Yes.

8 Q Okay. And just to reiterate here, you
9 conducted an analysis of marijuana based on the
10 scientific evidence as to all five of these
11 factors, correct?

12 A Correct.

13 Q And then you set them forth in your
14 findings in the report, correct?

15 A Correct.

16 Q And these were the findings of the DEA,
17 correct?

18 A Of the Drug and Chemical Evaluation
19 Section.

20 Q The Drug and Chemical Evaluation Section
21 of the Drug Enforcement Administration, correct,
22 ma'am?

23 A Correct, yes.

24 Q Okay. And am I correct in reading this
25 report that as to all five of the factors, as to

1 each of them, marijuana failed. Is that correct?

2 A On the chemistry and -- and for it to be
3 reproducible, yes. Adequate safety studies, yes.
4 Adequate and well-controlled studies proving
5 efficacy adequate, yes. The drug must be
6 accepted by qualified experts, that can be
7 debated. And the science -- the scientific
8 evidence must be widely available, that can also
9 -- can be debated.

10 Q Okay. So if I understand your testimony
11 correctly, ma'am, you're saying that by your
12 analysis, marijuana passed factors 1, 2, and 3,
13 and whether it passed 4 and 5 could be debated.
14 Is that a fair summary of your testimony?

15 A Yes.

16 Q All right. Well, let's walk through
17 these. All right? The first one is that of the
18 drug's chemistry being known and reproducible.
19 Do you see that, ma'am?

20 A Yes, sir.

21 Q Okay. And do we now have up on screen
22 here at page 37 of the document your analysis on
23 factor 1, correct?

24 A Yes, sir.

25 Q All right. And on the subject of the

1 drug's chemistry being known and reproducible,
2 what you wrote is, "The chemical constituents in
3 marijuana, including Delta-9-THC and other
4 cannabinoids, vary significantly across different
5 marijuana strains. Marijuana has many strains
6 with high variability in the concentrations of
7 Delta-9-THC, the main psychoactive component, as
8 well as other cannabinoids and compounds. In
9 addition, the concentrations of Delta-9-THC and
10 other cannabinoids may vary between strains."

11 And then you wrote, "Due to the
12 variation of the chemical composition in
13 marijuana strains, it is not possible to derive a
14 standardized dose. Marijuana is not a single
15 chemical and does not have a consistent and
16 reproducible chemical profile with predictable or
17 consistent clinical effects." Is that what you
18 wrote, ma'am?

19 A Yes.

20 MS. KREINHEDER: Objection, Your Honor.

21 MR. McNICHOLS: Okay.

22 JUDGE JULIUS: What's the nature of the
23 objection?

24 MS. KREINHEDER: Again, this is a
25 leading question. He's just reading from her

1 report straight to her.

2 JUDGE JULIUS: And the question was
3 just, is that what it says? It is leading, but
4 I'll allow it. She --

5 MR. McNICHOLS: Thank you, Your Honor.

6 JUDGE JULIUS: The Court can read as
7 well.

8 BY MR. McNICHOLS:

9 Q Is that what you wrote, ma'am?

10 A Yes, sir.

11 Q Okay. Now, as I read this, at no point
12 in this discussion in your paragraph do I see any
13 finding by DEA that this substance -- marijuana
14 -- actually passes the test of known and
15 reproducible chemistry. Do you see that language
16 in here anywhere?

17 A Yes, because marijuana is not a
18 substance.

19 Q Where did you -- what do you mean
20 marijuana is not a substance, ma'am?

21 A A substance is a single molecular
22 entity.

23 Q I see. And a single molecular entity,
24 it -- in order to be a drug that you're
25 evaluating, it has to be a singular molecular

1 entity. Is that correct?

2 A Under the Controlled Substances Act,
3 yes.

4 Q Right. And marijuana is not that,
5 correct?

6 A Correct, yes.

7 Q Okay. Now let's go on to your
8 discussion, in other words, of the safety
9 studies, which is below that, begins on page 37
10 of 106 and then goes over to page 38. Are you
11 there, ma'am?

12 A Yes, sir.

13 Q Okay. And in this section, you wrote
14 that there were considerable -- there is --
15 withdrawn.

16 You wrote, "The considerable variation
17 in the chemistry of marijuana results in
18 differences in safety, biological,
19 pharmacological, and toxicological parameters
20 among the various marijuana samples."

21 And then at the end of this paragraph,
22 you noted, "One observed trend is the increased
23 use of high Delta-9-THC and low CBD material in
24 recreational and medical marijuana markets."

25 And then you also wrote, "Additional

1 findings highlight that state markets are
2 dominated by high THC products."

3 Do you see that, ma'am?

4 A Yes, sir.

5 Q And do you agree with me, ma'am, that
6 THC is the intoxicating substance within
7 marijuana, correct?

8 A Delta-9-THC, yes.

9 Q I'm sorry?

10 A Delta-9-THC, yes.

11 Q Delta-9-THC. Thank you for the
12 correction. Right. And am I correct in
13 understanding, ma'am, that the increased use of
14 high Delta-9-THC and markets dominated by high
15 THC products, that's inconsistent with safety.
16 Is it not, ma'am?

17 A Correct, yes.

18 Q Okay. And in this section of your
19 report, ma'am, did you document any finding that
20 marijuana had adequate safety studies?

21 A Marijuana, again, is not a drug, so no.

22 Q Right. And got it. Now, on the subject
23 of the third factor -- that is, adequate and
24 well-controlled studies proving efficacy -- the
25 first line you wrote there was, "There are no

1 adequate and well-controlled studies that
2 determine marijuana's efficacy." Do you see
3 that, ma'am?

4 A Yes, sir.

5 Q Did you -- what did you say?

6 A Yes.

7 Q Okay. And that was the DEA's finding as
8 to marijuana. Was it not?

9 A Our finding within the Drug and Chemical
10 Evaluation Section.

11 Q Got it. And based on that finding,
12 therefore, marijuana -- and also because, as you
13 testified, it's not a drug; therefore, it failed
14 the third factor of efficacy. Did it not, ma'am?

15 A It failed the third factor of
16 well-controlled and sufficient studies to prove
17 it's efficacious.

18 Q Right. It failed the third factor of
19 the currently accepted medical use analysis,
20 correct?

21 A Yes.

22 Q Okay. And you went on from there
23 actually to talk about some of the conditions
24 that were currently being treated by marijuana in
25 state programs in -- in the remainder of the

1 paragraph. Do you see that, ma'am?

2 A Yes.

3 Q And among the conditions that you
4 observed were then being treated by marijuana in
5 state programs were: chronic pain, glaucoma,
6 anxiety, and nausea. Do you see that?

7 A Yes.

8 Q Okay. And at the time you wrote this --
9 well, withdrawn.

10 What you went on to say, though, was
11 that the fact that marijuana is being used to
12 treat those conditions without FDA approval can
13 have serious safety risks. That was what you
14 wrote, correct?

15 A Correct, yes.

16 Q And in writing that, you were quoting
17 directly from the FDA. Were you not?

18 A Yes.

19 Q And that fact -- that is, the use of
20 unapproved marijuana, right, to -- to treat these
21 conditions, was a matter of great concern to the
22 FDA as well. Was it not?

23 A I would imagine at the time they wrote
24 that, yes.

25 Q And in fact, you actually wrote that in

1 your report, did you not, ma'am?

2 A Correct.

3 Q On the first page.

4 A Correct, yes.

5 Q Right. Now, at the time that you wrote
6 this, you were aware that HHS had concluded that
7 ~~as --~~ at least ~~as~~ to some of those indications
8 that you have listed here, that there was, in
9 fact, a currently accepted medical use for
10 marijuana, correct?

11 A Correct.

12 Q Okay. But you disagreed with that,
13 correct?

14 A Correct.

15 Q And you disagreed with that as to each
16 of their findings of currently accepted medical
17 use, correct?

18 A Correct. As I was -- when I was -- when
19 I did this, it's to evaluate cannabis in general,
20 not just the FDA-approved drug product that we
21 have.

22 Q Right. Cannabis in general.

23 A Correct.

24 Q And then, also, just still on the
25 subject of efficacy, you went on to a later

1 section in your report, at pages 41 and 42, where
2 you discussed several clinical studies on
3 marijuana in particular for the pain indication.

4 Are -- are you at the bottom of page 41, ma'am?

5 A Yes, sir.

6 Q Okay. And is this the section of your
7 report where you discussed marijuana and -- and
8 the clinical trials on marijuana as it pertained
9 to the pain indication?

10 A Correct.

11 Q All right. Now help me -- just walk
12 through this with me, ma'am. But it looked like
13 -- withdrawn.

14 When you reference a name in one of the
15 citations, is that the name of the author of the
16 study or the researcher?

17 A Yes.

18 Q Okay. And here -- let's go through and
19 count these up. I saw the name Abrams, Wallace,
20 and Strand on page 41. And then over on page 42,
21 I saw additional names of Schuster, Thomas,
22 Zhang-James, Boehnke, Maskal, and Olfson. And
23 are those all studies that you cited in this
24 particular discussion on clinical research
25 assessing marijuana's therapeutic effects?

1 A As related to pain, yes.

2 Q Okay. And I -- I counted them up to be
3 about nine different studies. Is that consistent
4 with your recollection, ma'am?

5 A Yeah.

6 Q Okay. And am I right that at least the
7 -- the DEA's read, or the Drug and Chemical
8 Evaluation Section's read, of all these studies
9 is that as to the pain indication they show that
10 marijuana did not work and in some instances
11 actually made things worse. Correct?

12 A Yeah. The data wasn't clear enough.
13 There wasn't clear data to support the use of
14 marijuana for the treatment of chronic pain.

15 Q Right. But at least the studies that --
16 that you found showed that in some cases it
17 actually made chronic pain worse, correct?

18 A Yes.

19 Q And in listing these particular studies
20 in your report, ma'am, were you going out of your
21 way to find negative studies on marijuana as a
22 treatment for pain?

23 A No.

24 Q Now another study that you cited in your
25 report over on page 55 actually showed that not

1 only did marijuana not help, but it frequently
2 resulted in cannabis use disorder when offered as
3 a treatment. Do you recall that?

4 A Yes.

5 Q Okay. And in -- in -- withdrawn.

6 Now, as part of this analysis of
7 marijuana as a therapy, you also analyzed whether
8 using marijuana could reduce reliance on opioids,
9 did you not?

10 A Did I evaluate to see if marijuana could
11 reduce -- reduce reliance on opioid?

12 Q Yeah. Did you evaluate data on -- or
13 studies on that issue, ma'am?

14 A Yeah. There were studies that were
15 reviewed that made that conclusion.

16 Q Okay. Well, let's go down to that, to
17 page 42 of your report. And this is the section
18 of your report where you discuss the studies
19 which analyze the relationship between marijuana
20 use and opioid use. Correct?

21 A Correct.

22 Q Okay. And as I read this section,
23 again, the names of the authors here were Cano,
24 Bryson, Fleisthler, Phillips and Gazmararian,
25 Hasin, Kim, Tormohlen, Neilson, and Nguyen. Were

1 those all authors whose studies you cited here,
2 ma'am?

3 A Yes, sir.

4 Q And, again, I'm counting them up. You
5 tell me if I have it wrong. I counted nine
6 different studies in this section. Does that
7 sound right?

8 A Correct.

9 Q Okay. And based on your read of these
10 studies, they all appeared to show that marijuana
11 did not work in reducing opioid overdose deaths,
12 correct?

13 A Yes. There were mixed findings.

14 Q Okay. And they also showed that
15 marijuana -- excuse the -- that marijuana did not
16 work in reducing the adverse effects of opioid
17 use, correct?

18 A Some studies, yeah, did say that.

19 Q Right. And -- and they also show that
20 marijuana did not work in reducing opioid use,
21 correct?

22 A Correct.

23 Q And those were all findings by the Drug
24 and Chemical Evaluation Section, correct?

25 A Correct.

1 Q Right. And here again, in reviewing
2 these studies and putting them in your report,
3 were you going out of your way to find negative
4 studies on marijuana and its relationship to
5 opioid use?

6 A Not at all.

7 Q Did you say not at all?

8 A Yes.

9 Q And on the fourth factor of currently
10 accepted medical use, which you addressed at
11 page 38 of 106, what you wrote there, beginning
12 at the bottom of page 38, was that "Currently,
13 there is no consensus of opinion among experts
14 concerning the medical utility of marijuana for
15 use in treating specific recognized disorders."
16 Do you see that, ma'am?

17 A Yes, sir.

18 Q And for that reason, therefore --

19 THE COURT REPORTER: Sorry.

20 BY MR. McNICHOLS:

21 Q -- you would have --

22 THE COURT REPORTER: Sorry.

23 MR. McNICHOLS: I'm sorry.

24 THE COURT REPORTER: I didn't hear the
25 response to that question.

1 JUDGE JULIUS: Could you just repeat
2 your last answer?

3 THE WITNESS: Oh. Yes.

4 MR. McNICHOLS: Okay.

5 JUDGE JULIUS: Thank you.

6 BY MR. McNICHOLS:

7 Q And for that reason, ma'am, as to
8 factor 4 -- that is, the acceptance of qualified
9 experts -- marijuana did not pass that factor
10 either, correct?

11 A My own scientific opinion, yes.

12 Q And then the last factor -- well, hold
13 on. You say -- you say "my own scientific
14 opinion." But, ma'am, the -- the document that
15 you prepared represented the consensus view of
16 you and your colleagues in the Drug and Chemical
17 Evaluation Section. Did it not, ma'am?

18 A Yes, sir.

19 Q Right. So, in other words, the
20 consensus opinion of you and your colleagues in
21 the Drug and Chemical Evaluation Section was that
22 marijuana did not pass the fourth factor of the
23 five-factor analysis, correct?

24 A We didn't write that there, but --

25 Q But that was your opinion, correct?

1 A That's -- that's why I said it's my own
2 scientific opinion. But in the document we
3 drafted, it's not -- we didn't write that there.

4 Q Right. But --

5 A But in my own scientific opinion, yes,
6 because marijuana is not a drug. It's -- it's a
7 -- yes. It's not an approved drug. It's not a
8 drug. As such it cannot -- it does not have -- a
9 doctor cannot write a prescription for it.

10 Q Right.

11 A It's not a drug.

12 Q And because it's not a molecule, it
13 can't pass the test, correct?

14 A It could if -- if you find -- if -- if
15 it becomes a drug, but it's not a drug. So,
16 yeah, I don't see how it can.

17 Q Got it. Got it. And then on the fifth
18 factor of the scientific evidence being widely
19 available, what you wrote there in the first
20 sentence was, "The currently available data and
21 information on marijuana is not sufficient to
22 address the chemistry, pharmacology, toxicology,
23 and effectiveness," correct?

24 A Correct.

25 Q And that was a finding by the Drug and

1 Chemical Evaluation Section. Was it not, ma'am?

2 A Correct.

3 Q Which meant that marijuana, again, can't
4 pass this factor, correct?

5 A It can.

6 Q But it didn't, correct?

7 A Because the data is just -- it's -- it's
8 not consistent.

9 Q Right. And because the data on
10 marijuana as to this factor is not consistent,
11 therefore, marijuana did not pass this factor of
12 the test, correct?

13 A The factors say scientific evidence must
14 be widely available.

15 Q Right. And it's not, correct?

16 A Because there's no drug tied to it, yes.

17 Q Now, in the course of preparing your
18 findings on the five-factor analysis, did you
19 notice that your findings appeared to be in
20 tension or conflicting with the findings of HHS
21 on currently accepted medical use?

22 A Correct.

23 Q And is it fair to say, then, that in
24 coming to the conclusions that you did, you
25 rejected HHS's conclusions, correct?

1 A I didn't --

2 MS. KREINHEDER: Objection.

3 THE WITNESS: -- make any conclusion.

4 JUDGE JULIUS: Hold on. What's the
5 objection?

6 MS. KREINHEDER: Again, this is outside
7 of the scope of the written document that she's
8 authorized to testify to, outside of the Touhy
9 authorization.

10 JUDGE JULIUS: Mr. McNichols?

11 MR. McNICHOLS: Well, she's acknowledged
12 that there was some tension between the
13 conclusions that she reached and those that she
14 was aware that HHS reached. It appears as
15 though, based on the discussion that we've
16 recently had, that in fact it didn't pass any of
17 the five factors that she's outlined. What I
18 want to value or understand at this point is
19 whether in the course of reaching this opinion
20 they were actively rejecting the HHS analysis as
21 unsound and unfounded.

22 JUDGE JULIUS: I do think it's within
23 the scope of number 2. I will allow it.

24 MR. McNICHOLS: Thank you.

25 BY MR. McNICHOLS:

1 Q Just my question, ma'am, in the course
2 of reaching your findings, or the Drug and
3 Chemical Evaluation Section's findings, on
4 marijuana and a currently accepted medical use --
5 in the course of reaching those conclusions and
6 findings, you were rejecting HHS's conclusions
7 and findings. Were you not?

8 A We didn't -- we didn't have to make that
9 comparison. We just conducted our own
10 five-factor analysis that we've always applied to
11 every drug that we have to evaluate within the
12 CSA.

13 Q In your report, after your discussion of
14 currently accepted medical use, you had a
15 discussion of state medical marijuana programs as
16 well. And just to help direct you,
17 Dr. Akinfiresoye, I think it begins over on
18 page 39 of your report under the heading State
19 Programs for Marijuana. Let me know when you're
20 there, ma'am.

21 A I'm there, sir.

22 Q Okay. And what you observed was that in
23 many states they had programs for both medical
24 and recreational use, correct?

25 A Correct.

1 Q Okay. And according to the data that
2 you reviewed, there was roughly 86 percent
3 overlap between people who were using marijuana
4 for medical purposes and those who were using it
5 for recreational purposes. Is that right?

6 A Correct.

7 Q Okay. And just to put this in layman's
8 terms, ma'am, what that means is that roughly
9 86 percent of the people who are using marijuana
10 for medical purposes are also using it to get
11 high, correct?

12 MS. KREINHEDER: Objection.

13 JUDGE JULIUS: Basis of the objection?

14 MS. KREINHEDER: Calls for speculation.

15 JUDGE JULIUS: Mr. McNichols?

16 MR. McNICHOLS: No, I -- I think
17 recreation, that that's what "recreation" means,
18 and I'm just wanting to make sure that I
19 understand it in lay terms.

20 JUDGE JULIUS: I mean, I do see that
21 there is a distinction in the document between
22 medicinal and recreational cannabis use.

23 MR. McNICHOLS: Let me withdraw the
24 question.

25 JUDGE JULIUS: Okay. I think the

1 document speaks for itself on that issue.

2 BY MR. McNICHOLS:

3 Q Okay. Let me ask this. But am I right
4 then, ma'am, that as a DEA official in the Drug
5 and Chemical Evaluation Section that recreational
6 use of a drug is considered abuse. Is it not?

7 A Correct.

8 Q Okay.

9 MS. KREINHEDER: Objection.

10 BY MR. McNICHOLS:

11 Q And, therefore, 86 percent of the people
12 who are using marijuana for recreational purposes
13 -- excuse me, for medical purposes are also
14 abusing it, correct?

15 MS. KREINHEDER: Objection, Your Honor.
16 That's outside the scope of her Touhy
17 authorization.

18 JUDGE JULIUS: You're asking in general,
19 Mr. McNichols?

20 MR. McNICHOLS: No, I'm just -- what I'm
21 trying to find out, Your Honor, is whether the
22 statement here talking about the overlap between
23 medicinal or medical and recreational use, in
24 fact, implies abuse by a significant portion of
25 the people who are ostensibly using it

1 medicinally.

