

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,
June 30, 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 STACY M. RACE, ESQ.
5 LISA K. MAN, ESQ.
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8 On Behalf of the National Drug and Alcohol
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13 PATRICK D. KENNEALLY, ESQ.
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17 On Behalf of Smart Approaches to Marijuana:

18 JOHN M. McNICHOLS, ESQ.
19 ~~PATRICK F. PHILBIN, ESQ.~~
20 CHASE T. HARRINGTON, ESQ.
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1 APPEARANCES: (continued)

2 On Behalf of the States of Nebraska, Idaho,
3 and Indiana:

4 JOHN M. McNICHOLS, ESQ.
5 CHASE T. HARRINGTON, ESQ.
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11 On Behalf of DUID Victim Voices:

12 PATRICK D. KENNEALLY, ESQ.
13 Burke Law Group, PLLC

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DAVID G. EVANS, ESQ.

PATRICK D. KENNEALLY, ESQ.
Burke Law Group, PLLC

DAVID G. EVANS, ESQ.

1 ALSO PRESENT:

2 GRAYSON E. PHILLIPS, ESQ., Law Clerk
3 LUKE NIFORATOS, Executive Vice President
4 of Smart Approaches to Marijuana (SAM)
5 VERONICA S. JAE, ESQ., Associate Chief
6 Counsel, U.S. Food & Drug
7 Administration
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2 (9:00 a.m.)

3 JUDGE JULIUS: We'll just start this
4 morning with a few housekeeping matters, and
5 then we'll resume with the cross-examination.

6 As I indicated yesterday, I'll take --
7 not attendance, but just make sure we have a
8 clear record of who is in the courtroom and is
9 not with regards to the interested parties and
10 designated parties.

11 Mr. Schwartz, could you state who is
12 present for the Government today?

13 MR. SCHWARTZ: Yes, Your Honor. This
14 morning, myself, ~~A.J.~~James J. Schwartz; Stacy Race~~r~~,
15 and Lisa Man.

16 JUDGE JULIUS: Good morning, Government
17 counsel.

18 Sir, if you could identify yourself and
19 what parties you're here on behalf of and who
20 all is with you.

21 MR. McNICHOLS: Certainly, Your Honor.
22 John McNichols from Torridon Law on behalf of
23 Smart Approaches to Marijuana, accompanied by
24 Chase Harrington, Zach Horton, and Luke
25 Niforatos. And three of us -- myself, Mr.

1 Harrington, and Mr. Horton -- are also here on
2 behalf of the opposed states of Nebraska,
3 Indiana, and Idaho.

4 JUDGE JULIUS: Okay. Any other
5 representation from opposed states, or is that
6 everybody?

7 MR. McNICHOLS: That's everybody.

8 JUDGE JULIUS: Okay. Thank you. It's
9 a lot to keep track of in this case.

10 DUID Voices counsel?

11 MR. KENNEALLY: Good morning, Your
12 Honor. Patrick Kenneally, for the record, K E N
13 N E A L L Y, from Burke Law Group. I'm here on
14 behalf of Dr. Ken Finn this morning, as well as
15 on behalf of DUID Voices.

16 JUDGE JULIUS: Thank you very much,
17 sir.

18 I noted yesterday that Pharmacist Drum,
19 the pro se interested party, had indicated he
20 would not be attending, I think, other than the
21 day he's presenting his case in chief, which,
22 again, is consistent with the preliminary order.

23 I also don't see Mr. Evans here present
24 today on behalf of his organization. We'll see
25 if he shows up today.

1 But that is everyone I see in the
2 gallery -- strike that -- in the well, for who's
3 here on behalf of the participating and
4 designated parties.

5 I remember yesterday we discussed the
6 possibility of maybe shuffling order of cross
7 examination. Counsel, do you have a response on
8 whether you're going to maintain the order in
9 the preliminary order or if you're going to
10 switch?

11 MR. McNICHOLS: We thought it made the
12 most sense, Your Honor, to have Mr. Kenneally
13 finish his examination on behalf of his other
14 client, at which point I will then examine on
15 behalf of my clients.

16 JUDGE JULIUS: Sounds good. Thank you,
17 Counsel.

18 Any other preliminary matters before we
19 resume cross examination?

20 MR. SCHWARTZ: Nothing from the
21 Government, Your Honor.

22 MR. McNICHOLS: Not for us, Your Honor.

23 MR. KENNEALLY: Thank you, Your Honor.

24 No.

25 JUDGE JULIUS: Thank you all. I

1 appreciate the efficiency with the procedural
2 matters.

3 Sir, if you would please retake the
4 witness stand. Please be reminded that you
5 remain under oath and are obligated to tell the
6 truth, the whole truth, and nothing but the
7 truth.

8 WHEREUPON,

9 DR. DOMINIC CHIAPPERINO
10 was recalled as a witness by Counsel for the
11 Government, and having been previously duly
12 sworn, resumed the witness stand, was further
13 examined and testified as follows:

14 JUDGE JULIUS: And, Counsel, if
15 you'd like to take the podium and do your cross
16 examination on behalf of Dr. Finn, just begin
17 whenever you're ready, sir.

18 MR. KENNEALLY: Thank you.

19 CROSS EXAMINATION

20 BY MR. KENNEALLY:

21 Q Good morning, Doctor.

22 A Good morning.

23 Q All right. This morning, let me just
24 pull back generally. And you and I talked about
25 a number of stats as well as databases yesterday

1 with respect to factors 4, 5, and 6 of your
2 eight-factor analysis. Is that correct?

3 A Some, yes.

4 Q Okay. And when you're going through
5 that, just generally speaking --

6 A Mm hmm.

7 Q -- is it fair to say that what we're
8 trying to do by looking at all these databases
9 and these stats is we're trying to get a sense
10 of what -- the public health impact marijuana
11 has on United States citizens? Is that --

12 A Yes. Relative to other controlled
13 substances, yes.

14 Q Okay. And we basically want to know,
15 comparatively, as you said --

16 A Mm hmm.

17 Q -- how many people are being killed,
18 injured, or otherwise affected by marijuana in
19 the United States. Is that fair to say?

20 A Yes.

21 Q Okay. And for some part of your
22 analysis, you considered smoking cigarettes and
23 compared nicotine to marijuana for addictive
24 purposes. Is that correct?

25 A Yes.

1 Q Okay. And you would agree with me that
2 smoking is a public health risk?

3 A Yes.

4 Q It's about as bad as it gets.

5 A Sure. Yes.

6 Q Okay. And though it doesn't
7 immediately kill you, such as an overdose, and
8 though it may not cause you to call Poison
9 Control, it causes disease, correct?

10 A Yes, it does.

11 Q Okay. And it's ultimately the disease
12 that kills you.

13 A Yes.

14 Q Okay. And it's ultimately the disease
15 that harms you and injures you.

16 A Yes.

17 Q Okay. And a lot of times it causes
18 chronic diseases. Right?

19 A Yes, it does.

20 Q All right. And, like, in terms of the
21 impact on the health system, chronic diseases is
22 one of the -- is one of the biggest impacts.
23 Would you agree with that?

24 A Yes.

25 Q So would you agree with me that the

1 rate at which scheduled substances cause or are
2 associated with chronic diseases is something
3 that bears upon public health?

4 MS. MAN: Objection. This is outside
5 the bounds of Dr. Chiapperino's Touhy about the
6 impact of scheduled substances on public health.

7 He can ask about marijuana and the comparators,
8 but this is outside the bounds of his eight-
9 factor analysis he performed on marijuana
10 specifically.

11 JUDGE JULIUS: Do you have a response
12 to the objection?

13 MR. KENNEALLY: I literally asked what
14 the effect scheduled substances has upon public
15 health. It's directly in line with his
16 testimony, Your Honor.

17 JUDGE JULIUS: I'll overrule the
18 objection within the scope of the Touhy,
19 understanding that was the scope of your
20 question.

21 MR. KENNEALLY: Thank you.

22 JUDGE JULIUS: Proceed, sir. If you
23 need it repeated, just let me know.

24 BY MR. KENNEALLY:

25 Q Do you need me to repeat the question?

1 A Sure. Please.

2 Q Okay. Would you agree with me that the
3 rate at which scheduled substances cause or are
4 associated with chronic diseases, that -- that
5 that's something that bears upon public health?

6 A Yes. It bears upon public health.

7 Q Okay. In fact, you would agree with me
8 that that's a very important consideration.

9 A Are you speaking specifically about
10 drug scheduling --

11 Q No. I'm just talking about --

12 A -- evaluations?

13 Q -- the rate -- I'm sorry to cut you
14 off. Go ahead. Finish your thought.

15 A Thank you. Are you speaking about drug
16 scheduling comparative analyses?

17 Q Yeah. And I'm speaking about the rate
18 at which scheduled drugs cause disease. That's
19 something that bears upon public health --

20 A Sure.

21 Q -- and that's an important
22 consideration.

23 A I think it is an important
24 consideration. I think we do tend to focus more
25 on acute toxicities and acute harms because the

1 range of substances, for many reasons, that
2 develop that cause long term harms -- we could
3 talk about a lot of things, both controlled
4 substances and other substances that over time
5 might lead to disease conditions. It's hard to
6 weigh those data when we don't have good data
7 for many of the comparators in terms of long
8 term outcomes, so we do focus more on acute
9 toxicities.

10 Q Did you look at the data of the
11 association between marijuana and its
12 association with psychosis and schizophrenia?

13 A We did, yes.

14 Q Okay. And where in your eight part
15 analysis is that?

16 A It is not documented in the eight
17 factor analysis, I agree. There are some
18 adverse events reported that are related to
19 psychiatric events, which would capture
20 psychosis. We had the evaluation from the
21 Office of Surveillance and Epidemiology that did
22 look at that. There were --

23 Q That did look at what?

24 A Psychosis and causality, whether it was
25 demonstrated.

1 Q And is that in the eight --

2 A No, it is not in the evaluation.

3 Q Okay. So it's -- so it's not in the
4 eight part analysis.

5 A It is not written about in the eight
6 part analysis.

7 Q Okay. So there were things that you
8 considered --

9 A Mm hmm.

10 Q -- as part of your rescheduling
11 decision --

12 A Mm hmm.

13 Q -- that you did not include in the
14 analysis.

15 A Yes.

16 Q Is that --

17 A Yes.

18 Q Okay.

19 A Yes.

20 Q And how -- and did you disclose the
21 other things that you considered as part of your
22 rescheduling decision to Dr. Ken Finn prior to
23 the hearing today?

24 A I'm sorry. To whom?

25 Q Dr. Ken Finn. Prior to the hearing

1 today.

2 A No.

3 Q Okay. Did you disclose the other
4 things that you considered that were not part of
5 the HHS analysis to any of the other parties to
6 this hearing prior to this hearing today?

7 A No, we did not.

8 Q Okay. In your eight part analysis,
9 what you wrote about --

10 A Mm hmm.

11 Q -- and what you advised us about that
12 you considered, did you ever consider or write
13 about how marijuana is associated with
14 depression?

15 A Yes. It is captured, I think, in some
16 of the adverse event tallies and reported
17 adverse events among users in surveys.

18 Q Okay. So what is the -- so what is the
19 association? How much does marijuana increase
20 the risk of depression, chronic use?

21 A I cannot give you that number off the
22 top of my head. If you'd like me to focus on
23 one of the analyses, I'm happy to.

24 Q Sure. Where in the HHS analyses do you
25 talk about the rate at which marijuana causes

1 depression --

2 A I don't think we --

3 Q -- from an epidemiological --

4 A -- might have broken it out --

5 Q Can I finish my question?

6 A Oh, yes. My apologies.

7 Q From an epidemiological standpoint,
8 where in the HHS analysis do you talk about
9 that?

10 A We don't.

11 Q Okay.

12 A Not as a rate.

13 Q All right.

14 A Of that specific outcome.

15 Q Would you agree with me that the rate
16 at which a Schedule I substance and Schedule I
17 substance use causes adverse cardiac events,
18 would you agree with me that that's something
19 that's important to public health?

20 A Yes.

21 Q Okay. And you would agree with me that
22 nowhere in your eight part analysis do you
23 specifically focus on or do you consider the
24 association between chronic marijuana use and
25 adverse cardiac events?

1 A Honestly, it's such a dense document of
2 data that I am not sure what tables are included
3 in it at this point.

4 Q Okay. But as you sit here today,
5 you're not aware of whether or not HHS --

6 A I cannot be sure whether we have
7 discussed those specific statistics.

8 Q Would you agree with me that if a
9 Schedule I drug, after chronic -- after chronic
10 use, reduced brain activity, lowered
11 intelligence, reduced domains of memory and
12 learning, and significantly lowered baseline
13 motivation, would you agree with me that if a
14 Schedule I substance was associated with those
15 things, that that would be important to public
16 health?

17 MS. MAN: Objection as to compound
18 question.

19 MR. KENNEALLY: I'll rephrase.

20 JUDGE JULIUS: Thank you.

21 MR. KENNEALLY: Yeah. I appreciate
22 that.

23 BY MR. KENNEALLY:

24 Q Would you agree with me that if a
25 Schedule I substance was associated with reduced

1 brain activity --

2 A Mm hmm.

3 Q -- in users --

4 A Yeah.

5 Q -- would you agree with me that that
6 would be an important public health
7 consideration?

8 A Yes. I think it would be.

9 Q Okay. Would you agree with me that if
10 a Schedule I drug, after chronic use, lowered
11 the intelligence of the people using the drug,
12 would you agree with me that that would be an
13 important public health consideration?

14 A Yes.

15 Q Okay. Would you agree with me that if
16 a Schedule I drug, after chronic use, reduced
17 domains of memory, the ability to remember, as
18 well as the ability to learn, would you agree
19 with me that that would be an important public
20 health consideration?

21 A Yes.

22 Q Okay. Nowhere did you write about, in
23 your eight part analysis, the association
24 between chronic cannabis use and reduced brain
25 activity, correct?

1 A I think it is captured in terms of
2 adverse event outcomes. I don't think we have
3 paragraphs devoted to that individual topic.

4 Q Okay. Nowhere in your eight part
5 analysis did you consider the association
6 between chronic cannabis use and lowered
7 intelligence, correct?

8 A Correct.

9 Q Okay. Nowhere in your eight part
10 analysis did you consider the association
11 between chronic cannabis use and reduced domains
12 of memory and learning, correct?

13 A Correct.

14 Q Okay. Do you have Exhibit 1, ALJ
15 Exhibit 1, Doctor?

16 MR. KENNEALLY: And could we provide
17 him with that, please?

18 JUDGE JULIUS: Just for the record, the
19 law clerk is handing him ALJ Exhibit 1.

20 MR. KENNEALLY: Thank you, Judge.

21 JUDGE JULIUS: And while we're paused,
22 I'll also just note for the record that Mr.
23 Evans is now present with us. Welcome, Mr.
24 Evans.

25 MR. EVANS: Thank you for acknowledging

1 my presence, Your Honor.

2 JUDGE JULIUS: Absolutely.

3 MR. EVANS: It's always nice when
4 someone acknowledges your presence.

5 JUDGE JULIUS: Of course.

6 BY MR. KENNEALLY:

7 Q Doctor, could you turn with me to page
8 50 of the August letter, please.

9 A I am there.

10 Q Okay. And middle of the page, do you
11 see the subheading Risk of Driving Under the
12 Influence of Alcohol?

13 A Yes, I do.

14 Q Excuse me. Do you see the Risk of
15 Driving Under the Influence of Drugs?

16 A Yes.

17 Q I misspoke.

18 A Sorry.

19 Q Okay.

20 A Me, too.

21 Q Okay. And this talks about NSDUH data
22 from 2021.

23 A Yes.

24 Q And we talked about yesterday how you
25 were not aware that -- how you were aware that

1 there was NSDUH data from 2024 --

2 A Yes.

3 Q -- that was not considered.

4 A We have not reevaluated marijuana since
5 2023.

6 Q Okay. So these are surveys that are
7 being conducted, the NSDUH survey as well as the
8 YRBSS survey, right?

9 A Right.

10 Q So people are calling people on the
11 phone. Is that essentially what happens?

12 A For the YRBSS, yes.

13 Q Okay. And what about the NSDUH? How
14 are these surveys conducted?

15 A You know, I don't recall. I think this
16 is an online or -- I'm not sure.

17 Q Okay. And essentially the survey is
18 asking the question: How often have you driven
19 under the influence of either a drug or alcohol,
20 correct?

21 A Yes. Yes.

22 Q Okay. And the accuracy of this survey
23 depends on the people essentially admitting to
24 the surveyor that they've driven under the
25 influence of a drug or substance. Is that

1 correct?

2 A Sure.

3 Q Okay. For purposes of public health,
4 what would you say is more important, the rate
5 at which people are driving under the influence
6 of, let's say, marijuana, or how many people are
7 being injured or killed by people driving under
8 the influence of marijuana?

9 MS. MAN: Objection. Calls for
10 speculation.

11 JUDGE JULIUS: Counsel, response?

12 MR. KENNEALLY: It's not. It's which -
13 - what's more important to a public health
14 consideration. That's exactly what he's here to
15 testify to.

16 JUDGE JULIUS: I'll overrule the
17 objection to the extent he can answer it.

18 MR. KENNEALLY: I can rephrase.

19 JUDGE JULIUS: Okay. Thank you,
20 Counsel.

21 BY MR. KENNEALLY:

22 Q Is the rate at which people are being
23 killed or injured by people driving under the
24 influence of marijuana, is that an important
25 consideration in terms of public health?

1 A The rate, yes.

2 Q Okay. How many people in 2023 were
3 killed by somebody driving under the influence
4 of cannabis?

5 A 2023 was not a complete year of
6 evaluation. Do you want to focus on a different
7 year?

8 Q Okay. How many people in 2022?

9 A I think it would depend on whether
10 we're talking about people that were testing
11 positive for Delta 9 THC or whether there is an
12 assessment of actual impairment.

13 Q How many people in 2022 were killed as
14 a result of somebody else driving under the
15 influence of cannabis?

16 A I don't have the exact number, because
17 what you're suggesting is that we know which
18 fatalities were caused by impairment with
19 marijuana as opposed to testing positive. The
20 data that I have seen would place that number
21 somewhere, I think, between 2,000 and 5,000
22 individuals.

23 Q Okay. And between 2022 and 2015 -- no,
24 between 2022 and 2012, would you agree that the
25 number of people who have been killed in a

1 accident involving somebody testing positive for
2 cannabis increased?

3 A I think there are increases in those
4 numbers.

5 MR. EVANS: Your Honor, if I may, could
6 I give my co counsel a note?

7 JUDGE JULIUS: Yes. Just make sure to
8 speak into the microphone, but --

9 MR. EVANS: Oh. Your Honor, if I may,
10 I would like permission to give my co counsel a
11 note.

12 JUDGE JULIUS: That's fine. Thank you.

13 BY MR. KENNEALLY:

14 Q What's your definition of "medicine"?

15 MS. MAN: Objection. Dr. Chiapperino
16 is not a medical doctor.

17 JUDGE JULIUS: Response to the
18 objection?

19 MR. KENNEALLY: Well, he's here to talk
20 about the fact that marijuana has a CAMU, which
21 has a medical application. I just want to know
22 what he thinks "medicine" is.

23 MS. MAN: Objection as to the question
24 being impermissibly broad and vague.

25 MR. KENNEALLY: I don't know how it --

1 I'll allow Your Honor to rule.

2 JUDGE JULIUS: I'll overrule the
3 objection. If he needs further parameters, he
4 can ask you to contextualize, if he needs, but
5 go ahead and ask the question.

6 MR. KENNEALLY: Thank you, Judge.

7 BY MR. KENNEALLY:

8 Q Doctor, what's your definition of
9 "medicine"?

10 A I would refer to the Food, Drug, and
11 Cosmetic Act definition of a drug to treat,
12 diagnose -- I'm not sure of the exact language
13 off the top of my head, but I think it is to
14 treat, diagnose -- I should know this, and I
15 apologize.

16 Q It's okay.

17 A But --

18 Q Can I try to help you out a little bit?

19 A Sure. Thank you.

20 Q Okay. Would you agree that it's
21 something that stops or prevents a medical
22 condition or a disorder?

23 A Prevents or heals, yes.

24 Q Okay.

25 A Yes.

1 Q And it can also --

2 A Treats a condition.

3 Q It can also be something that relieves
4 the symptoms --

5 A Yes.

6 Q -- of a medical condition or a
7 disorder?

8 A Yes.

9 Q Okay. Would you agree that pain is a
10 medical condition?

11 A Yes.

12 Q All right. And would you agree that at
13 some point in everybody's life they suffer from
14 pain?

15 A Speculative. There might be some lucky
16 people, but, yes, I do believe most people would
17 experience pain.

18 Q Okay. And your mental health and your
19 outlook can affect how people experience pain.
20 Is that correct?

21 MS. MAN: Objection. Outside the
22 bounds of his Touhy letter to speculate about
23 mental health and its effects.

24 JUDGE JULIUS: Counsel?

25 MR. KENNEALLY: He explicitly spoke

1 about pain, as well as the literature that
2 supports marijuana having an application with
3 respect to pain. I'd like to explore that. I'd
4 ask for a little bit of rope, Your Honor.

5 JUDGE JULIUS: I'll overrule the
6 objection. Thank you, Counsel.

7 THE WITNESS: Can you repeat the
8 question?

9 BY MR. KENNEALLY:

10 Q Would you agree that your mental health
11 or your outlook can affect how people experience
12 pain?

13 A How people experience pain based on
14 their mental health, I can't give you an answer
15 on that. I think it's possible, yes.

16 Q Will you turn with me to page 24 of the
17 HHS document, please?

18 A Yes, I'm there.

19 Q All right. And this is where you talk
20 about the CAMU test, part 1 and 2, correct?

21 A Yes.

22 Q All right. And I'm going to -- I'm on
23 24 in the middle.

24 A Mm hmm.

25 Q And I'm talking about part -- so part

1 2, right in the middle of the second paragraph
2 under the subheading Currently Accepted Medical
3 Use of Marijuana.

4 A Yes.

5 Q All right. Do you see the sentence
6 that starts with "Part 2 of the CAMU test
7 evaluated where -- whether there exists credible
8 scientific support for at least one of the
9 medical conditions for which part 1 test is
10 satisfied."

11 A Yes.

12 Q Do you see that sentence?

13 A Yes.

14 Q Okay. So that's -- that's part 2 of
15 the CAMU test.

16 A Correct.

17 Q All right. And you're trying to figure
18 out whether or not there's credible medical
19 evidence to support that.

20 A Credible scientific support, yes.

21 Q All right. And now would you turn with
22 me to page 25?

23 A I'm there.

24 Q All right. Now, there's a way to
25 evaluate whether or not the medical support is

1 credible. There's factors that you're supposed
2 to consider, correct?

3 A Correct.

4 Q Okay. And I'm in the second full
5 paragraph. It states, "In evaluating whether
6 there exists some credible scientific support
7 under part 2 of the CAMU test for a particular
8 use, factors considered in favor of a positive
9 finding included: number 1, favorable clinical
10 studies of the medical use of marijuana,
11 although not necessarily adequate and well
12 controlled clinical studies, that would support
13 approval of an NDA, have been published in peer
14 reviewed journals," correct?

15 A Yes.

16 Q Okay. So in order to qualify under
17 that first factor as credible scientific
18 support, it has to be favorable, and favorable
19 in that it has some sort of medical application.

20 It either prevents the disorder, stops the
21 disorder, alleviates the symptoms. Is that
22 correct?

23 A Yes.

24 Q Okay. And it says -- it says
25 "favorable clinical studies." Can one study do

1 it or do you need two studies?

2 A That's a loaded question right now
3 because FDA has recently discussed guidance of
4 moving from a two-pivotal-trial standard to a
5 one pivotal trial. I would say that you need --
6 I think it is always better to have replicated
7 results of a clinical trial.

8 Q But in order to satisfy this test, do
9 you need one clinical trial or do you need two?

10 A You don't need two because the standard
11 for the test is not a finding of safety and
12 efficacy. It's credible scientific support.

13 Q Okay. So one study would do it.

14 A Yes.

15 Q Okay. So it has to be favorable. It
16 has to be clinical. And what does "clinical"
17 mean?

18 A A study in humans.

19 Q Okay. So just studying humans, not like
20 an in vitro study, not a study of rats, right?

21 A Correct.

22 Q Okay. And it needs to be published in
23 a scientific journal, correct?

24 A Yes.

25 Q Okay. So it doesn't have to be

1 adequate under this test.

2 A We focused on randomized clinical
3 trials, which means there is a control group.
4 "Adequate" gets more at the size of the study
5 and other design features. It did not have to
6 be a large trial.

7 Q Okay. The language here says it
8 doesn't have to be adequate. Is that correct?

9 A Correct.

10 Q Okay. And the language here says it
11 doesn't have to be well controlled. Is that
12 correct?

13 A You -- I think I would read the full
14 sentence there. "Although not necessarily
15 adequate and well controlled clinical studies
16 that would support approval of an NDA." I think
17 the phrase is intended to use the entire phrase
18 used to describe a clinical study that would
19 support an NDA.

20 Q So it doesn't have to --

21 A I wouldn't separate that out as it
22 doesn't have to be adequate and it doesn't have
23 to be controlled. We did focus on controlled
24 trials, regardless of how you're interpreting
25 that sentence.

1 Q Okay. But I -- I'm just talking about
2 this sentence. Okay? And under this sentence
3 it says, "It does not necessarily have to be
4 adequate and well controlled clinical studies."

5 Am I reading that correct?

6 A Grammatically, you are reading it
7 correct.

8 Q Okay. Thank you. It doesn't have to
9 be repeatable, correct?

10 A Correct.

11 Q Okay.

12 A There might only be a couple of
13 studies. If one was positive and one was not,
14 we would still consider the results in the first
15 study.