2 JUDGE JULIUS: To the extent you're
3 trying to get clarity on what the statement
4 means, I will allow the question.

5 MR. McNICHOLS: Thank you.

6 BY MR. McNICHOLS:

7 Q Am I right to interpret your report,
8 ma'am, as a statement that in 86 percent of the
9 cases the people who are using marijuana for
10 medical purposes are also abusing it, correct?

11 A I would have to defer to the authors of
12 the study in this case, and you would have to go
13 find that publication.

14 Q Okay. But --

15 A My memory is not --

16 Q I thought we had established a moment
17 ago that, at least to your understanding,
18 recreational use and abuse are the same thing,
19 right?

20 A Correct. Correct.

21 Q Okay.

22 A I agree.

23 Q All right. All right.

24 A But the sentence can be subjective, and
25 that's why I want to defer to the author in this

1 case.

2 Q Oh. All right. In the -- go to -- over
3 to -- in the same or the immediately following
4 section over on page 41 of your report,
5 Dr. Akinfiresoye, you have a section there titled
6 Medical Advice by Dispensary Staff. Do you see
7 that, ma'am?

8 A Yes, sir.

9 Q And I notice that in writing that
10 report, you put medical advice in quotes. Do you
11 see that, ma'am?

12 A Yes, sir.

13 Q Okay. And you're -- you're smiling, am
14 I right, ma'am?

15 A Yes.

16 Q Okay. And am I right that the reason
17 you put medical advice in quotes, and the reason
18 you're smiling now, is because you did not
19 consider the advice being given by dispensary
20 staff to be medical, correct?

21 MS. KREINHEDER: Objection, Your Honor.

22 JUDGE JULIUS: What's the basis of the
23 objection?

24 MS. KREINHEDER: Again, this is a
25 leading question.

1 MR. McNICHOLS: I think I'm allowed to
2 ask those, Your Honor.

3 JUDGE JULIUS: We've discussed that.
4 Overruled.

5 MR. McNICHOLS: Thank you.

6 JUDGE JULIUS: I'll allow the objection.

7 BY MR. McNICHOLS:

8 Q Am I right, ma'am, that the --

9 JUDGE JULIUS: Or I'll allow the
10 question.

11 BY MR. McNICHOLS:

12 Q -- that the reason you're smiling, and
13 that the reason you put medical in quotes in this
14 report, is that advice by dispensary staff is not
15 medical, correct?

16 A Correct, yes.

17 Q Right. Right. And that was a finding
18 by DEA. Was it not?

19 A By the -- by Drug and Chemical
20 Evaluation Section, yes.

21 Q By you and your colleagues in that
22 section, correct?

23 A Correct, yes.

24 Q Okay. And among the other shortcomings
25 of dispensary staff advice that you document

1 here, it appears as though by some studies
2 dispensary staff are giving advice that is
3 actually harmful to patients, correct?

4 A Yeah. Medical -- dispensary staff
5 should not be giving medical advice, yes.

6 Q They should not be giving advice?

7 A Correct.

8 Q And they -- the reason they shouldn't be
9 giving it is at least because, as to some studies
10 have it, it's harmful, correct?

11 A Yeah. Because, you know, you have to
12 consider the pharmacokinetics of the drugs,
13 drug-to-drug interaction. You -- you're unsure
14 what the other -- what the patients are taking.
15 We don't have that data. You cannot advise. You
16 cannot -- staff cannot simply advise anyone
17 coming to the dispensary on what product they
18 should get or how often they should use it.

19 Q And --

20 A They can't do that. It's -- because, you
21 know, it's -- it's ~~tantamount~~ detrimental to
22 safety also. It's -- yeah.

23 Q Right. And -- and for that reason,
24 ma'am, it was your observation that the
25 dispensary -- that the advice being given by

1 dispensary staff was actually harmful, wasn't it?

2 A Correct, yes.

3 Q Okay. And you also observed in this
4 section of your report that there was frequently
5 a gap between the medical advice that patients
6 were receiving and the advice that they were
7 actually getting from their doctors, correct?

8 A From the dispensary staff and the
9 doctor, correct. Yes.

10 Q Right. And that was also a finding by
11 the Drug and Chemical Evaluation Section,
12 correct?

13 A Based on published data, yes.

14 Q Right. And -- and that was a finding
15 that you thought had been omitted from the HHS
16 report, correct?

17 A It was not -- yeah, it was not
18 considered by HHS.

19 Q Okay. And something they should have
20 considered, correct?

21 A To our knowledge, yes.

22 Q Right. And the studies that you're
23 citing here in this section of your report on the
24 bad advice being given by dispensary staff, it
25 looks like they date to 2022, 2020, 2019, and

1 2021. Are those consistent with the general date
2 range of the studies that you looked at?

3 A Yes, sir.

4 Q So all this information, in other words,
5 was available to HHS at the time they wrote their
6 eight-factor analysis, correct?

7 MS. KREINHEDER: Objection.

8 THE WITNESS: I almost --

9 JUDGE JULIUS: Hold on.

10 THE WITNESS: -- want to change my
11 response.

12 JUDGE JULIUS: We have an objection.
13 Hold on, ma'am. Hold on.

14 THE WITNESS: I almost want to change my
15 response.

16 JUDGE JULIUS: Ma'am? Hold on. We have
17 an objection.

18 THE WITNESS: Okay. Sorry.

19 JUDGE JULIUS: Basis of the objection?

20 MS. KREINHEDER: It's speculation. She
21 doesn't know what was available to them at the
22 time.

23 MR. McNICHOLS: Well, no, this is just a
24 date range question, Your Honor. I mean, she
25 knows the date on which the eight-factor analysis

1 was written by HHS. If not, we can certainly
2 provide it. She says she reviewed it. She's --
3 in this well-documented report, she's outlined
4 the dates on the studies that she relied on. I
5 think she's allowed to draw the inference here
6 that, in fact, this information, because it's
7 from public reports, was available to HHS but
8 ignored by the agency.

9 JUDGE JULIUS: I'll allow the question
10 as to chronology and dates. She can't really
11 testify as to what HHS actually knew about or
12 ignored, so sustained in part.

13 BY MR. McNICHOLS:

14 Q At least as to the publication dates on
15 the studies that you've cited, ma'am, most of the
16 studies on the bad advice being given by
17 dispensary staff were out there in the public
18 domain at the -- before HHS published its
19 analysis of marijuana, correct?

20 A Yes. And I also want to take back my
21 response to you earlier. Within the confines of
22 the Controlled Substances Act under the
23 eight-factor analysis, there are several factors
24 to consider. And when HHS decides to use one
25 data or the other, it's left to the scientist in

1 charge.

2 And so it's true for DEA, too. When we
3 receive HHS scientific document, we have to
4 conduct a comprehensive analysis, rely on
5 scientific data and stuff like that. And that's
6 why we do that, because we tend to have more that
7 they may have omitted. It's not -- it's not
8 uncommon. It's actually common that, you know,
9 depending on the scientist that drafted a
10 document from the HHS side, they may not consider
11 certain data.

12 And when we do, and it's subjective as
13 well, too. I, as a pharmacologist, may believe
14 this data is -- is strong enough, it's needed,
15 and it should go within the eight-factor
16 analysis. A colleague of mine may not consider
17 that data because they don't think it's -- it's
18 needed or warranted to meet the burden of the
19 eight-factor analysis as described within the
20 CSA.

21 Q But the information that you put in your
22 report, ma'am, represented the consensus view of
23 you and your colleagues in the Drug and Chemical
24 Evaluation Section, correct?

25 A Correct, yes.

1 Q Okay. Right. And the consensus view of
2 you and your colleagues, as you've already
3 testified to, was that the eight-factor analysis
4 by HHS was missing analysis of chemistry and
5 safety and efficacy, correct?

6 A It was in there. They did -- they did
7 factor 3. Factor 3 requires you to look at the
8 chemistry. They did.

9 Q Okay. But you've already testified that
10 you saw gaps in their analysis.

11 A Correct. Yes.

12 Q Okay. All right.

13 A Yes.

14 Q Here we go. Now, also on the subject of
15 state medical marijuana programs, one of the
16 things that you consider under factor 1 of the
17 eight-factor analysis and the abuse potential of
18 a drug is diversion. Is that right?

19 A Correct.

20 Q And just so we all know, what is
21 diversion?

22 A The use of a drug other than what it was
23 intended for.

24 Q Okay. And one of the observations you
25 made in your report, ma'am, was that the state

1 medical marijuana programs that we've been
2 talking about were a significant source of
3 diversion of marijuana in the United States,
4 correct?

5 A Correct.

6 Q Right. And, in fact, they appear to be
7 the primary source of diversion and the
8 availability of marijuana in the United States,
9 correct?

10 A To an extent.

11 Q To an extent? And -- and --

12 JUDGE JULIUS: Give me a verbal answer
13 on --

14 THE WITNESS: I said to an extent.

15 JUDGE JULIUS: And then he asked for
16 clarity, I believe.

17 THE WITNESS: No. He just repeated what
18 I said.

19 JUDGE JULIUS: Okay. I just want to
20 make sure if there was a question that we got an
21 answer to it.

22 MR. McNICHOLS: Thank you, sir.

23 JUDGE JULIUS: Thank you.

24 MR. McNICHOLS: Yeah.

25 BY MR. McNICHOLS:

1 Q And in your report, you went on to
2 discuss, among other things, evidence of thefts
3 from dispensaries when you were on the subject of
4 diversion. I think it's on page 18. I'm wrong,
5 ma'am, page 15 of your report.

6 A 15?

7 Q 15, yes. In the upper right-hand corner
8 of the page. Are you on page 15, ma'am?

9 A Yes, sir.

10 Q Okay. Thank you. And what you wrote on
11 15 at the -- in the paragraph we're highlighting
12 now was that "Individuals have reported that a
13 primary source for marijuana is through other
14 individuals with access to state medical and
15 recreational programs." Do you see that, ma'am?

16 A Yes, sir.

17 Q And that's an example of diversion. Is
18 it not?

19 A Correct.

20 Q Okay. And that analysis or that
21 information on diversion was something that HHS
22 omitted from its analysis of marijuana, correct?

23 A It was not within the document.

24 Q It was not within the document that they
25 prepared, correct?

1 A Correct.

2 Q And so this was a gap that you were
3 filling that they had omitted, correct?

4 A Correct.

5 Q Right. And the information that you
6 cited here on diversion included like newspaper
7 articles on thefts from dispensaries, correct?

8 A Correct.

9 Q And that information was publicly
10 available. Was it not?

11 A Yeah.

12 Q And you found it just by looking on the
13 internet, did you not, ma'am?

14 A Correct.

15 Q And on the subject -- we can go to the
16 subject of abuse next. How are you doing,
17 Dr. Akinfiresoye? We've been going about
18 45 minutes. Are you comfortable?

19 A Yeah.

20 MR. McNICHOLS: All right. If it's fine
21 with the Court, I'll proceed for about another
22 30 minutes, and we may finish up at that point.

23 JUDGE JULIUS: Yeah. That'll be --

24 MR. McNICHOLS: Thank you. All right.

25 Very good.

1 JUDGE JULIUS: Works for the Court.

2 BY MR. McNICHOLS:

3 Q On the subject of abuse,
4 Dr. Akinfiresoye, am I right that the DEA found
5 in the document we're looking at that marijuana
6 is the most commonly used illicit drug in the
7 United States?

8 A Correct, yes.

9 Q Right. And you had an extensive
10 discussion in your scientific document of the
11 effects of use, both acute effects and chronic
12 effects, correct?

13 A Correct.

14 Q And did you say "correct"?

15 A Yes.

16 Q Okay. Do you need some water, ma'am?
17 Okay. Okay. And the -- the chronic and acute
18 effects of marijuana are relevant to the
19 eight-factor analysis in that they speak to the
20 risks of abuse and also the risks to the public
21 health, correct?

22 A Correct, yes.

23 Q And those are both factors that you're
24 supposed to consider under the eight-factor
25 analysis, right?

1 A When the data is available.

2 Q When the data is available? Okay. And
3 in the case of marijuana, it was available,
4 right?

5 A Correct, yes.

6 Q Right. Okay. Now, one of the effects
7 of use that you mentioned in your scientific
8 document was something called cannabis use
9 disorder, which you pick up with on page 55. Let
10 me know when you're at that place in the
11 document, ma'am. Okay. And what is cannabis use
12 disorder?

13 A It's a -- it's like -- it's a condition
14 characterized by psychological dependence of
15 cannabis, psychological dependence on cannabis.

16 Q And "psychological dependence" means,
17 among other things, that a person is trying to
18 quit using but can't quit?

19 A Correct.

20 Q Is that fair? Okay.

21 A Yeah.

22 Q Okay. And one of the figures that you
23 cited here in your report, that roughly
24 10 percent of the 193 million individuals in the
25 U.S. who have ever used cannabis meet the

1 criteria for lifetime cannabis dependence. Do
2 you see that, ma'am?

3 A Correct.

4 Q Okay. Right. And that was a finding by
5 the Drug and Chemical Evaluation Section. Was it
6 not?

7 A Correct.

8 Q Right. And, in fact -- but that's just
9 10 percent of -- of anyone who's ever used
10 cannabis, correct?

11 A Correct, yes.

12 Q And, in fact, the -- the percentage of
13 people with cannabis use disorder among regular
14 users or daily users is much higher than
15 10 percent. Is it not?

16 A Correct, yes.

17 Q And, in fact, the prevalence of cannabis
18 use disorder is among the highest of all drugs in
19 the United States, correct?

20 A It's about 30 percent.

21 Q Thirty percent. And in terms of how --
22 how does that compare in terms of the other drugs
23 of abuse that you evaluated in your career?

24 A It's not as high as some others.

25 Q But it's higher than some.

1 A Correct, yes.

2 Q Okay. All right. Now, and just in
3 terms of the sheer numbers of people affected by
4 cannabis use disorder, at least in comparison to
5 all the other illicit substances, it affects more
6 people, correct?

7 A Yeah. Millions of people are -- are
8 diagnosed with cannabis use disorder.

9 Q 19.2 million, at least according to your
10 report, correct?

11 A Correct, yes.

12 Q Right. And that's higher than any other
13 drug, any other illegal drug, correct?

14 A Correct, yes.

15 Q Right. Right. Okay. Now, another
16 point that you made in this report is that
17 cannabis use disorder is a problem in its own
18 right, but it's also linked to other health risks
19 as well. Is that fair?

20 A Correct, sir.

21 Q And among the other health risks that
22 cannabis use disorder is linked to are
23 psychiatric disorders, correct?

24 A Correct.

25 Q In other words, things like psychosis,

1 correct?

2 A Correct.

3 Q Schizophrenia?

4 A Correct.

5 Q Depression?

6 A Correct.

7 Q Suicidal ideation?

8 A Correct.

9 Q Bipolar disorder?

10 A Correct.

11 Q Okay. And there's -- in other words,
12 the link between cannabis use disorder and those
13 things has been established, has it not, ma'am?

14 A Correct.

15 Q Okay. And in the course of your review
16 of the adverse effects of cannabis use, did you
17 compare how strongly the link is between cannabis
18 use and mental health disorders between -- with
19 that of the link between other drugs of abuse and
20 mental health disorders?

21 A I don't have a recollection. I would
22 have to see that.

23 Q Yeah. Let me -- let me see if I can
24 direct you on this here, ma'am.

25 MR. McNICHOLS: Can we go to page 56?

1 Yeah, that paragraph right there. Pop it up a
2 little higher. No, no, no.

3 BY MR. McNICHOLS:

4 Q All right. And -- and this is at
5 page 56 of your report, ma'am, on psychosis,
6 which begins with the sentence from "Per Ganesh
7 and D'Souza, 2022, available evidence supports
8 that marijuana causes psychosis and that the risk
9 for conversion to -- from -- of psychosis to
10 schizophrenia is highest when the psychosis is
11 marijuana induced." Do you see that, ma'am?

12 A Yes, sir.

13 Q And then about five sentences down,
14 there's a sentence that begins -- or five lines
15 down, there's a sentence that begins,
16 "Numerous factors." Let me know when you're
17 there.

18 A I'm there.

19 Q Okay. And what you wrote there is,
20 "Numerous factors, including genetic and
21 environmental factors, increase the risk of
22 developing schizophrenia and substance use
23 disorder, and cannabis is associated with the
24 strongest link and evidence." Do you see that,
25 ma'am?

1 A Correct.

2 Q And was that a finding of the Drug and
3 Chemical Evaluation Section? Well, let -- let me
4 withdraw that question, ma'am.

5 My -- my next question to you is, based
6 on the information that you reviewed in the
7 course of preparing this, was it clear that of
8 all drugs marijuana is the one that has the
9 strongest link to psychosis and schizophrenia?

10 A We didn't compare with drugs. We
11 compared marijuana. Yes, marijuana is linked.
12 It can induce psychosis or exacerbate psychosis.
13 That's -- yes, that's a scientific fact, but we
14 did not do comparison to other substance.

15 Q And in the course of writing this
16 discussion on psychosis on page 56, and on
17 schizophrenia on page 58, did you notice that
18 those effects of chronic marijuana use were not
19 covered by HHS in its eight-factor analysis?

20 A I -- without seeing the document, I
21 cannot answer. I don't -- I don't have a
22 recollection.

23 Q Okay. Well, in the course of writing
24 this up, ma'am, did you perceive yourself, and
25 did you and your colleagues in the Drug and

1 Chemical Evaluation Section perceive yourselves
2 to be filling a gap in HHS's analysis when it
3 came to the mental health effects of cannabis
4 use?

5 A To an extent.

6 Q To an extent?

7 A Yeah.

8 Q To what extent, ma'am?

9 A We weren't going back and forth
10 comparing documents when we were drafting this,
11 so it may have been there or not. I -- I don't
12 know.

13 Q Now, did you -- in the course of
14 preparing your analysis and your scientific
15 document, ma'am, did you observe that the
16 psychotic instances or the number of psychotic
17 episodes attributable to marijuana had been
18 resulting in an increase in demonstrated harms?

19 A Demonstrat~~ed~~^{ing} increase in
20 psychot~~ic~~^{ic}is episodes, yes.

21 Q Yeah. But also demonstrating an
22 increase in, for example, emergency room visits
23 attributable to marijuana-induced psychosis,
24 correct?

25 A Correct, yes.

1 Q And, in fact, in recent years, it had, I
2 think, more than doubled in one study, correct?

3 A Correct, yes.

4 Q And gone up, I think, 67 percent in
5 another study, correct?

6 A I don't know that number, but it's gone
7 up, yes.

8 Q Right. And I think, to your testimony,
9 it's more than doubled in some instances,
10 correct?

11 A Correct, yes.

12 Q Right. And that's only in recent years,
13 correct?

14 A Correct, yes.

15 Q Right. Okay. And did you also observe
16 that the problem of psychosis in cannabis use was
17 more prevalent and more pronounced in states that
18 had relaxed cannabis laws?

19 A I believe so.

20 Q Right. And I think this is over on
21 page 57, if we can go there. There's a paragraph
22 that begins "Furthermore." And then the last
23 sentence is what I want to direct your attention
24 to, ma'am. It says, "The authors concluded that
25 there was a higher proportion of hospital

1 discharges for psychosis associated with cannabis
2 use in areas with more liberal cannabis
3 legalization laws." Do you see that, ma'am?

4 A Yes.

5 Q Okay. And that was a finding of DEA,
6 was it not? Or of -- that was a finding of you
7 and your colleagues in the Drug and Chemical
8 Evaluation Section, correct?

9 A Yeah. Relying on Crocker, et al.
10 publication, yes.

11 Q Right. Okay. And the inference you
12 were drawing from that was that relaxed
13 restrictions on marijuana would increase the
14 number of psychotic instances, correct?

15 MS. KREINHEDER: Objection, Your Honor.

16 JUDGE JULIUS: Hold on. What's the
17 objection?

18 MS. KREINHEDER: Calls for speculation.

19 MR. McNICHOLS: Your Honor, I'm -- I'm
20 just trying to figure out what their
21 contemporaneous understanding was and why they
22 put this language in here. I think it's a
23 reasonable inference that can be drawn from the
24 sentence.

25 MS. KREINHEDER: Additionally, it's

1 outside of the Touhy authorization. There's no
2 language about the -- an opinion on this subject
3 in the letter.

4 JUDGE JULIUS: Well, overruled. My --
5 my understanding of the question is we're trying
6 to get clarity on what is meant by the sentence.

7 MR. McNICHOLS: Yeah.

8 JUDGE JULIUS: And what's the intent of
9 this statement in the report, which is number 2
10 of the Touhy letter. So I'll allow the question.

11 MR. McNICHOLS: Thank you.

12 BY MR. McNICHOLS:

13 Q Ma'am, in -- in writing that there was a
14 higher proportion of hospital discharges for
15 psychosis in states that had relaxed their
16 cannabis laws, were you inferring that relaxation
17 of cannabis restrictions would lead to an
18 increase in the number of psychotic episodes?

19 A I will not speculate on regulation, but
20 as a scientist, more access to cannabis would
21 lead to increase -- can lead to increase in
22 psychosis.

23 Q Right. And that would occur if the
24 relaxation occurred at the federal level as well,
25 would it not, ma'am?

1 A That speak -- that's speaking
2 regulation. I'm a scientist.

3 Q Yes. But as a scientist, you've
4 observed the increase in psychosis due to
5 relaxation of restrictions at the state level,
6 correct? That was the point of this sentence,
7 right?

8 A Because it gave more access to cannabis.

9 Q Right. And if there's increased access
10 to cannabis as a result of relaxed restrictions
11 at the federal level, you as a scientist would
12 say, "We could expect to see more instances of
13 psychosis." Correct, ma'am?

14 MS. KREINHEDER: Objection, Your Honor.
15 Again, it's calling for speculation. She -- this
16 is a conclusion of the study that she cited in
17 her paper?

18 JUDGE JULIUS: Mr. McNichols?

19 MR. McNICHOLS: No, I -- I think this is
20 the inference that a scientist can draw from the
21 information she's already provided, and that's
22 really the crux of the question here. It's
23 omitted from the HHS analysis, and I think we're
24 entitled to an answer as part of the
25 decision-making process here.

1 MS. KREINHEDER: If she didn't make the
2 inference in her written document, if -- he wants
3 her to make an inference now.

4 JUDGE JULIUS: I think we are going a
5 little bit beyond. I will sustain that one. If
6 the -- if you want the Court to make an
7 inference, you can make that argument.

8 BY MR. McNICHOLS:

9 Q I just have a very short number of
10 questions left for you, ma'am, and I appreciate
11 your patience this morning.

12 You -- in the course of preparing your
13 -- well, in the course of writing about the
14 higher proportion of hospital discharges for
15 psychosis in states that had relaxed
16 restrictions, did you observe that that was an
17 observation or finding that had been omitted from
18 HHS's analysis?

19 A I didn't go back to HHS's analysis, but
20 I -- I thought it was important to be included in
21 our analysis.

22 Q It was an important fact, correct?

23 A Correct, yes.

24 Q Right. And, in other words, if HHS
25 omitted it, they omitted something important,

1 correct?

2 A If they'd covered it, I don't -- I don't
3 recollect -- recollect. However, it's important
4 information that should be included in our
5 analysis and state its inclusion.

6 MR. McNICHOLS: I think that concludes
7 my examination, Your Honor.

8 JUDGE JULIUS: Thank you, Mr. McNichols.
9 Before we take our break, the Court has
10 just one question to -- for clarity of the
11 record, and then we'll take our break, and then
12 you can have cross-examination.

13 I just want to clarify, so you're --
14 you're familiar with the Controlled Substances
15 Act --

16 THE WITNESS: Yes.

17 JUDGE JULIUS: -- definition of
18 "marijuana" at 21 U.S.C. Section 802(16)(A)?

19 THE WITNESS: Yes, sir.

20 JUDGE JULIUS: Is -- in making your
21 evaluation and your analysis here, is that the
22 definition of "marijuana" that you used, or was
23 there any variation in what you were looking at
24 in analyzing marijuana for your purposes?

25 THE WITNESS: I just analyzed marijuana

1 as an agricultural product, as a plant, looking
2 at the -- treating -- treating it as if it were a
3 drug.

4 JUDGE JULIUS: Okay. So maybe -- is
5 there any difference between what you looked at
6 and the CSA definition of "marijuana"?

7 THE WITNESS: I believe so.

8 JUDGE JULIUS: And what is that
9 difference?

10 THE WITNESS: I'm trying to find the CSA
11 definition of "marijuana".

12 JUDGE JULIUS: Sure. Yeah. 21 U.S.C.
13 Section 802(16)(A), "Subject to paragraph B, the
14 terms 'marijuana' and 'marihuana,' spelled
15 variously with an H or a J, "mean all parts of
16 the plant cannabis sativa L., whether growing or
17 not, the seeds thereof, the resin extracted from
18 any part of such plant, and every compound,
19 manufacture, salt, derivative, mixture, or
20 preparation of such plant, its seeds, or resin."

21 Subsection B excludes from that
22 definition hemp and mature stalks of such plant,
23 fiber produced from such stalks, oil or cake made
24 from the seeds of such plant, any other compound,
25 manufacture, salt, derivative, mixture, or

1 preparation of such mature stalks, except the
2 resin extracted therefrom, fiber, oil, or cake,
3 or the sterilized seeds of such plant, which is
4 incapable of germination.

5 So that latter subsection is quite
6 wordy, but those are -- just those two things,
7 those last parts, are excluded from that
8 definition. So really what we're looking at is,
9 if I understand it, the Cannabis sativa L.
10 plant.

11 THE WITNESS: Correct, yes.

12 JUDGE JULIUS: And so was that what you
13 were analyzing in your report?

14 THE WITNESS: To an extent, because the
15 -- you know, with the data we have on science,
16 it's based on THC/CBD, which are components found
17 in Cannabis sativa L.

18 JUDGE JULIUS: Okay. Thank you, ma'am.

19 THE WITNESS: Yes, ma'am.

20 JUDGE JULIUS: I appreciate it.

21 All right. We'll take a 15-minute
22 recess. Ma'am, during the recess you're free to
23 walk around, get some water, use the restroom if
24 you need to. Just don't discuss your testimony
25 with anyone during the break.

1 THE WITNESS: Okay.

2 JUDGE JULIUS: Thank you. We'll be in
3 recess until 10:32. I'll see you all back here
4 in 15 minutes.

5 (Whereupon, the above-entitled matter
6 went off the record at 10:17 a.m. and resumed at
7 10:33 a.m.)

8 JUDGE JULIUS: Before we start cross, I
9 just want to go ahead and say that we're going to
10 designate the Touhy letter that was handed to the
11 Court before testimony as ALJ Exhibit 61, just so
12 that we have that on record.

13 (Whereupon, the document referred to was
14 marked as ALJ's Exhibit No. 61, for
15 identification and received into evidence.)

16 MR. McNICHOLS: Thank you.

17 JUDGE JULIUS: Thank you, everyone. And
18 government cross-examination whenever you're
19 ready.

20 MS. KREINHEDER: Your Honor, the
21 government has no cross-examination.

22 JUDGE JULIUS: Okay. Thank you very
23 much. With no cross, then there's no real
24 redirect unless you have any follow-up questions
25 from the questions the court asked.

1 MR. McNICHOLS: No, Your Honor.

2 JUDGE JULIUS: Okay. Thank you very
3 much, ma'am. You are excused. I don't think
4 there's any chance that she's going to be
5 recalled.

6 MR. McNICHOLS: Correct.

7 JUDGE JULIUS: Okay. So you're excused,
8 and you can discuss your testimony with anyone
9 since you will not be recalled. Thank you very
10 much for appearing today.

11 THE WITNESS: Thank you.

12 JUDGE JULIUS: Okay. So I think that
13 concludes SAM's case in chief.

14 MR. McNICHOLS: It does, Your Honor.

15 JUDGE JULIUS: Okay. I think we're
16 scheduled next to move on to DUID Victim Voices.
17 Is that correct, Mister?

18 MR. MIGHELL: Yes, Your Honor, it is,
19 and we're prepared to move -- we're prepared to
20 go now.

21 JUDGE JULIUS: Excellent. And your name
22 again, sir?

23 MR. MIGHELL: My name is Connor Mighell,
24 M-I-G-H-E-L-L, Mighell.

25 JUDGE JULIUS: Nice to meet you. I

1 think this is maybe the first day you've been at
2 counsel table.

3 MR. MIGHELL: It is, Your Honor.

4 JUDGE JULIUS: Okay. Nice for you to
5 join us.

6 MR. MIGHELL: Thank you.

7 JUDGE JULIUS: Please feel free to call
8 your first witness whenever you're ready, sir.
9 We may need a few minutes to organize exhibits up
10 here at the bench, so take your time, Counsel.
11 You can go off the record.

12 (Whereupon, the above-entitled matter
13 went off the record at 10:34 a.m. and resumed at
14 10:36 a.m.)

15 JUDGE JULIUS: All right, let's go back
16 on the record. Opening statement whenever you're
17 ready, sir.

18 MR. MIGHELL: Thank you, Your Honor. My
19 name is Connor Mighell. I represent DUID Victim
20 Voices. May it please the Court. This case is
21 about safety. It is about the government's
22 obligation when it proposes a rule change of
23 consequence to public safety to actually consider
24 the safety implications of that change. The
25 government requires seat belts in motor vehicles.

1 It requires airbags. It imposes speed limits,
2 mandates licensing, and regulates road design,
3 all because operating a motor vehicle is an
4 inherently dangerous activity and the government
5 has determined that protecting human life
6 justifies those regulations. Yet when the
7 government proposes to reschedule marijuana, an
8 action that will foreseeably increase the number
9 of impaired drivers on the road, safety is no
10 longer a prime consideration. In fact, as the
11 government's own witnesses have admitted in this
12 very proceeding, they did not consider the impact
13 of rescheduling on drunk driving fatalities at
14 all. That omission is of consequence to the
15 determination of this action.

16 (Technical interference.)

17 JUDGE JULIUS: One minute. I'm not sure
18 where that sound is coming from.

19 MR. MIGHELL: Yes, Your Honor. I don't
20 know if it's on or not.

21 JUDGE JULIUS: Okay. It seems to have
22 fixed itself. I'm so sorry. Please continue,
23 sir.

24 MR. MIGHELL: Am I still on the record?
25 Can everyone hear me?

1 JUDGE JULIUS: Yes.

2 MR. MIGHELL: Okay. As I said, that
3 omission is of consequence to the determination
4 of this action. Under the Administrative
5 Procedure Act, agency action is arbitrary and
6 capricious -- is it me, Your Honor?

7 JUDGE JULIUS: I don't know.

8 MR. MIGHELL: I don't know what's wrong.

9 COURT REPORTER: I can't tell where it's
10 coming from, to be honest.

11 JUDGE JULIUS: Okay, maybe try adjusting
12 the mic just a little bit away from your mouth.

13 MR. MIGHELL: Away.

14 JUDGE JULIUS: I don't know if there's an
15 electronic device over there that may be
16 interfering.

17 MR. MIGHELL: Nothing that would be on,
18 Your Honor.

19 JUDGE JULIUS: Okay.

20 MR. MIGHELL: Yeah.

21 JUDGE JULIUS: I'm so sorry. Please
22 continue, sir.

23 MR. MIGHELL: Can you still hear me?

24 JUDGE JULIUS: Yes.

25 MR. MIGHELL: Thank you. Agency action

1 is arbitrary and capricious when the agency
2 entirely fails to consider --

3 JUDGE JULIUS: Let's take a break and
4 try to figure out what's happening with the
5 audio.

6 MR. MIGHELL: Thank you, Your Honor.

7 JUDGE JULIUS: Thank you. But we'll go
8 off the record and reconvene when we can isolate
9 that, because that's distracting, I'm sure, not
10 only to the Court, but to both litigants.

11 THE BAILIFF: All rise.

12 JUDGE JULIUS: Oh, yeah. We'll be in
13 recess till we figure that out. Thank you,
14 everyone.

15 (Whereupon, the above-entitled matter
16 went off the record at 10:38 a.m. and resumed at
17 10:40 a.m.)

18 MR. MIGHELL: Testing. Testing --
19 testing -- testing. Hello, my name is Connor
20 Mighell. May it please the court.

21 COURT REPORTER: Four score.

22 MR. MIGHELL: And seven years ago.

23 COURT REPORTER: Seems about right.

24 MR. MIGHELL: Yeah.

25 COURT REPORTER: I guess it was that mic

1 for some reason.

2 UNKNOWN MALE: I wasn't even sitting in
3 front of it.

4 MR. MIGHELL: Yeah. That's weird.

5 COURT REPORTER: It didn't affect
6 anything you said so far.

7 MR. MIGHELL: That's excellent. All
8 right.

9 THE BAILIFF: All rise.

10 JUDGE JULIUS: All right. Thank you,
11 everyone. Please be seated. Thank you for your
12 patience with that, Counsel. I'm sorry that we
13 had the audio tech issue. I've not ever heard
14 that sound before today.

15 MR. MIGHELL: Me neither, Your Honor,
16 and I appreciate it.

17 JUDGE JULIUS: All right.

18 MR. MIGHELL: Thank you.

19 JUDGE JULIUS: Please resume or pick up
20 wherever you would like with your opening
21 statement.

22 MR. MIGHELL: Thank you very much.
23 Under the Administrative Procedure Act, agency
24 action is arbitrary and capricious when the
25 agency entirely fails to consider an important

1 aspect of the problem. The evidence that DUID
2 Victim Voices will present through its witness,
3 Ed Wood, the organization's founder and
4 president, will demonstrate that the government's
5 proposed rescheduling fails this standard for the
6 following reasons. First, the government
7 entirely failed to consider drugged driving
8 safety implications of rescheduling. Neither the
9 Attorney General's Order No. 6754-2026, nor the
10 prior 2024 HHS assessment, directly address the
11 risk that increased marijuana access poses to the
12 driving public. The government's own witnesses
13 confirmed this omission under cross-examination
14 during the first days of this hearing.

15 Second, the evidence will show that past
16 government actions relaxing restrictions on
17 marijuana, including the 2009 Ogden memo and the
18 2014 opening of state licensed dispensaries,
19 measurably increased marijuana use, and that
20 increased use is strongly correlated with
21 increased traffic fatalities. Three independent
22 peer-reviewed studies project over 6,000
23 additional traffic deaths per year if marijuana
24 is commercialized nationwide. That is the
25 equivalent of two World Trade Center disasters

1 annually, all preventable.

2 Third, no scientifically valid per se
3 safety net exists for marijuana like the one that
4 exists for alcohol. THC, which is marijuana's
5 impairing chemical, is fat soluble rather than
6 water soluble. It redistributes rapidly from the
7 blood to the brain, meaning blood THC levels do
8 not always correlate directly with impairment.
9 The AAA Foundation for Traffic Safety, the
10 National Safety Council, NHTSA, the National
11 District Attorneys Association, the National
12 Sheriffs' Association, and the International
13 Association of Chiefs of Police have all
14 published policy statements confirming there is
15 no scientific basis for THC per se limits.
16 Without an objective safety net, law enforcement
17 cannot effectively enforce drugged driving laws.

18 Fourth, rescheduling would force states
19 to revise their drugged driving statutes, and
20 experience demonstrates that states lack the
21 competence to do so wisely. States that have
22 attempted to adopt THC per se limits have adopted
23 scientifically invalid standards that risk both
24 convicting the innocent and exonerating the
25 guilty. Colorado's data, the only state that

1 measures outcomes by substance, proves that these
2 invalid limits do not work. Mr. Wood will
3 testify as to each of these points in detail,
4 grounding his opinions in peer-reviewed studies,
5 official state data, and decades of personal
6 research. He will explain the specific facts he
7 relied upon, why those facts are important and
8 reliable, and what inferences should be drawn
9 from the government's failure to consider them.

10 At the conclusion of his testimony, we will
11 respectfully submit that the government has
12 failed to carry its burden of justifying the
13 proposed rule.

14 Mr. Wood's testimony is also deeply
15 personal. He founded DUID Victim Voices after
16 his own son was killed by a drugged driver. He
17 represents not an abstract policy position, but
18 the human cost of the government's failure to
19 consider safety. The tribunal will hear from him
20 about the practical consequences of that failure,
21 the real world facts that are of consequence to
22 the determination of this action because they
23 demonstrate the government's rescheduling
24 decision is arbitrary and capricious. Your
25 Honor, at this time, DUID Victim Voices would

1 call its first witness, Edward "Ed" Wood.

2 JUDGE JULIUS: Thank you, Counsel. Good
3 morning, sir.

4 MR. WOOD: Good morning.

5 EDWARD C. WOOD, JR., having been first duly
6 sworn, testified as follows:

7 JUDGE JULIUS: I'm going to have you
8 step up -- before you're seated, if you could
9 please raise your right hand in order to be
10 sworn. Do you swear or affirm that everything
11 you say in these proceedings will be the truth,
12 the whole truth, and nothing but the truth?

13 THE WITNESS: I do.

14 JUDGE JULIUS: Thank you very much. You
15 may have a seat.

16 THE WITNESS: Thank you.

17 JUDGE JULIUS: I'll just give you a few
18 brief instructions about the process of
19 testifying to help keep the record clear.

20 THE WITNESS: Okay.

21 JUDGE JULIUS: Please wait until the
22 entire question is asked before you begin your
23 answer. Please pause for a moment after the full
24 question is asked to see if it draws an
25 objection. If you hear the word objection,

1 pause. I'll address the objection, and then I'll
2 instruct you whether you should answer or not.

3 THE WITNESS: Okay.

4 JUDGE JULIUS: If at that point you need
5 the question repeated, you can ask for
6 repetition. If at any time you don't understand
7 a question you've been asked, please state that
8 you don't understand that question before you try
9 to answer it, and we'll make sure it's rephrased
10 in a way that you do understand. If you answer a
11 question, we'll assume that you understood the
12 question. Okay?

13 THE WITNESS: Sounds fair.

14 JUDGE JULIUS: All right.

15 THE WITNESS: Thank you.

16 JUDGE JULIUS: Thank you very much.

17 Please proceed with direct examination, Counsel.

18 DIRECT EXAMINATION

19 MR. MIGHELL: Thank you, Your Honor.

20 Mr. Wood, would you please state your full name,
21 your title, and your contact information for the
22 record?

23 THE WITNESS: Edward C. Wood, Jr. I live
24 in [REDACTED] in the summertime. I live in [REDACTED]
25 in the wintertime. I believe the Court has my

1 address. My phone number is [REDACTED].

2 BY MR. MIGHELL:

3 Q Thank you. Mr. Wood, prior to this
4 hearing, DUID Victim Voices filed a pre-hearing
5 statement identifying and submitting prospective
6 exhibits in accordance with 21 CFR 1316.59. Is
7 that correct?

8 A That's correct.

9 Q And are you familiar with each of these
10 exhibits?

11 A I am indeed.

12 Q Did you review each of them?

13 A I did.

14 Q And are they true and accurate copies of
15 the documents that they purport to be?

16 A They are.

17 Q Are they exhibits of the type reasonably
18 relied upon by experts in the fields of drugged
19 driving research, traffic safety, and law
20 enforcement?

21 A Yes, they are.

22 MR. MIGHELL: Your Honor, consistent
23 with 21 CFR § 1316.59, all exhibits identified in
24 our pre-hearing statement were timely submitted
25 as prospective exhibits in advance of this

1 hearing, and the witness has confirmed their
2 authenticity and the accuracy and his reliance
3 upon them, so we move for the admission of
4 Exhibits 1 through 86 into evidence.