16 Q Can we -- so -- and when -- and when
17 we're talking about well controlled, we're
18 talking about it has a placebo. Is that -- is
19 that one of the ways that you control --

20 A It has a comparator group. It could be
21 an active comparator or a placebo. Most of them
22 were placebo studies --

23 Q Okay.

24 A -- for control.

25 Q All right. Now, when you have a

1 placebo study and you're dealing with Delta 9
2 THC, right, generally what happens is you're
3 comparing -- you give somebody Delta 9 THC,
4 correct?

5 A Mm hmm.

6 Q And then you compare it to not giving
7 somebody Delta 9 THC.

8 A Correct.

9 Q Okay. Do you see -- well, let me ask
10 this question. When you're given Delta 9 THC,
11 you know you're given Delta 9 THC because it has
12 an effect on your cognition, right?

13 A Depending on the dose, yes.

14 Q Okay.

15 A It could.

16 Q Well, what --

17 A A lot of therapeutic doses are
18 subtherapeutic for -- for inducing euphoria and
19 other effects associated with marijuana.

20 Q Okay. But one of the effects of Delta
21 9 THC is that it has an effect on your
22 cognition, correct?

23 A Yes.

24 Q And one of the effects of Delta 9 THC
25 is that it creates euphoria, correct?

1 A Yes.

2 Q And that's something that you can feel,
3 correct?

4 A At a -- at a certain dose, yes.

5 Q Okay. Now, did every study that you
6 considered as part of your CAMU, was it a
7 subtherapeutic dose such that you could not feel
8 the euphoric effects? Is that what you're
9 saying?

10 A No. The doses in these studies were
11 wide ranging, as low as 2 milligrams, and I
12 think up as high as 80 milligrams, which should
13 certainly be a CNS intoxicating dose.

14 Q In fact, about 5 milligrams is
15 generally what could get you high.

16 A I would consider that a low dose as to
17 what could get you high. But, yes, some people
18 might feel effects at 5 milligrams.

19 Q And some people might feel effects at 2
20 milligrams.

21 A Rarely.

22 Q Okay. And you would agree with me that
23 there's something called the "placebo effect"?

24 A Yes.

25 Q So if you know you're getting a

1 medication, there's an expectation that you're
2 going to feel better, and a lot of times you
3 feel better even though there's no actual effect
4 that the drug is having, correct?

5 A Yes.

6 Q Now, grammatically, under this test,
7 the study, the clinical study, doesn't have to
8 be well designed, correct?

9 A Well, that would certainly count
10 against it when we consider quality of evidence.

11 Q But I'm not -- I'm not talking about
12 what you did. I'm talking about the test here
13 itself. Grammatically, under this test, there's
14 no requirement that the study be well designed,
15 correct?

16 A I disagree with the way you're
17 characterizing it. We are going to consider the
18 quality of a trial. If you want to parse the
19 language we used in this paragraph, I'll allow
20 that grammatically it may read as though we're
21 not concerned about the quality.

22 Q Well, I'm just talking about the
23 requirement.

24 A Yeah.

25 Q So there's no requirement in this study

1 that the study -- that the clinical trial be
2 well designed.

3 A There's no requirement to include the
4 study in the analysis.

5 Q Okay.

6 A Yeah.

7 Q And anywhere else in this document or
8 the July document, did you --

9 A Mm hmm.

10 Q -- elaborate on all of the other
11 requirements that satisfy clinical trials and
12 other things that the -- and other factors the
13 clinical trials had to meet?

14 A I think the CAMU part 2 document and
15 the supporting documents that we got as a report
16 from the University of Florida, I think there is
17 -- there is a lot of discussion about the
18 quality of the studies or what might be wrong
19 about the studies that led to a low quality of
20 evidence or lower quality of evidence.

21 Q But you and I seem to be talking past
22 each other.

23 A Yeah.

24 Q I'm not talking about what you did.

25 A Yeah.

1 Q Okay?

2 A Okay.

3 Q And I'm not talking about the
4 responsibility that you took on for your group.
5 I'm talking about the CAMU test generally that
6 you used, okay?

7 A Generally, okay.

8 Q Okay. That's what I'm talking about.
9 And so -- and under the test --

10 A Uh huh.

11 Q -- there's no requirement that the
12 clinical study, in order to be considered, be
13 well designed. That's my question.

14 A I answered that. Yes. Yeah.

15 Q Okay. There's no requirement under the
16 CAMU test that the clinical trial has to have
17 been done recently, correct?

18 A Not as written in that paragraph. We
19 did have a date cutoff for our analysis, though.
20 It had to be -- I don't know the exact date,
21 but I think it was in 2010 or later.

22 Q Okay. But under the CAMU test as it
23 was provided to you --

24 A Yeah.

25 Q -- and that you were directed to follow

1 --

2 A Mm hmm.

3 Q -- you independently made the decision
4 to do a cutoff test in 2010, but there's no
5 requirement under the CAMU test itself. Would
6 you agree with that?

7 A Yes. I would agree that as written
8 here it doesn't cover those details.

9 Q Okay. And the clinical trial under the
10 CAMU test here, it doesn't have to have a
11 specific sample size.

12 A No, it doesn't.

13 Q All right. And it has to be published
14 in a medical journal, correct?

15 A I think that was a criteria, yes.

16 Q Any medical journal will do.

17 A Yes. The -- the goal is that it's
18 publicly available, yes.

19 Q Now the second factor is the -- the
20 second factor that weighs in favor of part 2 of
21 the CAMU --

22 A Mm hmm.

23 Q -- is a qualified expert organization,
24 e.g., academic groups, peer review journals
25 and/or qualified -- excuse me, academic groups,

1 professional societies, or government agencies
2 have opined in favor of medical use or provided
3 guidance to HCPs. Is that healthcare
4 professionals?

5 A Yes.

6 Q Okay. HCPs on the medical use.

7 A Or practitioners. I'm sorry. It's
8 healthcare practitioners, I think.

9 Q Okay. Who decides whether or not the
10 organization is qualified? Is that you?

11 A I'm sorry. So you're talking about the
12 phrasing "academic groups, professional
13 societies, or government agencies"?

14 Q Well, it says --

15 A Professional societies. That's what
16 you're talking about, professional?

17 Q So I'm looking at number 2. It says,
18 "Qualified expert organizations," and it gives a
19 few examples of what --

20 A Oh.

21 Q -- could be qualified --

22 A I see. Yeah.

23 Q Okay. So who decides whether or not
24 the organizations are qualified and expert? Is
25 that you?

1 A I think the team, yes.

2 Q Okay. So the people making the
3 rescheduling decision are the ones who make the
4 determination as to whether or not the
5 organization is qualified and expert. Is that
6 correct?

7 A We're not deciding that they are
8 qualified. We are -- we are basing it on them
9 being well known medical associations for a
10 certain clinical specialty, such as the American
11 Psychiatric Association. Within the states,
12 there might be a medical board that determines -
13 - that makes decisions regarding practice of
14 medicine in the state. These would be well
15 known government health departments or
16 professional societies that are well known for
17 that specialty.

18 Q And the people making the determination
19 of whether or not they're qualified, well known,
20 sufficient, that's you and your team. Is that
21 correct?

22 A The team is choosing which
23 organizations.

24 Q Okay. And they could be professional
25 societies. Is that correct?

1 A Yes.

2 Q Okay. And, again, focusing on the test

3 --

4 A Mm hmm.

5 Q -- and the language --

6 A Mm hmm.

7 Q -- there's no requirement that one of
8 these professional organizations not have a
9 vested interest in the scheduling decision. Is
10 that correct?

11 A I don't actually know what societies
12 have to declare in terms of their conflicts of
13 interest, so I can't really answer that
14 question.

15 Q I'm just talking about the language.
16 There's no requirement in the language that the
17 expert organization not have a vested interest
18 in the rescheduling decision. Is that correct?

19 A Correct.

20 Q And it can be a professional society.

21 A That's what the words say, yes.

22 Q And a professional society in support
23 of an industry, correct?

24 A Not necessarily an industry. In the
25 treatment of a disease condition, they might be

1 focused on making -- on the science and medicine
2 associated with treating their specialty
3 condition.

4 Q But it -- and is there any requirement
5 that it's limited to that?

6 A No. But we do have in our CAMU part 2
7 document the actual organizations that we used
8 and their views, and most of them were not
9 favoring marijuana as medicine, so --

10 Q And it says that they had to have
11 opined. Do they need to currently be opining as
12 to a medical application for cannabis, or could
13 they have opined in the past?

14 A If they have a published position that
15 is still in effect. Many of these have been
16 positions that they've held for years, but they
17 might still be in effect, we would assume, if
18 they're still on their websites.

19 Q Okay. And if that decision has been
20 overturned by a subsequent rule, or if they no
21 longer hold the position but didn't necessarily
22 make a formal edict with respect to overturning
23 the decision, would that still count?

24 A Can you repeat that?

25 Q Sure. So there's a lot of

1 organizations that make determinations, and some
2 of those determinations can go stale. Would you
3 agree with that?

4 A That's speculative. I mean, you'd have
5 to give me some examples. I assume that things
6 change over time with science and medical
7 advances. They might have to change their views
8 on what is the best treatment for a disease
9 based on new therapies being available. So I
10 assume, yes, there's room for change.

11 Q Do you agree that -- that alcohol has
12 an analgesic effect?

13 A I cannot agree to that. I don't know
14 the science of alcohol with respect to reducing
15 pain condition.

16 Q Would you agree that there's clinical
17 trials in favor of alcohol having an analgesic
18 effect?

19 A Excuse me?

20 MS. MAN: Objection. Calls -- this is
21 outside the scope of what was --

22 MR. KENNEALLY: I'll rephrase.

23 MS. MAN: -- what went into the test.
24 Thank you.

25 MR. KENNEALLY: I'll rephrase.

1 BY MR. KENNEALLY:

2 Q Are you aware, yourself, of any
3 clinical trials that have found that alcohol has
4 an analgesic effect?

5 MS. MAN: Objection as to relevance.

6 JUDGE JULIUS: Counsel?

7 MR. KENNEALLY: Can I ask a few follow
8 up questions, Judge, to lay the foundation?

9 JUDGE JULIUS: I'll allow that, yes.

10 MR. KENNEALLY: Thank you.

11 BY MR. KENNEALLY:

12 Q As part of your evaluation, did you
13 compare alcohol to marijuana? Was alcohol one
14 of the comparator substances?

15 A In abuse related harms, yes.

16 Q Okay. So would you agree with me that
17 -- okay. So would you agree with me that
18 alcohol has an analgesic effect?

19 MS. MAN: Objection. Asked and
20 answered.

21 THE WITNESS: I don't know.

22 JUDGE JULIUS: Yeah. Just remember to
23 wait --

24 THE WITNESS: Sorry. Sorry.

25 JUDGE JULIUS: -- when there's an

1 objection.

2 MS. MAN: Dr. Chiapperino previously
3 said he didn't know.

4 JUDGE JULIUS: Yeah. I mean, his
5 answer was that alcohol was used as a comparator
6 for some purposes. I don't know that he
7 testified that it was used as a comparator for
8 medical or analgesic.

9 MR. KENNEALLY: Judge, I'm trying to
10 get at the sufficiency of the test as well as
11 the analysis through analogy. And so I'd just
12 like to explore this line of questions. And
13 we've -- and we've talked about pain as part of
14 this entire -- I mean, that was a feature of the
15 Government's case. I think they've opened the
16 door to it.

17 MS. MAN: That's pain, but what the
18 question was, was alcohol an analgesic or
19 analgesic effect. And Dr. Chiapperino said he
20 did not know about the exact science behind
21 alcohol, which is why I started objecting to the
22 alcohol by itself questions. If it's questions
23 about the comparators, that's a different
24 question, but alcohol alone, he's already
25 answered that he does not know the science

1 behind alcohol.

2 JUDGE JULIUS: He did give that answer,
3 but I'll allow you to ask the question. I --

4 MR. KENNEALLY: Thank you, Judge.

5 BY MR. KENNEALLY:

6 Q Doctor, are you aware of any clinical
7 evidence showing that alcohol has an analgesic
8 effect?

9 A No.

10 Q Okay. Have you ever read the study
11 Thompson, et al., 2017, Analgesic Effects of
12 Alcohol: A Systematic Review and Meta Analysis
13 of Controlled Experiment Studies in Healthy
14 Participants? It's published in the Journal of
15 Pain, and it pooled 18 controlled experiments,
16 and it shows that a mean blood alcohol content
17 of about 0.08 produced a small elevation of pain
18 threshold, and increasing BAC produced
19 increasing analgesia with each 0.2 increment,
20 raising the effect size of pain threshold and
21 reducing pain intensity further. Have you ever
22 read that study?

23 MS. MAN: Objection. This is outside
24 the bounds of the Touhy unless it's referenced
25 in any of his analysis. And, also, he is

1 treating Dr. Chiapperino like an expert witness.
2 Dr. Chiapperino is here as a fact witness, not
3 an expert witness.

4 JUDGE JULIUS: Understood. I
5 understand that he is here as a fact witness. I
6 think if you want to ask if that was
7 incorporated in the evaluation and the
8 recommendation, that might be permissible. I
9 think the way that you phrased the question is
10 outside the scope of the Touhy letter. I pulled
11 it up and I'm looking at -- at what's allowed.
12 If you want to ask about what went into the
13 recommendation, that may be a different line of
14 inquiry.

15 BY MR. KENNEALLY:

16 Q Did you consider that study as part of
17 your eight part analysis in this case?

18 A We did not.

19 Q Okay. Would you agree with me that
20 heroin, which is another Schedule I drug, would
21 you agree that that has an analgesic effect?
22 "Analgesic" meaning it reduces pain.

23 MS. MAN: Objection. It's outside the
24 bounds of this Touhy unless it was used as part
25 of the comparator analysis, and that's what he

1 wants to get into.

2 JUDGE JULIUS: Counsel?

3 MR. KENNEALLY: Well, it's a
4 comparator, Judge. And, again, I'm trying to
5 get to the sufficiency of the test by way of
6 analogy. They've talked about pain. I'd like
7 to go through whether or not, in this case, a
8 consideration that -- that what exactly is the
9 deciding factor in this CAMU test, as well as
10 factors 1 and 2, and so to compare, as he's done
11 in his testing, marijuana to some of the other
12 drugs as it relates to the CAMU test.

13 MS. MAN: Your Honor, I'd like to be
14 heard briefly.

15 JUDGE JULIUS: Go ahead.

16 MS. MAN: Dr. Chiapperino testified
17 that heroin was a comparator for other
18 categories, not the analgesic effect. And
19 that's where I think we're splitting hairs,
20 where if there are other comparators for other
21 categories that aren't mentioned here, heroin
22 wasn't used as a comparator for analgesics. It
23 was for relative abuse and relative abuse
24 potential and, I think, harms, but not for
25 analgesic effect. And that's where I think

1 we're getting into dangerous territory, and it
2 is outside the bounds of the Touhy letter.

3 JUDGE JULIUS: Sir?

4 MR. KENNEALLY: Judge, understanding
5 how pain was considered as part of the CAMU
6 test, one of the things that we can do is we can
7 look at how they did marijuana, and then we can
8 compare it to other drugs. I'd ask for a little
9 bit of leeway just around this question. I only
10 have three or four questions that relate to
11 heroin. I think it goes to the sufficiency of
12 the CAMU test by way of analogy.

13 JUDGE JULIUS: I don't know that that
14 logic follows. I think it depends on how the
15 comparators were used. So I'll sustain the
16 objection for now.

17 I'll ask a question just so that we're
18 clear. If you could please explain how the
19 comparators were used in your recommendation and
20 analysis --

21 THE WITNESS: Yes.

22 JUDGE JULIUS: -- for what purposes and
23 what purposes they were not used for.

24 THE WITNESS: Happy to. So counsel is
25 correct that a substance like heroin and a

1 substance like alcohol are part of the abuse
2 related harms analysis we did. The currently
3 accepted medical use has no requirement for a
4 comparative finding among the other drugs being
5 evaluated or being used in the comparative
6 analyses of abuse liability.

7 So, no, we did not look at any studies
8 to see if marijuana had a better or worse effect
9 than other substances. Their ability to treat a
10 disease condition was never a question in this
11 drug evaluation.

12 MR. KENNEALLY: Judge, I would just ask
13 to make an offer of proof at this time.

14 JUDGE JULIUS: And what is that?

15 MR. KENNEALLY: May I do so?

16 JUDGE JULIUS: Yes.

17 MR. KENNEALLY: Okay. And may I make
18 an offer of proof in terms of my questioning of
19 the doctor?

20 JUDGE JULIUS: You can offer it. We'll
21 see where it goes from there.

22 MR. KENNEALLY: Okay. Well, I -- okay.

23 BY MR. KENNEALLY:

24 Q Doctor, would you agree with me that
25 heroin is another Schedule I drug, correct?

1 A Yes.

2 Q Okay. And would you agree with me that
3 there's clear clinical evidence that heroin
4 treats pain short term very effectively? You
5 don't dispute that, correct?

6 MS. MAN: Objection. Outside the
7 bounds of Touhy.

8 MR. KENNEALLY: This is my offer of
9 proof, Your Honor.

10 JUDGE JULIUS: Well, it's also -- it is
11 outside the scope of Touhy, if it wasn't part of
12 the analysis. If that wasn't how the comparator
13 was used, it would be outside the scope of the
14 Touhy authorization.

15 MR. KENNEALLY: And I'm asking to make
16 an offer of proof in view of the fact that the
17 objection has been sustained.

18 JUDGE JULIUS: I mean, I -- I don't
19 know how you're going to get him to answer
20 questions that are beyond the scope of his Touhy
21 authorization.

22 MR. KENNEALLY: We don't think it is,
23 Your Honor, and we respectfully disagree. I'd
24 like to make a record with respect to the limits
25 of --

1 JUDGE JULIUS: Okay.

2 MR. KENNEALLY: -- cross examination in
3 this hearing.

4 JUDGE JULIUS: Okay.

5 MR. KENNEALLY: And as a result of
6 that, I'd like to make an offer of proof.

7 JUDGE JULIUS: Understood.

8 MR. KENNEALLY: Okay?

9 JUDGE JULIUS: Okay.

10 BY MR. KENNEALLY:

11 Q All right. So you would agree with me
12 that there's clear clinical evidence that heroin
13 treats pain short term very effectively.

14 MS. MAN: Objection.

15 JUDGE JULIUS: Basis?

16 MS. MAN: It is outside the bounds of
17 Touhy, and also objection on the grounds of
18 relevance, especially when it comes to the
19 rescheduling of marijuana. What heroin's
20 effects are when it comes to treating chronic
21 pain, unless it went into the eight factor or
22 the HHS recommendation, is, number 1, not
23 relevant, and, number 2, outside the bounds of
24 Dr. Chiapperino's Touhy letter.

25 JUDGE JULIUS: I'll sustain that

1 objection.

2 MR. KENNEALLY: Okay.

3 JUDGE JULIUS: Go ahead.

4 MR. KENNEALLY: And I -- and I
5 understand the objection has been sustained. So
6 what I'm trying to do is to make a record.

7 JUDGE JULIUS: Understood.

8 MR. KENNEALLY: And so at this point --
9 okay. All right.

10 BY MR. KENNEALLY:

11 Q So, Doctor, you would agree with me
12 that there's clear clinical evidence that heroin
13 treats pain short term very effectively. Would
14 you agree with that?

15 MS. MAN: Objection.

16 JUDGE JULIUS: Basis?

17 MS. MAN: Same basis as before. I'll
18 make it again. I understand counsel is trying
19 to make his record, but I cannot allow the
20 witness to answer if you ask the same question
21 and the objection was previously sustained.

22 The effects of heroin on chronic pain
23 are outside the bounds of this hearing, so
24 there's a question -- an objection of relevance.

25 It's also outside the bounds of Dr.

1 Chiapperino's Touhy letter because, unless
2 heroin to treat the use of chronic pain was
3 factored into his eight factor analysis or the
4 HHS recommendation, it's outside the bounds of
5 what he's permitted to testify about.

6 So if counsel persists in asking the
7 same question again, I will be forced to make
8 the same objection again for the record.

9 JUDGE JULIUS: Understood. And I'll
10 sustain the objection.

11 MR. KENNEALLY: Okay. And at this
12 point, Judge, in order to establish my record, I
13 understand the objection has been made.

14 JUDGE JULIUS: Mm hmm.

15 MR. KENNEALLY: I understand the
16 objection has been sustained. At this time, I'd
17 like to make an offer of proof asking the
18 witness to answer the question, so that we can
19 get it on the record, and Your Honor can
20 consider, after we've done that, whether or not
21 the objection still holds.

22 I'd also like to preserve these answers
23 because if I don't preserve these answers on the
24 record, there's -- and the -- and if the
25 reviewing court isn't able to see what the

1 answers are and determine their relevance, we're
2 not going to be able to sufficiently preserve
3 the issue for review.

4 JUDGE JULIUS: I understand. But I
5 also understand that the witness has limits on
6 what he's allowed to answer, so I'm not sure
7 where this is going. I mean, you can ask the
8 questions, and there's an objection, but if he's
9 not allowed to answer and he's going to go
10 beyond the scope of the Touhy, then we're
11 running into a very serious problem.

12 MR. KENNEALLY: We would ask to
13 preserve that issue --

14 JUDGE JULIUS: Okay.

15 MR. KENNEALLY: -- for appeal. So
16 that's -- that's all we're trying to do is I
17 agree -- is that, as of this time, I understand
18 counsel's objection. I understand that what the
19 answers to this question are will not be made
20 part of the record for purposes of this hearing.

21 JUDGE JULIUS: Okay.

22 MR. KENNEALLY: But they will be made
23 part of the record, so that it can be reviewed,
24 Your Honor. That's all I'm trying to do.

25 MS. MAN: And, Your Honor, the

1 Government's response is that Dr. Chiapperino
2 cannot answer that question. So I'm not sure
3 how an order of proof -- an offer of an order of
4 proof is going to prompt the witness to give an
5 answer that he cannot legally give.

6 And so the witness's answer is not
7 going to be preserved for appeal because the
8 witness cannot answer. So I'm a little confused
9 by counsel's motion and how he expects to get an
10 actual answer out of the witness when that
11 objection has been sustained.

12 MR. KENNEALLY: Judge, whether or not
13 the witness can answer a question is a legal
14 determination that you make. We respectfully
15 disagree with that legal determination. It's
16 also a legal determination that's subject to
17 review.

18 If I'm not able to establish -- if I'm
19 not able to discuss with the doctor what exactly
20 it is that's being objected to, and sustained,
21 and not made part of the record, we're not going
22 to be able to get it to be able to be reviewed,
23 irrespective of Your Honor's decision and
24 irrespective of the fact that Your Honor may
25 sustain the objection for purposes of this

1 hearing.

2 JUDGE JULIUS: I have the same concerns
3 as Government counsel. I don't understand how
4 he's going to be allowed to give answers that
5 are beyond the scope of his -- I understand we
6 may be -- we may be talking past each other at
7 this point.

8 Again, as I read the Touhy letter, if
9 it's not part of the analysis and the
10 recommendation, and that's not how these things
11 were used, I don't see how he would be
12 authorized to give these answers.

13 MR. KENNEALLY: Which would - and I --
14 I don't want to belabor the point, Your Honor,
15 but -- and I guess what I'm saying is that's a
16 determination that you're -- that's an
17 evidentiary and a legal determination that
18 you're making that's subject to review.

19 JUDGE JULIUS: I understand that.

20 MR. KENNEALLY: The reviewing court is
21 not going to be able to sufficiently review that
22 unless they're able to see what the evidence is
23 that's being excluded.

24 JUDGE JULIUS: Well, he explained how
25 the comparators were used, and my understanding

1 of your question is getting at things that are
2 outside of how he explained that the comparators
3 were used. Am I missing something here?

4 MR. KENNEALLY: What I'm trying to get
5 at is, by analogy, the sufficiency of the CAMU
6 test. So one of the things that Your Honor is
7 considering is whether or not the CAMU test is
8 sufficient. What I'm trying to get at is the
9 fact that essentially any Schedule I drug would
10 pass the CAMU test, such that it's no - such
11 that it's no test at all.

12 So I'd like to discuss -- so by way of
13 analogy, I'd like to discuss other comparator
14 Schedule I drugs and run through the analysis
15 with the doctor in order to establish that we're
16 not really dealing with a sufficient or adequate
17 test or a sufficient or adequate analysis, Your
18 Honor.

19 MS. MAN: Your Honor, may I respond?

20 JUDGE JULIUS: Go ahead, Counsel.

21 MS. MAN: Government's Exhibit 4 is the
22 OLC opinion, which has already -- is binding
23 upon the Department that states that the part 2
24 test is legally sufficient. The issue before
25 the Court, with all due respect, is not the

1 sufficiency of the two part test. And that's
2 what counsel is trying to argue by analogy,
3 other -- analogy, a roundabout way, that I'm not
4 quite sure I quite understand.

5 But the sufficiency of the two part
6 test is not the issue before the Court today.
7 The OLC opinion is binding on the Department
8 that the two part test is legally sound and
9 sufficient. And that's also not an opinion that
10 Dr. Chiapperino can opine on, the sufficiency of
11 the two part CAMU test. That is outside the
12 bounds of his Touhy and has been established by
13 OLC opinion that it's binding.

14 JUDGE JULIUS: Counsel?

15 MR. KENNEALLY: Judge, I'm getting to
16 the sufficiency of his analysis under the CAMU
17 test.

18 JUDGE JULIUS: Well, I understand that
19 you can ask questions regarding the sufficiency
20 of the analysis, but as I understood your
21 question, you're asking about a hypothetical of
22 another substance, not the substance he actually
23 was analyzing and making a recommendation for
24 rescheduling on. So that would not be -- unless
25 he acknowledges or answers that that was part of

1 the analysis, I don't know how he can opine on
2 the question that you -- that I understood you
3 to be asking.

4 MR. KENNEALLY: Judge, I have no
5 further questions.

6 JUDGE JULIUS: Okay. Thank you,
7 Counsel.

8 MR. McNICHOLS: May I take the podium?

9 JUDGE JULIUS: Yes, please. And you
10 are taking it on behalf of the opposing states
11 at this time?

12 MR. McNICHOLS: At first, Your Honor.

13 JUDGE JULIUS: Okay. And those are
14 Nebraska, Idaho, and Indiana, correct?

15 MR. McNICHOLS: That's correct.

16 JUDGE JULIUS: Okay.

17 MR. McNICHOLS: We have some -- a
18 binder of documents that may -- we may use with
19 Dr. Chiapperino during the course of this
20 examination.