5 (Whereupon, the document referred to was
6 marked as DUID Victim Voices' Exhibit Nos. 1
7 through 86, for identification.)

8 JUDGE JULIUS: Any objection from
9 government counsel?

10 MR. LONICH: No objection, Your Honor.

11 JUDGE JULIUS: Okay. DUID Victim Voices
12 1 through 86 will be admitted without objection.
13 Thank you.

14 (Whereupon, the above-referred to
15 document marked as DUID Victim Voices' Exhibit
16 Nos. 1 through 86 were received into evidence.)

17 MR. MIGHELL: Your Honor, I have an
18 electronic copy of Exhibit 86, which is a
19 demonstrative that will be used during our
20 presentation. May I approach to deliver that
21 electronic copy to the clerk?

22 JUDGE JULIUS: Yes.

23 MR. MIGHELL: Thank you.

24 JUDGE JULIUS: Let's see if it
25 downloads. It's a bunch of documents.

1 MR. MIGHELL: I believe the Court should
2 have it because there is a bunch of them.

3 JUDGE JULIUS: Yeah. If you don't have
4 it, please ask. While we're waiting, Counsel, I
5 just want to confirm something. Is this going to
6 be your only witness for DUID Victim Voices?

7 MR. MIGHELL: Yes, Your Honor. This is
8 the only witness.

9 JUDGE JULIUS: Okay. I just wanted to
10 confirm my understanding.

11 MR. MIGHELL: Thank you.

12 JUDGE JULIUS: Thank you very much. So
13 you have four hours with him if you --

14 MR. MIGHELL: I doubt --

15 JUDGE JULIUS: If you would like.

16 MR. MIGHELL: It will take that long,
17 but I thank you very much.

18 JUDGE JULIUS: Sure.

19 MR. PHILLIPS: I think that's what this
20 is. Is it? Thank you.

21 JUDGE JULIUS: I'm informed by court
22 staff that we had Exhibits 1 through 84. Is that
23 what was submitted on JEFS or? Okay. So JEFS
24 only has 1 through 84.

25 MR. PHILLIPS: And the binder's as

1 well.

2 JUDGE JULIUS: And the binder is also --

3 MR. MIGHELL: The binder should contain
4 Exhibit 86. It was submitted to the government
5 and all counsel. It should also contain Exhibit
6 85 and 84, which were previously submitted, I
7 think, during cross-examination.

8 JUDGE JULIUS: Bear with us, Counsel.
9 Yeah, they came up during cross and that's how
10 they were admitted.

11 MR. PHILLIPS: However, we don't have
12 electronic copies of it. They were never
13 uploaded.

14 JUDGE JULIUS: May we remedy that now?
15 Thank you.

16 MR. MIGHELL: May I have a moment just
17 to --

18 JUDGE JULIUS: Sure.

19 MR. MIGHELL: Remedy that issue? Thank
20 you.

21 JUDGE JULIUS: Do you have a sense of
22 how long? We can just take a quick break.

23 MR. MIGHELL: I would say no longer than
24 three to four minutes.

25 JUDGE JULIUS: Oh, okay. We can just go

1 off the record while you accomplish that.

2 MR. MIGHELL: Thank you.

3 JUDGE JULIUS: I can stay up here.

4 MR. MIGHELL: Thank you. We'll just
5 submit it to the docket?

6 MR. PHILLIPS: To the JEFS link, yes.

7 MR. MIGHELL: To the JEFS link.

8 (Whereupon, the above-entitled matter
9 went off the record at 10:50 a.m. and resumed at
10 11:04 a.m.)

11 JUDGE JULIUS: All right. I think we
12 got all of our tech issues resolved:
13 microphones, PowerPoints. Excellent.

14 MR. MIGHELL: Yes, Your Honor. Thank
15 you so much for your patience.

16 JUDGE JULIUS: Sure.

17 MR. MIGHELL: I'd like to clarify that
18 Exhibit 86 should be numbered Exhibit 87, and I
19 would also like to move for its inclusion into
20 the record.

21 (Whereupon, the document referred to was
22 marked as DUID Victim Voices' Exhibit No. 87, for
23 identification.)

24 JUDGE JULIUS: Just so the Court is
25 clear, you're talking about this?

1 MR. MIGHELL: The demonstrative.

2 JUDGE JULIUS: The document that I can
3 see, DUID Victim Voices, the cover page, this
4 document. Any objection from the government?

5 MR. LONICH: No objection, Your Honor.

6 JUDGE JULIUS: DUID Victim Voices
7 Exhibit 87 will be admitted without objection.

8 (Whereupon, the above-referred to
9 document marked as DUID Victim Voices's Exhibit
10 No. 87 was received into evidence.)

11 MR. MIGHELL: Thank you, Your Honor.
12 Mr. Wood, Exhibit 83 is a true and correct copy
13 of your curriculum vitae, correct?

14 THE WITNESS: My resume, that's correct.

15 BY MR. MIGHELL:

16 Q Mm-hmm. What does it say that your
17 current position at DUID Victim Voices is?

18 A I'm the founder and the President of
19 DUID Victim Voices.

20 Q Mm-hmm. Where were you educated, Mr.
21 Wood?

22 A I have a degree in chemistry from Harvey
23 Mudd College in Claremont, California, and a
24 degree in Masters of Business Administration from
25 the University of Colorado in Boulder.

1 Q What boards have you served on, Mr.
2 Wood?

3 A Well, I've served on a number of
4 corporate boards and some homeowners association
5 boards, which we won't count. The corporate
6 boards include -- well, let's see if I can
7 remember them now. Northfield Laboratories,
8 which is a company that was developing a blood
9 substitute. MonoGen was a company developing an
10 automated Pap smear device. Cytologic
11 (Phonetic.), a company developing a cancer
12 therapy.

13 Q I believe that's sufficient, Mr. Wood.

14 A Okay.

15 Q What are some of the peer-reviewed
16 publications that you have authored or
17 participated in authoring?

18 A Sure. I'm the author of the study that
19 we did on testing the delay time between a crash
20 causing death or serious bodily injury and the
21 time of drawing a blood sample for toxicological
22 testing. That was published in Transportation
23 Injury Prevention. I authored a study on the
24 causes and consequences, judicial consequences,
25 DUI in the State of Colorado. I have one paper

1 on the prevalence of drugged driving in Colorado.
2 I've had a couple of chapters written that I
3 wrote in books all on DUID as well.

4 Q Mm-hmm. And did the State of Colorado
5 approach you to assist them with writing
6 legislation on drugged driving?

7 A Yes, indeed. I drafted the legislation
8 and carried that through the legislature. This
9 was a bill to require the state to collect and
10 publish the information on the causes and
11 judicial consequences of DUI in the state, and
12 Colorado is, to date, the only state that is
13 doing that nationwide.

14 Q And why did the state approach you for
15 that task?

16 A I had asked to have this done, and then
17 I was approached by the folks at the Department
18 of Public Safety that said, we know how to do
19 that. Would you please draft the legislation,
20 and we'll help support that?

21 Q Excellent. How long have you researched
22 drugged driving and the pharmacokinetics of
23 marijuana?

24 A I've been doing this since 2010.

25 Q And that's 16 years, correct?

1 A 16 years, yes.

2 MR. MIGHELL: Your Honor, at this time,
3 we would like to tender Mr. Wood as an expert on
4 drugged driving for this proceeding.

5 MR. LONICH: Pursuant to the tribunals'
6 order, no objection at this time, but the
7 government would reserve the right to challenge
8 that in argument.

9 JUDGE JULIUS: Understood. Thank you,
10 Counsel. We will provisionally accept him as the
11 expert proffered. Thank you.

12 MR. MIGHELL: Thank you. Mr. Wood, what
13 does the organization DUID Victim Voices do?

14 THE WITNESS: We educate people on the
15 effects of drugged driving and try to educate
16 folks on how to prevent drugged driving, how to
17 prosecute cases, and so forth.

18 BY MR. MIGHELL:

19 Q And why did you start DUID Victim
20 Voices? What happened?

21 A I did this after my son was killed by
22 two drug-impaired drivers. That's two drivers at
23 the wheel of one vehicle. This happened in the
24 year 2010. Would you like me to explain that?

25 Q Yes, if you're comfortable.

1 A I'll do the best I can. This is
2 sometimes hard to do. But in 2010, my son and
3 his wife, Erin, were driving from their home in
4 North Vancouver, British Columbia in Canada to
5 Whidbey Island in the state of Washington. They
6 were going to be spending some time with some
7 friends of theirs at a vacation home owned by
8 Erin's parents.

9 As they were driving south on Highway
10 20, US Highway 20 in Whidbey Island, Brian
11 noticed an oncoming vehicle in his lane. He
12 braked and swerved in a futile attempt to try to
13 avoid the crash. He was limited in his ability
14 to do so because of the embankment that was very
15 steep on the right-hand side. Nevertheless, he
16 swerved and braked in futile attempt to try to
17 prevent the collision, and in so doing, he put
18 himself between the oncoming vehicle and his
19 wife. It was a Chevy Blazer that was coming at
20 him, and the Blazer was upside down and airborne
21 when it went through his windshield, killing him
22 instantly. The airbag did not deploy since the
23 Blazer went through the windshield, did not hit
24 the frame of the vehicle.

25 This was caused by two women, as I said,

1 at the vehicle, the Blazer. Jordyn Weichert, 19
2 years old, was the driver, and she said that she
3 felt uncomfortable and wanted to change her
4 sweater. She asked the front seat passenger, who
5 was Samantha Bowling, to please steer while she
6 continued driving the car. So both of them were
7 operating different parts of the car at the same
8 time. A witness who had been leading Brian in
9 the highway before the crash occurred said that
10 the Blazer was so badly out of control that it
11 was going perpendicular to the highway, which
12 would explain why the car was upside down and
13 airborne when it went through his windshield. As
14 the roof of the Blazer slid off of the roof of my
15 son's Subaru Outback, it bounced down the highway
16 several times, ending up on its roof. In so
17 doing, it disgorged both Bowling and Weichert, as
18 well as Francis Malloy, who was in the backseat.

19 After ejecting Mr. Malloy, the Blazer
20 bounced on Mr. Malloy, crushing all of his ribs.
21 He suffocated before he bled out. Jacob
22 Quistorff, who was also in the backseat, was
23 strapped in, so only his head was ejected, which
24 was scraped against the asphalt, and he died
25 screaming. So, there were three people that were

1 killed in crash.

2 Q And who responded to the scene of this
3 crash?

4 A Well, there were quite a few people who
5 were responding. The local sheriff responded,
6 and he informed the court during -- or not the --
7 not the court, he informed the prosecutor of the
8 case, who also was at the scene -- that the
9 people in the Blazer were the second largest drug
10 distributor kingpin in the northern part of
11 Whidbey Island.

12 Also, Jason Nichols responded. Jason
13 was a certified drug recognition expert, but he
14 was unable to complete the 12 points of the drug
15 evaluation classification.

16 Q Why was that?

17 A Well, the other people that responded
18 were some of the medical personnel. They had
19 strapped both Weichert and Bowling onto
20 backboards for transport to the hospital, and you
21 cannot perform all of the procedures of the DEC
22 program when somebody is strapped to a backboard.
23 You can't do the walk and turn. You can't do the
24 modified Romberg balance and so forth. So he
25 only was able to complete part of 5 of the 12

1 steps. He received positive clues of drug
2 impairment on all 5 but could not do all 12.

3 Q Did Mrs. Weichert and Mrs. Bowling, did
4 they receive blood testing?

5 A They did. They were transported to the
6 hospital, and they had blood drawn there, and
7 their blood was tested. And it turns out that
8 Weichert had been found to have been using
9 marijuana, methamphetamine, and heroin. Bowling
10 had been using marijuana and methamphetamine.

11 Q Were they charged due to this accident?

12 A They were both charged with vehicular
13 homicide caused by driving under the influence.
14 They were convicted, however, of a lower crime.
15 Bowling confessed to vehicular homicide caused by
16 driving with disregard for the safety of others
17 and accepted a sentence of five years. Weichert
18 went to a jury trial, and she was convicted of
19 the same crime and was sentenced to eight years.

20 Q Did the jury at trial consider the DUI
21 charge?

22 A The judge did not permit the DUI charge
23 to be heard. He said that the both Weichert and
24 Bowling did not exhibit signs of staggering and
25 slurring words, which were, of course, the

1 typical symptoms of somebody who was drunk, but
2 not somebody who was necessarily impaired by
3 marijuana, methamphetamine, or heroin.

4 He also cited the fact that Jason
5 Nichols, the DRE, was unable to opine that the
6 two drivers were impaired by drugs. He neglected
7 to say; however, or he did say that since the DRE
8 was unable to opine on this, how could a jury?
9 So, therefore he pulled that off of the case, and
10 the jury was not able to consider that. The
11 judge never did say, however, that the reason
12 that Mr. Nichols could not opine was a Washington
13 State Supreme Court ruling called the ~~Beatty~~Baity
14 ruling, that required a DRE, before he could
15 opine on the person being impaired by drugs, had
16 to perform all 12 steps of the DRE protocol and
17 in order, and that could not be done.

18 Q Which Ms. Weichert and Bowling could not
19 do because they were strapped to backboards,
20 correct?

21 A Exactly right.

22 Q What did the judge say on this matter
23 during the sentencing hearing?

24 A Well, it seemed he made his ruling maybe
25 partway through the trial. As he heard more and

1 more of the evidence during the trial, he seemed
2 to change his mind a bit because he said, I do
3 say that the fact that these defendants ingested
4 drugs increased the chance that they would make
5 these reckless decisions, he called them, that
6 caused these deaths and injuries.

7 Q And what happened to your son's family
8 and to Bowling and Weichert after the trial and
9 sentencing?

10 A Well, Brian had developed a reputation
11 as being a magnificent video game designer,
12 something I know nothing about, but he became an
13 expert in that area. And when his death was
14 announced to the industry basically on 14 video
15 game websites around the world that we are aware
16 of, there was a -- we held his memorial service
17 in North Vancouver, Canada. Even though he and
18 Erin had only lived there for five years, he had
19 300 people at his memorial service. His friends
20 had started a fund to support his unborn child.
21 Erin was eight months pregnant at the time of the
22 crash. And 5,000 people donated to the fund.
23 Brian and Erin were traditionalists and chose to
24 not know the sex of the child until the date of
25 birth.

1 (Witness crying.)

2 Q It's all right, Mr. Wood. Take your
3 time.

4 A So, Brian never knew he was a father of
5 the baby girl he wanted.

6 Q Thank you, Mr. Wood. And when after
7 that did you found DUID Victim Voices?

8 A Well, it was within months of that. I
9 could not believe how this could possibly have
10 occurred. I said, what went wrong? How can this
11 possibly happen? So I spent the next 16 years
12 becoming a serious student of drug-impaired
13 driving. I learned from prosecutors, defense
14 attorneys, other victims, judges, toxicologists,
15 clinicians, ~~DRIVE~~s, other law enforcement
16 officials. My mentor in all this case, in my
17 learning process, included Dr. Robert DuPont, who
18 was the founding Director of the National
19 Institutes of Drug Abuse and the nation's second
20 Drug Czar. He has guided me through many years
21 of this process.

22 Q What does the term DUID refer to?

23 A Driving under the influence of drugs.
24 It's a common but not exceptionally common term.
25 In law, few states refer to it as DUID, they

1 refer to it as DUI. But I focused -- although,
2 in my studies, of course, I have learned a great
3 deal about alcohol DUI as well, but my focus has
4 been DUID, drugs.

5 Q So DUID refers to drugged driving, not
6 drunk driving?

7 A Drugged driving, correct.

8 Q Given all that, Mr. Wood, and thank you
9 for going through the reason that you founded
10 this organization, what is your position on the
11 government's proposal to reschedule marijuana
12 from Schedule I to Schedule III?

13 A Rescheduling is something that would
14 dramatically increase the consumption of
15 marijuana, which would therefore gradually
16 dramatically increase also the number of people
17 that would choose to drive after having been
18 impaired by marijuana.

19 Q Can we have the next slide, please?

20 A And frankly, the government is not
21 prepared to deal with this. We do not have laws
22 in place that work effectively to enforce drugged
23 driving laws as we do have for drunk driving.
24 Marijuana should not be down classified to
25 Schedule III because of this increased danger,

1 and this increased danger was not considered by
2 the DEA or anyone else involved with the proposed
3 rescheduling of this.

4 The government does need to understand
5 that this will increase the number of DUID cases,
6 and we have evidence from work that has been done
7 by a number of researchers that we can expect
8 that there can be over 6,000 additional deaths
9 per year that are unnecessary. The reason for
10 this is that although we have the DUI per se
11 safety net to deal with drunk driving, we have no
12 equivalent safety net for drugged driving. It
13 just does not exist.

14 Until there is a reliable, objective,
15 validated technology that enables us to define
16 that somebody is impaired by drugs, it is my
17 belief that it is illogical, it is immoral, and
18 it is irresponsible to promote, enable, or assist
19 the continued commercialization of marijuana.

20 Q Now, you mentioned that the government
21 failed to consider the drugged driving impact.

22 A Absolutely correct.

23 Q What is your basis for that statement?

24 A Well, I looked at the -- if I can look
25 at the next slide.

1 Q Yes. Next slide, please.

2 A Please. If we look at the attorney
3 general's order, there were some comments in
4 there about marijuana's contribution to certain
5 risks to the user. There's not one word about
6 drugged driving. If we look at the 2024 attempt
7 the government made in rescheduling, there was
8 some attempt to address this but very, very weak
9 attempt.

10 There were two studies that were cited
11 by ~~HSS~~HHS. These were self-report usage surveys
12 about the use of marijuana, and they looked at
13 the National Survey of Drug Use and Health and
14 the Youth Risk Behavior Surveillance System.
15 They showed that the prevalence of marijuana
16 consumption has increased over the years.
17 Nothing about what impact that would have on
18 drugged driving, simply that there was a lot more
19 people using the drug.

20 The DEA did slightly better, they cited
21 two more papers. One from Dr. Wilson, Public
22 Health Report, and another one from the Rocky
23 Mountain High Intensity Drug Trafficking Area.
24 Both of these cited the fact that there was an
25 increased presence of THC, which is the delta-9

1 tetrahydrocannabinol, which is the impairing
2 substance in marijuana. There was an increased
3 presence of THC in the drivers involved in fatal
4 crashes since commercialization in the state of
5 Colorado. The problem with that is that since
6 you had such a tremendous increase in the
7 utilization of marijuana overall, you should
8 expect to have an increase in THC presence in the
9 drivers, even if THC had absolutely no effect on
10 impairment. So, they proved nothing.

11 I will note too I've read the transcript
12 of some of the earlier statements from one of the
13 government witnesses who admitted that HHS
14 focused only on scientific and medical outcomes,
15 not on public safety harms. So, both what I've
16 seen in the records and what the government
17 witness had said, said the government did not look
18 at this. The fact that DEA and ~~HSS~~HHS did include
19 these reports that were cited indicates that the
20 government knew at that time that these were
21 appropriate things for consideration in
22 rescheduling. But they did such a bad job of it
23 that in my writing to the DOJ in 2024, I said,
24 this does not even qualify to be called
25 sophomoric.

1 Q Hmm. Now, how many deaths per year do
2 you estimate rescheduling could lead to for
3 drugged driving? Next slide, please. And what's
4 the basis for that estimate?

5 A Well, let's look at the basis for it.
6 We don't have good data on this from government
7 sources, and I'll get into that a little bit
8 later on if you want to. But the best way of
9 understanding this is to look at the total
10 traffic fatality rate in states that have
11 commercialized the sale and use of marijuana and
12 compare those with states that have no
13 commercialized use of either recreational or
14 medical marijuana. It really doesn't make any
15 difference. If it's out there, it's out there.

16 There was a 2019 study by Jason
17 Aydelotte from Texas, and he found that, of
18 course, the numbers of traffic fatalities are
19 going to vary depending upon the number of people
20 in the state and so forth, so he normalized it as
21 fatalities per billion vehicle miles traveled.
22 He found that in the five years after the
23 marijuana was legalized in Colorado and
24 Washington, there were one point eight additional
25 deaths per BVMT.

1 Russell Kamer did a similar study, and
2 he said that there was a change in fatality rates
3 in the first four states to legalize recreational
4 marijuana of 2.1, just about the same number, 2.1
5 additional deaths per BVMT, billion vehicle miles
6 traveled.

7 Q Mm-hmm.

8 A Dr. Adhikari, a few years later, using a
9 little different model, said it was 2.22 in his
10 revisiting study published in 2023. So all these
11 come to about the same number, about two traffic
12 fatalities for every billion vehicle miles
13 traveled. Now, the Federal Highway
14 Administration has reported that the U.S. drives
15 about 3.3 trillion vehicle miles per year. So, 2
16 times 3.3 trillion gives you over 6,000 traffic
17 deaths per year if all states were to
18 commercialize recreational marijuana.

19 Q So why are those three studies important
20 and reliable? Would you say there are any
21 exceptions or limitations to the findings in
22 those studies?

23 A Well, there are some limitations. We
24 can't say that those 6,000 deaths were all due to
25 marijuana. There's no intent to say that.

1 They're just looking at total traffic fatalities,
2 and that is certainly a limitation. The fact
3 that three independent studies came up with the
4 same number is important. And also, I just want
5 to correct something that all of these studies
6 looked at times since the drug had been
7 commercialized, not just legalized, but then
8 commercialized. There have been some earlier
9 studies, short-term studies, looking at the first
10 few years after the drug was legalized but before
11 it was commercialized, and of course, you
12 wouldn't expect legalization in itself to cause
13 additional traffic fatalities. It has to be
14 actually sold and used before you get enough
15 people out there on the road -

16 (Simultaneous speaking.)

17 Q But in your opinion --

18 A That shouldn't be.

19 Q But in your opinion, legalization would
20 lead to greater commercialization, correct?

21 A Eventually it does, yes. It has in all
22 states that have legalized it.

23 Q You've testified that marijuana use has
24 increased as a result of past policy changes?
25 What evidence --

1 A I have.

2 Q Do you have for that statement?

3 A Yes.

4 Q Next slide, please.

5 A There was some work that was published
6 by Jonathan Caulkins shown here, and this is an
7 interesting study. It goes back to 1992. You
8 see a nadir in the use of daily and near-daily
9 use of marijuana. That increased by a factor of
10 20 over the next 30 years.

11 If you look at the curve going from 1992
12 to 2022, which is what this curve shows, there
13 were some inflection points there. One of the
14 inflection points was in 1996 when California
15 first adopted medical marijuana. The striking
16 one, however, occurred in 2009. You see a big
17 inflection curve there in the prevalence of daily
18 and near-daily use, and that inflection curve
19 occurred at the time after the Ogden memo came
20 out, which is when the federal government said
21 that they were no longer going to be emphasizing
22 the enforcement of drug laws dealing with
23 marijuana. Another inflection point occurred in
24 2014. That's when states began to commercialize
25 the sale of marijuana. Now neither of these

1 change the classification of the drug, the
2 schedule of the drug. They were just simply
3 government actions, or in the case of the Ogden
4 memo, inactions, that caused the inflection to
5 increase dramatically. Any reasonable person
6 looking at this would expect that if you now
7 change the schedule of a drug from Schedule I,
8 being the most dangerous category we have, to
9 Schedule III saying, let's bless this as a
10 medicine. It's going to be like Tylenol with
11 codeine. Any reasonable person would expect that
12 will increase more. It doesn't look like it can
13 increase any more when you look at this curve,
14 but realize that this is only 18 million people.
15 That's still only about six percent of the adult
16 population, so we have a long way to go.

17 Q Next slide, please. Now, which states
18 currently have zero-tolerance DUI laws for
19 impairing drugs, and how would they be affected
20 by rescheduling?

21 A Well, we have some good information on
22 that. There are 16 states that have zero-
23 tolerance laws of one sort or another, and 11 of
24 those deal with marijuana in one form or another.
25 When I say in one form or another, some of them

1 are for THC. Some of them simply state
2 marijuana, which is very unspecific. Some say
3 THC and/or its metabolites. And there are some
4 problems with these. As these states adopt
5 legalized marijuana, whether it be medical or
6 recreational -- and really that doesn't matter --
7 they generally tend to look at the laws and say,
8 how can we have a law that prohibits somebody to
9 use a legal substance in their blood?

10 Q Mm-hmm.

11 A That doesn't square. So they say, What
12 can we do to address this? They have not covered
13 themselves with glory. All of them have done a
14 pretty poor job of it.

15 One example is Illinois. When Illinois
16 legalized marijuana in the state, they said,
17 well, we have zero tolerance, including for THC,
18 but let's change that and we'll have a per se
19 limit like what we have for alcohol. And the
20 legislature said, let's make the per se limit 15
21 nanograms per milliliter. Governor Rauner at
22 that time said, I've been advised by people, Dr.
23 Huestis -

24 MR. LONICH: Objection, Your Honor.

25 JUDGE JULIUS: Basis?

1 MR. LONICH: I believe this is going a
2 little bit outside the scope of the proffered
3 expertise. These laws speak for themselves. If
4 Your Honor wants to take them under
5 consideration, he can also testify to what the
6 laws say, but I think we're bordering into his
7 analysis and editorialization of those laws.

8 JUDGE JULIUS: Counsel, any response to
9 the objection?

10 MR. MIGHELL: My response would be that
11 he's testifying to how these laws have performed,
12 and I believe that's directly within the scope of
13 his expertise.

14 JUDGE JULIUS: Do you have something
15 more, Counsel?

16 ~~DR. LIE~~MR LONICH: To that proffer, he
17 was not proffered as a -- and I don't believe his
18 CV illustrates any legal education or legal
19 training, and our basis of the objection is that
20 he's starting to now interpret and analyze these
21 zero-tolerance laws. If they want to comment that
22 they exist, I think that's fair, but any comment
23 or analysis beyond that, I believe, is
24 inappropriate.

25 JUDGE JULIUS: I tend to agree with

1 government counsel on this one. I'll give some
2 leeway with regard to his discussion of them, but
3 obviously he doesn't have a legal background and
4 that has been brought to the Court's attention,
5 so it may be venturing more into his personal
6 opinion as opposed to an expert opinion, at least
7 with regard to legal implications and legal
8 issues. But I will allow him some latitude in
9 discussing this.

10 MR. MIGHELL: Certainly.

11 JUDGE JULIUS: So sustained in large
12 part.

13 MR. LONICH: Thank you, Your Honor.

14 MR. MIGHELL: Mr. Wood, how much
15 research have you done into the laws associated
16 with drugged driving?

17 THE WITNESS: I have studied the DUI
18 laws of all 50 states and the District of
19 Columbia. And these laws, of course, were
20 written not just by lawyers. They're written by
21 legislators that are not even as smart as
22 lawyers.

23 BY MR. MIGHELL:

24 Q Well, some of them. I wouldn't say I'm
25 too terribly smart. Maybe some legislators are

1 smarter than me.

2 A My point about Illinois was that they
3 had passed the 15-nanogram limit. Dr. Huestis
4 and I, and others I'm sure, but at least the two
5 of us, brought this to the attention of Governor
6 Rauner as to how irresponsible this would be. He
7 vetoed the bill. Legislature went back and said,
8 Okay, we'll compromise and make it 5 nanograms,
9 and that's the current law.

10 Q Okay. Thank you. And next slide,
11 please. So, which states have implemented THC
12 per se or permissible inference limits?

13 A When Washington legalized recreational
14 marijuana, they included a 5-nanogram THC per se
15 limit for adults in the state of Washington, so
16 that was the first one. Colorado followed with
17 its permissible inference law, which is different
18 from per se, but some people view it as being
19 similar, and we'll see later on perhaps that it
20 is not. Montana followed Washington's lead with
21 5 nanograms, and I've described Illinois. West
22 Virginia fairly recently had 3 nanograms that
23 they put in. Ohio, even before legalization, had
24 a 2-nanogram THC per se limit but inexplicably
25 also had a 35 nanograms carboxy THC per se in

1 urine.

2 Q Now, what is carboxy THC? How does it
3 differ from --

4 A It is the inactive secondary metabolite
5 of THC. THC metabolizes into a ~~mon~~hydroxy THC, and
6 which is also psychoactive, which then in itself
7 metabolizes into carboxy THC.

8 Q So, carboxy-THC is not psychoactive?

9 A It is not psychoactive at all, correct?

10 Q And yet it's being measured by that law.

11 A By Ohio, it is. That's correct.

12 Q Mm-hmm.

13 A That's correct. And they've tried to
14 change that for about four years now they've been
15 trying to change this, and their laws that they
16 have tried to replace it with have not been
17 suitable, and I have testified against them in
18 all cases, and the laws have been withdrawn.
19 They have continued it with another attempt this
20 year with their Senate Bill 55. It is currently
21 being held in committee, trying to redraft the
22 law to overcome some of the objections that I
23 have brought to the attention of the state's
24 judiciary committee.

25 Q And what were those objections? What

1 was the substance of them?

2 A They were including additional THC per
3 se limits in urine. THC is not even soluble in
4 urine, so it's rarely found there, and when it is
5 found it's found in only very, very small doses.

6 Q What is THC soluble in?

7 A It's fat soluble.

8 Q Not --

9 A Not -

10 Q liquid-soluble

11 A Not water soluble and not in urine.

12 Q Next slide, please. So you have
13 estimated over 6,000 additional --

14 A Correct.

15 Q Deaths per year based on the studies
16 that we went over. How reliable, in your
17 opinion, are drugged driving fatality data?

18 A Generally speaking, they're very
19 difficult to know and generally what people look
20 at when they look at these kinds of things are
21 the NHTSA reports, National Highway Traffic
22 Safety Administration. NHTSA publishes something
23 called FARS. They've been doing this since about
24 1976 or thereabouts. They report the fatalities
25 by cause and they look at the time of day and the

1 age of the driver, the training, a whole host of
2 things that they publish. And included in that,
3 they also include drivers that have a blood
4 alcohol content, BAC, greater than or equal to
5 0.08 grams per deciliter.

6 Q Mm-hmm.

7 A Which is a common -- it is the most
8 common BAC level for BAC in the country.

9 Q Two slides ahead, please. But do some
10 states have better data than others in your
11 opinion?

12 A Yes, they do. Bear in mind that most of
13 the states get their --

14 MR. LONICH: Objection, Your Honor.

15 JUDGE JULIUS: Hold on. Basis?

16 MR. LONICH: The relevance to that
17 question, if the witness wants to testify about
18 the states and their data, but the comparison of
19 what's reliable and which one is better, I
20 believe ~~is~~ as the question was phrased. I don't see
21 the relevance of the question.

22 MR. MIGHELL: I'm happy to rephrase,
23 Your Honor.

24 JUDGE JULIUS: Go ahead and rephrase the
25 question.

1 MR. MIGHELL: Do you consider the data
2 from the state of Washington to be reliable on
3 the subject of drugged driving?

4 THE WITNESS: On the subject of fatal
5 crashes, yes. They are probably among the best,
6 if not the best. For drugged driving, not so
7 much, but for fatal crashes, yes.

8 BY MR. MIGHELL:

9 Q Mm-hmm. And what do those data show?

10 A Well, here you look at some data from
11 2008 through 2016 and bear in mind that these
12 data are not perfect. They capture the drug
13 testing data from about 90 percent of the
14 deceased drivers involved in fatal crashes, but
15 only 34 percent of the surviving cases. Again,
16 it's not perfect because during this time period,
17 they've changed their limit of quantification
18 from 1 nanogram to 2 nanograms and then back down
19 to 1 in 2013. But even so, this is considered to
20 be one of the most reliable in the country. What
21 you're seeing here is that in the orange line,
22 you see the rate of presence of THC in fatal
23 crashes rose from about 7 up to 27 over this time
24 period. What's quite remarkable is the alcohol
25 rate has dropped in the blue line, but the

1 polydrug case has just soared from 94 up to 137.
2 The polydrug is a combination of two or more
3 drugs at the same time.

4 Q Mm-hmm. And did those trends continue
5 after 2016? Next slide, please.

6 A Yes, they did. In fact, if you look at
7 the more recent data from Washington, polydrug
8 impairment, now shown in the green line, exceeds
9 a combination of a single drug or alcohol
10 combined. So polydrug is a serious prevalence
11 problem.

12 Q Next slide, please. Now, what does
13 Washington's data show specifically about THC-
14 positive drivers in fatal crashes?

15 A Well, here from the same agency, you'll
16 see both the total crash fatalities and the THC
17 presence fatalities. And the THC has more than
18 doubled, going from 38 in 2013 up to 74 in the
19 first year of their commercialization. And the
20 total fatalities has gone up from 623 to 767 in
21 the same two-year difference, indicating that the
22 THC presence is not just because there's more of
23 it out there; it's because they really are
24 causing fatal crashes.

25 Q Two slides ahead, please. Now, some

1 proponents of rescheduling have argued, and
2 testimony's been heard in this case to the
3 effect, that marijuana-impaired driving is not a
4 serious concern.

5 A Correct.

6 Q What is --

7 A Some people have said that.

8 Q What is your response to that?

9 A What I would say is that they're cherry-
10 picking data when they report this. Let me look
11 at the National Cannabis Injury Association
12 report to the Congress that they published in
13 2018. They stated that there has been no
14 increase in traffic fatalities as a result of
15 marijuana legalization. Well, as I pointed out
16 before, legalization itself is not going to
17 affect traffic safety. It's going to be
18 commercialization and use that does that. The
19 data that the NCIA used to support their
20 statement to Congress was based upon obsolete
21 studies that were done very short-term after
22 legalization, but prior to commercialization.

23 Q So prior to 2014?

24 A Prior to 2014, correct.

25 Q Mm-hmm.

1 A They also cited a NHTSA study, 2015
2 Virginia Beach study, saying that they found no
3 statistically significant crash risk associated
4 with marijuana use after controlling for age,
5 gender, ethnicity, and the presence of alcohol.
6 And that claim was also made by NORML, the
7 National Organization for the Reform of Marijuana
8 Laws, and those claims are just flat out false.
9 They just -- they're not true and I'll go through
10 that briefly with you because that is important
11 to know.

12 Q Mm-hmm.

13 A They've also claimed that cannabis users
14 tend to compensate effectively for the deficits
15 by driving more carefully, and that's a direct
16 quote from Sewell in Exhibit 22.

17 Q Mm-hmm.

18 A This is a perfect example of the way
19 they have taken things out of context. The very
20 next sentence in Sewell's report was that
21 unexpected events are still difficult to handle
22 under the influence of marijuana, however, and
23 the combination of low-dose alcohol and low-dose
24 cannabis causes much more impairment than either
25 drug used alone. So if you extract what you want

1 to from studies, you can say whatever you want,
2 but it's not really true.

3 Q You mentioned there were additional
4 claims that were made that you wish to address.
5 What were those claims?

6 A Well, you can see some from NORML.

7 Q Next slide, please.

8 A National Organization to Reform
9 Marijuana Laws. They said that the inhaled
10 cannabis influence is typically short-lived and
11 subtle. Well, short is a relative term. Let's
12 talk about real numbers. The work done by Dr.
13 Thomas Marcotte in San Diego said that it's three
14 and a half to four and a half hours before the
15 impairment caused by marijuana subsides down to
16 baseline levels. But he's pointed out
17 importantly as well that during those same
18 studies, that those subjects felt comfortable to
19 drive after one and a half hours. So between
20 that one and a half and either three and a half
21 or four and a half depending upon where that
22 subject happened to be, that's a dangerous
23 period. It's even worse for cases of edibles
24 because with edibles you find that the impairment
25 time can last 6, 8, and up to 10 hours. As far

1 as being subtle. Subtle, yes, but that's
2 sufficient to kill, as we have seen from some of
3 the data.

4 The other point is to being subtle is
5 that those subtle effects of marijuana's
6 impairment are what makes it so difficult for the
7 law enforcement officials to enforce the laws
8 because the standard tests that they use to
9 identify impairment for drunk driving don't work
10 for drug driving.

11 Q Mm-hmm. Next slide, please. Now, you
12 stated previously that NORML misquoted the
13 Virginia Beach study?

14 A The Virginia Beach study was done by
15 NHTSA. It was done actually by Pacific Institute
16 for Research and Evaluation under contract to
17 NHTSA. And NHTSA, first of all, reported on this
18 in 2015, and John Lacey reported on the full
19 report one year later as the author of the study.
20 The study was based upon THC presence, not on THC
21 impairment, and that's an important distinction
22 that we'll be getting into a bit later on. The
23 study did not say that there was no significant
24 link. They said they failed to find a
25 significant link. A failure to find a link is

1 not the same thing as finding there is no link.
2 Absence of evidence is not evidence of absence.
3 It's like when you can't find your keys, it
4 doesn't mean they've disappeared, it means you
5 didn't find them.

6 Q Mm-hmm.

7 A And the reasons they didn't find them is
8 that the study was not designed to find them.

9 Q It is frequently said that keys are in
10 the last place you look.

11 A That's right. That's right. They only
12 studied volunteers. They didn't study everybody
13 that came up. They had over 3,000 subjects in
14 the study, but less than 2,700 crashes. So at
15 least 413 of the subjects in the study were
16 victims of somebody else's crash. They were not
17 the people that necessarily caused it.

18 Q And the quotation in front of you from
19 Mr. Lacey, could you please read it?

20 A This study should not be interpreted to
21 mean that it is safe for individuals who have
22 used substances to operate a vehicle.

23 Q Is that a quote from the study?

24 A That is a quote from John Lacey. Not
25 from Compton, but from John Lacey. That's what

1 he said. That's correct.

2 Q Mm-hmm. Next slide, please. Mr. Wood,
3 what is some of the real evidence that THC
4 impairs driving?

5 A Well, we have lots of evidence despite
6 the phony claim that we can't study this because
7 it's a Schedule I drug. We've got reports that
8 there have been over 15,000 marijuana studies
9 published in the biomedical literature, despite
10 it being a Schedule I, in less than one decade.
11 The studies include experimental evidence and
12 epidemiological evidence. These are two
13 different types of studies, and they have
14 different pros and cons of either type, but we
15 look at all of it together to come with a
16 conclusion.

17 Experimental evidence typically is very,
18 very tightly controlled. You've got typically an
19 individual is going to be acting as his or her
20 own control, and I'm going to be looking at
21 somebody's their attention span, their ability to
22 small motor control and so forth, short-term
23 memory, alignment skills. You test whatever
24 study you want to study, whichever dimension you
25 want to study. You test the subject when they're

1 baseline and then when they have consumed
2 marijuana, and then after they have subsided back
3 to baseline, and you can prove true cause and
4 effect that THC does cause impairment.

5 Q And that's for laboratory experiments?

6 A That's for laboratory experiments.

7 Q Next slide, please.

8 A These describe some of the things that
9 we would look at. Look at attentiveness,
10 vigilance, perceptive time and speed, executive
11 function, divided attention, cognition,
12 psychomotor functions, risk-taking behavior,
13 reaction time, short-term memory, motor skills
14 and tracking. They've tested many, many
15 different dimensions. Even the marijuana lobby,
16 if you look at some of their pronouncements they
17 have made in the reports I referred to earlier,
18 admit that the laboratory experiments can cause
19 impairment. But what they then ask is, okay, but
20 what does that do to the tendency to cause
21 crashes?