21 JUDGE JULIUS: Okay.

22 MR. McNICHOLS: We have a copy for the
23 Court, as well as one for Government counsel,
24 and one for the witness.

25 CROSS-EXAMINATION

1 BY MR. McNICHOLS:

2 Q Good morning, sir.

3 A Good morning.

4 Q My name is John McNichols, and I'm here
5 on behalf of the opposed states of Nebraska,
6 Idaho, and Indiana. One of the points you made
7 in your report was that this particular eight
8 factor analysis that you did that provides the
9 basis for this rescheduling was, in fact, the
10 fourth one the FDA has done since the year 2000.

11 Is that correct?

12 A Yes.

13 Q And the most recent one was the one
14 that you did in 2015. Is that correct?

15 A Correct.

16 Q And in the 2015 eight factor analysis
17 that FDA did, and in the previous one as well,
18 the FDA concluded that marijuana should remain
19 in Schedule I, correct?

20 A Correct.

21 Q And in concluding so, the FDA concluded
22 in 2015 that marijuana had a high potential for
23 abuse, correct?

24 A Yes.

25 Q And in 2015, the FDA also concluded

1 that marijuana did not have a currently accepted
2 medical use, correct?

3 A Correct.

4 Q And the FDA also concluded that
5 marijuana could not be used safely under medical
6 supervision, correct?

7 A Correct.

8 Q And in 2023, in the eight factor
9 analysis that you supervised, the FDA reversed
10 its position as to all three findings, correct?

11 A Correct.

12 Q Is that correct?

13 A Yes, correct.

14 Q Now, Doctor, am I correct that since
15 2015 and the previous eight factor analysis,
16 that the number of FDA approved botanical
17 products is zero, correct?

18 A Yes.

19 Q Is that yes?

20 A Yes. I'm sorry. I don't think the
21 microphone is picking up my voice. How about
22 this? Yes.

23 Q Thank you, sir.

24 JUDGE JULIUS: It sounds like the court
25 reporter can hear him, but I do acknowledge that

1 sometimes it sounds like it's not broadcasting
2 throughout, so just let him know if you have a
3 difficult time hearing him.

4 MR. McNICHOLS: Yes, Your Honor.

5 JUDGE JULIUS: Thank you.

6 BY MR. McNICHOLS:

7 Q And since 2015, when FDA concluded that
8 marijuana had a high risk of abuse, the
9 prevalence of non medical marijuana use in the
10 United States has gone up, correct?

11 A Yes.

12 Q And since 2015, when FDA concluded that
13 marijuana had a high risk of abuse, the number
14 of emergency department visits involving
15 marijuana disorder has gone up, correct?

16 A I think the NEDS data does capture as
17 far back as 2015. I would say yes.

18 Q And since 2015, when the FDA concluded
19 that marijuana had a high risk of abuse, the
20 number of marijuana disorder hospitalizations
21 has gone up, correct?

22 A I think that is correct.

23 Q And since 2015, when the FDA concluded
24 that marijuana had a high risk of abuse, the
25 potency of marijuana has also gone up, correct?

1 A Yes.

2 Q Now, one difference between the 2015
3 eight factor analysis that FDA prepared and the
4 one that you supervised in 2023 was the new test
5 for the criterion of currently accepted medical
6 use, correct?

7 A Correct.

8 Q And having a currently accepted medical
9 use is a prerequisite to get a drug out of
10 Schedule I into one of the other schedules,
11 correct?

12 A I would agree, yeah.

13 Q Okay. And you used a two part test in
14 2023, but the FDA used a five part test in 2015,
15 correct?

16 A Yes.

17 Q And this came up a little bit yesterday
18 in your examination by Ms. Man, but I think you
19 said there are three ways that you can establish
20 that a substance has a currently accepted
21 medical use. Is that correct?

22 A Yes.

23 Q The first way is, of course, to get FDA
24 approval of the drug, correct?

25 A Yes.

1 Q The second way is to pass the five
2 factor test, correct?

3 A Yes.

4 Q And the third way is to pass the two
5 factor test, correct?

6 A Correct.

7 Q And I think you said also yesterday
8 that the five factor test, or the five point
9 test, as you put it, actually resembles the test
10 that the FDA applies to approve a drug for
11 prescription use, correct?

12 A Two of the five elements are safety and
13 efficacy, and I think they are consistent more
14 with the FDA approval standard of safety and
15 efficacy.

16 Q Okay. And the two part test that you
17 applied in 2023, for example, does not require a
18 showing of reproducible chemistry, correct?

19 A Correct.

20 Q And that is a part of the five part
21 test, correct?

22 A It would be, yes.

23 Q Okay. The two part test that you
24 applied in 2023 does not require a showing of
25 acceptance of a group of experts, correct?

1 A Can you repeat that?

2 Q The two part test that you applied in
3 2023 does not require as a condition to show a
4 currently accepted medical use that the use of
5 the drug for a particular indication is accepted
6 by a body of experts.

7 A Correct. In the five point test, every
8 one of the five elements must be demonstrated.

9 Q Correct. And one of those five
10 elements under the five part test is the
11 acceptance by the body of experts --

12 A Yes.

13 Q -- in that particular indication,
14 correct?

15 A Yes.

16 Q Okay. And so you -- and you would
17 agree with me, sir -- I think you've covered
18 this already -- that passing the two part test
19 that you applied in 2023 does not mean that a
20 drug is safe or effective for FDA approval,
21 correct?

22 A Yes.

23 Q The two part test that you applied in
24 2023 is not as rigorous a test as the five part
25 test, correct?

1 A Part 2 of the two part test is not as
2 rigorous in the standard of evidence, yes.

3 Q Now, the two part test that you applied
4 in your eight factor analysis was -- I think you
5 testified yesterday that it was developed in
6 2023. Is that correct?

7 A Yes.

8 Q And you started the eight factor
9 analysis that you did on marijuana, I think you
10 said yesterday, in October or November of 2022.
11 Is that correct?

12 A Yes.

13 Q Am I right, then, that by your
14 chronology, sir, the two part test that you
15 applied in your eight factor analysis did not
16 exist at the time when you started work on this
17 project, correct?

18 A Correct.

19 Q When were you informed that you would
20 be using the two part test?

21 A Formally, the letter arrived in July of
22 2023. That's on the record in the exhibit.

23 Q And if you started your work in October
24 or November of 2022, do I understand correctly
25 that when you first started on this project, you

1 were working under the five part test, correct?

2 A I don't think I could answer your
3 questions in this matter because in order to do
4 so I'd have to be discussing communications
5 among HHS agencies, and they're not documented
6 in the exhibit.

7 Q Let me ask you a question that follows
8 up on a question you got yesterday, sir.

9 A Yeah.

10 Q When Ms. Man asked you which of the
11 tests that you applied --

12 A Yeah.

13 Q -- you said, "We were directed to use
14 the two part test." Do you recall that
15 testimony, sir?

16 A Yes.

17 Q Who directed you to use the two part
18 test?

19 A The Assistant Secretary for Health.

20 Q You mentioned July 2023 a moment ago.

21 A Mm hmm.

22 Q But when were you given the direction
23 to use the two part test?

24 A As I said, the formal communication was
25 in July.

1 Q Which was, again, roughly three months
2 before you finished your work?

3 A More like two months.

4 Q Most of the work that you did to
5 analyze marijuana for this rescheduling was done
6 before you were told about this two part test.

7 A The two part test was developed by HHS
8 in 2023 over a period of months. The letter in
9 July is the culmination of their formalizing
10 their request that we use that test.

11 Q Most of the work that you did analyzing
12 marijuana for purposes of this rescheduling was
13 done before you were formally told --

14 A Mm hmm.

15 Q -- to use the two part test, correct?

16 A Yes.

17 Q What test were you using before you
18 were formally told to use the two part test?

19 A We were analyzing the -- the clinical
20 literature, which could have served purposes
21 under either the five point test or the two part
22 test.

23 Q Now, since 2023, when you completed
24 your evaluation of marijuana, have you used the
25 five point -- five part/five point test to

1 evaluate other drugs?

2 A We have applied that test, yes.

3 Q And I believe you testified about this
4 yesterday on Mr. Kenneally's examination, but I
5 think you said that you try to be consistent --

6 A Mm hmm.

7 Q -- in the content of each drug
8 evaluation. Is that correct?

9 A Correct.

10 Q Is that correct?

11 A Yes.

12 Q I don't think it picked you up, sir.

13 A Yeah. Sorry.

14 Q It's all right. Now, since 2023, have
15 you used the five part test in all other
16 evaluations of drugs that you've used?

17 A Yes. The -- the process that we try to
18 be consistent with is to make sure that we've
19 considered any of the three tests that could
20 lead to a finding. So in the absence of an NDA
21 approval, we will consider both the relevance of
22 the five point test and the relevance of the two
23 part test.

24 If one seems like a better likelihood
25 of reaching CAMU, we would use that test and not

1 worry about the other. If we get a negative in
2 any of the tests, we will move to the next one
3 and consider. In other words, we exhaust all
4 three methods before concluding that something
5 doesn't have a currently accepted medical use.

6 Q And in the case of marijuana, you did
7 not exhaust the prior methods before you applied
8 the two part test, correct?

9 A The NDA approval, obviously, we did not
10 have a botanical drug within the definition of
11 marijuana, so we moved to the clinical -- the
12 evaluation of clinical studies. I think what
13 you're getting at --

14 Q Don't worry about what I'm getting at,
15 Doctor.

16 A Yes. Okay.

17 Q My question to you, sir --

18 A Yeah.

19 Q -- is in the case of marijuana --

20 A Mm hmm.

21 Q -- you did not evaluate it under the
22 FDA approval standard, correct?

23 A Correct.

24 Q You did not apply the five part test,
25 correct?

1 A We had activities going on that could
2 have been useful for the five part test.

3 Q And in your report, you did not provide
4 a five part test analysis of marijuana, correct?

5 A Correct.

6 Q Were you directed not to do that?

7 A I don't think we ever got a directive
8 not to do that. I think we had the information
9 to continue with the two part test.

10 Q If I recall your testimony from
11 yesterday correctly, Dr. Chiapperino, you have,
12 over the course of your career, done
13 reschedulings for between 120 and 130 different
14 substances. Is that correct?

15 A Yes. I think the exact number is 127.

16 Q Thank you, sir. And you are very
17 familiar with the five part test as a result of
18 your work in all 127 of those reschedulings,
19 correct?

20 A Yes.

21 Q Okay. And in the course of your
22 analysis of marijuana, you reviewed all the data
23 that you've described in your report and all
24 that was asked about by Ms. Man, correct?

25 A Can you repeat that? Sorry.

1 Q Yeah. In the course of analyzing
2 marijuana --

3 A Mm hmm.

4 Q -- for purposes of this rescheduling,
5 you reviewed all the data that's described in
6 your report, correct?

7 A Are you talking about me specifically
8 or the team?

9 Q I apologize, sir.

10 A Yeah.

11 Q The FDA did.

12 A Yes.

13 Q The team under your supervision did,
14 sir.

15 A Yes.

16 Q Correct?

17 A Yes.

18 Q And as someone familiar with the five
19 part test --

20 A Yeah.

21 Q -- and someone who supervised the
22 process of analyzing marijuana in this case, you
23 can say, can you not, sir, that there is no way
24 that marijuana would have passed the five part
25 test, correct?

1 MS. MAN: Objection. That's not the
2 analysis that he conducted.

3 MR. McNICHOLS: He can answer this,
4 Your Honor. There's been ample attempt
5 yesterday to show that these two tests are
6 equivalent. This man is very familiar with all
7 the data and the tests that he's already talked
8 about. We should get it on the record as to
9 whether this drug could have passed the test
10 that the FDA has used before and since.

11 MS. MAN: Your Honor, may I respond?

12 JUDGE JULIUS: Yes. Go ahead, Counsel.

13 MS. MAN: I believe counsel is
14 mischaracterizing the testimony that was
15 yesterday, with all due respect. We talked
16 about what they evaluated and the differences
17 and what the two part test evaluated that the
18 five part test did not.

19 Dr. Chiapperino did not conduct the
20 analysis of the five part test for marijuana, so
21 to ask him to speculate whether or not it would
22 have passed the five part test is purely
23 speculative. He conducted the analysis using
24 the two part test, and so the Government has no
25 issue with asking about his analysis of the two

1 part test.

2 But to ask if marijuana would have
3 passed the five part test, that was simply not
4 the analysis done by his team. And to ask him
5 to speculate about whether or not marijuana
6 would have passed the five part test, which is
7 not an analysis that his team did, is purely
8 speculative.

9 MR. McNICHOLS: What he said, Your
10 Honor, earlier was that for the first eight
11 months of his analysis they were reviewing the
12 literature, which could have applied either to
13 the five part test or the two part test. That's
14 what he said. He's familiar with the five part
15 test, and as we've already established, he's
16 familiar with the data that his team reviewed.
17 This is well within the scope of what they've
18 asked about and what he's already testified to.

19 MS. MAN: Your Honor, I'd also like to
20 be -- I'd like to point out that this is also
21 outside the scope of his Touhy letter, which
22 does not permit him to testify about if
23 marijuana would have passed the five part test.

24 JUDGE JULIUS: So I agree that he -- he
25 did testify that the two part came about two

1 months before the analysis was completed. The
2 recommendation is based on the two part test,
3 which is what's reflected in the recommendation
4 that was sent from HHS. I don't believe we've
5 had any testimony that they completed a five
6 part or five factor analysis here. So what's --

7 MR. McNICHOLS: Your Honor, if he
8 reviewed the data, and he knows the test from
9 having applied it 127 times, and he's already
10 told us that the two part test is less rigorous
11 than the five part test, which is now on the
12 record, he can tell us, based on his familiarity
13 with the drug and the test, whether or not this
14 would have passed the test that he always
15 applies in every other situation. That's what
16 he can tell us.

17 MS. MAN: Dr. Chiapperino is here as a
18 fact witness. That would be expert testimony if
19 --

20 MR. McNICHOLS: That is preposterous.

21 MS. MAN: I don't believe so.

22 MR. McNICHOLS: He talked about what
23 he's done.

24 JUDGE JULIUS: Okay. Would you please
25 let her finish her objection and --

1 MR. McNICHOLS: Yes, sir.

2 JUDGE JULIUS: -- maintain.

3 MS. MAN: Thank you. The five part --
4 there is no testimony so far that the five part
5 analysis was ever complete, and that's a
6 conclusion and a recommendation that the FDA
7 would give, is whether or not it would have
8 passed a five part test. Anything other than
9 that is outside the bounds.

10 FDA did not recommend that -- make the
11 recommendation using the five part test. So to
12 ask somebody to speculate about whether or not a
13 substance would have passed the five part test,
14 if they had completed -- and he -- we -- he just
15 testified that he had not completed the
16 analysis. They were still months out from it
17 when they used the two part test.

18 So the analysis was -- that's assuming,
19 number 1, the analysis was ever complete.
20 That's assuming facts not in evidence. And Dr.
21 Chiapperino is here to testify about the two
22 part test and cannot speculate to whether or not
23 marijuana would have passed the five part test.

24 That is absolutely outside the bounds of his
25 Touhy letter.

1 JUDGE JULIUS: Okay. And now, Counsel,
2 I'll hear your response to that.

3 MR. McNICHOLS: No, I think I've
4 already covered it, Your Honor. The -- he has
5 testified about what he did in his review of the
6 data, which went on most -- most of the review,
7 in other words, by his own testimony, occurred
8 before he was directed to use the test that
9 ended up in this report.

10 And he said that his review of the data
11 could have been applied either to the two part
12 test or to the five part test. That's also his
13 testimony. And he's also said that he's applied
14 the five part test more than 120 times in his
15 career.

16 He can, therefore, say, based on his
17 review of the data and his familiarity with the
18 test, that it did -- that this drug would not
19 have passed the test that they've always
20 applied, both before and since.

21 JUDGE JULIUS: But I think this also
22 gets to the point that he's here as a fact
23 witness, not an expert witness to provide
24 opinions. He's here to discuss scientific and
25 medical determinations under the eight factor

1 analysis performed by FDA pursuant to paragraphs
2 A through C of Section 201 and paragraph B of
3 Section 202 of the Controlled Substances Act, 21
4 U.S.C. Sections 811, subsections A through C,
5 and 812(b), as transmitted to DEA with HHS's
6 August 29, 2023, recommendation.

7 Two, scientific and medical
8 determinations underlying the analysis performed
9 and conclusions drawn by FDA in its August 28,
10 2023, report, considerations for whether
11 marijuana has a currently accepted medical use
12 in the United States for purposes of Section
13 202B of the Controlled Substances Act, also
14 known as FDA's part 2 of the CAMU evaluation;
15 namely, that for purposes of the drug scheduling
16 criteria in 21 U.S.C. Section 812(b), marijuana
17 has a CAMU for: (i) anorexia related to a
18 medical condition; (ii) nausea and vomiting,
19 e.g., chemotherapy induced; and (iii) pain.

20 And, third, FDA's recommendation that
21 marijuana be placed in Schedule III under 21
22 U.S.C. Section 812(b)(3).

23 I don't see how your question falls
24 within the scope of what he's been authorized to
25 testify about, particularly as a fact witness,

1 as compared to asking his expert opinion about
2 whether the drug would have passed an alternate
3 analysis that was not reflected and completed in
4 the recommendation that was transmitted.

5 MR. McNICHOLS: It's not reflected as -
6 - in the recommendation that was transmitted.

7 He's reflected he performed the analysis
8 consistent with that and that the analysis that
9 he did could have gone under the five part test.

10 And some portion partway through, maybe two
11 months before, he was told to use the two part
12 test.

13 So whether or not he's an expert, sir,
14 but as someone who has applied the test and was
15 reviewing the data consistent with either the
16 five part test or the two part test, he can talk
17 about that. And the question as to what he's
18 authorized to talk about, clearly covers the
19 bases for his opinions, as well as the standards
20 that he applied. That's inherent in this.

21 The standards, in other words, that --
22 that he -- this test would not have passed a
23 different standard that he's applied before and
24 that he's familiar with and that he was -- could
25 have applied, and was in the process of applying

1 in this case, is well within the bounds of what
2 he's authorized to say.

3 MS. MAN: Your Honor, may I be heard?

4 JUDGE JULIUS: Go ahead, Counsel.

5 MS. MAN: And that is an opinion that
6 would need an expert witness. That is not the
7 witness before the Court today. There has been
8 no testimony that the five part analysis was
9 ever complete, and I think that is where we're
10 running into some difficulty where counsel would
11 like Dr. Chiapperino to testify about the
12 results of a test that was never complete. And
13 since that analysis was never completed, he
14 cannot testify to the results of something that
15 was never complete.

16 JUDGE JULIUS: And then I'll let you
17 have the final word.

18 MR. McNICHOLS: He didn't write it up.
19 He didn't write that up, and I don't think
20 she's right that the analysis was never
21 complete. They reviewed the data, and the form
22 they put it in in this letter took one form,
23 which was the two part test. But the fact --
24 but as he has testified earlier today, there's
25 some distinction between the analysis that they

1 did and what actually made it into the letter.
2 And we should be allowed to explore, in other
3 words, did he get to that point where he got --
4 where he could reach that conclusion or not
5 before he got directed?

6 JUDGE JULIUS: Okay. Let me ask a
7 clarifying question that may --

8 MR. McNICHOLS: Yes, sir.

9 JUDGE JULIUS: -- set us down one way
10 or another.

11 Sir, did FDA ever complete a five
12 factor analysis of marijuana in this evaluation?

13 THE WITNESS: No.

14 MR. McNICHOLS: Can I follow up on
15 that?

16 JUDGE JULIUS: Go ahead.

17 MR. McNICHOLS: Thanks.

18 BY MR. McNICHOLS:

19 Q When you say you didn't complete it,
20 sir, I understand at least one thing you mean is
21 you didn't write it up, correct?

22 A We did not complete it. We did not
23 have ideas formed about each of the five
24 elements in a draft stage at any point.

25 Q Hold on a second, sir. I believe you

1 testified yesterday that part 2 of the currently
2 accepted medical use test resembles the five
3 factor test. Was that your testimony?

4 A Yes, but only in the sense of --

5 Q "Yes" is good enough, sir. Let me ask
6 you this next question.

7 MR. McNICHOLS: Court's indulgence.

8 JUDGE JULIUS: Of course, Counsel.

9 BY MR. McNICHOLS:

10 Q In the course of performing your
11 analysis of marijuana in this case --

12 A Mm hmm.

13 Q -- did you look at whether the
14 marijuana's chemistry was known and
15 reproducible? Did you consider that?

16 A The description under factor 3 for
17 chemistry describes marijuana as a variable
18 substance. So, yes, we did consider it.

19 Q Okay. And in the course of your
20 analysis of marijuana in 2023, did you consider
21 whether there were safety studies of marijuana?

22 A Yes.

23 Q And in the course of your analysis of
24 marijuana in 2023, did you discover -- did you
25 consider whether there were efficacy studies of

1 marijuana?

2 A Yes.

3 Q And in the course of your analysis of
4 marijuana in 2023, did you consider whether
5 marijuana was accepted by qualified experts for
6 any particular indication?

7 A Yes.

8 Q And did you consider whether scientific
9 evidence on marijuana was widely available?

10 A Yes.

11 MR. McNICHOLS: Each one of those
12 questions that -- that, Your Honor, I'm sorry,
13 I'm directing my comment to you, is that every
14 one of those questions that I just asked Dr.
15 Chiapperino about is a factor under the five
16 factor test.

17 Now, I accept his testimony, and Your
18 Honor's analysis, that the five factor test did
19 not get written up in the recommendation letter
20 that was transmitted to the DEA. He has
21 considered all the things that one needs to
22 consider. He can answer the question.

23 MS. MAN: Your Honor, the Government
24 objects because it is outside the scope of
25 Touhy. These five factors were -- it was

1 information that went into the two part test.
2 However, just because somebody considered the
3 information doesn't mean conclusions were drawn.

4 And so to say that he considered it, that
5 doesn't answer the question to the full extent
6 of how it was considered, who considered it, and
7 what conclusions were drawn based on that data.

8 And so, yes, Dr. Chiapperino considered
9 a large pool of data, but he made conclusions --
10 he and his team made conclusions only to the two
11 part test. To say that -- I think this
12 mischaracterizes his testimony about he
13 considered this information but did not draw
14 conclusions with the five part test.

15 I also think it assumes facts not in
16 evidence that they reached a conclusion and it
17 didn't get written up, and it's some secret
18 ~~squirrel~~ thing that, like, they just are not
19 going to talk about. Dr. Chiapperino answered
20 the Tribunal's questions: Did you complete the
21 analysis for the five part test? His answer was
22 "no".

23 MR. McNICHOLS: Let me follow up on
24 that, Your Honor. I think this will help flesh
25 this out.

1 BY MR. McNICHOLS:

2 Q Dr. Chiapperino, back to you, sir.

3 When I asked you previously about analyzing
4 whether marijuana's chemistry was known and
5 reproducible, I think you said your conclusion
6 was that it was not, correct?

7 A Correct. It's a variable substance.

8 Q Right. And in the course of discussing
9 whether there were safety studies on marijuana,
10 you concluded that, if I have your testimony
11 correctly from yesterday, that the safety of the
12 drug was reasonable, correct?

13 A It's a different standard.

14 Q Okay. But that's what you concluded,
15 correct?

16 A Yes, under the two part test.

17 Q Okay.

18 A We did not object to the therapeutic
19 indications on the grounds that there was a
20 concerning enough safety signal that patients
21 would have adverse outcomes instead of better
22 outcomes.

23 Q And in the course of preparing your
24 analysis on marijuana in 2023, sir, you reached
25 conclusions about the efficacy of the drug for

1 certain indications. Did you not, sir?

2 A We made findings under a threshold of
3 credible scientific support. We did not make
4 findings of efficacy.

5 Q Okay. But one of the things --

6 A Effectiveness to a degree.

7 Q Okay.

8 A Yeah.

9 Q But the word you used in your report
10 when discussing the findings was whether or not
11 marijuana was effective --

12 A Mm hmm.

13 Q -- to treat a condition, correct?

14 A Yes. We considered positive results in
15 clinical studies --

16 Q Right.

17 A -- to that effect.

18 Q Okay. And you also -- as you testified
19 earlier when Mr. Kenneally was asking you
20 questions, you also considered whether the drug
21 was accepted by qualified experts and came to
22 the conclusion that it was not, correct?

23 A There's two parts to that. You'd have
24 to allow me to discuss both.

25 Q Did you come to a conclusion as to

1 whether the drug was accepted by qualified
2 experts?

3 A Yes.

4 Q And did you come to a conclusion as to
5 whether scientific evidence on marijuana was
6 widely available?

7 A Yes.

8 MR. McNICHOLS: Okay. Now he has
9 established, Your Honor, that he came to
10 conclusions about every one of the tests or the
11 standards that goes into the five part test as
12 part of his analysis. At this point, the record
13 is clear. The witness can testify about this.

14 MS. MAN: And, Your Honor, that is
15 still outside the bounds of his Touhy letter
16 about testifying to his team's conclusions about
17 the five part test. The team did not draw any
18 conclusions when it came to the five part test.

19 MR. McNICHOLS: He --

20 MS. MAN: The team drew their
21 conclusions for recommendations for the two part
22 -- from the two part test, and that is what Dr.
23 Chiapperino is here to testify about. Asking
24 him what he and his team would have found for
25 the five part test when putting it all together

1 is outside the bounds of his Touhy.

2 MR. McNICHOLS: If he's testified, Your
3 Honor, as to -- as to having applied,
4 considered, and reached conclusions as to every
5 one of the standards under a previous test that
6 he's applied before and since, and that he's
7 applied 120 times in his career, he can answer
8 that. That was part of the process that he
9 performed.