22 Q Mm-hmm.

23 A You can't do that with a laboratory
24 experiment. You need other kinds of experiments.

25 Q Like on-road driving studies, for

1 instance?

2 A On-road driving studies.

3 Q Next slide, please.

4 A And on-road driving studies, those are
5 difficult and dangerous to perform, and very few
6 of them have been published, other than
7 journalistic publicity stunts that we typically
8 ignore, but well-controlled studies have not been
9 very common. For safety considerations, they've
10 used very low doses of THC. They have to because
11 they don't want to put the test subjects and the
12 monitor who's in the car with the study subject
13 at risk. But they have, for example, tested 100
14 and 200 and 300 micrograms per kilogram THC dose
15 per subject. And what these studies have proven,
16 that the impairment is indeed dose-related, but
17 that's about as far as they can go with on-road
18 driving studies.

19 Q So with an on-road driving study, how is
20 that typically performed?

21 A On-road studies, they have a monitor
22 who's sitting in the passenger seat with an
23 active brake so he can stop it, and even a
24 steering wheel where he can overcome the person
25 that's performing it. They will measure the dose

1 of marijuana in a marijuana cigarette and then
2 have certain instructions as to how deep to
3 inhale and so forth, and then the timing that
4 they can smoke.

5 Q Mm-hmm.

6 A And then they measure the, what's called
7 the lateral displacement. It's a measure of
8 weaving in the road, and they have a car
9 instrumented to do that.

10 Q Thank you for clarifying that. Lateral
11 displacement is a very technical term. It means
12 weaving in the road?

13 A Weaving in the road, yeah.

14 JUDGE JULIUS: Counsel --

15 MR. MIGHELL: Yeah.

16 JUDGE JULIUS: Just for your awareness,
17 we're a few minutes away from the scheduled noon
18 lunch break. So, if you want to start looking
19 for a good place to pause, just be on the lookout
20 for that, okay?

21 MR. MIGHELL: Yes, Your Honor. I think
22 after the next slide from this one we can take a
23 rest.

24 JUDGE JULIUS: Sounds good.

25 MR. MIGHELL: And after they've dosed

1 the drivers, surely they don't let them just
2 drive on the road, right?

3 THE WITNESS: Well, they use a closed
4 track. I'm sorry. I did not mention that.

5 BY MR. MIGHELL:

6 Q Well, thank goodness.

7 A All the ones I'm aware of have been on a
8 closed track.

9 Q Hmm. Next slide, please. As for
10 driving simulator studies, what about them? What
11 do they show?

12 A Well, those are actually pretty good.
13 There are a number of different kinds of
14 simulators where you simulate the driving
15 ability. Sometimes you just do it with a
16 computer simulation and a steering wheel and a
17 brake. The more involved simulators include
18 getting somebody encased in a large device like
19 what you see in a flight simulator or some of the
20 Disneyland rides where you can actually feel the
21 vehicle moving. These can be very well
22 controlled, again, like you can with experimental
23 studies, yielding very credible results.

24 All of these different kinds of
25 laboratory studies, simulator studies use just a

1 handful of subjects. They may use 15 subjects,
2 maybe 20, maybe 100. They measure fewer
3 dimensions of impairment than lab studies but a
4 lot more than on-road studies. They confirm that
5 THC-induced driving impairment, it does exist,
6 especially with occasional users, and they're
7 fairly consistent, but not completely consistent
8 because there are some differences in the
9 protocols that are being used from one
10 experimenter to the other. So you can find some
11 that do not confirm this, but generally speaking,
12 the majority of them will reach that conclusion.

13 Q When you say occasional users, can you
14 define that term for us?

15 A Different experimenters have different
16 cutoff points, but it's generally recognized that
17 THC metabolizes relatively slowly, and it does so
18 on a second-order kinetic reaction rate. So what
19 happens is that you have a half-life like
20 radioactivity.

21 Q Mm-hmm.

22 A It's not a linear metabolization like it
23 is with alcohol. So what they look at is does
24 somebody have enough time between their
25 consumption of the dosing schedules, if you will.

1 Do they have enough time to allow that to
2 subside? And if they only are using it maybe
3 once a week, that generally is considered to be
4 an occasional user. If they're using it daily or
5 every other day, that usually is going to be a
6 chronic user. Some people will say, I'll look at
7 people if they use it monthly. If they use it
8 less than that, generally they are considered to
9 be naive users.

10 MR. MIGHELL: Okay. Your Honor, I'm
11 happy to stop there.

12 JUDGE JULIUS: Sounds like a good place
13 to stop for lunch. It is now just 12:00 on the
14 dot. We will recess for an hour for lunch, and
15 I'll see everyone back here at 1:00 p.m. During
16 the recess, please don't discuss your testimony
17 with anyone as you're still in the process of
18 giving it. Okay?

19 (Whereupon, the above-entitled matter
20 went off the record at 12:00 p.m. and resumed at
21 1:01 p.m.)

22 JUDGE JULIUS: We are back on the
23 record. If you want to continue with your direct
24 examination of Mr. Wood, feel free to do so at
25 your convenience.

1 MR. MIGHELL: Thank you, Your Honor.
2 Could we go forward two slides? Judge, just for
3 the record, we are on slide 22 of Exhibit 87.

4 JUDGE JULIUS: Thank you, Counsel.

5 DIRECT EXAMINATION

6 MR. MIGHELL: Mr. Wood, you mentioned
7 epidemiological studies and that one of those was
8 culpability studies. What are culpability
9 studies and what do they show?

10 THE WITNESS: Culpability studies
11 compare drivers involved in a crash, usually they
12 look at two drivers with a two-vehicle crash
13 together, for example and identify the one driver
14 that was culpable and one who was not culpable.
15 Then they look at the drug presence in both of
16 those two categories of individuals. From that,
17 they determine something called an odds ratio or
18 a relative risk after marijuana use. The metrics
19 that they use sometimes are self-reports from the
20 drivers. Sometimes they will use blood tests.
21 Sometimes they'll use urine tests. But the point
22 I want to emphasize that in all cases they are
23 measuring THC presence, not necessarily
24 impairment.

25 There are widely variable results from

1 the culpability studies because of the highly
2 variable test protocols that are used. Some, for
3 example, will specify that we will only rely upon
4 blood testing; others rely only on self-reports
5 and so forth. As a result of the different
6 protocols that are used for testing, it's hard to
7 compare the results one with the other.
8 Generally, they find THC-positive drivers are
9 more likely to cause fatal crashes, but not
10 always.

11 What they have found fairly consistently
12 is that the crash risk is highest for people that
13 are impaired by alcohol plus THC, those people
14 that are impaired by alcohol or have had alcohol
15 present are the middle grade, and those that have
16 the least propensity for being in a crash are
17 those that are positive for THC only.

18 BY MR. MIGHELL:

19 Q Mm-hmm. Next slide, please. Your
20 Honor, for the record, slide 23. Mr. Wood, what
21 are case control studies, and how do they differ
22 from culpability studies?

23 A Well, here you're looking at two
24 different types of subjects. One is drivers that
25 are involved in crashes, and the second is

1 drivers that are not involved with crashes but
2 perhaps happen to be going by the same
3 intersection maybe a week later, but at the same
4 time of day. They typically, like the
5 culpability studies, will typically report either
6 odds ratio or relative risk after marijuana use.
7 Again, they assess marijuana use, not impairment.

8 Q Next slide, please. Your Honor, for the
9 record, slide 24. Mr. Wood, can you describe
10 very briefly the most frequently cited meta-
11 analysis of marijuana crash risk studies?

12 A Sure. Because of the wide variety of
13 different kinds of studies that are done in crash
14 risk studies, they're best understood with
15 something called meta-analysis that I think was
16 covered by an earlier witness here.

17 This is from a report that was done by
18 Rogeberg and Elvik, a couple of Norwegian
19 researchers and this is a list of the 28
20 different studies that they combined into one
21 meta-analysis of a result. If you look at this,
22 you'll find that there are 28 different studies
23 here, and the odds ratio in each study is listed
24 on the right-hand side, and they vary everywhere
25 from 0.22 up to 13.4; 0.22 means that people that

1 are positive for THC in that study were 4.5 times
2 more safe to drive than a sober driver. Now 13.4
3 says that they were 13.4 times worse than a sober
4 driver. Then you combine all those very
5 disparate studies into one number, and they come
6 up with 1.36; and this is the number that NORML
7 and some of the other marijuana lobby people have
8 held onto it to say, this really is not very
9 dangerous.

10 Q Mm-hmm.

11 A It's not much worse than just getting
12 your blood drawn or maybe getting a measles shot
13 or something like that. If you look at this, the
14 second one from the bottom is the Compton study.
15 That was one we were just discussing from West
16 Virginia. That ended up with an odds ratio of
17 1.0. Well, actually, 1.0 was not from the
18 Compton study, that was actually from the Lacey
19 study. Compton showed 1.05. So there's some
20 inconsistencies and irregularities in the way
21 they've reported this, but that's an example of
22 one study.

23 Q All right, thank you. Next slide,
24 please. Slide 25, Your Honor. What can
25 observational studies tell us? And this is the

1 third of the epidemiological studies, right?

2 A This is the third of the epidemiological
3 type. That's correct. We've -- seen some.
4 We've seen some of the examples of data from
5 Washington, for example, are epidemiological
6 studies. Instead of having controls, they simply
7 look at massive numbers of case studies. You'll
8 have, as I say, typically less than 100 people in
9 a regular controlled study. Observational studies
10 may have thousands of them. We've had 60-some
11 odd thousand cases in Colorado of DUI, for
12 example, that can show you some of our studies.

13 Q Next three slides on, please. There,
14 that one. Slide 28, Your Honor. We're just
15 going to move a little bit faster. Mr. Wood,
16 what is the difference in your opinion based on
17 your research between DUI and DUI per se?

18 A Excellent question. Many people
19 misunderstand this. All states have both DUI
20 laws as well as DUI per se laws, although they
21 may not call them that. DUI is driving under the
22 influence. They may have different terms for
23 that as well, DWAI and so forth. I use DUI
24 simply because it's the most commonly used. But
25 DUI requires that the prosecutor proves that

1 somebody is impaired however that state happens
2 to define impairment.

3 The level of alcohol or drugs in the
4 blood or oral fluid or urine or whatever is not
5 even an element of the crime. In fact, you can
6 be convicted of DUI even if there are no
7 toxicology results, which happens once when a
8 subject refuses to comply with the state
9 requirement that they furnish a biological
10 sample.

11 DUI per se is quite different. It
12 requires that the prosecutor prove that somebody
13 is above the legal limit. For alcohol, that is
14 typically .08 grams per deciliter of alcohol in
15 whole blood, and no proof of impairment is
16 required to be convicted of DUI per se. You do
17 have to prove probable cause to take blood sample
18 from that individual, but that's a much lower
19 standard of proof than is proving somebody is
20 incapable of driving, for example.

21 Q Okay, next slide, please. Your Honor,
22 slide 29. What do officers look for when there's
23 a roadside encounter involving DUI, and how
24 effective are their observations at detecting
25 impairment?

1 A Good. The first thing to look for --

2 MR. LONICH: Objection.

3 JUDGE JULIUS: Hold on, sir. We have an
4 objection. Basis?

5 MR. LONICH: Once again, I believe this
6 is going outside the scope of the expertise. The
7 way the question was posed was what do they look
8 for, how effective it is. I don't believe that
9 this witness has any law enforcement background.
10 I understand that he has read these studies, but
11 how effective things are on a case-by-case basis,
12 I believe, is outside the scope.

13 JUDGE JULIUS: All right, Counsel, do
14 you have a response to the objection?

15 MR. MIGHELL: I'm happy to rephrase.

16 JUDGE JULIUS: Okay, I'll consider the
17 question as withdrawn, and you can rephrase.

18 MR. MIGHELL: Mr. Wood, what is the
19 typical test that an officer would perform to
20 determine impairment during a roadside encounter?

21 THE WITNESS: Tests are typically
22 specified in something called the Standardized
23 Field Sobriety Tests and those are sanctioned by
24 the International Association of Chiefs of Police
25 to include three individual tests: horizontal

1 gaze nystagmus, the one leg stand, and walk and
2 turn. These have been validated to be very
3 effective for measuring and reporting and
4 documenting impairment by alcohol. They've also
5 been shown to be only moderately effective for
6 impairment by marijuana.

7 BY MR. MIGHELL:

8 Q And they've been shown by what study?

9 A Been shown by studies done in the Con
10 Stough in Australia, some people in the United
11 States, some people in England -- worldwide it's
12 been shown to be ineffective or moderately
13 effective for marijuana.

14 Q Mr. Wood, why is the absence of a
15 scientifically valid THC per se limit of
16 consequence to the government's rescheduling
17 decision?

18 A Yes. The dilemma that the law
19 enforcement faces is that they know that it is
20 illegal in all states to drive while under the
21 influence of the drugs. Proving that is very
22 difficult. Prosecutors find the same thing with
23 alcohol, which is why they prefer to use the
24 statute DUI per se rather than DUI. They're used
25 to that, and it's very easy to do. It's not a

1 slam dunk, but it's much, much easier. It's an
2 uphill struggle to convict somebody of DUI.

3 Q Why is it harder to convict someone of
4 DUI than DUI per se?

5 MR. LONICH: Objection, Your Honor.

6 JUDGE JULIUS: Basis?

7 MR. LONICH: Once again, I believe it's
8 outside the scope. This is getting into a legal
9 analysis, a legal critique. Also, as you know,
10 Your Honor, every case is different. Facts are
11 different. There's conversations that are had
12 between prosecutors and defendants. I just
13 believe this is outside the scope. They want to
14 talk about statistics and what results in a
15 conviction, but the process behind it, the
16 theories, and I would add a speculation objection
17 to that as well, Your Honor.

18 JUDGE JULIUS: Response to the
19 objection, Counsel?

20 MR. MIGHELL: My response would be that
21 we're just talking about the statistics. We are
22 talking about why prosecutors would use the per
23 se as opposed to a normal DUI conviction. This
24 is statistically. This is found in the
25 statistics that are in our exhibits. We're

1 speaking to the statistics. We're not speaking -
2 - we're not having him speculate on why states
3 might do this.

4 JUDGE JULIUS: Did you have something
5 more to add?

6 MR. LONICH: Yes. To that point, Your
7 Honor, a statistic is a statistic. It is a
8 number. It is a result. It's not the why
9 something happened.

10 JUDGE JULIUS: That was my question as
11 well.

12 MR. MIGHELL: That's fine. I can
13 rephrase.

14 JUDGE JULIUS: Okay. So I'll consider
15 that question previously withdrawn, and you can
16 ask a new question.

17 MR. MIGHELL: Thank you. Withdrawn.
18 Mr. Wood, what do these statistics say about
19 convictions about -- withdrawn. Mr. Wood, what
20 do the statistics say about DUI per se
21 convictions in the States? How often do they
22 occur?

23 THE WITNESS: I have no statistics on
24 that. The states that do report convictions on
25 DUI typically combine DUI and DUI per se

1 combined. I will show you some specific
2 statistics on Colorado that speak to that
3 question, but not as directly as you asked it.

4 Q Mm-hmm. Let's move on to slide 30. Mr.
5 Wood, what is the DRE protocol?

6 A DRE protocol is 12 steps that an officer
7 must go through to document that somebody is
8 impaired, that enables a DRE-trained person to
9 not only document impairment, but also provide
10 an expert opinion as to what the likely causes of
11 that observed impairment is.

12 Q Is DRE training -- withdrawn. Does DRE
13 training take a long time?

14 A Yes, it does. It's considered to be
15 extremely difficult to become a drug recognition
16 expert. It takes two days of assessment for the
17 officer just to show that he is going to be able
18 to complete the what's called the DRE school.
19 The school itself is seven days of eight hours a
20 day of training, followed by a 40- to 60-hour
21 period of time to achieve certification. Annual
22 certification is required, and that DRE expert
23 must have a minimum of four evaluations every two
24 years to maintain their certification.

25 Q How many DRE experts -- or how many DREs

1 does the state of Colorado have?

2 A Last I saw was about 143.

3 Q In your expert opinion, is that enough
4 DRE experts to cover the amount of drugged
5 driving cases that come before the courts?

6 A It is enough to cover them. Is it
7 enough to cover them well? That's an opinion.
8 Different people have different answers. What I
9 typically hear from people is, no, it is unlikely
10 that any state will ever have enough that will
11 satisfy the critics.

12 Q Mm-hmm. Next slide, please. Slide 31,
13 Your Honor. Is there a THC equivalent for the
14 BAC limit for alcohol, .08 famously?

15 A No, there is not. This slide will give
16 us three expert statements, one from the AAA
17 Foundation for Traffic Safety, one from the
18 National Safety Council, and one was from NHTSA,
19 and all of them say that legal limits for
20 marijuana and driving are arbitrary and
21 unsupported by science, which could result in
22 unsafe motorists going free and others being
23 wrongfully convicted for impaired driving.

24 Q And these are from Exhibits 8 and 23 of
25 DUID Victim Voices submission?

1 A That is correct.

2 Q Next slide, please. Slide 32.

3 A Here are three more agencies that have
4 reached the same conclusion, the National
5 District Attorneys Association.

6 MR. LONICH: Objection, Your Honor

7 THE WITNESS: The National Sheriff's
8 Association.

9 JUDGE JULIUS: We have an objection.

10 MR. LONICH: I didn't know if there was
11 a question posed.

12 MR. MIGHELL: There was no question.
13 What do the organizations on this slide say about
14 THC per se limits?

15 THE WITNESS: One of the most
16 interesting ones is from the National District
17 Attorneys Association that gave us some numbers.
18 They say that If a marijuana per se level is set
19 at 5 nanograms, some estimates suggest 50 to 70
20 percent of individuals who display clues of
21 impairment leading to arrest would test below the
22 per se limit.

23 BY MR. MIGHELL:

24 Q Next slide, please. Mr. Wood, in your
25 expert opinion, what are the specific problems

1 with a per se limit for THC?

2 A Well, it does not need to be my expert
3 opinion because these other expert organizations
4 have said the same thing. When you set an
5 artificial THC per se limit that is not supported
6 by science, you will have unimpaired drivers who
7 are above the limit that can be convicted and
8 impaired drivers below the limit who are not
9 convicted. Now, you can solve that problem by,
10 rather than using a per se level, use what
11 Colorado calls a permissible inference structure,
12 but it does not solve the second problem. You
13 still have unimpaired drivers above the limit
14 will no longer be convicted, but the impaired
15 drivers below the limit are not convicted, even
16 with a per se -- permissible inference -- law.

17 Q Yeah. Next slide, please. Your Honor,
18 slide 34. Can you explain why a blood test for
19 THC cannot serve the same purpose as a blood test
20 for alcohol?

21 A Certainly. The issue is that neither
22 alcohol nor THC impair a driver's blood. The
23 only reason we test the blood is as a surrogate
24 to find out what's in the brain. These and other
25 drugs do impair the brain, but not the blood.

1 Now --

2 Q So why does the blood work so well as a
3 surrogate for alcohol?

4 A Well, alcohol is water-soluble, so it
5 establishes very quickly a uniform distribution
6 throughout the body and throughout all highly
7 perfused organs and tissues of the body. So
8 what's in the blood is in the brain and vice
9 versa. THC is fat-soluble. It's not soluble
10 dissolved in the blood. It's suspended in it as
11 it races through the blood vessels. When it hits
12 the brain and other fatty tissues, those fatty
13 tissues, since THC is fat-soluble, extract the
14 THC from the blood. So very quickly, the THC
15 level in the brain is much higher than it is in
16 the blood.

17 Q Mr. Wood, what is the most fatty tissue
18 in the body?

19 A The brain.

20 Q Next slide, please. Actually, two
21 slides ahead. You've mentioned before the blood
22 alcohol limit, I'm sorry, you mentioned that
23 there's a relationship between blood alcohol
24 limit and crash risk.