10 MS. MAN: Your Honor, may I be heard
11 briefly?

12 JUDGE JULIUS: Briefly.

13 MS. MAN: There has also been some
14 questions about efficacy, which I think has been
15 lost in translation. The standard for safety
16 and efficacy is different from the CAMU for
17 purposes of drug rescheduling. And I believe a
18 bunch of questions that counsel just asked were
19 about safety and efficacy, which is a different
20 standard, and I think that's gotten lost in this
21 line of questioning.

22 MR. McNICHOLS: And --

23 MS. MAN: They've been mixed up.

24 MR. McNICHOLS: And in that vein, Your
25 Honor, as someone familiar with those standards,

1 if he, in his analysis, was that the drug would
2 not pass the safety and efficacy standards the
3 FDA ordinarily applies, he can testify to that.

4 MS. MAN: But that's outside the bounds
5 of his Touhy. He's not here to testify about
6 the safety and efficacy of marijuana. He's not
7 permitted to do so.

8 MR. McNICHOLS: We've already been over
9 this, Your Honor.

10 JUDGE JULIUS: I mean, Counsel, I guess
11 -- this is directed to opposing states counsel.

12 So I'm looking at number 2 of the Touhy
13 authorization, and it talks specifically about
14 FDA's part 2 CAMU evaluation.

15 MR. McNICHOLS: Well, hold on a second,
16 Your Honor. Let me get with you.

17 JUDGE JULIUS: Sure.

18 MR. McNICHOLS: Please proceed, sir.

19 JUDGE JULIUS: Sure. This is number 2
20 of the things that are -- he's authorized to
21 talk about. So it talks about scientific and
22 medical determinations underlying analysis
23 performed and conclusions drawn by FDA in its
24 August 28, 2023, report, Considerations for
25 whether marijuana has a currently accepted

1 medical use in the United States for purposes of
2 Section 202B of the Controlled Substances Act,
3 also known as FDA's part 2 CAMU evaluation.

4 MR. McNICHOLS: Shall I ground -- let
5 me ground my answer in language you just read,
6 sir.

7 JUDGE JULIUS: Sure.

8 MR. McNICHOLS: Scientific and medical
9 determinations underlying the analysis
10 performed. That's the first phrase that appears
11 in number 2 under this Touhy authorization.
12 Scientific and medical determinations underlying
13 the analysis performed would include conclusions
14 that he reached, analyses that he did,
15 applications that he considered, whether or not
16 written up in the formal letter that was
17 transmitted to DEA, sir.

18 JUDGE JULIUS: And the question, again,
19 that you want to ask him is whether it would
20 have passed the five factor test, which is not
21 reflected in this. Am I --

22 MR. McNICHOLS: The question I want to
23 ask him is: Sir, you can say, can you not, that
24 marijuana would not have passed the five factor
25 test? That's my question.

1 JUDGE JULIUS: I'll allow him -- I'll
2 allow you to ask the question, and he can answer
3 if he knows.

4 MR. McNICHOLS: Thank you, sir.

5 BY MR. McNICHOLS:

6 Q All right. Sir, as someone who has
7 applied the five factor test 127 times in your
8 career, and who supervised the data that went in
9 -- on marijuana that went into the HHS
10 recommendation in 2023 --

11 A Mm hmm.

12 Q -- it's true, sir, is it not, that
13 marijuana would not have passed the five factor
14 test that you've applied in other instances?

15 A And you would like me to answer that.
16 That's -- in my opinion, the clinical studies
17 that were considered for these indications, I do
18 think they were not large enough to pass an FDA
19 approval as an adequate, well controlled study
20 on the basis of their design as more of pilot
21 study size.

22 I think they would have had difficulty
23 passing that part, and I would agree that the
24 two tests are very different with regard to part
25 -- the two part, the part -- sorry. The two

1 part test considers marijuana categorically,
2 what is available in dispensaries that people
3 are using. We don't -- we did not make judgment
4 as to whether that's a good idea or a bad idea.

5 It is just what is going on.

6 In terms of the five point test, there
7 is still a standard of a particular substance
8 used in an indication being well defined. So on
9 the basis of the first element alone, without
10 even consideration of the other two, I do
11 believe that it would have been difficult for
12 marijuana to pass the five part test.

13 Q Would not have passed, correct?

14 A Would not have passed. Sure. May I
15 ask a question?

16 Q There's no question pending, sir.

17 THE WITNESS: Can you take a timeout
18 for one second from his time? I have a question
19 about process, and I don't know if there's a
20 mechanism, because I'm not very familiar with
21 court proceedings, to ask the judge a question
22 about process that covers the scope of my
23 testimony.

24 MR. McNICHOLS: Go ahead, sir.

25 THE WITNESS: Is that permitted?

1 JUDGE JULIUS: I'll allow that.

2 THE WITNESS: Do I do it so everybody
3 could hear or?

4 MR. McNICHOLS: We'd prefer it be on
5 the record, Your Honor.

6 JUDGE JULIUS: Go ahead and ask.

7 THE WITNESS: I think the line of
8 questioning is to get at the decision making
9 between applying the two part test and applying
10 the five point test. And I want the record to
11 reflect that the agencies involved, in terms of
12 HHS and component agencies, including the Office
13 of the Assistant Secretary for Health and FDA,
14 that this request to do the two part test didn't
15 land on our desk in July of 2023 without
16 awareness among component agencies that there
17 was thinking going on within the Department as
18 to an appropriate way to be able to consider a
19 broader scope of information for drugs under --
20 under what ended up being the two part test.

21 So FDA, including me and the Controlled
22 Substance Staff team, did not create the two
23 part test and say, "Let's use this instead." We
24 are aware of departmental activities going on to
25 consider development of a test that would be

1 different to address substances that might have
2 authorized state uses.

3 So I think this line of questioning is
4 really trying to get at why did we use the two
5 part test and not the five part test. I'm
6 saying that we already had awareness that there
7 was an interest to do a different kind of test.

8 We are working on the scientific and
9 medical review. We are not part of creating
10 either of the tests, not DEA's test, not the two
11 part test. But we had the information for both.

12 We knew both were under consideration. The
13 fact that there's formalized letters in July --
14 obviously, we can't put together hundreds of
15 pages of analysis that are geared toward a two
16 part test in a month.

17 So I do understand your line of
18 questioning, and I'm trying to be -- I'm trying
19 to make the people understand how this situation
20 could be reflected in the -- by what we see in
21 the record.

22 So we did not ever make conclusions
23 under the five part test. We knew that there
24 was interest to apply a different kind of test.

25 We got the details and the parameters of that

1 test, and we put the information together. We
2 had the information to apply both. We put it in
3 the form of the two part test. That is what we
4 were asked to use.

5 BY MR. McNICHOLS:

6 Q I thought --

7 MS. MAN: Your Honor, the Government
8 would like to --

9 BY MR. McNICHOLS:

10 Q -- part of your question was going
11 to the judge --

12 A Yeah.

13 Q -- Dr. Chiapperino. Was there a
14 question directed to the judge in that?

15 A Well, that is my fault. I probably
16 should have started slower and asked a question
17 as to how far I could go with what I just said.
18 I hope --

19 Q I thought it was very helpful, sir.

20 A -- that it's not in -- I hope it is not
21 in violation of my Touhy letter because I could
22 get in a lot of trouble for that. But I think
23 it goes to the question of how the two part test
24 became the documents that we gave to DEA. And I
25 wanted people to understand that this was a

1 reasonable process between the agencies that
2 make decisions about how to assess currently
3 accepted medical use.

4 Q And you wanted him to understand that
5 it was not all your fault, correct?

6 MS. MAN: Your Honor, at this juncture,
7 the Government would like to ask for its comfort
8 break.

9 JUDGE JULIUS: Okay. Well --

10 MR. McNICHOLS: Can we get an answer to
11 that question please, then?

12 MS. MAN: Your Honor, that's -- the
13 court reporter can read the question back.

14 JUDGE JULIUS: I believe the question
15 was, you wanted to say that so that it was not--

16 MR. McNICHOLS: Just to -- to follow up
17 very brief -- I'll withdraw that question, Your
18 Honor.

19 BY MR. McNICHOLS:

20 Q The reason for your colloquy to
21 clarify things, Dr. Chiapperino, is that you
22 wanted the record to reflect that the decision
23 to apply the two part test was not an FDA
24 determination, correct?

25 A Correct.

1 MR. McNICHOLS: If this is the right
2 time for the comfort break, the States have no
3 objection.

4 JUDGE JULIUS: Okay. Yeah. That's a
5 good idea. Let's take 15 minutes. Let's come
6 back at 10:48, if my math is correct.

7 We'll be in recess for 15 minutes.
8 Thank you, everyone.

9 (Whereupon, the above-entitled matter
10 went off the record at 10:33 a.m. and resumed at
11 10:49 a.m.)

12 JUDGE JULIUS: Thank you, everyone.
13 Please be seated. Just a few procedural issues
14 before we resume. I just wanted to note for the
15 record, when we were discussing the Touhy
16 letter, it is marked as ALJ Exhibit 44, just so
17 everyone has awareness.

18 The government has represented a number
19 of times that the OLC opinion is binding on this
20 court. I would ask if there's any authority for
21 why -- why it's binding on this tribunal versus
22 just the federal government, so an issue to
23 potentially address. I'm not going to ask for
24 an answer right now, but something to
25 potentially look out for and see, just put the

1 issue out there. I don't know that it's 100
2 percent settled that OLC opinions or -- or
3 orders are binding on this tribunal. It's
4 something we will also look into, but I -- I
5 just wanted to note that may be an open issue.

6 MS. MAN: Your Honor, would the Court
7 prefer me to address that later on in a
8 briefing? How would the Court like the
9 government to respond?

10 JUDGE JULIUS: However you would like
11 to do that. I just put the issue out there just
12 to let people know what issues we foresee.

13 MS. MAN: All right. Thank you. I
14 just wanted to make sure we didn't need to do
15 something.

16 JUDGE JULIUS: Yeah. I'm not ordering
17 you to produce anything by end of day or
18 anything. Just however you see best to address
19 that, feel free to do that.

20 MS. MAN: Thank you very much.

21 JUDGE JULIUS: Sure. Counsel?

22 MR. McNICHOLS: We're prepared to
23 proceed, sir.

24 JUDGE JULIUS: Whenever you're ready,
25 sir.

1 MR. McNICHOLS: Thank you.

2 JUDGE JULIUS: Oh, yes. Please retake
3 the stand. Yes.

4 CROSS-EXAMINATION

5 MR. McNICHOLS: Dr. Chiapperino, I want
6 to resume by asking you some questions about
7 part one of the two-part test that you used to
8 determine whether marijuana had a currently
9 accepted medical use. Tell me if I have this
10 right, that the test assessed whether there was
11 widespread current experience with medical use
12 by licensed healthcare practitioners under
13 state-authorized programs where medical use is
14 recognized by entities that regulate medicine.
15 Is that a fair statement of the part one test?

16 THE WITNESS: Yes.

17 BY MR. McNICHOLS:

18 Q And am I right, sir, that in the
19 division of labor that went into the eight
20 factor analysis, it was HHS and the Office of
21 the Assistant Secretary for Health and not FDA
22 that did that part of the test?

23 A Correct.

24 Q And they wrote up their findings in a
25 separate document that you then incorporated

1 into the recommendation of 2023?

2 A We provided that document with our own
3 as a supporting document. It was not considered
4 an FDA document. It was just a relevant
5 document to transmit with the rest of them --

6 Q Understood.

7 A To DEA.

8 Q It ultimately, though, made it into the
9 recommendation letter that went from HHS over to
10 DEA, correct?

11 A Yes, I think so.

12 Q Okay. I know that HHS performed it
13 rather than FDA, but tell me if I have this
14 right, that it involved HHS looking into the
15 various state-administered medical marijuana
16 programs around the U.S. Is that fair?

17 A Yes.

18 Q Okay. This rescheduling here from 2023
19 was not the first time that FDA or HHS had been
20 encouraged to look into state-level medical
21 marijuana programs, correct?

22 A I don't have knowledge of other
23 instances.

24 Q Well, in the 2015 rescheduling and the
25 recommendation that HHS provided to DEA in

1 connection with that, HHS actually commented on
2 the state-level medical marijuana programs and
3 the fact that it was not considering them,
4 correct?

5 MS. MAN: Objection. Dr. Chiapperino
6 was not involved in the 2015 process. He became
7 -- that's assuming facts not in evidence, that
8 he was involved in the 2015 assessment and made
9 recommendations or drew considerations one way
10 or the -- or considered factors one way or the
11 other.

12 JUDGE JULIUS: Do you want to try to
13 lay a foundation or --?

14 (Simultaneous speaking.)

15 MR. McNICHOLS: Dr. Chiapperino, you
16 were with --

17 JUDGE JULIUS: So is this like --

18 MR. McNICHOLS: -- with the controlled
19 substances staff in 2015, correct?

20 THE WITNESS: Yes.

21 BY MR. McNICHOLS:

22 Q Okay. And you've been with the Center
23 for Drug ~~and~~ Evaluation ~~and~~ Research for some
24 longer time before that, 20 years?

25 A Yes.

1 Q Okay. And in the course of preparing
2 your 2023 analysis of marijuana, did you
3 consider the analysis that HHS or FDA prepared
4 in 2015?

5 A I have certainly read the 2015 document
6 in the past. We did not work from it for the
7 2022. It was a new review, a new team, yeah.

8 Q But you certainly commented on the 2015
9 recommendation in the analysis that you did in
10 2023, correct?

11 A We included it in the background as a
12 statement of the record, yeah.

13 Q Okay. You mention it on page 1.

14 A Right.

15 Q You mention it on page 2.

16 A Yes.

17 Q Okay. And you're generally familiar
18 with the document because you reviewed it in the
19 course of your career, correct?

20 A I am familiar with it in broad strokes,
21 yes.

22 Q Okay. It's true, is it not, sir, that
23 in the recommendation that HHS prepared in 2015
24 that HHS considered looking at the state-level
25 medical marijuana programs and declined to do

1 so?

2 A That I don't know.

3 Q Okay. Can you turn in the binder that
4 you have, sir, to tab 4?

5 A Mm-hmm.

6 Q And that's in the Court's binder as
7 well and also in the binder that we've handed to
8 the government.

9 JUDGE JULIUS: Thank you.

10 MR. McNICHOLS: And for the record, tab
11 4 is the Exhibit No. 11 of Smart Approaches to
12 Marijuana. With that, let me ask, Dr.
13 Chiapperino, do you recognize the document at
14 tab 4 in the binder? Take a moment to review it
15 if you need to, sir.

16 THE WITNESS: Yes. I will look. Yes -
17 - yes.

18 BY MR. McNICHOLS:

19 Q Is the document at tab 4 marked as
20 Smart Approaches to Marijuana, Exhibit No. 11 --
21 is that the 2015 recommendation that the
22 Department of Health and Services -- Health and
23 Human Services prepared for the DEA on the issue
24 of rescheduling marijuana?

25 A Yes.

1 Q Okay.

2 MR. McNICHOLS: At this point, Your
3 Honor, we move this exhibit into evidence.

4 (Whereupon, the document referred to
5 was marked as SAM~~+State~~ Exhibit No. 11 for
6 identification.)

7 JUDGE JULIUS: Any objection?

8 MS. MAN: No.

9 JUDGE JULIUS: Okay. Admitted.

10 (Whereupon, the above-referred to
11 document marked as SAM~~+State~~ Exhibit No. 11 was
12 received into evidence.)

13 MR. McNICHOLS: Thank you. Can you
14 turn to page 27 of this document, sir? Just to
15 get back to my question, how we got on this
16 subject of state-level medical marijuana
17 programs, if you go to the last full paragraph
18 on this page, are you there at 27, sir?

19 THE WITNESS: Yes.

20 BY MR. McNICHOLS:

21 Q Okay, the last sentence of this
22 paragraph states, "Furthermore, based on the
23 above definition of a qualified expert, who is
24 an individual qualified by scientific training
25 and experience, to evaluate the safety and

1 effectiveness of a drug, state-level medical
2 marijuana laws do not provide evidence of a
3 consensus among qualified experts that marijuana
4 is safe and effective for use in treating a
5 specific recognized disorder." Do you see that,
6 sir?

7 A I'm sorry. I was -- you were in -- you
8 said the fourth full paragraph, or --

9 MR. McNICHOLS: May I approach, Your
10 Honor?

11 JUDGE JULIUS: Yes, please.

12 THE WITNESS: I was scrolling while you
13 were speaking, and I wasn't finding the text
14 about what -- where you were speaking.

15 JUDGE JULIUS: Court was also having
16 difficulty.

17 MR. McNICHOLS: That is entirely my
18 fault.

19 THE WITNESS: Okay. Okay. Okay.

20 BY MR. McNICHOLS:

21 Q I should have directed --

22 (Simultaneous speaking.)

23 A So you started, I think, in the middle
24 of the paragraph, maybe. That's why. I'm not
25 sure. But yes, I --

1 Q Are you at the word furthermore, sir?

2 A Yes. Now I am.

3 MR. McNICHOLS: And Your Honor, are you
4 there as well?

5 JUDGE JULIUS: We're on page 27, right?

6 MR. McNICHOLS: Yes, sir.

7 JUDGE JULIUS: Okay. Furthermore. In
8 -- you said fourth?

9 MR. McNICHOLS: One of my colleagues
10 will show you what we're talking about, Your
11 Honor.

12 JUDGE JULIUS: Yeah. Could you clarify
13 when you say page 27 -- in case there are
14 different Bates stamps? Thank you very much.

15 THE REPORTER: Excuse me.

16 MR. McNICHOLS: We're looking at the --

17 THE REPORTER: Page 27.

18 MR. McNICHOLS: Page number of the
19 document, not the Bates stamp number, just for
20 the record.

21 MR. McNICHOLS: Okay.

22 JUDGE JULIUS: Thank you for the
23 clarification, Counsel.

24 MR. McNICHOLS: Yes. Apologies to the
25 re -- the Reporter and the Court and everyone, I

1 guess that went the wrong way. Are you ready,
2 sir?

3 THE WITNESS: Yes.

4 BY MR. McNICHOLS:

5 Q Okay, yeah. The sentence I was
6 directing your attention to states,
7 "Furthermore, based on the above definition of a
8 qualified expert, who is an individual qualified
9 by scientific training and experience, to
10 evaluate the safety and effectiveness of a drug,
11 state-level medical marijuana laws do not
12 provide evidence of a consensus among qualified
13 experts that marijuana is safe and effective for
14 use in treating a specific recognized disorder."

15 Did I read that correctly?

16 A Yes.

17 Q And to return to my question then, it
18 at least appears from this that in 2015, the
19 Health and Human Services Department considered
20 state-level medical marijuana programs when
21 applying the eight factor analysis to marijuana
22 at that time, correct?

23 A Just give me one minute. It seems that
24 the paragraph is about medical practitioners not
25 being qualified. Are we talking about medical

1 practitioners still, or are we talking about
2 expert groups? Which are you asking about?

3 Q Well, I think the question is, is that
4 it appears from my reading of the language --

5 A Yeah.

6 Q That at that time, HHS decided that the
7 practitioners in the medical marijuana space
8 were not experts in the use of the drug, and
9 therefore their use of it would not be
10 considered by HHS in the recommendation that it
11 provided to DEA. That's my question.

12 A The healthcare practitioners were not
13 considered then, and we did not consider them
14 experts for determining which medical uses are
15 eligible under the part 1 memo. That was not
16 the role of evaluating healthcare practitioners
17 there, you know, in terms of making a decision
18 about what conditions they could use marijuana
19 with their patient.

20 Q If I understand you correctly, the
21 healthcare practitioners decisions about
22 conditions they would recommend marijuana for
23 did not factor into your part 1 analysis. Is
24 that right?

25 A It did factor in, in the sense that

1 there was an assessment of which states provided
2 training for practitioners that would be
3 eligible to participate in their state programs.

4 That was, I think, a little variable across
5 states, what level of training in order to be a
6 practitioner that can recommend use of
7 marijuana.

8 Q I think you saw where I was going with
9 this, sir, and you can reference the part 1
10 analysis if you need to. We provided it at tab
11 2 of the binder that you have in front of you.

12 A Yeah.

13 Q But I'm correct, am I not, sir, that at
14 least according to the part 1 analysis, most
15 states that have medical marijuana programs do
16 not require any kind of review before a medical
17 board before approving a particular condition to
18 be treated by medical marijuana, correct?

19 A I think the number was 17 did, yeah.

20 Q Out of 43, correct?

21 A 38.

22 Q Not including Guam.

23 A Okay, yeah.

24 Q Fair enough.

25 A Yeah.

1 Q Right? Okay. And 43, which includes
2 the District of Columbia and the other
3 territories, that's the figure that appears in
4 the part 1 document, correct?

5 A I think so, yes.

6 Q All right. We can use 38 if you'd
7 rather stick with the states, but in all events,
8 you agree with me that most states that have
9 medical marijuana programs do not require that
10 any board of doctors approve treatment for a
11 particular condition before authorizing
12 treatment for that condition using marijuana,
13 correct?

14 A Yes.

15 Q Okay. In fact, only 10 states that
16 have medical marijuana programs actually require
17 healthcare practitioners to have training in
18 marijuana before they're allowed to recommend
19 it, correct?

20 A Yes, I think that's what's reported.

21 Q Okay. And only two states actually
22 require that healthcare practitioners pass a
23 test in marijuana before they're allowed to
24 recommend it, correct?

25 A Yes, I think so.

1 Q Okay. And healthcare practitioners in
2 this context do not equate to physicians,
3 correct, sir?

4 A That is correct, I think there are
5 different professional qualifications eligible
6 to recommend.

7 Q Right. I think this came up some
8 yesterday in Mr. Evans' cross-examination, but
9 among the professionals who can recommend
10 marijuana at the state level are nurses,
11 correct?

12 A I don't know that off the top of my
13 head. I think so. Certainly nurse
14 practitioners.

15 Q Physician assistants as well, correct?

16 A I believe so, yes.

17 Q Psychologists, correct?

18 A I'm not sure about psychologists.

19 Q Counselors?

20 A That's broad, I don't know.

21 Q Social workers?

22 A Broad, I don't know.

23 Q Okay. And am I right, sir, that at
24 least according to the part 1 analysis, only 20
25 states that have medical marijuana programs keep

1 track of adverse events of people who are using
2 marijuana?

3 A Is that reported in the documents? Do
4 you want to bring my focus somewhere? I don't
5 recall.

6 Q I think if you look over here at table
7 2B, which --

8 A Is that --

9 Q Appears at the very back of the
10 document. Let me know when you're there, sir.

11 MS. MAN: I'm sorry, Counsel. Where
12 are we looking at?

13 MR. McNICHOLS: Oh, you need the
14 number?

15 MS. MAN: Yeah. I just need a tab.

16 MR. McNICHOLS: Yeah, tab 2.

17 MS. MAN: Thank you.

18 JUDGE JULIUS: So just for the record,
19 this is the July 17th, 2023 part 1 analysis?

20 MR. McNICHOLS: I apologize, Your
21 Honor. Let's do that first. Dr. Chiapperino,
22 can I get you to take a look at the document
23 behind tab 2 before you turn to the page I was
24 directing you? Can you verify for me, sir, that
25 the document behind tab 2 is the part 1 analysis

1 prepared by the Department of Health and Human
2 Services that later fed into the FDA's analysis
3 for the recommendation as to marijuana?

4 THE WITNESS: Yes.

5 BY MR. McNICHOLS:

6 Q Okay. What I was directing you to in
7 terms of documents there on the question of
8 tracking adverse events is table 2B, which
9 appears toward the end of the document at pages
10 8 and 9 of the tables. Let me know when you're
11 there.

12 A I'm there.

13 Q Okay. The middle column there has ASA
14 grade for dispensary operations. Do you see
15 that, sir?

16 A Yes.

17 Q Okay. And then in the legend at the
18 very bottom, when it talks about Americans for
19 Safe Access, let me know when you're there.

20 A Yes.

21 Q Are you there, sir?

22 A Yes, I am.

23 (Simultaneous speaking.)

24 Q I didn't hear what you said. Okay. And
25 one of the things it says it tracks is whether

1 or not -- whether states are tracking, whether
2 dispensaries are reporting adverse events. Let
3 me know when you find that in the paragraph at
4 the legend under A.

5 A I see that section, yes.

6 Q Okay. And if you look at the center
7 column, which keeps track of ASA grade for
8 dispensary operations, you see various yeses and
9 nos next to the states listed there, correct?

10 A Yes.

11 Q Now, take your time if you need to,
12 sir, but I think if you count up the yeses in
13 that column, you'll see that there are 20 states
14 that by the ASA standard, keep track of adverse
15 events. Take your time. Count it out for me,
16 please.

17 A Okay, yes.

18 Q Okay. So, 18 of the states that have
19 medical marijuana programs, at least according
20 to this, do not track adverse events, correct?

21 A I'm just reading the footnote again to
22 make sure it clarifies what the negative means.

23 It doesn't actually explicitly say what a yes
24 and what a no means in this table. I don't know
25 what standard they applied in giving a yes

1 response or a no response. I don't know if it's
2 just that there is no formal system for
3 reporting adverse events or if it's a
4 confirmation that they do not collect adverse
5 events. Is that the significance of a no? I
6 don't know.

7 Q Okay. But at least, as to the standard
8 that HHS put into this document in other words,
9 the ASA grade for dispensary operations, there's
10 no evidence that any states beyond 20 actually
11 collect -- or collect information on adverse
12 events, correct?

13 A I'd agree with that. Yeah.

14 Q Okay. Now, right there in table 3 of
15 this document, the part 1 analysis, it lists the
16 medical conditions that pass the part 1 test
17 according to HHS, correct?

18 A Yes.

19 Q Okay. And there are 15 conditions here
20 ranging from amyotrophic lateral sclerosis in
21 alphabetical order down to spasticity at the
22 bottom, correct?

23 A Yes.

24 Q Right. And then over in the right-hand
25 column, it lists the number of jurisdictions

1 that recognize that medical condition as one
2 that can be treated by marijuana, correct?

3 A Yes.

4 Q Okay. Now, not every one of those
5 states listed is one where the authorization to
6 use marijuana is recognized by entities that
7 regulate the practice of medicine, correct?

8 A It does seem so, yes.

9 Q Right. And I think as you testified
10 earlier, sir, there are 17 of our 38 states or
11 43 jurisdictions that actually have some kind of
12 board that's involved in the process for
13 authorizing a treatment for a particular
14 condition, correct?

15 A Yes.

16 Q So, for most of the figures listed
17 here, there are states, for example, that may
18 have authorized treatment by a ballot
19 initiative, correct?

20 A Yes.

21 Q Okay. And you agree with me, sir, that
22 authorizing treatment by ballot initiative is
23 not reflective of medical science?

24 A Well, I'm not sure. The details of a
25 ballot initiative would be whether or not the

1 voters favor establishing medical marijuana.
2 You know, the implementation of it through a
3 regulatory program of some sort, I think you'd
4 have to look at what reviews states did and what
5 scientific information they considered before
6 listing the eligible conditions. I don't know
7 of ballot initiatives that establish the
8 specific therapeutic indications.

9 I assume the implementation of a
10 program would use some level of evidence in
11 order to put a substance on the list. In the 17
12 states that do have a board, I think it's to
13 consider adding new conditions. So I don't -- I
14 can't speak to what standard they use in
15 establishing the program that first listed an
16 indication.

17 Q But you would agree with me, sir, that
18 if a state authorizes marijuana for a particular
19 condition by ballot initiative rather than by a
20 review board, that that is not relevant to the
21 question of currently accepted medical use. You
22 agree with that?

23 A Not entirely. I think the ballot
24 initiative leads to an activity in the state to
25 initiate a medical marijuana program. The fact

1 that the program is set up, whether by
2 legislation or by ballot initiative, it is still
3 the Departments of Health in most cases that
4 have a role in setting up the individual
5 marijuana program. I'm sure that may vary from
6 state to state, which agency has jurisdiction to
7 regulate the system, but I think there are
8 further steps beyond the ballot initiative to
9 establish the particulars of the program.

10 Q Am I right, sir, that the conditions
11 listed at table 3 of part 1 are the 15
12 conditions that HHS determined to pass the part
13 1 analysis?

14 A Yes, that was our assumption when we
15 received this memo.

16 Q Okay. And these are the only
17 conditions that passed the part 1 analysis,
18 correct? Withdrawn. These are the only
19 conditions that passed HHS's Part 1 analysis,
20 correct?

21 A Yes.

22 Q Okay. And in your analysis that you
23 did under Part 2, you evaluated seven, correct?

24 A Yes.

25 Q Okay. And you determined that of that

1 seven, three had some level of scientific
2 support and thus passed the Part 2 test,
3 correct?

4 A Correct.

5 Q Okay. And those three, I know you
6 covered earlier, were pain, nausea, and
7 anorexia, correct?

8 A Yes.

9 Q Okay. And I know we've covered this
10 before, but just for clarity here, the Part 2
11 test of some scientific support is below the
12 level required to obtain FDA approval, correct?

13 A Yes.

14 Q The three that you analyzed that did
15 not pass the level of some scientific support
16 were PTSD, anxiety, epilepsy, and then
17 inflammatory bowel disease, or IBD?

18 A Correct.

19 Q Okay. And of the seven that you chose
20 to evaluate -- and those were, in your view,
21 sir, the ones that were most likely to pass the
22 Part 2 test. Is that correct?

23 A Well, not quite. In terms of the most
24 potential for reviewable data, so I think we've
25 tried to focus on where studies were available

1 and what is the extent of use in those
2 indications. Some of them more than others, but
3 certainly pain is usually by far the most -- the
4 indication for which most people are using
5 marijuana, although also for depression and
6 anxiety.

7 Q I think the phrase that you used in the
8 main memo that you wrote was that they were the
9 ones that were likely to have the most robust
10 evidence available for review. Does that sound
11 correct?

12 A Yeah. Yeah.

13 Q Okay. Now, of the nine that you chose,
14 or the nine that passed the Part 1 analysis that
15 you chose not to evaluate, right? We should not
16 assume that there would be evidence that would
17 allow them to pass the Part 2 test were you to
18 look for it, correct?

19 A I'm sorry. We should not assume -- say
20 it again.

21 Q The ones that you chose were the ones
22 that were likely to have evidence one way or the
23 other that would support -- that you could
24 analyze to assess --

25 A Yeah.

1 Q Their suitability, correct?

2 A Yes.

3 Q Okay. So the ones that you didn't
4 choose, nobody on the outside should assume that
5 there would've been evidence that would show
6 that they would pass the Part 2 analysis if you
7 didn't include them, correct?

8 A Correct.

9 Q Okay. Now, the three conditions that
10 you determined would pass the Part 2 analysis,
11 those are not the only three conditions for
12 which marijuana is used for treatment in the
13 United States, correct?

14 A Correct.

15 Q Great, right, and the 15 conditions
16 that passed the Part 1 analysis, those are not
17 the only conditions for which marijuana is used
18 to treat in the United States as well, correct?

19 A Correct.

20 Q In fact, there are dozens, if not more
21 than 100, conditions around the United States
22 being treated in medical marijuana programs that
23 have never passed the Part 1 test, never passed
24 the Part 2 test, and never obtained FDA
25 approval, correct?

1 A Correct.

2 Q And in fact, some of those conditions
3 that have been authorized in state marijuana
4 programs have actually been recommended against,
5 correct?

6 A Yes.

7 Q Some of them are even contraindicated,
8 correct?

9 A I'm not sure about contraindications.

10 Q Okay. Well, sir, you agree with me
11 that based on the review of the data that PTSD,
12 or post-traumatic stress disorder, is a
13 condition for which people are taking medical
14 marijuana under state medical marijuana
15 programs, correct?

16 A Yes.

17 Q And you reviewed that as part of your
18 Part 2 analysis, did you not?

19 A We did.

20 Q And you concluded that the risks of
21 adverse events from taking medical marijuana,
22 according to the science, outweighed the
23 benefits of taking it, correct?

24 A Yes. That was our finding, I think.

25 Q Right. Now, I want to talk to you

1 about how you ended up with seven conditions.
2 Am I right that of the seven conditions that you
3 put into the Part 2 analysis, one of them was
4 not one that passed HHS's Part 1 analysis,
5 correct?

6 A Correct.

7 Q It never passed the test of a program
8 for which there was widespread experience under
9 a state program where medical use is recognized
10 by entities that regulate the practice of
11 medical programs, correct?

12 A Correct.

13 Q Okay. That's one that FDA backfilled
14 after getting the list from HHS, correct?

15 A Correct.

16 Q And was it part of the plan all along
17 that you would be able to add in different
18 conditions that did not pass the Part 1 test of
19 HHS when you were conducting your Part 2 test?

20 A Let me think about that, the condition
21 you're talking about is anxiety?

22 Q Correct, sir.

23 A And I think anxiety is sort of
24 coincident with some of the indications that are
25 on the list. There are a lot of conditions here

1 where that patient population would also suffer
2 from anxiety. So I agree with you that anxiety
3 is not explicitly listed here, but given what we
4 found in the landscape analysis as to the
5 widespread use among patients for anxiety,
6 whether it was part of the program or not, it is
7 certainly often associated with many of these
8 other therapeutic indications.

9 I think FDA was interested in knowing
10 what is the state of evidence for something that
11 people are using. Seventy percent of users
12 admit to sometimes using marijuana for anxiety -
13 - if they're using it for a medical purpose,
14 it's something like 70 percent of the time for
15 anxiety. That was very significant to us, and
16 it's related to other conditions, so we chose to
17 look at it. Now, if that had been the only
18 indication where we ended up finding credible
19 scientific support, I could certainly understand
20 making a case that it didn't pass part 1, why
21 are you even looking at it in part 2? It should
22 be invalid. It turns out being that we did not
23 find credible scientific support and it really
24 is irrelevant to the three conditions that we
25 did.

1 Q Let's go back on that for a second,
2 sir. In choosing to analyze anxiety under the
3 Part 2 analysis, you picked a condition that was
4 not listed among those that HHS had selected,
5 correct?

6 A It was not in the table, yes.

7 Q Okay. In fact, you picked it even
8 though, as HHS had concluded, it was illegal in
9 some jurisdictions to recommend marijuana to
10 treat anxiety, correct?

11 A That I don't know.

12 Q Well, let's -

13 (Simultaneous speaking.)

14 A I don't know where it is listed that it
15 is illegal.

16 Q All right. Well, let --

17 A It may be. I just don't have that
18 knowledge myself.

19 Q Well, let's take a look at this here if
20 you go back to tab 2. Can you go to -- let me
21 know when you're there.

22 A 2A?

23 Q 2A.

24 A Oh, I'm sorry. Well, we're in tab 2.
25 What table or what section?

1 Q Yeah. It's tab 2, Table 2A.

2 A Yeah.

3 Q And let me know when you're there.

4 A Yes.

5 Q Okay, if you go to page 4, which has
6 Delaware at the top -- let me know when you're
7 there.

8 A Yeah.

9 Q Okay, and in the far right column, it
10 lists anxiety as one of the medical conditions
11 that is denied in Delaware, correct?

12 A Okay. Yes.

13 Q Okay. And if you go to the next page,
14 where we have New Hampshire in the far right
15 column, according to Table 2A, anxiety is denied
16 in New Hampshire as an authorized medical
17 condition that you can treat with marijuana,
18 correct?

19 A Correct.

20 Q But you included it in your Part 2
21 analysis anyway, correct?

22 A Yes.

23 Q Okay. Now, in your discussion with Ms.
24 Man yesterday, you talked about the Part 2
25 analysis in terms of five buckets. Do you

1 recall that, sir?

2 A Yes.

3 Q Let me see if I can go through those
4 with you. The first of them was, I think, what
5 you'd call the national surveys. Is that right?

6 A Yes.

7 Q And among those were ICPS, correct?

8 A Yes.

9 Q And what's that stand for?

10 A International Cannabis Policy Survey.

11 Q And a few of the others were the
12 National Survey ~~of~~ ~~on~~ Drug Use and Health, correct?

13 A Yes.

14 Q I don't have -- Monitoring the Future, or MTF,
15 is another one?

16 A Yes.

17 Q And then the other one was BRFSS,
18 correct?

19 A Correct.

20 Q Okay. The second bucket, I think, was
21 the systematic literature review conducted by
22 the University of Florida, correct?

23 A Yes. Correct.

24 Q Okay. And then the third was the
25 review by FDA's own medical officer team,

1 correct?

2 A Correct.

3 Q The fourth were the state surveys in
4 Maryland and Minnesota, correct?

5 A Yes.

6 Q And then the fifth one was your
7 analysis of drugs that FDA had approved that
8 have some relation to marijuana, correct?

9 A Yes. Correct.

10 Q Okay. Those are the five buckets.
11 Now, this came up a little bit earlier in your
12 testimony, I think, when Mr. Kenneally was
13 asking you questions, but there was actually a
14 sixth bucket listed in your report, correct?

15 A I'm not sure which one, maybe you can
16 just say what was listed?

17 Q Yeah. Your report -- now, this didn't
18 come up yesterday in your analysis, but you
19 would agree with me, sir, that you also
20 conditioned the statements from major medical
21 organizations under the classification of expert
22 opinions, correct?

23 A Oh, yes, we did.

24 Q Okay.

25 A Yeah.

1 Q And this is covered, I think, at 4.17
2 of your Part 2 analysis, which is provided to
3 you at tab 3.

4 A Okay.

5 Q Or actually, it's 4.7, sir. I'm just
6 looking at the table of contents. But can you
7 verify for me that the label you gave to this
8 was Summary of Expert Opinions and Position
9 Statements, correct?

10 A Yes.

11 Q And what you were collecting there and
12 analyzing in this portion of your report,
13 beginning at page 89, were the statements ~~on~~ of
14 major medical organizations about the
15 appropriateness of using marijuana as a form of
16 treatment, correct?

17 A Yes.

18 Q Okay. The particular organizations
19 that you listed there were the ones that had
20 expertise that was relevant to the conditions
21 under discussion, correct?

22 A Yes. I am still trying -- you said
23 page 89. Can you use the number in the bottom
24 right corner? Was that page 89? Is it that
25 page 89 or by the document?

1 Q By the document, sir. I'm going to
2 send someone to help you with this, though.

3 A Yeah.

4 JUDGE JULIUS: Yeah. The Court is also
5 having difficulty finding where you're talking.

6 MR. McNICHOLS: That's our fault, Your
7 Honor. We'll address that swiftly.

8 JUDGE JULIUS: Thank you.

9 MR. PHILLIPS: What is the page number
10 here so that the judge can try and get it?

11 MR. McNICHOLS: I'm trying to -- let me
12 get to part 3.

13 MR. PHILLIPS: It's going to be beyond
14 the survey section, after that.

15 THE WITNESS: Yep. So it was section
16 417 or?

17 MR. McNICHOLS: I said 417 initially,
18 sir -- I think it's just 4.7.

19 THE WITNESS: Oh, 4.7. Okay. Let's
20 see, 4.2, 4.5, yes, toward the end of this.
21 Okay. So -

22 JUDGE JULIUS: It looks like it's page
23 198.

24 THE WITNESS: 198.

25 JUDGE JULIUS: Item 252 on the Bates

1 stamp.

2 THE WITNESS: Correct, I'm there, too.

3 MR. McNICHOLS: Thank you, sir.

4 THE WITNESS: I'm there, too.

5 BY MR. McNICHOLS:

6 Q Are you there?

7 A Yes.

8 Q And these are the organizations that
9 you listed for their expertise in the particular
10 conditions that were under analysis in the part
11 2 test, correct?

12 A Correct.

13 Q And what you've listed --

14 JUDGE JULIUS: Sir, I will stop you
15 right there, just to let you know the time for
16 your opposing states has expired. You also are
17 representing SAM, so if you'd like to continue
18 with your time, that will start the clock on
19 your SAM time.

20 MR. McNICHOLS: That's. And is -- it's
21 11:30 right now.

22 JUDGE JULIUS: It is.

23 MR. McNICHOLS: Is it the Court's
24 preference to go to noon?

25 JUDGE JULIUS: That would be my

1 preference. I also know the difficulties that
2 can come from bifurcating examinations, so if
3 you want to find a good place to stop, we can
4 pause then, and we can adjust our lunch hour
5 accordingly.

6 MR. McNICHOLS: With that in mind, why
7 don't I, I guess, round out or finish my
8 examination on this particular topic, and then
9 we can break if that's suitable to the Court and
10 the witness?

11 JUDGE JULIUS: Sounds like a plan.

12 MR. McNICHOLS: All right, great.

13 JUDGE JULIUS: Thank you.

14 MR. McNICHOLS: Thank you. Now --

15 MS. MAN: So just -- I'm sorry. Just
16 for clarification, so now we're starting the SAM
17 clock time?

18 MR. McNICHOLS: Now this is SAM time,
19 correct.

20 MS. MAN: Okay, I just wanted to make
21 sure.

22 MR. McNICHOLS: Correct.

23 MS. MAN: Okay. I just wanted to make
24 sure. Thank you, Counsel.

25 MR. McNICHOLS: Yes.

1 JUDGE JULIUS: So the one hour starts
2 now.

3 MR. McNICHOLS: Now here in 4.7, under
4 Summary of Expert Opinions and Physician
5 Statements, you've listed the professional
6 organizations that you thought had expertise
7 that was relevant to the conditions under
8 analysis in part 2, correct?

9 THE WITNESS: Correct.

10 BY MR. McNICHOLS:

11 Q And as you described it in your report,
12 the vast majority of these professional
13 organizations did not recommend the use of
14 marijuana in their respective specialty,
15 correct?

16 A Correct.

17 Q And in fact, the American Psychiatric
18 Association actually specifically recommended
19 against it, correct?

20 A Yes, that's correct.

21 Q Right. On the idea that it actually
22 has been known to worsen psychiatric conditions,
23 taking marijuana, that is, correct?

24 A Correct.

25 Q Okay. And in the same, one of the

1 associations -- or the organizations that you
2 listed here as to pain was the International
3 Association for the Study of Pain. You listed
4 that as well, correct, sir?

5 A Yes.

6 Q Okay. And they do not endorse the use
7 of marijuana or recommend the use of marijuana
8 for the treatment of pain, correct?

9 A Yes. They say specifically that the
10 evidence base regarding efficacy and safety
11 fails to reach the threshold at which IASP can
12 endorse their general use for pain control. As
13 you know, in our findings, we focused more on
14 neuropathic pain specifically as providing
15 evidence of some benefit with credible
16 scientific support.

17 Q We'll come back and talk about that,
18 sir, when we get into the rest of your report.
19 Those are my questions, Your Honor, as to the
20 sixth bucket, as I call it. If this is a
21 suitable time to break in the middle, we can go
22 to lunch now.

23 JUDGE JULIUS: That sounds like a good
24 plan. We'll still take just the hour, so
25 instead of from 12:00 to 1:00, we'll go from

1 11:30 to 12:30. So we'll still do the hour
2 lunch. I'll see everyone back here at 12:30.
3 Please be safe out there. It is very warm.
4 Stay cool, get water, hydrate, all that good
5 stuff. We'll be in recess until 12:30. Thank
6 you.

7 MR. McNICHOLS: Thank you.

8 THE LAW CLERK ~~BAILIFF~~: All rise.

9 (Whereupon, the above-entitled matter
10 went off the record at 11:31 a.m. and resumed at
11 12:31 p.m.)

12 JUDGE JULIUS: A good lunch, and we are
13 ready to resume with SAM cross-examination.
14 Sir, if you would please retake the witness
15 stand.

16 And, Counsel, whenever you're ready.

17 CROSS-EXAMINATION

18 BY MR. McNICHOLS:

19 Q Sir, have you had any discussion with
20 anyone about your testimony during the lunch
21 break?

22 A No.

23 Q Before we took off for lunch, we were
24 talking about the five buckets that fed into
25 your Part 2 analysis for currently accepted

1 medical use.

2 And, I think you agreed earlier that
3 the first one consisted of the national surveys,
4 groups like ICPS, NSDUH, MTF, and then another
5 one. Is that familiar?

6 A The RFSS, yeah.

7 Q Right. Okay. And, the national
8 surveys will give you information on patterns of
9 use, correct?

10 A Yes.

11 Q Okay. And, you agree with me that
12 surveys are not studies?

13 A They're a form of studies. They're --

14 Q Right. Well, they're not double-
15 blinded, right?

16 A No.

17 Q They're not placebo-controlled?

18 A I'm trying to think. Sometimes there
19 are observational st -- no.

20 Q Okay. Right. And, for that reason,
21 you did not look to that group of studies for
22 proof of the efficacy or the effectiveness of
23 marijuana, correct?

24 A No. I mean, correct, yeah.

25 Q Okay. Now, the state surveys from

1 Maryland and Minnesota, similarly, those are not
2 double-blinded studies, correct?

3 A Correct.

4 Q They're not placebo-controlled,
5 correct?

6 A Correct.

7 Q Right. And, in the same vein, you did
8 not look to them for proof of efficacy of
9 medical marijuana, correct?

10 A Correct.

11 Q Okay. And, you also mentioned as one
12 of the buckets, the FDA-approved products that
13 contained THC or some other cannabinoid, is that
14 right?

15 A It was dronabinol, which is one of the
16 stereoisomers of Delta-9 THC.

17 Q Right. And, the particular drugs that
18 you looked at I think were Marinol, Syndros,
19 Cesamet, and then Epidiolex. Is that right?

20 A Epidiolex, Cesamet, I think, and yes,
21 the other two, Marinol and Syndros.

22 Q Okay. Now, you agree with me, sir,
23 this may be obvious, but none of those
24 substances are actually marijuana, correct?

25 A Yes. Agreed.

1 Q They're not within the definition of
2 marijuana that you used, correct?

3 A Dronabinol is a compound in marijuana.
4 Marijuana's definition says all compounds, all
5 preparations, derivatives. Dronabinol as a
6 chemical entity, is chemically identical to
7 compounds in marijuana.

8 And, also would contribute to the 0.3
9 percent standard that makes marijuana,
10 marijuana.

11 Q The products that we're talking about,
12 sir, by your analysis in the Part 2 memo that
13 you prepared, do not fall under the definition
14 of marijuana, correct?

15 A Correct.

16 Q And, you agree with me that there are
17 limits on the conclusions you can draw about
18 whether they work when they are refined
19 substances, rather than marijuana itself,
20 correct?

21 A It is a scientific question to
22 investigate, yes.

23 Q Okay. And, none of those drugs, FDA-
24 approved drugs, are approved for the pain
25 indication, correct?

1 A Correct.

2 Q Okay. And, of those drugs, I think, is
3 it called Cesamet?

4 A I believe so, yeah.

5 Q I was mispronouncing it earlier.

6 A You know, I might be the one
7 mispronouncing it.

8 Q Either way, sir. We'll --

9 A Either way, either way we choose.

10 Q Okay. All right. But, Marinol,
11 Syndros, and Cesamet are all drugs that use THC,
12 correct?

13 A No. Actually, Cesamet uses a keto
14 analog of THC. It has a double bond to oxygen
15 in place of a methylene CH₂ group.

16 Q Okay. And, does that limit the kind of
17 conclusions you can draw from Cesamet because it
18 does not have THC?

19 A Yes. Yeah.

20 Q Makes it less analogous to marijuana,
21 correct?

22 A Yes.

23 Q Okay. But, for Marinol, Syndros, and
24 Cesamet, those drugs -- oh, wait a minute.

25 A You know, while you're looking, I'm

1 also going to turn to the page where we discuss
2 that, if you don't mind. Just give me a minute.

3 Q I do not, sir. I'm looking there as
4 well. Yeah. It's in Tab Three of the report.

5 A Um-hum.

6 Q And, I think the page number at the
7 bottom, well, hold on, let me help you out.
8 Section 4.6., my colleague is going to make sure
9 we get on the right page.

10 A Okay.

11 JUDGE JULIUS: And, just to be clear
12 for the record, we're looking at which document?

13 MR. McNICHOLS: This is Part 2 of Dr.
14 Chiapperino's analysis. It is included within
15 ALJ Exhibit 1, and part of Government's Exhibit
16 3.

17 But, I broke it out into three just so
18 it would be easier to find stuff.

19 JUDGE JULIUS: Thank you, Counsel.

20 MR. McNICHOLS: Yes, sir.

21 THE WITNESS: This is 4.2 only. Now
22 I'm at 5.6 here.

23 MR. HARRINGTON: You guys don't have
24 those numbers for us?

25 MR. McNICHOLS: John does.

1 MR. HARRINGTON: Okay.

2 THE WITNESS: Tab 3?

3 MR. McNICHOLS: Tab 3.

4 MR. HARRINGTON: 4.6.

5 JUDGE JULIUS: I think it's page 197 of
6 252 on the Bates.

7 MR. McNICHOLS: Yeah.

8 THE WITNESS: Thank you. Okay. Thank
9 you.

10 BY MR. McNICHOLS:

11 Q Okay. My question to you concerns the
12 scheduling of these analogs that you've listed
13 here in section 4.6.

14 Now, I think you said that Marinol is a
15 substance that contains a synthetic version of
16 THC, correct?

17 A Correct.

18 Q And then, Syndros also contains a
19 synthetic version of THC?

20 A Synthetically derived, yes.

21 Q Okay. And then, Cesamet is the one
22 that is a synthetic analog of THC, correct?

23 A Correct.

24 Q Okay. Now, Syndros and Cesamet are
25 both controlled under FDA Schedule II, correct?

1 A Syndros is controlled in Schedule II,
2 and Cesamet, yes.

3 Q Right. And, drugs in Schedule II are
4 those that have a high risk of abuse, correct?

5 A Correct.

6 Q Right. In fact, the only difference
7 between Schedule I and Schedule II, is that
8 drugs in Schedule II have a currently accepted
9 medical use, correct?

10 A Correct.

11 Q So, two of the three drugs that you
12 have here as analogs to marijuana that contain
13 either THC or an analog, are deemed by the FDA
14 to have a high risk of abuse, correct?

15 A Yes. They were controlled at their
16 respective times in those Schedules, which are
17 now eight years ago, or seven years ago for one
18 and many years ago for the other.

19 Q And, as of today, though, my question
20 is that's still correct, correct?

21 A Yes. The Schedule II status is still
22 correct.

23 Q Right. And, as of today, they're still
24 deemed by the FDA, therefore, to have a high
25 risk of abuse, correct?

1 A There's been no reevaluation of the
2 drugs by FDA. They are deemed by DEA to still
3 be controlled in Schedule II, yes.

4 Q Which means, sir, to my question, they
5 have a high risk of abuse by FDA standards?

6 A By FDA standards, that's a different
7 question, yes.

8 Q And, in light of the limitations of the
9 surveys and the drugs themselves, am I right,
10 sir, that in your analysis of the efficacy of
11 marijuana for these particular indications, that
12 you were primarily relying on the literature
13 review conducted by the University of Florida,
14 and the literature review conducted by the
15 medical officer team at FDA?

16 A Yes. I think those are the two more
17 significant contributions to the review.

18 Q Right. And, those were buckets two and
19 three in the list that we talked about before --

20 A Yes.

21 Q Correct?

22 A Yes.

23 Q Okay. Now, as between those two
24 literature reviews, sir, am I right in
25 understanding that the University of Florida did

1 a deeper dive into the literature than the
2 medical officer team at FDA?

3 A No. I don't -- I can't say yes or no
4 to that question. I think they both did
5 independent systematic reviews.

6 I can't qualify one as being more
7 comprehensive than the other. I think they were
8 similar efforts.

9 Q Well, you described this yesterday as
10 bringing in the University of Florida as
11 something of a resourcing issue. You recall
12 that testimony?