25 A That's correct.

1 Q What is the data that would confirm that
2 statement?

3 A Well, there are several pieces of data,
4 and I'll just show one here. And this is the
5 data from -- and it's a study of Long Beach, Fort
6 Lauderdale study and published in 2022, showing
7 the relationship between blood alcohol content
8 and relative crash risk. This is used to support
9 the per se level but does not scientifically
10 determine what that per se level ought to be.
11 Numbers like this have been replicated around the
12 world, and they all come up with similar but not
13 identical graphs. But I will point out that
14 these are average numbers and do not reflect each
15 individual, like, there can be differences among
16 individuals.

17 Q Mm-hmm. Two slides on, please. Your
18 Honor, slide 38. Does a similar correlation
19 exist for any drug other than alcohol for BAC
20 crash risk correlation -- or crash risk
21 correlation?

22 A No, it does not. Alcohol is the only
23 drug with a proven correlation between blood
24 levels and crash risk. For marijuana
25 specifically, we have proof that there can never

1 be a correlation between blood levels and crash
2 risk. The laws of chemistry and of human
3 physiology prevent any possible correlation.
4 Marijuana's not the outlier. Alcohol is the
5 outlier. It's the only drug that has that.

6 Q Next slide, please. Your Honor, slide
7 39. Mr. Wood, can you define pharmacokinetic for
8 us?

9 A Sure. Pharmacokinetics basically is the
10 science of determining essentially what the body
11 does to the drug, not what the drug does to the
12 body, which is pharmacodynamics. But
13 pharmacokinetic is the other way around, what the
14 body does to the blood -- or what it does to the
15 drug, rather.

16 Q And can you explain the pharmacokinetic
17 differences between alcohol and THC? How are
18 they different?

19 A On the left, you'll see a Widmark model,
20 which basically shows how the BAC in an
21 individual will decline in time. You can see it
22 goes from -- it climbs from about .33, in this
23 case, up to about .45 as somebody is consuming
24 the alcohol, and then it declines in a very
25 linear fashion at about 0.02 grams per deciliter

1 per hour. On the other hand, if you look at the
2 graph on the right, you see in the solid red line
3 the level of THC in the blood, and you can see
4 that it very rapidly spikes in the blood. Within
5 just a few minutes, you achieve the maximum level
6 of THC after somebody begins smoking a joint. It
7 declines rapidly, not because of metabolization,
8 which is what's occurring on the left alcohol
9 graph, but it's declining rapidly because of
10 redistribution from the blood to the brain and
11 other fatty tissues in the body.

12 Q When you say redistribution, can you
13 explain that process?

14 A Yes. It's a process where the THC is in
15 the blood, and the brain, the lungs, the heart,
16 other fatty tissues extract that from the blood
17 and redistribute it from the blood to the fatty
18 tissues.

19 Q Mm-hmm. Two slides on, please. Mr.
20 Wood, what is the data that shows the
21 relationship between blood THC levels and
22 subjective impairment?

23 A Well, there have been a number of them.
24 Some of them are shown here in this graph, and
25 they've been combined into one graph for ease of

1 understanding and comparison. If you look at the
2 two lines that are marked by squares, that shows
3 alcohol. What you're seeing is the alcohol
4 milligrams per deciliter is in the line with the
5 black squares, and the subjective effects are
6 then shown in the line with the white squares.
7 And they track very closely, as you might expect.
8 As the alcohol level goes down, the impairment
9 level or the subjective effects go down.

10 The other two lines that you see are for
11 THC, and again, following the same technique, we
12 have the line with the blackened in circles shows
13 the THC level in the blood, whereas the line with
14 the open circles shows the subjective effects.
15 You'll see that for the first 30 minutes after
16 consuming a joint, the subjective effects are
17 going up at the same time that the level of THC
18 is going down. This is what you would expect
19 when the THC is being redistributed from the
20 blood to the fatty tissues.

21 Q When you're talking about the subjective
22 effects of impairment, can you define what those
23 are for us?

24 A They typically are defined by the
25 subject that's being tested, and they typically

1 ask the subject to rate how high you are on a
2 scale of 1 to 10, called a VAS scale, visual
3 analog scale.

4 Q Two slides on, please. Your Honor,
5 slide 43. Mr. Wood, what do real world arrest
6 data for DUI show about the distribution of blood
7 THC levels?

8 A Well, they vary depending upon where the
9 test was taken, and also they have varied over
10 time as THC potency, if you will, has increased.
11 This is a fairly old study from 2008 showing that
12 90 percent of the subjects that were arrested for
13 DUI in Sweden tested below 5 nanograms.

14 Q Next slide, please. Is there similar
15 data from the United States, Mr. Wood?

16 A There are. This is a graph from NMS
17 Labs in Pennsylvania showing that 70 percent were
18 below 5 nanograms. This is in a study of over
19 10,000 marijuana DUID cases.

20 Q Next slide, please. Your Honor, slide
21 45. Mr. Wood, what would Colorado's data show?

22 A Actually, very similar to the one from
23 NMS at the same time period. This is about 2012,
24 72 percent of the cannabinoid-positive defendants
25 tested below 5 nanograms.

1 Q Two slides on, please. Your Honor,
2 slide 47. Mr. Wood, you testified that sometimes
3 blood testing can be delayed.

4 A Yes.

5 Q How does that delay affect the
6 measurement of blood THC in studies?

7 A It's huge, and this is a result from a
8 study that I performed with my co-authors on a
9 paper that we had published. What we've done is
10 we have looked at the delay time between a crash
11 that killed somebody or injured somebody, looked
12 at both groups of cases, between the time of the
13 crash and the time that blood was collected for
14 toxicological testing.

15 Q Mm-hmm.

16 A And then we've put those into five
17 quintiles shown here in the blue and the pink
18 blocks. Quintile 1 shows that the mean time for
19 that quintile is 1.1 hours. The median quintile,
20 number 3, so the mean time was 2.1 hours between
21 the crash and time you collect the blood.
22 Quintile 5 was over 4 hours. Most of quintile 5
23 was cases where a warrant was required in order
24 to be able to collect the blood. That's becoming
25 more and more common with some of the recent

1 court rulings. So these data are somewhat dated.
2 What I've done then, I've placed these quintiles
3 against the graphs that you just saw earlier, the
4 one graph showing the very rapid decline of THC.
5 That's a very dark line shown on the graph.

6 Q Mm-hmm.

7 A The gold and gray lines are from a
8 different study showing chronic users and
9 occasional users and what their decline was
10 respectively. And what you can see is that for
11 quintile one, that is, the fastest 20 percent of
12 all the cases, it's fairly easy to show that the
13 person can be found to have THC that is
14 measurable in the laboratory. But quintile
15 three, which is just the median, you find that
16 the only ones that are above the limit of
17 quantification of most toxicology laboratories
18 are those people that are chronic users. The
19 occasional users will be below the limit of
20 quantification, and they will be shown as no THC
21 has been found. For quintiles four and five,
22 they all fall below the level of quantification.
23 Now, if somebody actually took a joint, say, an
24 hour before they began to drive, you would just
25 move all these blocks to the right, and you begin

1 to see that more and more of those people that
2 you would test would be found negative just
3 because of time delay.

4 Q Next slide, please. Mr. Wood, is there
5 a study that directly compares crash risk as a
6 function of blood concentration for alcohol to
7 crash risk for a blood concentration of THC?

8 A There's only one study I've seen that
9 fits that description, and that was the study
10 that was done in Europe. It was a multinational
11 study. You see the alcohol curve on the left-
12 hand side and it follows by and large what you
13 would see with the earlier graph we disclosed
14 with the from NHTSA. On the right-hand side, you
15 see THC, and you see there's no correlation
16 whatsoever.

17 Q And in your expert opinion, what does
18 that suggest about blood THC levels and
19 impairment?

20 A Well, it says you better not use it to
21 find out if somebody's impaired because it
22 doesn't work.

23 Q Hmm. Next slide, please. Do the graphs
24 that you showed apply to all users, including
25 chronic users, or just to occasional users?

1 A Well, it's interesting that even with
2 occasional users, you find wide differences.
3 Same thing with chronic users. This shows just
4 how wide the variation is from one individual to
5 the next. If you look at the -- we saw this
6 graph earlier -- and look at the vertical lines
7 that are above and below the black solid line.
8 You see that the black solid line says that the
9 median blood THC level is about 62 nanograms per
10 milliliter for that group.

11 Q Mm-hmm.

12 A The black lines, the vertical lines show
13 the range, and even though the median was 62,
14 among all the subjects that were studied, it
15 ranged from 18 up to 112, so that's a pretty wide
16 spread.

17 Q Two slides on, please. This is slide
18 51, Your Honor. So you've presented a great deal
19 of scientific evidence about THC and blood
20 content. Is there real-world data from a state
21 that would measure the actual impact of a THC per
22 se limit on DUI convictions?

23 A Yes. There are real-world data. They
24 only come from Colorado, and this is pursuant to
25 the law that I wrote and brought to the

1 legislature, as I described before.

2 Q Why does that data only come from
3 Colorado?

4 A Well, it's hard to do. When you think
5 about it, you want to be able to get data from
6 the toxicology laboratories all the way through
7 to the judicial outcome. Well, when somebody is
8 arrested for DUI, the policeman will get the
9 blood sample and will transfer that to the
10 laboratory for testing, and he will put his law
11 enforcement agency's number and the date on it
12 and the person's name, but there's no uniform
13 code that then travels with that sample all the
14 way through the judicial process.

15 Once a case is filed with the
16 prosecutor, then there is a stamp of a -- this is
17 a case number. That case number wasn't assigned
18 at the time of the test, and so that does not
19 belong. So those two data fields exist in silos;
20 they're not combined.

21 Q I see.

22 A What we had to do in Colorado was to
23 find a way of combining the data from the two
24 different data silos and that's what was done.

25 Q Three slides on, please. Your Honor,

1 slide 54. Mr. Wood, what do the Colorado data
2 show about conviction rates for different
3 substances?

4 A Well, overall, we find that we're very
5 successful with alcohol convictions. We have a
6 94 percent conviction rate when somebody's been
7 charged with driving under the influence of
8 alcohol. On the other hand, if they've been
9 charged of driving under the influence where THC
10 was the only drug found, the conviction rate was
11 73 percent. Now, that may sound low, and it is,
12 but it gets worse as you get down deeper into the
13 data and you find that that's a 44 percent
14 conviction rate for DUI and a 98 percent
15 conviction rate for DWAI.

16 Q And again, what is DWAI? Do you know
17 what it stands for?

18 A DWAI is driving while ability is
19 impaired. It's just -- there's a statutory
20 definition of DUI, which is incapable of safe
21 driving. The statutory definition for DWAI is
22 impaired to the slightest degree such that
23 somebody is less safe to drive.

24 Q So DWAI has the lower standard, and DUI
25 is the higher standard.

1 A It's a lower standard. It's a lower
2 standard. It's also --

3 MR. LONICH: Objection, Your Honor.

4 JUDGE JULIUS: Hold on, sir.

5 MR. LONICH: Once again, we're getting
6 into legal analysis. What is the burden of proof
7 and what the standard is.

8 JUDGE JULIUS: Okay. Response to the
9 objection?

10 MR. MIGHELL: That's fine. I'll
11 withdraw the question.

12 JUDGE JULIUS: Okay.

13 MR. MIGHELL: Next slide, please. Based
14 on your research and experience, Mr. Wood, how do
15 prosecutors approach DUI cases when alcohol is
16 involved?

17 THE WITNESS: They will, if they have
18 the data on what the alcohol content is, and
19 that's all I'm reporting here because this is
20 based upon laboratory data. They will
21 universally try to get a conviction on DUI per
22 se. They will quite frequently negotiate that
23 down in order just to get a conviction and to
24 save court time and accept a conviction for DWAI
25 --

1 MR. LONICH: Objection, Your Honor.

2 THE WITNESS: As shown by the data here.

3 JUDGE JULIUS: Hold on, sir.

4 MR. LONICH: Understanding he's talking
5 about data, but once again, I feel like we're
6 verging into almost irrelevant testimony here
7 about why prosecutor and prosecutor decisions to
8 negotiate charges down, and they, as he testified
9 that they perceive that it may be easier. I
10 believe that's just outside the bounds of his
11 expertise, and also it's not relevant of separate
12 cases of what may or may not have happened during
13 those litigation process. I request we just
14 stick to the data.

15 JUDGE JULIUS: Response to the
16 objection?

17 MR. MIGHELL: Your Honor, this is
18 relevant because it's comparing how prosecutors
19 handle THC per se versus THC, how they handle
20 those cases versus alcohol which is -- that's the
21 distinction that Mr. Wood is testifying to.

22 JUDGE JULIUS: I'll allow it. It'll go
23 to weight.

24 MR. LONICH: Yes, Your Honor.

25 MR. MIGHELL: Okay. Next slide, please

1 -- actually, two slides on from there. Thank
2 you. One more slide on from that. Thank you.
3 Mr. Wood, what do the Colorado data show about
4 conviction rates above and below the 5 nanogram
5 per milliliter threshold for THC?

6 THE WITNESS: Here, we're looking at a
7 summary of five years of data, 2018 through 2022,
8 which is the last year for which we have data
9 published. And this is -- we've taken all of the
10 cases for people who were charged with DUI or
11 DWAI where THC was the only drug found in their
12 blood and we've separated that into charges by
13 DUI and DWAI, and also by above and below the 5
14 nanogram permissible inference rate.

15 What we find is that the 5 nanogram THC
16 limit does not discriminate between impaired and
17 non-impaired. Both categories of individuals
18 have remarkably high conviction rates 99 percent
19 for 5 nanograms and above and 93 percent for
20 below 5 nanograms.

21 BY MR. MIGHELL:

22 Q Next slide, please. Now, what do these
23 data tell us about the relative difficulty of
24 proving DUI versus DWAI with respect to THC?

25 A If we look at the cases for individuals

1 who are just above 5 nanograms, we have an
2 extraordinarily high 99 percent conviction rate
3 for DWAI, that is, impaired to the slightest
4 degree, and only 62 percent for DUI. This tells
5 us two things: One, it's easier to prove that
6 somebody is impaired to the slightest degree than
7 it is to prove that they are incapable of safe
8 driving.

9 Q And that's based --

10 A Well, it makes sense.

11 Q -- on the data for the conviction rates.

12 A That makes sense that's what the data
13 say. But it also says one other thing that's
14 very important. It also says that the
15 permissible inference structure used in Colorado
16 does appear to prevent convictions based on only
17 toxicology results, otherwise we would have an
18 extremely high conviction rate for DUI as well,
19 and we don't.

20 Q Okay. Next slide, please -- next slide,
21 please. This is next slide.

22 A I think you want to back up.

23 Q Yep. Oh, let's back up. Mr. Wood, what
24 happens to impaired drivers who test below the
25 threshold 5 nanograms per milliliter for THC?

1 A It depends upon whether or not they are
2 charged with DWAI, in which case they have a 93
3 percent conviction rate, as we've already
4 testified. Or if they're charged with DUI, where
5 the conviction rate is a miserable 8 percent.
6 I'm not sure why prosecutors would try to convict
7 somebody of DUI when they're below the legal
8 limit, but they do.

9 Q So, based on the data, the conviction
10 rate changes based on the charge?

11 A It does, which is exactly what the
12 National District Attorneys Association and the
13 other expert groups said was going to happen.
14 This proves it actually does happen.

15 Q Next slide, please. Mr. Wood, based on
16 the data from these studies, is a THC legal limit
17 necessary to achieve convictions for impairment?

18 A No, it absolutely is not. The keys to
19 conviction based upon these data would tell us
20 that you should, first of all, avoid the use of a
21 THC legal limit because it'll get you in trouble
22 and it'll prevent you from convicting somebody
23 who is impaired, and you should also charge
24 impairment. Don't charge incapability of safe
25 driving.

1 Q Three slides on, please. Your Honor,
2 slide 64. Mr. Wood, are there any additional
3 noteworthy findings from the Colorado data?

4 A Yes, we have seen earlier data that half
5 or more of the THC only cases test below 5
6 nanograms. Yet, if we look at this middle set of
7 tables here, we see that very few of those are
8 charged with either DUI or DWAI if they're 5
9 nanograms or below, telling us that with the
10 current legal system that we have in Colorado, we
11 are already not charging people when they
12 probably should be charged if they were charged
13 with DWAI. The prosecutors just aren't bothering
14 to do it.

15 Q Mr. Wood, can you explain to the
16 tribunal how human behavior factors into the
17 opinion that rescheduling would increase
18 marijuana usage and consequently drugged driving
19 fatalities, which you've testified to?

20 A Can you ask the question a bit more
21 clearly? I want to make sure I understand it.

22 Q Certainly, can you explain to the court
23 how human behavior factors into your opinion that
24 rescheduling would lead to an increase in drugged
25 driving fatalities?

1 A Well, once a rescheduling occurs, one
2 would expect that an individual might say, this
3 is not as dangerous as they used to think it was,
4 so I can now go ahead and drive. And so we might
5 expect to have a higher number of drugged driving
6 incidents than we have had in the past.

7 Q Mr. Wood, did the government assess this
8 risk that this behavioral change would pose to
9 the driving public?

10 A Absolutely not. There was nothing in --
11 nothing that -- that I presented here was
12 included in any information from DER, from the
13 DEA, from HHS, or the DOJ.

14 Q So the government did not assess this
15 information?

16 A Didn't even touch it. Didn't even
17 recognize it. This is published information, by
18 the way.

19 Q Two slides on, please.

20 A It wasn't secret.

21 Q Mr. Wood, how would you summarize your
22 opinion regarding rescheduling and increased
23 marijuana usage with respect to human behavior
24 and with respect to the effect of rescheduling on
25 increased marijuana usage, if it will increase?

1 A Sure. In summary, I would say that we
2 have conclusive evidence that policy changes made
3 by the government can impact the consumption
4 prevalence in the population. We have seen that
5 marijuana can indeed cause impairment, that it
6 can indeed cause deaths and serious bodily
7 injuries. We can expect that the intervention
8 the government is proposing right now, which is
9 to down classify from Schedule I to Schedule III,
10 is likely to cause a greater increase in
11 prevalence, as shown here on this graph. And we
12 can expect that there will be a higher number of
13 fatalities.

14 Q Mr. Wood, how many fatalities per year
15 did you testify that that average would be?

16 A Well, we don't know what it is right
17 now. I believe in an earlier testimony from one
18 of the government witnesses was they expected
19 2,000 to 5,000 --

20 MR. LONICH: Objection.

21 MR. MIGHELL: Hold on, sir. We have an
22 objection.

23 MR. LONICH: I request that the witness
24 answer the question on his own knowledge and
25 studies. He's referencing testimony previously

1 had in this proceeding. He should've been
2 sequestered. I don't know where he got the
3 information from or where he heard it, but I just
4 request that he not comment on things that were
5 said previously in the proceedings.

6 JUDGE JULIUS: I understand that
7 objection. Sir, how do you know what was
8 testified to earlier in this hearing?

9 THE WITNESS: I read the transcript.

10 JUDGE JULIUS: Okay.

11 MR. LONICH: Your Honor, we would just
12 note for the record, pursuant to the tribunal's
13 order, the witness should have been sequestered
14 and not have read or heard any of the testimony.

15 JUDGE JULIUS: Understood. Go ahead,
16 Counsel.

17 MR. MIGHELL: Certainly. Mr. Wood, two
18 slides on, please. One more slide. Thank you.
19 Mr. Wood, before we end today, do you have one
20 final story for the tribunal of a victim of drunk
21 driving?

22 THE WITNESS: Yes. Let me just
23 highlight four cases that illustrate the problem
24 we're dealing with here. I described the son, my
25 son's case, in the upper left-hand corner.