13 A Yes, I do.

14 Q Okay. And, the University of Florida
15 team was from the Epidemiology Department. You
16 recall that?

17 A I believe that most of them were in the
18 Department of Epidemiology.

19 Q Okay. And, how many people did they
20 have working there?

21 A Um --

22 Q Let's get -- withdrawn. How many
23 people did they have working on this particular
24 project?

25 A I cannot say. I was only in

1 discussions that had representatives of the
2 group. And, the Office of Surveillance and
3 Epidemiology served more as a primary contact
4 from FDA.

5 Q Okay. Well, can you tell me how many
6 people in the FDA's medical officer group were
7 involved in reviewing literature as part of this
8 review?

9 A Two within my team and a person and
10 their team leader in the Office of Surveillance
11 and Epidemiology medical use team, not non-
12 medical use team that did the epidemiological
13 data analyses on harms.

14 Q Sounds like three people.

15 A Four, yeah.

16 Q Four. Do you know whether the group at
17 the University of Florida was bigger or smaller
18 than four?

19 A It might have been four, because there
20 were only two that I remember by -- from the
21 meetings that we had in the beginning of the
22 process.

23 Q The reason for my initial question
24 about the deeper dive, sir, was that in your
25 description, in your report --

1 A Yeah.

2 Q It appeared you stated that the medical
3 officer team did a review of meta-analyses. Is
4 this ringing a bell?

5 A Yes.

6 Q Okay. And, what is a meta-analysis?

7 A A meta-analysis is when you bring in
8 some number of studies that have a similar
9 enough design to be considered comparable to
10 each other, where you might pool the data to see
11 the results of that meta-analysis.

12 Q Right. And, the meta-analysis is the
13 pooling of the data from other individual
14 studies, correct?

15 A Yes.

16 Q Great. Right. And, the University of
17 Florida, though, actually went and reviewed
18 study by study, correct?

19 A Yes.

20 Q Great. And, in fact, the studies that
21 they reviewed were worked out with you
22 beforehand.

23 You agreed on search terms, and date
24 ranges, and databases, and things like that,
25 correct?

1 A Correct. But, they also looked for the
2 opportunity for meta-analyses.

3 Q Right. But, where I'm going with this
4 though, is that the FDA's review team looked
5 only at the meta-analyses, not at the individual
6 studies, correct?

7 A I think that the medical officer looked
8 at a systematic literature review. And, I
9 think, he did look at the references in that to
10 see what studies were included in it.

11 Q Okay.

12 A I can't speak to the details right now
13 as to what he did. But, I think, it involved
14 looking at individual studies, even if it was a
15 systematic literature review.

16 Q Okay. And, when you say even if it was
17 a systematic literature review, you mean he
18 would have reviewed it at one level ~~of~~ removed
19 in a pooled data, rather than at the individual
20 level, correct?

21 A I'm saying he may have done both.

22 Q You don't know.

23 A I don't know at this moment, no.

24 Q Okay. Great. Now, when did your team,
25 or excuse me, when did the FDA's team start

1 doing the literature review that fed into your
2 analysis here, sir?

3 A Probably by March.

4 Q Okay.

5 A Yeah.

6 Q And, when did the University of Florida
7 team finish its review?

8 A I think we got their report in July.

9 Q Okay. So, in other words, both teams
10 were --

11 A Maybe, I think actually, I'm sorry, not
12 to interrupt you, but, I think there were
13 actually two reports, one on non-medical use,
14 one on medical use.

15 I think we received them a few weeks
16 apart. And, I don't recall in the moment which
17 one we received first.

18 Q All right. But, it sounds like the two
19 teams that were involved in the literature
20 review were working in parallel. Is that
21 correct?

22 A Correct. Yeah.

23 Q All right. Now, as to the pain
24 indication, I think yesterday you said that the
25 FDA's medical officer team and the University of

1 Florida's team that did the literature review,
2 shared the same view of what the data showed.

3 Is that fair?

4 A I think I said that, yes.

5 Q Okay. Well, you see, that's at odds,
6 at least how I read the report, which seemed to
7 suggest that University of Florida's team
8 thought, as to the pain indication, that the
9 data was inconclusive or mixed.

10 You recall writing that in your report?

11 A I recall reading that, yes. I didn't
12 write that section, yes.

13 Q Okay. Well, did the FDA's medical
14 officer team that did the literature review,
15 share the view of the University of Florida team
16 that the data was inconclusive or mixed as to
17 the pain indication?

18 A So, the University of Florida team is
19 providing a work product. The medical officer
20 team and CSS is both doing their own review
21 separately.

22 And, they're also responsible for
23 writing the CAMU Part 2 document. So, they also
24 had the responsibility of summarizing results of
25 the University of Florida report.

1 So, in bringing in the University of
2 Florida report summary as Section 4 point
3 something UF, that was written by the medical
4 officer reading the University of Florida
5 report, documenting their findings, and then
6 writing about his own findings.

7 Q Right. But, my question to you is not
8 that, sir.

9 A Yeah.

10 Q My question to you is where, whether as
11 to the pain indication, the FDA team agreed with
12 or disagreed with the words written in the
13 report --

14 A Yeah.

15 Q That the Florida team thought the
16 results were inconclusive and --

17 A Yes.

18 Q Mixed on the pain indication. Did they
19 agree with that?

20 A Yeah. I think they disagreed with the
21 UF team and concluded themselves from a broader
22 look at the data that there was support.

23 Q Okay. That's where I'm going with
24 this.

25 A Yeah.

1 Q So, as between the two reads of the
2 data and the one that ultimately ended up in the
3 eight-factor analysis here --

4 A Um-hum.

5 Q Or, excuse me, the currently accepted
6 medical use analysis, you went with the review
7 of the FDA team, not the view of the Florida
8 team, correct?

9 A Yes. The review of the FDA team
10 focused also on neuropathic pain individually as
11 a special category of pain, which is common in
12 drug approvals to have specific painful
13 conditions with their own approval.

14 Not everything could be, could meet
15 approval for a broad pain indication. Some
16 things have to look at a specific disease
17 condition in order to find a patient population
18 that benefits.

19 So, as we testified earlier, you only
20 need one currently accepted medical use. The
21 medical officer thought about that through the
22 lens of many potential specific pain
23 indications, and his findings is based more in
24 the finding for neuropathic pain as showing
25 better efficacy.

1 I shouldn't use the word efficacy, more
2 effectiveness that meets the credible scientific
3 support standard.

4 Q Okay. But, the University of Florida
5 and the team that you hired to review the
6 literature, they reviewed the same studies,
7 correct?

8 A Correct.

9 Q Okay.

10 A I believe they were the same.

11 Q And, they thought on the neuropathic
12 pain condition that the literature on that point
13 was inconclusive or mixed, correct?

14 A I would have to look at their section
15 that we summarized here, on whether it's
16 specific to neuropathic pain. I don't know
17 offhand how it was summarized.

18 Q Okay. Now, you mentioned earlier that
19 one of the professional organizations that you
20 reviewed in considering the pain indication was
21 the International Association for the Study of
22 Pain. Is that correct?

23 A Yes, correct.

24 Q Okay. And, one of the libraries that
25 you had the University of Florida team look in

1 for their literature review was called Cochrane,
2 correct?

3 A I believe so, yes.

4 Q Yeah. And, that is, for everybody,
5 that's a database of medical literature,
6 correct?

7 A Yes.

8 Q Okay. So, and they would have looked
9 or been instructed by your office to look for
10 things that bore on neuropathic pain, correct?

11 A I do not know if the directive to them
12 was that specific when we discussed the
13 indications that we wanted them to review.

14 There were also meetings that happened
15 that did not have me present. So, because this
16 was a task that was allocated to the medical
17 officer team, that I was monitoring progress, et
18 cetera.

19 So, I don't know how specific the
20 directive was to look at or no, don't bother
21 looking at subcategories of pain.

22 Q Okay. Well, let me ask you this, sir.

23 Is it fair to say, based on your understanding,
24 that it was the neuropathic pain indication that
25 tipped the balance for pain in favor of a

1 currently accepted medical use?

2 Am I understanding your testimony
3 correctly?

4 A I think that the broad pool of pain
5 studies, when pooled, showed a treatment
6 benefit. I think the treatment benefit that it
7 showed was small, and we noted adverse events.

8 I don't know if without the neuropathic
9 pain specialty we would have considered those
10 mixed results and that small margin meeting our
11 credible scientific support. I don't know,
12 because that wasn't the conversation.

13 We knew that we could conclude on the
14 basis of neuropathic pain that the standard was
15 met.

16 Q Okay. I think I understand what you're
17 saying, is that without the neuropathic pain
18 data, you don't know whether or not you would
19 have been able to make a finding that pain was a
20 currently accepted medical use for marijuana.
21 Is that correct?

22 A I think that's fair, yes.

23 MR. McNICHOLS: Okay. All right.
24 Okay. Okay. I'm handing you a document, sir,
25 that's not been marked as an Exhibit yet. But,

1 we're going to ask to have it marked as SAM
2 Exhibit 45.

3 (Whereupon, the above-referred to
4 document was marked as SAM Exhibit No. 45 for
5 identification.)

6 MR. McNICHOLS: And, I want you to take
7 a look at it. And, it says on the front,
8 Cannabis-Based Medicines for Chronic Neuropathic
9 Pain in Adults.

10 And, it appears to be found within the
11 Cochrane Library. You see that, sir?

12 THE WITNESS: Yes, I do.

13 BY MR. McNICHOLS:

14 Q Okay. And, the authors of this are
15 someone named Mucke, Phillips, Radbruch, Petzke,
16 and Hauser. You see that, sir?

17 A Yes.

18 Q Okay. And, this document, at least at
19 the bottom, suggests a copyright of 2018, for
20 the Cochrane Collaboration.

21 You see that, sir?

22 A Yes.

23 Q Right. So, this would have been a
24 document in existence at the time you were doing
25 your review, correct?

1 A Yes.

2 Q Okay. And, if you go to page two on
3 this document, which is actually the fourth page
4 in, there's something called the plain language
5 summary.

6 And, let me know when you're there.

7 A I'm there.

8 MS. MAN: Your Honor, the --

9 MR. McNICHOLS: And, what it says on
10 this is, bottom line --

11 JUDGE JULIUS: Is there an objection or
12 something?

13 MS. MAN: There is. I think we're
14 missing a few questions about whether or not
15 this was considered in his review. Because, if
16 he considered it in his review, I think it's
17 fair game.

18 But, if he didn't consider this in his
19 review, then I would ask that the Court find
20 that the Touhy letter does not allow him to
21 opine on something outside of what he considered
22 for his review.

23 JUDGE JULIUS: Well, I think, so far
24 he's just been asking him to verify what the
25 document says on its face.

1 MS. MAN: Sure. But, the next question
2 is going to be an opinion. And, I'll have an
3 objection there.

4 But, I think we're missing a couple
5 ground laying, some foundational questions.

6 JUDGE JULIUS: I'm going to overrule
7 the objection for now. I think, he's just
8 asking him to verify what the document says at
9 this point.

10 If we get to something that's
11 objectionable, I will hear further objections.

12 MS. MAN: That's fair.

13 JUDGE JULIUS: But, at this point I'm
14 going to overrule the objection, and you can
15 continue your questions.

16 MR. McNICHOLS: Thank you. And, if you
17 turn with me, let me know when you're on page
18 two, sir.

19 THE WITNESS: Yeah, I'm on it.

20 BY MR. McNICHOLS:

21 Q And, what it says under plain-language
22 summary, under the phrase bottom line, is there
23 is a lack of good evidence that any cannabis-
24 derived product works for any chronic
25 neuropathic pain.

1 Do you see that, sir?

2 A I see it.

3 MR. McNICHOLS: Okay. Can we move this
4 into evidence now, Your Honor?

5 JUDGE JULIUS: Any objection?

6 MS. MAN: No objection.

7 JUDGE JULIUS: All right. SAM Exhibit
8 45 will be admitted.

9 (Whereupon, the above-referred to
10 document was received into evidence as SAM
11 Exhibit No. 45.)

12 MR. McNICHOLS: Thank you, sir.

13 Now, another indication for one of the
14 ones that passed the Part 2, part of your
15 analysis was that of anorexia, correct?

16 THE WITNESS: Yes.

17 BY MR. McNICHOLS:

18 Q And, I believe you testified yesterday
19 that the University of Florida team and the FDA
20 team shared the view as to the current medical
21 use, currently accepted medical use of anorexia.

22 Is that correct?

23 A Yes.

24 Q Okay. Well, as I was reviewing your
25 report, I actually had a different take on it.

1 There it looked like the FDA's review of the
2 meta-analysis showed mixed results.

3 Is that consistent with your
4 recollection?

5 A I would have to look. But, I won't
6 argue the point now. Yeah.

7 Q Well, I have some time left in the
8 cross-examination, sir.

9 A Okay.

10 Q Let's go to page 26 --

11 A Sure.

12 Q Of Tab 1, which is the main report, the
13 final one and the recommendation that went over
14 to DEA.

15 A Yeah.

16 Q Thank you.

17 A Yes.

18 MS. MAN: I'm sorry Counsel, Tab 1?

19 JUDGE JULIUS: I'm sorry Counsel, could
20 you repeat where you're looking?

21 MR. McNICHOLS: Yeah. We're going to
22 square this away right now. Before any questions
23 though, sir.

24 MS. MAN: Could you do me a favor,
25 Counsel --

1 MR. McNICHOLS: Page 27.

2 MS. MAN: Which tab is that, gentlemen?

3 MR. McNICHOLS: Tab 1.

4 MR. HARRINGTON: On the Government's
5 Bates stamp, it's page 27.

6 MS. MAN: Tab 1?

7 JUDGE JULIUS: This is at Government's
8 Exhibit 3. Is that right?

9 MR. HARRINGTON: Yes, Government's
10 Exhibit 3.

11 JUDGE JULIUS: Is that August 29, 2023?

12 Okay. I just wanted the record to be clear
13 about what document we're looking at. Thank
14 you, Counsel.

15 MR. McNICHOLS: Yeah. Now, just to my
16 point, you can read it on here if you need to,
17 sir, but my question ultimately was that the
18 FDA's view of the literature on the anorexia
19 indication was that it showed mixed results,
20 correct?

21 THE WITNESS: Which paragraph on that
22 page are you looking at?

23 MR. McNICHOLS: Well, actually, may I
24 approach the witness?

25 JUDGE JULIUS: Yes, you may.

1 MR. McNICHOLS: It's this, sir. This
2 is the one I would look at.

3 THE WITNESS: Okay. Yeah, I see
4 anorexia there. Okay.

5 BY MR. McNICHOLS:

6 Q Thank you. Can you verify for me
7 there, sir, that as the FDA's findings are
8 described in that paragraph, the results of the
9 literature review were mixed as for the anorexia
10 indication, correct?

11 A Well, the sentence before it lists
12 three indications, anorexia, nausea and
13 vomiting, and PTSD. Then there is a however
14 statement about FDA, and we only speak about
15 PTSD, so.

16 Q Actually, I disagree, sir. Let's drill
17 down on that. Let's be very careful. I see the
18 sentence you're talking about.

19 UF, which means University of Florida,
20 correct?

21 A Yes, yes.

22 Q Found that there is low to moderate
23 quality evidence supporting the use of marijuana
24 as a medical treatment for outcomes in anorexia,
25 nausea and vomiting, and PTSD. Do you see that?

1 A Yes.

2 Q Okay. And, after that, however, FDA
3 review of systematic review showed mixed results
4 for these indications.

5 And, I thought indications there
6 referred to the same ones that were mentioned in
7 the prior sentence. Do you see that, sir?

8 A Yes.

9 Q Okay. In other words, that sentence
10 verifies that according to FDA's literature
11 review, the results for the anorexia indication
12 were mixed, correct?

13 A I see that that is a -- yeah, it could
14 be that meaning.

15 Q Okay. So, as to the anorexia
16 indication, in concluding that a currently
17 accepted medical use had been established for
18 that indication, you went with the views of the
19 University of Florida rather than the views of
20 the FDA based on reviews of the literature,
21 correct?

22 A I agree that there is a problem with
23 the way that sentence is written. If I may, I
24 think that, to be clear, the low to moderate
25 quality of evidence, and I think you know this

1 as well, means that with a moderate quality of
2 evidence, the actual result is probably similar
3 to the observed result.

4 So, that was considered meeting the
5 credible scientific support standard. So, UF is
6 saying that the standard is met for those three
7 indications.

8 We do have a sentence after that that
9 suggests that all three of those findings are
10 sort of questionable, and that is problematic
11 wording. However, I don't think there was ever
12 disagreement between FDA and UF in all three of
13 those indications.

14 Q But, isn't --

15 A I know that we took issue what --

16 Q Go ahead, sorry. Finish your sentence.

17 A Okay. I'll let you go.

18 JUDGE JULIUS: Were you done with your
19 answer, sir?

20 THE WITNESS: Well, I was just going to
21 say the only indication that we wanted to
22 reverse in these findings was PTSD. Had the
23 medical officer intended to reverse views on the
24 others, they would have chosen to.

25 But, the conclusion was that the only

1 one that we reversed our findings versus UF was
2 PTSD. In that sentence, I should say.

3 MR. McNICHOLS: Yeah. Well, actually,
4 the FDA's view of the anorexia indication, I
5 think, is covered at 4.4.1.7 of Tab 3 of your
6 report.

7 JUDGE JULIUS: I'm sorry, Counsel,
8 could you repeat that section?

9 MR. McNICHOLS: 4.4.1.7, sir.

10 JUDGE JULIUS: Thank you.

11 THE WITNESS: Okay, getting there
12 almost.

13 JUDGE JULIUS: And, just for the
14 record, this is Government's Exhibit 3, page 80.
15 It's also an ALJ Exhibit.

16 Just keeping track for the record of
17 what document we're actually looking at in real
18 time.

19 MR. McNICHOLS: Yes, sir. Thank you.

20 JUDGE JULIUS: Okay, thank you.

21 MR. McNICHOLS: And, are you there at
22 section 4.4.1.7 entitled Anorexia Related to
23 Medical Conditions, sir?

24 THE WITNESS: Yes.

25 BY MR. McNICHOLS:

1 Q And, does that section there summarize
2 the FDA medical officer's write-up of the
3 literature as it pertains to the anorexia
4 condition?

5 A I'm going to read more of it. Hold on
6 one minute. Okay. I've, I think, digested
7 those paragraphs.

8 Q My question to you, sir, are those
9 paragraphs under 4.4.1.7 entitled Anorexia
10 Related to Medical Conditions, do those
11 summarize the FDA medical officer's conclusions
12 as to the literature review for the anorexia
13 indication?

14 A I think this was a summation of all
15 available data on the indication. Is 4.4 at the
16 beginning entitled, what is the heading 4.4 in
17 the --

18 Q I think that says FDA Review of the
19 Literature, sir.

20 A Okay.

21 Q On that 4.4. See what I'm saying?

22 A Okay.

23 Q And, my next question then, is the
24 bottom line, the concluding sentences of this
25 were, In summary, it appears the majority of

1 systematic reviews covered synthetic forms of
2 THC with limited information supporting
3 marijuana's benefit related to this review.

4 You see that, sir?

5 A I do.

6 Q Okay. Now, is it fair to say, sir,
7 that for each of the three indications that
8 passed your Part 2 analysis, that there were
9 competing interpretations of the data?

10 A I think there were some different
11 views, yes.

12 Q Okay. There was no consensus view as
13 to whether marijuana offered a benefit to
14 helping with these conditions, correct?

15 A Between the UF and FDA, there were
16 differences.

17 Q And, as to each of those three
18 indications, in coming to the conclusion of a
19 currently accepted medical use, you went with
20 the interpretation that favored the currently
21 accepted medical use, correct?

22 A I think I would want to read a little
23 bit from Section 5, Overall Conclusions, because
24 each of these subcategories draws conclusions in
25 a certain category.

1 It was in Section 5 that, I think, we
2 pulled together the views of these.

3 Q I have a limited amount of time, sir.

4 A All right.

5 Q I just want, as you're sitting here --

6 A Okay.

7 Q Do you know the answer to my question?

8 As to each of these three indications, did you
9 resolve the doubts in favor of an interpretation
10 that favored a finding of currently accepted
11 medical use?

12 A We favored the finding listed as the
13 conclusion from the medical officer reviewing
14 these. Yeah.

15 Q Which in this case was, there is a
16 currently accepted medical use?

17 A Yes.

18 Q Now, I want to shift gears for just a
19 moment and talk about the safety of marijuana as
20 to these indications, because that was also part
21 of your analysis under Part 2, correct?

22 A Yes.

23 Q Okay. And, in your discussion
24 yesterday with Ms. Man, it appeared as though
25 you gave significant weight to the state surveys

1 from Maryland and Minnesota. Is that right?

2 A We gave weight to them. I mean,
3 significant, you know, it depends where we had
4 data to weigh.

5 Sometimes data was limited in the
6 clinical studies, so, yeah.

7 Q Okay. Right. But, you recall
8 testifying yesterday on direct examination, for
9 example, that as to the Maryland and Minnesota
10 surveys that there were not a significant number
11 of adverse events reported?

12 A Serious adverse events, yes.

13 Q And, not a significant number of
14 serious adverse events. Okay.

15 A Yes.

16 Q All right. And, it just sounded as
17 though that played a part in your conclusion
18 that there was a currently accepted medical use
19 for these indications, correct?

20 A Yes. Had we saw an unfavorable
21 imbalance of benefit versus serious adverse
22 events, we would not have made a finding of
23 credible scientific support, as was the case
24 with PTSD.

25 Q Okay. Now, we talked about this a

1 little bit before, sir, but I think you agreed
2 with me that a survey is not the same thing as a
3 double-blinded study, correct?

4 A Correct.

5 Q Okay. And, in fact, the studies that
6 you relied on here from Maryland and Minnesota
7 are ones based on voluntary participation,
8 correct?

9 A Correct.

10 Q Okay.

11 A Well, no. Well, for Minnesota, if
12 they're going to acquire medical marijuana, they
13 must fill out a patient questionnaire.

14 Q Okay.

15 A So, that's different.

16 Q Right. Right. But, it's -- I'm right
17 though, am I not, that neither of these state
18 surveys that you relied on actually included
19 information from patients who stopped taking
20 marijuana?

21 A Yes, I agree.

22 Q Okay. Which could, as I think you
23 acknowledge in your report, skew the safety
24 results in a positive direction, correct?

25 A I think it skews more whether the

1 patient thought that it was working for their
2 condition. I think, well, we did also note that
3 a negative experience could be the reason that
4 they don't come back. That's speculative.

5 Q Right. But, you took that into account
6 when you were writing your report, correct?

7 A Yes. Yes.

8 Q Right. And, that's a limitation of the
9 study, correct?

10 A Yes, it is.

11 Q Okay. And, the effects that were
12 documented in these studies, can they be defined
13 as events?

14 A Say that one more time, please.

15 Q Let me try a little bit better
16 question, sir.

17 A Yeah.

18 Q That was not. That some of the adverse
19 effects that I saw captured in the Maryland and
20 Minnesota studies were things like panic
21 attacks, and anxiety attacks, shortness of
22 breath, correct?

23 A I think so, yes.

24 Q You know, and I'm describing those as
25 discrete events. Do you understand what I'm

1 saying?

2 A Yes.

3 Q Okay. Now, what they, these studies
4 did not assess, though, neither the Maryland
5 study nor the Minnesota one, was any long-term
6 degeneration as a result of chronic marijuana
7 use, correct?

8 A Correct.

9 Q Right. And, that is a concern when
10 you're talking about marijuana, correct?

11 A Correct.

12 Q Right. And, yesterday when you were
13 describing some of the conditions that you saw
14 people taking marijuana for, I think it was in
15 the Minnesota study, one of them was anxiety,
16 correct?

17 A Correct.

18 Q Depression?

19 A Yes.

20 Q You say yes?

21 A Yes.

22 Q PTSD?

23 A Yes.

24 Q And, bipolar disorder, correct?

25 A Yes. To a lesser extent, yes.

1 Q Okay. But, all of those, right, are
2 mental health conditions, correct?

3 A Correct.

4 Q Okay. And, at least as to mental
5 health conditions, we saw earlier that the
6 American Psychiatric Association indication
7 has said that marijuana use is known to worsen
8 those conditions, correct?

9 A Yes.

10 Q Okay. And, as to PTSD, your own review
11 of the literature suggested that the risks of
12 adverse events outweigh the benefits, correct?

13 A Yes.

14 Q Okay. And, those were all indications
15 that appeared in one of the surveys that you're
16 relying on for safety, correct?

17 A That survey reveals that many of the
18 survey respondents were using it for that
19 indication, yes.

20 Q And, you --

21 A We don't connect, in that survey, we
22 were not able to connect reported adverse events
23 by indication, I don't think.

24 Q But, you were relying on that survey,
25 sir, in your conclusion that the safety of

1 medical marijuana --

2 A Yeah.

3 Q Was adequate, correct?

4 A Actually, those surveys served a
5 different purpose. There was a landscape
6 analysis where we looked at that data early on
7 to support which findings, which indications we
8 were going to use.

9 So, even though maybe it has been
10 discussed, it could be confused as a bucket of
11 support. It, well, has some bucket of support.

12 The safety-reported adverse events are
13 important. But, the study of indications and
14 other details about medical use patterns were
15 actually helpful in making determinations as to
16 which indications to focus on.

17 Q Are you saying, sir, that you did not
18 rely on the state surveys from Maryland and
19 Minnesota in arriving at your conclusion that
20 marijuana was safe as to the three indications
21 that passed Part 2?

22 A No, we did weigh safety data.

23 Q That's my only question.

24 A Okay.

25 Q And, the surveys are safety data,

1 correct?

2 A I'm sorry. Say that again.

3 Q The surveys are safety data?

4 A They provided safety data.

5 Q All right. Now, I want to shift gears
6 briefly and talk about the other components of
7 your eight-factor analysis.

8 One of which, which sort of filters
9 down to various factors, is a drug's potential
10 for abuse, correct?

11 A Yes.

12 Q And, under the eight-factor analysis,
13 there are several of the factors which actually
14 bear on this to one degree or another. Do you
15 agree?

16 A Yes.

17 Q Okay. Factor 1, for example, is
18 potential abuse. Factor 4, history and pattern
19 of abuse. And then, we can go on from there.

20 But, there's more than one factor that
21 touches on the abuse issue, correct?

22 A Yes.

23 Q All right. And, do you agree, I think
24 this has been established already, but do you
25 agree, sir, that by your analysis, as set forth

1 in your recommendation, marijuana is the most
2 frequently abused illicit drug in the United
3 States?

4 A Yes.

5 Q Okay.

6 A I want to remind you, though, that in
7 Factor 1A, it is the evidence that an individual
8 is using a substance in amounts sufficient to
9 create a hazard to himself.

10 So, it's, Factor 1 was not only about
11 potential for abuse, it's also about outcomes.
12 Yeah.

13 Q I understand. But, the other factors,
14 though, are not so limited, correct?

15 A Limited how?

16 Q Well, you said that Factor 1 is limited
17 because it's principally concerned with things
18 that'll affect someone's health.

19 A I don't think I said, did I say
20 limited, or was that your word?

21 I said that Factor 1A is about more
22 than just prevalence of use, is what I intended
23 to emphasize.

24 Q Okay. Now, you also agree that based
25 on your analysis as set forth in your report,

1 most use of marijuana in the United States is
2 non-medical?

3 A Yes, that's true.

4 Q And, non-medical use is abuse, correct?

5 A Some would argue in the case of that
6 use of a substance as marijuana is currently
7 being used, often the user is using it
8 consistent with their state laws.

9 So, use and abuse, we use the term non-
10 medical use too often to not suggest that every
11 use of a drug, even if it is a drug of abuse, is
12 not necessarily abuse.

13 Q One of the things that you consider
14 when considering abuse under Factor 1 is whether
15 an individual is taking the drug of their own
16 initiative --

17 A Yes.

18 Q And not based on medical advice,
19 correct?

20 A Correct.

21 Q So, taking the drug of your own
22 initiative and not based on medical advice means
23 abuse, correct?

24 A It's one of the considerations. It
25 doesn't say that it means abuse.

1 Q Right.

2 A It's a factor. They could be taking a
3 drug for a medical purpose but not under
4 someone's medical advice.

5 Q Okay.

6 A I mean, you have to consider the range
7 of possibilities for each of the A, B, C, D.

8 Q Okay. But, you at least agree, sir,
9 that under the Factors as you've outlined them
10 under your report, that taking marijuana or any
11 drug, not because a doctor tells you to, but
12 because you want to, counsels in favor of a
13 finding of abuse, correct?

14 A I think that abuse is excessive use.

15 Q Is that defined as such anywhere in the
16 document that you submitted to DEA?

17 A Not that phrase, no. I think that 1A
18 captures that users of a substance are, we weigh
19 whether they are using the substance in a way to
20 cause harm to themselves or others.

21 Q I think you said a minute ago, sir,
22 that if someone is taking medical marijuana
23 obtained through some legal program that, tell
24 me if I get this right, that you would not
25 consider that abuse, correct?

1 A I'm sorry. Say that again.

2 Q Yeah. If someone is taking marijuana
3 where it's legal under state law, you don't
4 consider that abuse?

5 A No. I'm saying that there are use
6 patterns, and there's a substance that some
7 people feel that they are using in a lawful way.

8 So, for people to label all such use as
9 abuse is, I think, unique for marijuana, that it
10 is unusual because it is not an illicit
11 substance in those states.

12 If you asked me a general question
13 about does abuse always mean, or does use of a
14 substance non-medically always mean abuse, I
15 would say that we have treated all non-medical
16 use as abuse.

17 Q Okay.

18 A And, I'm trying to be more nuanced
19 here, because we are dealing with a large
20 population that has access to recreational use
21 of marijuana. And, it seems unusual to
22 characterize all use of marijuana as drug abuse.

23 So, we're trying to weigh the harms
24 related to non-medical use. And, of course, if
25 it's used excessively, we would call that abuse.

1 Q Okay. Now, am I right, sir, that under
2 the diversion analysis in your report, right,
3 you focused only on legitimate use or sources of
4 marijuana, correct?

5 A Yes.

6 Q And, by the analysis --

7 A Under federal --

8 Q And your use of the word --

9 A Under federal law.

10 Q Hold on a second.

11 A Sorry.

12 Q By your use of the word legitimate in
13 your report, you do not include marijuana
14 obtained through state medical marijuana
15 programs, correct?

16 A Correct.

17 Q Right. That is not, under the
18 terminology of your report, a legitimate source,
19 correct?

20 A It's a source that we did not weigh for
21 the question of diversion from a legitimate,
22 diversion from a legitimate source. We only
23 talked about federal acceptable uses of
24 marijuana.

25 Q It's not a legitimate source, correct?

1 A Not under federal law.

2 Q And, not under the analysis that you
3 provided to the DEA, correct?

4 A I think that's right.

5 Q Now, in terms of abuse and the effects
6 of abuse, I think you'll agree, sir, that more
7 Americans are addicted to marijuana than any
8 other illegal drug, correct?

9 MS. MAN: Objection.

10 JUDGE JULIUS: Basis?

11 MS. MAN: Dr. Chiapperino's Touhy
12 letter does not ask him to opine about the
13 addiction rate of marijuana as compared to
14 anything else.

15 If it didn't go into his, excuse me, if
16 it didn't factor into his analysis, he can't
17 testify to that.

18 MR. McNICHOLS: This is directly in his
19 report, which compares addiction rates of
20 marijuana to other substances.

21 MS. MAN: Well, then I --

22 MR. McNICHOLS: I want to know whether
23 it's true that there are more Americans addicted
24 to marijuana than any other illegal drug
25 according to the analysis that you did in 2023,

1 sir?

2 JUDGE JULIUS: Hold on. We have an
3 objection. I haven't ruled on it yet.

4 Can you point the Court to where you're
5 referring, where he does this?

6 MR. McNICHOLS: Well, I'd rather see,
7 Your Honor, if the witness can answer the
8 question first before I have to direct him to
9 the document.

10 THE WITNESS: I would --

11 JUDGE JULIUS: Hold on.

12 THE WITNESS: Sorry.

13 JUDGE JULIUS: I understand your point,
14 Counsel. If it's in the report, then it's fair
15 game for question.

16 So, I'll overrule the objection with
17 the understanding that it is included in here.
18 And then, hopefully, we can get a direction once
19 we get some answers.

20 Okay, Counsel?

21 MR. McNICHOLS: Yes, sir.

22 Is it your understanding, sir, that
23 more Americans are addicted to marijuana than
24 any other illegal drug?

25 THE WITNESS: You're using a term, and

1 that's not the way we discuss substance use
2 disorder in the document.

3 BY MR. McNICHOLS:

4 Q Then let me withdraw my term then,
5 alter the question, I mean.

6 A Yeah.

7 Q Is it true, sir, that of all illegal
8 substances, substance use disorder is more
9 prevalent for marijuana than for any other
10 illegal substance?

11 And by more prevalent, I mean --

12 A Yes. Yes, it is. Because, I think,
13 the only other one is alcohol, yes.

14 MR. McNICHOLS: That's what I thought.

15 Okay. And, that's page 40 in case there were
16 concerns about that.

17 JUDGE JULIUS: Thank you, Counsel.

18 MR. McNICHOLS: And, the section
19 entitled National Survey on Drug Use and Health,
20 in case there's confusion about the page.

21 All right. Now, you mention alcohol
22 having more, but you agree with me, sir, that
23 alcohol is not a controlled substance?

24 THE WITNESS: Yes.

25 BY MR. McNICHOLS:

1 Q Okay. And, I think yesterday in your
2 analysis, and when you were testifying when Ms.
3 Man was asking you questions, you agreed that
4 you don't normally use unscheduled substances in
5 your eight-factor analysis. Is that correct?

6 A That is correct.

7 Q Have you ever, on any other previous,
8 any other occasion, used alcohol as part of the
9 eight-factor analysis?

10 A No.

11 Q Only for marijuana?

12 A Correct.

13 Q And, in terms of it, the effects of
14 using marijuana, am I right, sir, that marijuana
15 has been linked to mental health disorders?

16 A Yes. There's an association.

17 Q It's been linked to psychosis?

18 A Yes.

19 Q Schizophrenia?

20 A That is a psychosis, yes.

21 Q Bipolar disorder?

22 A Yes.

23 Q And, even suicide risk, correct?

24 A Yes.

25 Q All right. And, all of those things

1 are relevant to the abuse potential of this
2 substance, correct?

3 A Yes.

4 Q Okay. And, I think you testified
5 earlier, sir, that you try to be consistent in
6 the content that you put into each drug
7 evaluation, correct?

8 A Correct.

9 Q Okay. Now, in the eight-factor
10 analysis that FDA prepared for marijuana in 2015
11 --

12 A Um-hum.

13 Q There was actually a specific section
14 in there that mentioned marijuana and its effect
15 on mental health. You recall that?

16 A Yes.

17 Q Okay. Now, I did not, in your report,
18 see an analogous section that similarly outlined
19 the effects of marijuana on mental health, at
20 least not in the main report that you prepared.

21 Do you agree with that?

22 A Yes. We focused -- yes, I agree with
23 that.

24 Q Okay. And, what you did focus on, I
25 think you were about to say, in your discussion

1 of the abuse potential were the severest
2 outcomes of using illicit substances, correct?

3 A Yes.

4 Q Let me withdraw the question, sir. Oh,
5 sorry. Did you say yes?

6 A Severe, I think I used the term acute
7 also.

8 Q Acute.

9 A Yes.

10 Q And, those were things like overdoses,
11 correct?

12 A Correct.

13 Q Emergency room visits?

14 A Emergency room visits, yes.

15 Q Right. And, hospitalizations?

16 A Um-hum.

17 Q You said yes?

18 A Yes.

19 Q Poison center calls, correct?

20 A Yes.

21 Q And, even deaths, correct?

22 A Yes.

23 Q Okay. But, I think you agreed earlier
24 when my colleague, Mr. Kenneally, was asking you
25 questions, that harms below a fatal level are

1 still relevant to the question of the abuse and
2 public health impacts of a drug, correct?

3 A Say that one more time. Sorry.

4 Q That was probably a bad question, sir.

5 A drug does not to cause, did not have to cause
6 fatalities at any particular level in order for
7 it to potentially be a concern of abuse.

8 Correct?

9 A I would agree, yeah.

10 Q Right. Okay. And, what you talked
11 about yesterday in your discussion with Ms. Man
12 concerned the risk ratio and utilization rates
13 of harms for particular substances.

14 A Yes.

15 Q You recall that?

16 A Yes.

17 Q Okay. And, I think what you said was
18 that as too severe harms, things like overdoses,
19 ER visits, things like that, that on a
20 utilization-adjusted basis, marijuana has less
21 severe outcomes than certain other drugs in
22 Schedule I and Schedule II. Correct?

23 A Yes.

24 Q And, the drugs that you used for
25 comparison purposes were cocaine?

1 A I believe so.

2 Q Heroin?

3 A Yes.

4 Q Oxycodone?

5 A Yes.

6 Q Fentanyl?

7 A Yes.

8 Q Okay. Ketamine?

9 A That's Schedule III. Okay.

10 Q Right.

11 A And Hydrocodone, in Schedule II, yeah.

12 Q Okay. And, on a per user basis, those
13 things are more likely to kill you than
14 marijuana, correct?

15 A Yes.

16 Q Okay. But, where a drug falls on the
17 Schedule between I and V often does not align
18 with where it ranks in the severity of harms.
19 Do you agree with that?

20 A Yes, I think -- or yes. I'll just say
21 yes to keep it simple.

22 Q Okay. And, in fact, there are several
23 other Schedule I drugs that do not have a high
24 risk of overdose, correct?

25 A Yes.

1 Q LSD is one.

2 A Oh, yes.

3 Q Peyote is one.

4 A Yes.

5 Q Psilocybin is one.

6 A Yes.

7 Q Okay. And, one called DMT or
8 dimethyltryptamine as well.

9 A Dimethyltryptamine, yes.

10 Q Right. And, all of those drugs, in
11 other words, are in Schedule I, even though they
12 have a relatively low risk of overdose, correct?

13 A They do not have a currently accepted
14 medical use, yes.

15 Q Right. But, they're also, they don't
16 have a huge risk of --

17 A True.

18 Q Of hospitalization.

19 A True.

20 Q Okay. And, this rescheduling in 2023,
21 was not the first time that someone had
22 suggested using things like cocaine and
23 oxycodone as comparators to marijuana, correct?

24 A I'm sorry. Say that again.

25 Q Yeah. This rescheduling in 2023, the

1 one that you --

2 A Yeah.

3 Q Assembled a report for, --

4 A Yeah.

5 Q That was not the first time that
6 someone had suggested to the FDA that you use
7 things like cocaine and oxycodone as comparator
8 substances, correct?

9 A When you say the first time for a
10 marijuana review? I'm not sure what you're --

11 Q That is a legitimate point.

12 A Yeah.

13 Q So, let me harken back. In the 2015 --

14 A Yeah.

15 Q Review, or excuse me.

16 A Let me save your time. I don't know
17 what comparators were used in 2015. If you want
18 to state them, that would make this faster.

19 Q Let me ask you this. In 2015, the FDA
20 stated that it would be inappropriate to use
21 cocaine and oxycodone as comparators to
22 marijuana, correct?

23 A I don't know. If you've read that in
24 the review, I will take your word for it.

25 Q Okay. Let me ask you this. Am I

1 right, sir, that when you're assessing the abuse
2 potential of a drug, that selecting appropriate
3 comparators is very important?

4 A Yes.

5 Q And, that when you're looking for
6 appropriate comparators, ideally, you look to
7 drugs in the same pharmacological class,
8 correct?

9 A Yes.

10 Q Okay. Which, in the case of marijuana,
11 is hallucinogens, correct?

12 A It is controlled under the CSA
13 paragraph for hallucinogens, yes.

14 Q Right. Right. And, as we talked about
15 a minute ago, there are plenty of other
16 hallucinogens that are Schedule I, correct?

17 A Yes. They work by a different
18 pharmacological mechanism. They definitely have
19 different properties than marijuana.

20 Hallucinogens would be a broad term to
21 capture them in the same category.

22 Q But, there are other hallucinogens in
23 Schedule I, and they also have a low rate of
24 overdose risk, correct?

25 A Yes.

1 MR. McNICHOLS: Those are my questions,
2 Your Honor.

3 JUDGE JULIUS: Thank you very much,
4 Counsel. Our schedule has Phillip Drum, PharmD,
5 as the next one to have opportunity.

6 He's not physically present. I don't
7 believe anyone is here representing him. I
8 believe he remains pro se. Is that the case?

9 If anyone is representing Phillip Drum,
10 identify yourself.

11 MR. HARRINGTON: That is the case, Your
12 Honor. He is pro se.

13 JUDGE JULIUS: Thank you very much.
14 And, as I indicated yesterday, if someone did
15 not attend on a day when they had an opportunity
16 to cross-exam, that would be a waiver of that
17 opportunity.

18 So, we'll move onto the next phase,
19 which would, I believe, be a redirect. I
20 believe we've finished cross-examination from
21 all other interested persons?

22 MR. McNICHOLS: I think that's right,
23 Your Honor.

24 JUDGE JULIUS: Thank you. Ms. Man, if
25 you're ready?

1 MS. MAN: Your Honor, based on the
2 questions that were posed to Dr. Chiapperino,
3 the government has no redirect.

4 JUDGE JULIUS: All right. So, that
5 concludes your testimony. Thank you very much,
6 Doctor.

7 THE WITNESS: Thank you. Can you
8 advise on my, I am done as far as talking to
9 friends, things like that?

10 JUDGE JULIUS: I don't know if there's
11 any possibility that you'll be recalled in any
12 rebuttal context. I would advise to not, I
13 don't know. Government, do you plan to recall
14 him or is it an open question?

15 MS. MAN: I thought the Court's order
16 said there were no rebuttal witnesses.

17 JUDGE JULIUS: We did not schedule
18 rebuttal time. We said we would take it as the
19 issue arose.

20 MS. MAN: Very well. I will leave that
21 question open then --

22 JUDGE JULIUS: Okay.

23 MS. MAN: On the possibility. So, I
24 would advise you not to speak to anybody.

25 THE WITNESS: Thank you.

1 MS. MAN: On the possibility that we
2 will call you for rebuttal, I don't want to
3 exclude myself from that possibility.

4 JUDGE JULIUS: Thank you for clarifying.
5 And so, I would --

6 THE WITNESS: Okay.

7 JUDGE JULIUS: Please refrain from
8 discussing your testimony with anyone until it's
9 determined whether or not you'll be called as a
10 rebuttal witness.

11 THE WITNESS: Thank you.

12 JUDGE JULIUS: Thank you very much for
13 your testimony. I know it's --

14 THE WITNESS: Sure. Thank you.

15 JUDGE JULIUS: You have had a lot of
16 questions. Thank you, sir.

17 THE WITNESS: It is my job. Thank you.

18 JUDGE JULIUS: Absolutely. And, Ms.
19 Man, will you be handling, I'm so sorry, I
20 didn't mean that. Who will be handling the next
21 witness?

22 MS. RACE: I will be, Your Honor.

23 JUDGE JULIUS: Okay. And, if you could
24 identify yourself for the record, please?

25 MS. RACE: Sure. My name is Stacy

1 Race.

2 JUDGE JULIUS: Thank you, Ms. Race.

3 And, do you want to call your next witness?

4 MS. RACE: I will. The Government now
5 calls Dr. Corey Burchman. And, he is here. If
6 the Court will just give us a few minutes to
7 bring him in

8 JUDGE JULIUS: Absolutely.

9 MS. RACE: Thank you.

10 JUDGE JULIUS: Welcome, sir. Good
11 afternoon.

12 DR. BURCHMAN: Thank you. Appreciate
13 it.

14 COREY ANDREW BURCHMAN, having been
15 first duly sworn, testified as follows:

16 JUDGE JULIUS: Before you have a seat,
17 if I could ask you to please raise your right
18 hand. Do you swear or affirm that everything
19 you say in these proceedings will be the truth,
20 the whole truth, and nothing but the truth?

21 DR. BURCHMAN: I do.

22 JUDGE JULIUS: Thank you so much. You
23 are officially sworn in. You may be seated.
24 Ms. Race, whenever you're ready to begin your
25 direct examination.

1 MS. RACE: Thank you, Your Honor.

2 JUDGE JULIUS: Thanks.

3 DIRECT EXAMINATION

4 MS. RACE: Dr. Burchman, can you please
5 provide your full name for the record?

6 THE WITNESS: Corey Andrew Burchman.

7 BY MS. RACE:

8 Q Sir, where do you reside, city and
9 state?

10 A Hanover, New Hampshire.

11 Q Are you --

12 JUDGE JULIUS: Please be sure to let
13 her ask the full question before you --

14 THE WITNESS: Oh, so sorry.

15 JUDGE JULIUS: No, no worries. When
16 she finishes her question, just pause for a beat
17 to see if there's any objection. If you hear
18 the word objection, please pause until I have an
19 opportunity to rule on it, okay?

20 THE WITNESS: Yes, sir.

21 JUDGE JULIUS: And if you ever do not
22 understand a question, please just say that you
23 don't understand the question before you try to
24 answer it, okay?

25 THE WITNESS: Yes, sir.

1 JUDGE JULIUS: Thank you. Please
2 continue.

3 MS. RACE: Thank you, Your Honor. Dr.
4 Burchman, are you a physician?

5 THE WITNESS: Yes.

6 BY MS. RACE:

7 Q Do you currently hold a medical
8 license?

9 A Yes.

10 Q In which state do you hold a medical
11 license?

12 A The state of New Hampshire.

13 Q Dr. Burchman, do you currently provide
14 direct patient care?

15 A No.

16 Q Did you ever provide direct patient
17 care?

18 A Yes.

19 Q Okay. When did you stop?

20 A 2019.

21 Q And I should have asked you this
22 earlier, when did you become a physician, sir?

23 A 1983.

24 Q So is it fair to say that between 1983
25 or so and 2019, you were providing direct

1 patient care?

2 A Correct.

3 Q After you stopped providing direct
4 patient care, Doctor, did you continue to
5 provide additional medical services perhaps to
6 other professionals?

7 A Yes.

8 Q Can you explain that a little bit more
9 to the Court?

10 A When I retired in 2019, I was engaged
11 in multiple advisory and consultation roles.

12 Q And these would be consultation roles
13 with whom?

14 A Let me list them for you. I was a
15 member of the New Hampshire State Therapeutic
16 Cannabis -- Medical Cannabis Oversight Board. I
17 sat on the board of a medical marijuana
18 dispensary in the state of New Hampshire. I
19 still maintain my Dartmouth Medical School
20 faculty appointment. I mentor medical students,
21 and I receive questions from physicians with
22 respect to New Hampshire around the state on
23 medical issues, particularly concerning the
24 safety, administration, and science behind
25 marijuana.

1 Q About how many a month -- how many
2 consultations with other physicians and
3 prescribers do you receive a month regarding
4 marijuana use?

5 A I would say between 15 and 20. Again,
6 let me parse that a little bit. They're not
7 formal consultations. They might just call me
8 or email me because I'm a known domain expert in
9 the state.

10 Q Are you currently employed, sir?

11 A Yes.

12 Q By whom?

13 A I have an advisory role at a marijuana
14 dispensary in Vermont called The Tea House.

15 Q Can you also explain to the Court what
16 the Pavilion Group is?

17 A Certainly. The Pavilion Group is an
18 LLC I formed shortly after I retired from
19 clinical medicine, and it is ostensibly to be a
20 vehicle with which I can give advice primarily
21 to minorities and marginalized people to perhaps
22 assist them in pursuing opportunities in the
23 marijuana space.

24 Q Sir, do you receive a salary from that
25 organization?

1 A No.

2 Q You referenced a few minutes ago, your
3 continued involvement with Dartmouth. Are there
4 any other medical schools that you currently
5 work with?

6 A Yes, I am a mentor to students as well
7 at the University of Vermont School of Medicine.

8 Q And also you commented on some of the
9 organizations that you currently have a role in.
10 Can you also tell the Court about Hemp for
11 Victory?

12 A Certainly. As a U.S. Navy veteran, I
13 have an interest in veterans affairs, and Hemp
14 for Victory is a nonprofit out of Texas that
15 approached me and wanted my opinion on aspects
16 of medical marijuana with respect to veterans
17 affairs.

18 Q How about Veterans Cannabis Project?

19 A That is also a Texas-born organization
20 allied with Hemp for Victory, and I play a
21 similar role, although of a much lesser degree.

22 Q Are you familiar with the organization
23 or the group referred to as Therapeutic Medical
24 Cannabis Oversight Board for New Hampshire?

25 A Yes.

1 Q Sir, Doctor, can you please explain to
2 the Court what that is?

3 A Certainly. That is an organization.
4 It's a division of the Department of Health and
5 Human Services of the State of New Hampshire,
6 and it serves an advisory and education role in
7 setting marijuana policy and advising on
8 marijuana policy to the legislature of the State
9 of New Hampshire and as well clinicians,
10 healthcare providers, and patients throughout
11 the state.

12 Q How did you find yourself on this
13 board?

14 A I believe my colleague in medicine was
15 the chair of the board, and he knew I was
16 retiring from clinical medicine and he asked if
17 I would sit on it. It required an appointment
18 by then Governor John Sununu, which I received,
19 and I think I've been on that board since 2018.

20 Q Are you still on that board currently?

21 A Yes.

22 MS. RACE: Your Honor, at this point, I
23 would like to present to the witness what the
24 government has marked Exhibit 6 for
25 identification purposes.

1 (Whereupon, the document referred to
2 was marked as Government's Exhibit No. 6, for
3 identification.)

4 JUDGE JULIUS: Okay.

5 THE WITNESS: Thanks.

6 MS. RACE: Dr. Burchman, after you've
7 had a moment to look at this, if you'll just
8 look up, and I'll ask you. Okay, well, there
9 you go. Dr. Burchman, do you recognize this
10 document?

11 THE WITNESS: Yes.

12 BY MS. RACE:

13 Q What do you recognize it as?

14 A It's my curriculum vitae.

15 Q Do you have any changes to this CV,
16 sir?

17 A Let me look at it briefly. Yeah, a few
18 minor changes, maybe typographical errors.

19 Q Please, if you'll just explain those
20 changes to the Court.

21 A On the third page, under Professional
22 Society Memberships, the New England Pain
23 Society is actually a misnomer. It used to be
24 the New England Pain Association and it morphed
25 into something called the Eastern Pain

1 Association. It says 2002 to present. I don't
2 know when that lapsed. I'm not a present member
3 of that. Further, the American Pain Society on
4 page 4, 2002 to present, that society folded in
5 2019, and so I'm no longer a member of that.
6 Finally, on page three, under Major Committee
7 Assignments, the Legislative Committee of the
8 New Hampshire Medical Society, I was on that for
9 maybe two years, so that's not a present
10 position as well.

11 Q Is the rest of this CV accurate related
12 to the times that you were on and off certain
13 organization boards and committees?

14 A Yes.

15 Q Okay. Outside of those changes, are
16 there any other changes that we need to discuss
17 related to the CV?

18 A No.

19 Q Okay. So with those changes taken into
20 consideration, is this a fair and accurate
21 representation of your current CV with the
22 changes noted?

23 A Yes.

24 Q And does this fairly depict your
25 education and your studies, Dr. Burchman?

1 A Yes.

2 MS. RACE: At this point, the
3 government moves to introduce Exhibit 6 into
4 evidence.

5 JUDGE JULIUS: Any objection?

6 MR. HARRINGTON: No objection.

7 JUDGE JULIUS: Any objection from
8 anybody?

9 MR. EVANS: None.

10 MR. HARRINGTON: No, Your Honor.

11 JUDGE JULIUS: Okay. Admitted. Thank
12 you, Counsel.

13 (Whereupon, the above-referred to
14 document marked as Government's Exhibit No. 6
15 was received into evidence.)

16 MS. RACE: Thank you. All right, Dr.
17 Burchman, let's now talk a little bit more about
18 your medical training and experience. Sir, do
19 you know the phrase board certified?