1 That's Brian and his wife, Erin. The women that
2 killed Brian were sentenced to five and eight
3 years, respectively. They served three and five
4 years respectively. Both were placed under a
5 bench warrant because neither one of them
6 complied with a court requirement that they
7 provide a restitution for a partial payment for
8 the burial expenses for my son. The Defendant
9 Bowling has never been found in the last 10
10 years. We have found Wichert. Last I heard,
11 she's now in jail awaiting a trial for killing
12 another man and under a \$5 million bail.

13 It turns out that had they been
14 convicted of vehicular homicide due to DUI
15 instead of driving with disregard for the safety
16 of others, the recommended sentencing window in
17 the State of Washington at that time would have
18 suggested 12 to 15 years.

19 Below Brian is Paeyton Knowlton, 8 years
20 old, killed by Kyle Couch as Paeyton was coming
21 back from her second-grade graduation. Kyle was
22 assessed by two drug recognition experts who both
23 said, this man is unsafe to drive. He is
24 incapable of safe driving. And his blood was
25 tested at and showed 1.5 nanograms per milliliter

1 of THC. Now it turns out he had confessed to
2 consuming an edible, not smoking, and the edible
3 results in blood is much, much, much lower than
4 it is if you are smoking. So 1.5 nanograms is
5 about what you would expect for somebody who had
6 just consumed an edible many hours before.

7 Because of the low level, Kyle Couch was
8 convicted of careless driving resulting in death,
9 which is a misdemeanor in Colorado, and he was
10 sentenced to 60 days in jail. He also pled
11 guilty to buying his marijuana using a fake ID,
12 for which he was sentenced an additional 90 days
13 in jail. 150 days for killing an 8-year-old
14 girl.

15 Next to her is Rosemary Tempel. She was
16 killed by Tim Durden, his blood was tested four
17 hours after the crash at 4.2 nanograms per
18 milliliter. He also received a lighter sentence.
19 He was released after 3 years of a 4.5 year
20 sentence.

21 Let me close with Tanya and Adrian
22 Guevara, 25 years old, and her 5-week-old son,
23 killed by Steven Ryan, who confessed to driving
24 under the influence of marijuana at the time he
25 killed Tanya immediately. Adrian suffered for

1 five more days before he died. He was convicted
2 and sentenced to 10 years in prison. That sounds
3 good, but this occurred in Colorado. Shortly
4 after he was sentenced to prison, the Colorado
5 passed its 5 nanogram law. His sentence was then
6 appealed, and he was released.

7 All of these victims were people that
8 have been victimized twice. Once by drug-
9 impaired drivers, and secondly, by a legal system
10 that showed greater sympathy for drug users than
11 they did for drug victims.

12 MR. MIGHELL: Your Honor, that concludes
13 the direct examination of Mr. Wood.

14 JUDGE JULIUS: Thank you, sir.

15 THE WITNESS: I thank the Court, for its
16 time.

17 JUDGE JULIUS: Before we move on to
18 cross, the court has at least one question I'd
19 like to ask Mr. Wood.

20 THE WITNESS: Mm-hmm.

21 JUDGE JULIUS: Are you familiar with the
22 Controlled Substances Act --

23 THE WITNESS: I am.

24 JUDGE JULIUS: Definition --

25 THE WITNESS: I am.

1 JUDGE JULIUS: Of marijuana?

2 THE WITNESS: Yes.

3 JUDGE JULIUS: Just for clarity of the
4 record, it's at 21 U.S.C. § 802, § 16A. Subject
5 to subparagraph B, the terms marijuana and
6 marijuana, spelled variously with an H or a J,
7 mean all parts of the plant Cannabis sativa L.,
8 whether growing or not, the seeds thereof, the
9 resin extracted from any part of such plant, and
10 every compound, manufacture, salt, derivative,
11 mixture, or preparation of such plant, its seeds,
12 or resin. Subsection B defines what is not
13 included in that definition: hemp.

14 THE WITNESS: Right.

15 JUDGE JULIUS: And the mature stalks of
16 the plant, things derived from the stalk,
17 sterilized seeds, things like that. Is this the
18 definition of marijuana that you've used to
19 research and provide your opinions, or do you
20 have a different definition of marijuana that you
21 use in your study and in your opinions?

22 THE WITNESS: When speaking of
23 marijuana, I use the definition that you have
24 described. I typically don't refer to marijuana
25 impairment. I typically in my work refer to it

1 as THC impairment because it's more specific.

2 JUDGE JULIUS: Okay. Thank you. Cross-
3 examination for the government whenever you're
4 ready.

5 MR. LONICH: Yes, Your Honor. The
6 witness has been testifying for almost an hour at
7 this point. Would now be an appropriate time for
8 a quick comfort break?

9 JUDGE JULIUS: We can certainly do that.

10 MR. LONICH: Okay.

11 JUDGE JULIUS: We can take 15 minutes?

12 MR. LONICH: That works.

13 (Whereupon, the above-entitled matter
14 went off the record at 1:51 p.m. and resumed at
15 2:06 p.m.)

16 JUDGE JULIUS: I understand from court
17 staff that there may be a procedural issue that
18 someone wanted to raise to the court's attention.
19 Is that the case?

20 MR. HARRINGTON: Yes, Your Honor. I have
21 a procedural question, but it can wait until
22 after any cross or redirect.

23 JUDGE JULIUS: Okay.

24 MR. HARRINGTON: Unless, yeah.

25 JUDGE JULIUS: I wasn't sure how

1 pressing it was, but we can certainly wait.

2 MR. HARRINGTON: Not that pressing,
3 thank you.

4 JUDGE JULIUS: Okay. Cross-examination
5 from the government, sir, whenever you're ready.

6 MR. LONICH: Yes. Your Honor, at this
7 time and with all due respect to Mr. Wood and the
8 sensitive impact of some of his testimony, we
9 would request and move at this time to strike or
10 disregard this witness' testimony. As he
11 testified on direct, he had read the transcript
12 multiple times throughout the presentation.
13 There's references to other witnesses' testimony.
14 That is a direct violation of this tribunal's
15 order, and it is clear that the testimony today
16 was tailored based on that previous order.

17 JUDGE JULIUS: Counsel, do you have a
18 response to that?

19 MR. MIGHELL: Thank you. Your Honor, we
20 just learned about this now, but the court has
21 been emailing out to all counsel and all parties
22 uncorrected transcripts of each day's
23 proceedings. And again, we just learned about
24 this and just wanted to make Your Honor aware of
25 that. We're prepared to give the government as

1 long a leash as they want on cross. We think
2 that if he's read the transcripts, he's not being
3 offered as a rebuttal witness to any of the
4 government's witnesses. It goes to weight. It
5 doesn't go to the substance. The substance is
6 studies, it's materials that Mr. Wood -- that are
7 independent of a rebuttal to the government's
8 witnesses.

9 Again, they can examine him as closely
10 as they want to on cross, but this court has been
11 emailing transcripts out not only to counsel for
12 the parties but to some of the parties
13 themselves.

14 JUDGE JULIUS: Understood, Counsel. We
15 looked into that. The court looked into it
16 during the recess as well as to how Mr. Wood
17 would obtain those, and because he is the party,
18 parties are receiving the transcripts along with
19 counsel, so we understand that that's how he got
20 it. Anything further in support of the motion
21 from government counsel?

22 MR. LONICH: Just the one point, Your
23 Honor. We would maintain that although they're
24 presenting it as not a rebuttal witness, based on
25 the fact that he had previous knowledge of some

1 of the testimony than that was described in the
2 presentation, it's a de facto rebuttal witness.

3 JUDGE JULIUS: I understand the
4 arguments from both sides. I will deny the
5 motion to strike the testimony in its entirety.
6 I will consider arguments that go to weight of
7 aspects of the testimony based on the indication
8 that it was based on having read transcripts.
9 But it'll go to weight as opposed to
10 admissibility.

11 MR. LONICH: Yes, Your Honor.

12 MR. MIGHELL: Thank you.

13 JUDGE JULIUS: Cross-examination,
14 whenever you're ready.

15 MR. LONICH: With that, Your Honor, no
16 cross from the Government.

17 JUDGE JULIUS: Okay. Thank you. And
18 with no cross, there's no need for any redirect.
19 Thank you very much, Mr. Wood. That does
20 conclude your testimony. Thank you so much for
21 sharing with us.

22 THE WITNESS: Thank you, Your Honor.

23 JUDGE JULIUS: Yeah, so you are excused
24 at this time.

25 THE WITNESS: Okay.

1 JUDGE JULIUS: All right, so we continue
2 to move ahead of schedule. We are now, with
3 that, on the schedule where we were planning to
4 be at 3:00 p.m. tomorrow, so we are very much
5 ahead of schedule. We will start tomorrow with
6 Dr. Kenneth Finn's opening statement. I think at
7 this point, that was supposed to start at 3:15
8 and 3:30 with the direct examination of Dr.
9 Finn's first witness. I would just maybe ask
10 that Dr. Finn's counsel perhaps be prepared to
11 move forward with both witnesses if at all
12 possible tomorrow.

13 MR. KENNEALLY: Judge, I do think that's
14 possible. I'm prepared to give my opening
15 statement now if it pleases the court. If you'd
16 like to do it tomorrow, we can do it as well.
17 The only request that I would have is -- Mr --
18 excuse me, Dr. Finn is coming from Arizona, and
19 his flight gets in at 9:00 tonight. I would like
20 to have a chance for him just to review the
21 exhibits prior to court starting tomorrow. So
22 with the court's indulgence, could we maybe move
23 the start of court back until about 9:30? Just
24 because there's a few exhibits that I wanted to
25 get through, and I know the building opens up

1 generally around 8:30. I just want to have
2 sufficient time in order to do that.

3 JUDGE JULIUS: Any objection to starting
4 a little bit later tomorrow?

5 MR. LONICH: No objection from the
6 government, Your Honor.

7 MR. McNICHOLS: None from us, Your Honor.

8 JUDGE JULIUS: Okay, and I haven't
9 forgotten about your procedural issue. That's
10 fine with the court. Let's go ahead and if you're
11 prepared to do your opening statement today --

12 MR. KENNEALLY: Sure.

13 JUDGE JULIUS: Let's just go ahead and
14 knock that out. That'll get us 15 minutes ahead
15 of schedule further, and we'll go from there.

16 MR. KENNEALLY: May it please, Your
17 Honor. On November 20th, 2019, a 19-year-old,
18 Johnny Stack, sat down at a family dinner, and he
19 told his Mother, Laura Stack, the truth. He
20 said, you were right. You told me that weed
21 would hurt my brain, and it's ruined my mind and
22 my life. He said, you were right all along. I'm
23 sorry and I love you. Three days later, Johnny,
24 during a psychotic episode caused by the very
25 marijuana that he was addicted to and had been

1 prescribed as medicine, climbed to the roof of a
2 six-story building, and he jumped to his death.

3 Now, you're going to hear from one of
4 the physicians who saw this coming, Dr. Ken Finn.
5 And Dr. Finn has practiced for more than three
6 decades. He's board certified in pain medicine.
7 He's the past President of the American Board of
8 Pain Medicine, and he served as a member of the
9 Colorado Governor's Task Force that weighed
10 marijuana legalization. He's the chief editor of
11 the first comprehensive peer-reviewed medical
12 reference ever written on the subject, Cannabis
13 and Medicine: An Evidence-Based Approach. In
14 other words, he literally wrote the book.

15 He has spent his career at the bedside
16 of the very patients that this drug is marketed
17 to. He knows the evidence and he knows the harm.
18 Dr. Finn is going to testify that he lived
19 through the opioid epidemic, and he believes that
20 we're on the onset of another one. This one, a
21 little bit harder to see because it's not
22 measured by the unmistakable marker of overdose
23 deaths, but silently through the suffering of
24 those who have been rendered mentally ill.

25 Now, Dr. Finn believes what this Court

1 must ultimately do is make this a medical and
2 scientific question. Hold to that standard, and
3 Dr. Finn is going to tell you that the answer is
4 not even close. His testimony will establish two
5 things. First, marijuana has no accepted medical
6 use. Second, it has a high potential for abuse
7 and no accepted safety level. As to the second
8 point, Dr. Finn will put in front of you the
9 exact harm that the FDA avoided considering,
10 which is what this drug does to the human mind.

11 Now let's start with the medical use.
12 Marijuana has never been taken up into the
13 ordinary practice of American medicine. The
14 overwhelming majority of physicians in this
15 country do not recommend it, least of all for
16 pain, which is the field that Dr. Finn has worked
17 in for 30 years. The numbers are stark. In New
18 York and Florida, a little over 3 percent of
19 physicians take part in the medical program. In
20 Colorado, under 2 percent. In Colorado, 3
21 physicians, 3 out of more than 17,000 licensed
22 state physicians, wrote a quarter of all
23 marijuana recommendations in a single year. In
24 Florida, 88 percent of certifications came from
25 one-fifth of participating doctors, who, again,

1 made up a little over one-third of all licensed
2 physicians in the state. In Oregon, 9 doctors
3 approved more than half the patients in the
4 entire program in the year. And Dr. Finn will
5 tell you that the literature already has a name
6 for this type of prescribing pattern. It's the
7 profile of a pill mill.

8 In addition, Dr. Finn will tell you that
9 when a doctor recommends or certifies marijuana,
10 it carries none of the hallmarks of real medicine
11 such as dose, frequency, route, or strength.

12 Dispensary products swing wildly from very little
13 THC to concentrates north of 90 percent and from
14 products with very few chemical components to
15 products with hundreds, and this is where the
16 government's case breaks down. Dr. Finn is going
17 to testify that the reviews the FDA leaned on
18 never studied the actual products on the shelves.
19 The studies predominantly considered low-potency
20 preparations, sprays, and purified pharmaceutical
21 cannabinoids. It's the equivalent of saying
22 drinking a handle of Wild Turkey may have a
23 medical application because there are some
24 inconclusive and highly contested studies that a
25 glass of red wine is good for your heart. On

1 pain, Dr. Finn will testify that HHS is out of
2 step with far more rigorous science and out of
3 step with the medical organizations that treat
4 the disease. The highest quality reviews land on
5 low, very low, or insufficient evidence across
6 the board. He will testify that not a single
7 medical organization dealing with pain, including
8 the International Association of Pain Medicine,
9 the American Academy of Pain Medicine, the
10 American Chronic Pain Association, endorses
11 dispensary marijuana, and neither do credible
12 medical organizations dealing with pain. He will
13 note that when every authority outside of D.C.
14 that treats this illness does not recommend it,
15 that's not a currently accepted medical use.
16 It's a currently rejected one and exposes the HHS
17 recommendation and how they got there for what it
18 actually is.

19 Now, if the first half of Dr. Finn's
20 testimony's about what marijuana cannot do, the
21 second half is about what it does do, and here
22 the harm is grave, documented, and growing. He
23 starts with addiction. Recent NIDA and CDC
24 estimates put cannabis use disorder at up to 30
25 percent of users, rates that meet or beat alcohol

1 and opioids. And Dr. Finn will reframe what
2 addiction even means in this context because the
3 government gets it wrong. The threat is not
4 through withdrawal that's rough, or calls to
5 poison control, or overdose counts. The threat
6 is that the steady use—more and more, and higher
7 and higher potency—leads to disease, most starkly
8 in the form of psychosis.

9 A 2023 nationwide study of nearly 6.9
10 million people, built on five decades of records,
11 found a strong link between cannabis use disorder
12 and schizophrenia and estimated that as many as
13 30 percent of the schizophrenia cases in young
14 men may have been prevented but for cannabis use.
15 Let me say that again. Nearly one-third of the
16 cases of this devastating disease that
17 immiserates the afflicted and everyone around
18 them could have been prevented but for marijuana
19 use. Study after study says the same, with
20 frequency of use and, above all, potency driving
21 the risk.

22 Dr. Finn wants this Court to understand
23 that at some point the science must stop being
24 abstract and understand that findings and
25 judgments, they have consequences, and that's why

1 he's offering Laura Stack. She's going to tell
2 you the story of her son, Johnny, which I
3 mentioned, how he began using marijuana in
4 Colorado after it was legalized, how he became
5 addicted, how he became psychotic, how he was
6 hospitalized time and time again, how a
7 psychiatrist told him that all he needs to do is
8 to switch strains, and how he ultimately killed
9 himself, how he's gone now, forever. And she's
10 going to tell you what it's like for a mother to
11 have to live with that fact and she's not going
12 to testify alone.

13 Through the sworn affidavits of more
14 than 80 other parents, her testimony will
15 establish that Johnny was no outlier: mothers
16 and fathers who watched healthy, gifted kids come
17 across, mind and soul, the same way from the same
18 cause, often tragically to the same end. Dr.
19 Finn will tell you that rescheduling marijuana,
20 even though it will remain scheduled, is in fact
21 a big deal. As stated by Dr. Rossheim, professor
22 at the University of Texas, in one of the
23 supporting affidavits to Dr. Finn's testimony,
24 rescheduling ratifies the industry's central
25 sales pitch that this is medicine when the very

1 best the science can show is that perhaps some of
2 the compounds might be medicine for a select few
3 conditions, and it stamps that pitch with the
4 seal of the United States government, and that
5 means something.

6 In closing, Dr. Finn will establish that
7 recreational marijuana as medicine is a lie, or
8 at best unproven. Dr. Finn will ask that a
9 judgment this grave, a judgment this deadly
10 serious, must not be made on evidence the
11 government itself calls mixed and inconclusive
12 because the truth remains the truth, uncertainty
13 and risk remain uncertainty and risk, and the
14 burden remains the burden. The only question
15 left for Your Honor is: Who is going to bear
16 these things, the government and the industry or
17 the Laura Stacks of the world? Thank you, Judge.

18 JUDGE JULIUS: Thank you, Mr. Kenneally.
19 All right. Before we adjourn today, Mr.
20 Harrington, did you have an issue you wanted to
21 raise to the Court's attention?

22 MR. HARRINGTON: Yes, Your Honor. I'm
23 not sure if this is even a procedural question,
24 but next week I'm presenting Dr. D'Souza by BTC
25 as an expert, and I've noticed that all of the

1 experts who have testified, you have asked them
2 about the federal definition of cannabis. Just
3 to make sure that the presentation's helpful and
4 clear and doesn't leave lingering questions, is
5 there anything I can do to accommodate that
6 question?

7 JUDGE JULIUS: Nothing in particular. I
8 just want to make sure that we -- because I asked
9 that question of one of the first experts, I just
10 want to be consistent in making sure that when we
11 get an opinion with regard to marijuana, what
12 definition we're using. Just want to make sure.
13 People tend to speak a little loosely sometimes
14 about medical marijuana or recreational
15 marijuana. Just because what I'm interested
16 primarily in is the CSA definition, I just want
17 to make sure that we're all talking about the
18 same concept.

19 MR. HARRINGTON: Thank you, Your Honor.

20 JUDGE JULIUS: Any other matters before
21 we adjourn today?

22 MR. LONICH: Nothing from the
23 government, Your Honor.

24 JUDGE JULIUS: All right. We will be
25 adjourned until 9:30 tomorrow. We'll do a little

1 bit delayed start because we are so far ahead.
2 Thank you, everyone. Have a good evening, and
3 we'll be adjourned until 9:30.

4 (Whereupon, the above-entitled matter
5 went off the record at 2:22 p.m.)

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1 C E R T I F I C A T E

2 This is to certify that the foregoing transcript
3 was duly recorded and accurately transcribed
4 under my direction; further, that said transcript
5 is a true and accurate record of the proceedings;
6 and that I am neither counsel for, related to,
7 nor employed by any of the parties to this action
8 in which this matter was taken; and further that
9 I am not a relative nor an employee of any of the
10 parties nor counsel employed by the parties, and
11 I am not financially or otherwise interested in
12 the outcome of the action.

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