20 THE WITNESS: Yes.

21 BY MS. RACE:

22 Q Can you please explain to the Court
23 what that means?

24 A Board certification is a designation by
25 the American Board of Medical Specialties and it

1 demonstrates a higher degree of proficiency in a
2 surgical or medical subspecialty, and it's
3 usually conferred following a residency of
4 medical education.

5 Q Is there a separate test associated
6 with board certifications?

7 A Yes, there are several. There is a
8 part 1, part 2, and part 3. They have to do
9 with basic science and then the understanding
10 and appreciation of the breadth of whatever the
11 residency training is, and then finally with the
12 anesthesia side of things, there was an oral
13 examination.

14 Q And that brings me to my next question,
15 Doctor. Have you ever been board certified in a
16 particular specialty?

17 A Yes.

18 Q Okay. Can you explain those, please?
19 Identify them for the record.

20 A Board certified in anesthesiology as
21 well board certified in pain medicine.

22 Q Can you explain the difference between
23 anesthesiology and pain management, please?

24 A Yes. Anesthesiology is the practice of
25 rendering patients insensate to surgical

1 procedures, and pain medicine is the study of
2 pain management where we evaluate and manage
3 patients with acute and chronic pain.

4 Q Are you currently board certified in
5 both anesthesiology and pain management?

6 A No.

7 Q Are you currently board certified in
8 anesthesiology?

9 A I am.

10 Q Okay. But not in pain management?

11 A That's correct.

12 Q Okay. When did that lapse?

13 A That's a 10-year designation. I took
14 my pain boards in 2005, and it lasted 10 years.

15 Q If we can move into your undergrad now,
16 sir. Can you talk to us? Where did you go to
17 undergrad? What degree did you get? And then
18 we'll move up to present day.

19 A I attended Cornell University. I
20 graduated with a degree, a BA -- a BS I should
21 say, in Neurobiology and Behavior.

22 Q And then what did you do?

23 A Then I went to medical school at George
24 Washington University School of Health Sciences
25 and Medicine.

1 Q Were you in the Navy when you went to
2 medical school, sir?

3 A Yeah, I couldn't afford medical school
4 and I received a health profession scholarship
5 and was commissioned as a naval officer, and
6 they paid my way through medical school. I owed
7 an obligation to service with the Navy following
8 graduation of medical school.

9 Q So after medical school, what did you
10 do?

11 A I attended an internship with the Navy
12 at Oakland Naval Hospital in Oakland,
13 California.

14 Q What was the internship in?

15 A It was a unique internship designated a
16 rotating internship, which meant I rotated on
17 all of the medical specialties; pediatrics,
18 obstetrics, emergency medicine, intensive care,
19 surgery, drug and rehabilitation and I did that
20 to gain a breadth of an understanding of the
21 practice of medicine.

22 Q At some point, Doctor, did you move on
23 to a residency?

24 A I did.

25 Q Okay. Can you talk to the Court about

1 that?

2 A Yes. My residency was delayed
3 approximately two years because following
4 internship I needed to be deployed, so I was a
5 general medical officer on a ship. Following
6 the discharge from that position, I obtained a
7 residency at Massachusetts General Hospital in
8 Boston.

9 Q Can you explain, please, the difference
10 between an internship and a residency?

11 A An internship is a medical experiential
12 education, clinical, dealing with patient care
13 and that's conferred almost universally
14 following graduation from medical school.
15 Residency training deals with a specialty of the
16 choice of, you know, myself, for example, and so
17 I chose a residency in anesthesiology.

18 Q Why did you choose anesthesiology?

19 A For a long period of time, I was
20 interested in how drugs act on the brain and as
21 well the anatomy of the central nervous system,
22 and there was a natural inclination to pursue a
23 degree in anesthesiology, a pursuit of residency
24 in anesthesiology, because that combined my
25 interest in drugs, pharmacology, and the nervous

1 system.

2 Q Did you go on to other residencies and
3 fellowships?

4 A Yes. Following the anesthesiology
5 residency, I pursued a -- first of all, I wanted
6 to have a pain fellowship, but Harvard did not
7 offer one at that time. There were no pain
8 fellowships when I was training. I took a
9 fellowship in neurosurgical anesthesia, which
10 further consolidated my interest in the central
11 nervous system. Additionally, because I was
12 interested in pain, I did an advanced pain
13 management track during that residency and to go
14 on, I pursued a fellowship in obstetrical
15 anesthesia, which sort of highlighted pain
16 management in a specific type of patient. I
17 further did a fellowship in ambulatory surgical
18 anesthesia, which at the time was a new
19 specialty.

20 Q In these residencies and fellowships
21 that you've just discussed, did you treat
22 patients with acute pain?

23 A Yes.

24 Q Did you also treat patients with
25 chronic pain?

1 A Yes.

2 Q Did you use opioids in the treatment of
3 your patients during these residencies?

4 A Yes.

5 Q Did you return to the Navy at any
6 point?

7 A Yes. Following my fellowships, I
8 actually stayed on at Mass General and Harvard
9 for a few months as clinical instructor until
10 the Navy picked me up again for active duty
11 since I owed them years from their subsidizing
12 my medical education.

13 Q What did you then do for the Navy?

14 A I was an anesthesiologist stationed at
15 a base in Puerto Rico.

16 Q Were you ever the chair of a Department
17 of Anesthesiology for the Navy?

18 A Yes. At the hospital in Roosevelt
19 Roads, Puerto Rico, I was the chair of the
20 department.

21 Q Did you treat patients -- personally
22 treat patients with acute pain while you were
23 working at that hospital for the Navy?

24 A Yes.

25 Q Did you also treat patients who

1 suffered from chronic pain?

2 A Yes, I did.

3 Q And did you use opioids in the
4 treatment of those patients?

5 A Absolutely.

6 Q Where do you go next?

7 A Following my stint in Puerto Rico, I
8 was discharged from the Navy, and I took a job
9 with the University of Maryland Medical System
10 in Baltimore.

11 Q What title did you get in that
12 position?

13 A I was the chief of anesthesia at one of
14 their affiliate hospitals, James Lawrence Kernan
15 Hospital.

16 Q Did you also have a title in the pain
17 service?

18 A Yeah, I practiced pain management at
19 James Lawrence Kernan.

20 Q Did you use opioids in the treatment of
21 your patients at the James Lawrence Hospital?

22 A Yes.

23 Q Were you treating patients with chronic
24 pain at that point?

25 A Yes, I was.

1 Q Where'd you go next?

2 A I then left the University of Maryland,
3 where I had a faculty position, and took a job
4 in private practice in York, Pennsylvania.

5 Q What was your role in that practice?

6 A I was an attending clinical
7 anesthesiologist, and as well I started a pain
8 management center.

9 Q Did you see patients while you were
10 practicing in York, Pennsylvania?

11 A Yes.

12 Q And did the patients that you treated,
13 did they suffer from acute pain?

14 A Yes.

15 Q Did you also treat patients that
16 suffered from chronic pain?

17 A Yes.

18 Q Did you use opioids in the treatment of
19 patients who suffered from chronic pain?

20 A Yes.

21 Q During your time at York, did you ever
22 prescribe synthetic THC products for the
23 treatment of your pain patients?

24 A Yes.

25 Q Can you talk to us about that, please?

1 A Certainly. It was very clear to me,
2 particularly in the late '90s, that the opioid
3 epidemic was beginning and new data was coming
4 out describing chronic opioid management for
5 chronic pain patients as not really being a
6 sustainable medical therapy. As such, pain
7 management docs across the country, but
8 particularly with myself as well, were
9 interested in non-opioid analgesics for these
10 patients. It became obvious that the
11 endocannabinoid system was starting to become
12 well-described in medical literature, and me
13 being kind of a neurochemistry geek, I was very
14 fascinated by it because I'd really never heard
15 anything about it in medical school. The FDA
16 had recently approved a synthetic THC, which
17 was, at least in the literature, demonstrated to
18 have potential analgesic effects. Sorry for the
19 long-winded answer, but we were using dronabinol
20 in some of our patients, which is synthetic THC.

21 Q I think we're going to get to this a
22 little bit more in depth later, but if we can
23 just for the chronology, I'm going to move you
24 now into your next stop, which is Dartmouth.
25 Can you please talk to us about what you did for

1 Dartmouth?

2 A I was a clinical anesthesiologist and
3 as well I was the division director of the
4 neurosurgical anesthesia program. I also
5 directed the post-anesthesia care unit, the
6 same-day surgical unit. There was another title
7 I was the director of surgical innovation.

8 Q Did you perform any work with the acute
9 pain service?

10 A Yes. I, in fact, I ran the acute pain
11 service for a few years, and, as well, I was
12 actively involved in the chronic pain management
13 center there.

14 Q Were you on rotation at the pain clinic
15 while you were at Dartmouth?

16 A Yes.

17 Q How many times a week or month, however
18 you want to quantify it, were you on rotation at
19 the pain clinic?

20 A It was variable, but generally one to
21 three times a week, depending on the surgical
22 schedule and their needs.

23 Q Did you treat chronic pain patients
24 while you were at the pain clinic?

25 A Yes.

1 Q Can you please -

2 A -- well, exclusively, I should say.

3 Q Okay. I've jumped into this, but I
4 didn't ask you to define. Can you please define
5 for us acute pain versus chronic pain?

6 A Acute pain is generally self-limited.
7 It most reasonably can be described as what one
8 would have if they were having a surgical
9 procedure or if you had an acute trauma.
10 Chronic pain is described as any moderate-to-
11 severe pain lasting three months despite medical
12 management.

13 Q And in your treatment of your chronic
14 pain patients while you were at Dartmouth, did
15 you use opioids?

16 A Yes.

17 Q In your treatment of chronic pain
18 patients while you were at Dartmouth, did you
19 use FDA-approved THC synthetics?

20 A Yes, we did.

21 Q And in your treatment of chronic pain
22 patients while you were at Dartmouth, did you
23 treat those patients also with botanical
24 marijuana?

25 A Not at that time, but once botanical

1 marijuana was available to patients as a medical
2 therapeutic, which I believe was 2016, we did.

3 Q Do you recall when you left Dartmouth?

4 A 2019.

5 Q Okay. So between 2016 and 2019, were
6 you using marijuana in the treatment of chronic
7 pain patients while you were at Dartmouth?

8 A Yes.

9 Q We're going to jump back to teaching
10 appointments just quickly and finish this off,
11 sir. Can you talk to us quickly about your
12 teaching appointments? Say we'll start first
13 with Dartmouth. What did you teach?

14 A I taught anesthesiology to medical
15 students and residents, as well as fellows, as
16 principles of surgical operative care for
17 anesthetized patients, as well as pain
18 management.

19 MR. EVANS: Your Honor, if I may make
20 just a brief objection.

21 JUDGE JULIUS: Just be sure to speak
22 into the microphone so we can hear you.

23 MR. EVANS: Okay, I'm sorry. You know,
24 this is about marijuana, and counsel is calling
25 Marinol marijuana. It is not marijuana. It is

1 a synthetic THC. So it would be inappropriate
2 to call that marijuana medicine. I just want to
3 get that on the record and help clarify with
4 everybody so we know what we're talking about.
5 Synthetic is not marijuana. Thank you.

6 JUDGE JULIUS: Do you have a response
7 to the objection?

8 MS. RACE: I refer to it as FDA-
9 approved synthetic marijuana. It was clear that
10 the witness understood what that meant. I'm
11 happy for this note to be on the record. I
12 don't think that should delay the testimony
13 further.

14 MR. EVANS: It's a synthetic THC, and I
15 would like the record to accurately reflect what
16 it means. It's not marijuana. He understood it
17 as medical marijuana, but it's not.

18 JUDGE JULIUS: Okay. Thank you, sir.
19 I think it's noted for the record, and Ms. Race,
20 just please be --

21 MS. RACE: We have no objections.

22 JUDGE JULIUS: Specific and accurate in
23 our characterizations of everything going
24 forward just for everyone, but please proceed.

25 MS. RACE: Thank you, Your Honor.

1 JUDGE JULIUS: Thank you, Mr. Evans.

2 MS. RACE: If we can go back to your
3 teaching appointments, you've previously talked
4 to us about your teaching appointment for pain
5 management at Dartmouth. Can you also talk to
6 us about your teaching appointment for the
7 University of Maryland?

8 THE WITNESS: Yes, as the chief of the
9 department within the University of Maryland
10 Medical System, I taught University of Maryland
11 medical students as well as Johns Hopkins
12 students that rotated through.

13 BY MS. RACE:

14 Q Did you teach them pain management
15 courses?

16 A Yes.

17 Q How about for Harvard Medical School?
18 Did you teach for them?

19 A Yes. I taught Harvard medical
20 students, as well as BU medical students at
21 Massachusetts General and the Brigham and
22 Women's Hospital.

23 Q What was the course title or topic that
24 you taught them?

25 A Well, I was an attending

1 anesthesiologist and pain management doc, and it
2 would be lectures on the topic of chronic pain
3 management and acute pain management as well.

4 Q Going back to your time at Dartmouth,
5 were you involved in any international
6 conferences?

7 A Yes.

8 Q On what topic?

9 A Cannabinoid therapeutics. Marijuana
10 contains molecules called cannabinoids. That's
11 derived from the word cannabis, and those are
12 the psychoactive agents that are actually the
13 molecules that confer clinical effects.

14 Q Were you involved in the planning of
15 the production of these conferences at all at
16 Dartmouth?

17 A Yes.

18 Q Okay. What was your position?

19 A I was the co-director.

20 Q Doctor, in your roles, both in your
21 practice as well currently as we sit here today,
22 do you review the scientific literature on the
23 use of marijuana for pain patients?

24 A Yes.

25 Q Do you use that information, or did you

1 use that information in your treatment of
2 patients?

3 A Yes.

4 Q And do you currently use that
5 information in your consultations with other
6 medical providers?

7 A Yes.

8 Q Have you ever been designated as an
9 expert in a trial before?

10 A Yes.

11 Q How many times?

12 A Between 6 and 10.

13 Q And what was your expert designation?
14 Was it as a medical expert?

15 A Medical expert.

16 Q In any specialty?

17 A Anesthesiology and pain management.

18 Q What types of courts were you so
19 designated?

20 A I don't understand the question.

21 Q Was it a state court or federal court
22 or --

23 A State courts.

24 Q As we sit here today, about how many
25 pain patients have you treated with opioids?

1 A Thousands, well over 10,000.

2 Q As we sit here today, how many pain
3 patients have you treated with synthetic THC?

4 A I would say several hundred.

5 Q As we sit here today, how many pain
6 patients have you treated with botanical
7 marijuana?

8 A Between 2 and 400. It really depends.
9 You know, when I was at Dartmouth and we were
10 utilizing medical marijuana, that is marijuana
11 that was allowed in the state for patient use,
12 it was kind of a team effort, so it was myself
13 as well as medical students and fellows and
14 residents, as well as nurse practitioners I
15 worked with or worked under me. So, when I
16 state I used it and prescribed it, I want to put
17 it in the context of myself as the supervising
18 physician or the attending physician, and they
19 were using it under my guidance.

20 Q And would that be also with your
21 direction and approval?

22 A Yes.

23 MS. RACE: Okay. At this point, Your
24 Honor, the government would like to offer Dr.
25 Burchman as a medical expert in pain management,

1 including the use of opioids and marijuana for
2 the treatment of pain. We recognize, because of
3 the preliminary order, that this would be likely
4 an introduction of this witness as an expert
5 witness provisionally for argument to be taken
6 later.

7 JUDGE JULIUS: Understood.

8 MR. EVANS: No objection.

9 JUDGE JULIUS: Okay. Thank you. We'll
10 proceed with the provisional and then as to be
11 argued in the closing statements if there's any
12 challenge to the expertise. If you could just
13 reiterate the expertise that he's being
14 proffered for.

15 MS. RACE: Yes, Your Honor. The
16 government would like to introduce Dr. Burchman
17 and have him admitted as an expert witness in
18 pain management, specifically including the use
19 of opioids and marijuana for the treatment of
20 pain.

21 JUDGE JULIUS: Understood.
22 Provisionally admitted.

23 MR. EVANS: Your Honor, I would like
24 to, if I may, ask the doctor one question that
25 may help that -

1 JUDGE JULIUS: You'll have an
2 opportunity to do that on your cross-
3 examination, Mr. Evans.

4 MR. EVANS: Okay, fine. I --

5 JUDGE JULIUS: Thank you.

6 MR. EVANS: So I'm objecting to having
7 him qualify as an expert until I can ask that
8 question.

9 JUDGE JULIUS: Understood. It's
10 provisionally accepted subject to cross and
11 arguments in the closing arguments or closing
12 statements. Thank you. Ms. Race, please
13 continue.

14 MS. RACE: Thank you, Your Honor. Dr.
15 Burchman, I'd like to talk to you about brain
16 science for a moment, please. How does
17 marijuana work in the brain for the treatment of
18 pain?

19 THE WITNESS: There exists within the
20 body a system called the endocannabinoid system,
21 and that is how marijuana works. The
22 endocannabinoid system is a very diffuse system
23 within the central nervous system and the
24 peripheral nervous system. It's mediated by the
25 presence of what are called cannabinoid

1 receptors. A receptor in a cell is kind of like
2 an inbox or a lock into which a key fits, and
3 the molecules that circulate in the bloodstream
4 go into the lock and open it, and therefore, a
5 channel exists in a cell, and that's how drugs
6 and molecules get into cells.

7 The endocannabinoid receptors, the
8 cannabinoid 1 and cannabinoid 2 receptors in the
9 brain, are part of a family of receptors in the
10 central nervous system that number in the
11 hundreds of billions. They belong to a family
12 called the G protein coupled receptor and that
13 receptor is very important. That's the receptor
14 that's on all of the cells in the body, and it
15 allows activities to occur like glucose can
16 enter the cell and epinephrine and dopamine and
17 hormones. The endocannabinoid receptor, which
18 is the receptor that -- I should say the
19 cannabinoid receptor, is the one that allows
20 marijuana-like particles that are produced by
21 the body -- the body produces two different
22 compounds: 2-arachidonoylglycerol and anandamide.

23 Those are special compounds which are pretty
24 much like compounds that the marijuana plant
25 produces. The important, interesting thing is

1 it turns out the cannabinoid receptor is the
2 most prevalent receptor in the central nervous
3 system and nobody knew this 30 or 40 years ago.

4 MR. EVANS: Judge, I would object at
5 this time to relevance as well as narrative.

6 JUDGE JULIUS: Ms. Race, response to
7 the objection?

8 MS. RACE: I asked Dr. Burchman to
9 explain the science behind marijuana in the
10 treatment of pain, and I think he's still
11 working on that?

12 THE WITNESS: Right.

13 JUDGE JULIUS: I'll overrule the
14 objection for now. It may be helpful, as we go
15 through, to ask directed questions as he goes.

16 MS. RACE: Thank you, Your Honor.

17 JUDGE JULIUS: Just to make sure that
18 we're getting directed testimony, but continue
19 with your answer, and then we'll --

20 THE WITNESS: It turns out that the
21 cannabinoid receptor, being so important, is
22 located in areas of the cerebral cortex as well
23 as the spinal cord that relate to pain control
24 and modulation, and therefore, when marijuana-
25 like molecules -- the molecules, the

1 cannabinoids in marijuana -- latch onto these
2 cannabinoid receptors, pain is affected -- I
3 should say the sensation of pain, and pain
4 control can occur.

5 MS. RACE: Dr. Burchman, if I can bring
6 us back to your time at York Hospital, at that
7 point, at your time at York, were you talking to
8 patients or were your patients communicating
9 with you during your treatment, during your
10 patient care, about the use of marijuana for
11 pain?

12 MR. McNICHOLS: Judge, I would object
13 to hearsay as well as relevance. I don't see
14 how that question goes to the eight-part test.
15 I don't see how that question or any conceivable
16 answer goes to whether or not there's an abuse,
17 whether or not there's a CAMU, or whether or not
18 there's dependability. His own personal
19 experiences with patients is irrelevant to all
20 of those things, Your Honor.

21 MR. EVANS: I'd also like to join in.
22 Judge, I don't think he testified that he worked
23 in York Hospital. He said he worked at York,
24 and it could have been in a private practice,
25 not in the hospital.

1 JUDGE JULIUS: Thank you. Response to
2 the objections?

3 MS. RACE: Yes, Your Honor. There is a
4 specific exemption to hearsay when we're talking
5 about patient and physician treatment because
6 there's an inference of reliability there,
7 that's actually 803.4 under the Federal Rules of
8 Evidence, so I think there's no hearsay concern
9 here. The government's argument would be that
10 there's no hearsay concern here. We did, in the
11 last witness, hear about the CAMU and certainly
12 the government's position that there's a medical
13 use. We now are presenting a witness who's
14 going to talk about that medical use, and that's
15 the purpose of this testimony.

16 JUDGE JULIUS: Did you have something
17 to add?

18 MR. McNICHOLS: I would like to, Your
19 Honor.

20 JUDGE JULIUS: Go ahead.

21 MR. McNICHOLS: Thank you. Judge,
22 under the CAMU test, the question is whether or
23 not there's credible literature that supports
24 the use of cannabis as medicine, and then
25 whether or not, based on the literature, there's

1 overriding health concerns. That is not what
2 this goes to. We would object to relevance at
3 this time.

4 MR. EVANS: Your Honor, I'm concerned
5 about York Hospital because I own a nursing home
6 right next to York Hospital and if he's speaking
7 as a physician at York Hospital about cannabis
8 and so forth, it implies that York Hospital was
9 in favor of it at the time or whatever. Our
10 nursing home will not use cannabis, and I just
11 want to get it clear, who is he working for?

12 JUDGE JULIUS: Understood, Mr. Evans.
13 I will remind those in the gallery to maintain
14 decorum. Although the Federal Rules of Evidence
15 do not strictly apply here, they are a good
16 guideline for what we do. I will say that there
17 is a hearsay objection. Tailor the questions to
18 be as relevant as possible. I will allow the
19 questions. And also, as a follow up on Mr.
20 Evans' point, if we could get clarity on what he
21 means when he says he worked at York. So
22 overruled, and please just get clarity at some
23 point.

24 MS. RACE: Yes, Your Honor.

25 JUDGE JULIUS: Thank you.

1 MS. RACE: Can you please provide the
2 Court information on where you worked in York?

3 THE WITNESS: I was an attending
4 physician at York Hospital and, as well, the
5 director of the York Hospital Pain Management
6 Center that I started.

7 MS. RACE: Thank you. If I may, Your
8 Honor, ask the question about his patient care
9 while he was there?

10 JUDGE JULIUS: Proceed.

11 MS. RACE: Thank you.

12 MR. McNICHOLS: Judge, I would just
13 make one more objection for the record. If this
14 is purportedly supposed to go towards the CAMU,
15 on page 25 of the HHS opinion, it discusses what
16 factors are relevant with respect to the CAMU,
17 and it's one: favorable clinical studies. His
18 treating the patients is not favorable clinical
19 studies. Number two, it's whether qualified
20 expert organizations have opined in favor of it.

21 His experience treating patients has nothing to
22 do with expert organizations.

23 Factors that weigh against it is data
24 or information likely to indicate that medical
25 use of substances is associated with an

1 unacceptably high safety risk. That's not what
2 his testimony is going to. Number two, whether
3 or not there's clinical studies with negative
4 efficacy. His personal experience treating
5 patients has nothing to do with that clinical
6 evidence. And number three, whether or not
7 qualified organizations have weighed in against
8 recommending cannabis for medical purposes.
9 Again, his personal experience in treating
10 patients and what he's seen from them has
11 nothing to do with any of those factors. Based
12 on that, we don't think it's relevant, and we'd
13 object, Your Honor.

14 JUDGE JULIUS: Do you want to respond
15 to the objection?

16 MS. RACE: Yes, Your Honor, I would
17 like to. Thank you very much. Part 1 of the
18 CAMU test specifically related to widespread use
19 by healthcare providers and their use of
20 medicinal marijuana in practices, particularly
21 in states, of course, where they have legalized
22 such thing. Dr. Burchman has already testified
23 that he not only is involved or was involved in
24 the practice of pain management using medical
25 marijuana for New Hampshire, but he actually

1 sits on the oversight board. I think that this
2 clearly goes to part 1. Part 1 is a factor that
3 FDA took into consideration when they were doing
4 the part 2 of the part 2 test, and so I think
5 that it is entirely relevant.

6 JUDGE JULIUS: Understood. I'll
7 overrule the objection. You can continue,
8 Counsel. Thank you.

9 MS. RACE: Thank you. Dr. Burchman,
10 let's go back to York, if we can. During your
11 time at York, did you talk to patients during
12 your patient interactions about the use of
13 marijuana to treat their pain?

14 THE WITNESS: When I was in
15 Pennsylvania, marijuana was not legalized for
16 the use of pain management or any purpose, yet
17 the patients were coming to me and giving me
18 anecdotal stories. I had a patient with
19 prostate cancer who was on high-dose opioids,
20 and he volunteered to me, He was educating me
21 about the fact that, Hey, doc, I don't need as
22 much MS Contin. It wasn't OxyContin at the
23 time; it was morphine sulfate. That prompted
24 me to actually begin what I feel is the arc of
25 my scientific inquiry and investigation into

1 cannabinoids as an adjunct to analgesia --

2 MR. McNICHOLS: Judge, I --

3 THE WITNESS: But it wasn't available
4 for us as yet.

5 MR. McNICHOLS: Judge, I would just
6 renew the objection for the record. Under part
7 1 of the CAMU test, what should be considered is
8 whether or not there's widespread current
9 experience with medical use of marijuana in the
10 United States by licensed HCPs. His personal
11 journey with respect to how he came to cannabis
12 is irrelevant to that. His personal experience
13 with respect to him treating patients is
14 irrelevant to the question of whether or not
15 there's widespread use among HCPs.

16 JUDGE JULIUS: Ms. Race?

17 MS. RACE: Your Honor, in order for
18 there to be widespread use, there's got to be
19 specific use, just a lot of specific use, and we
20 have an example in the courtroom today who is
21 willing to talk about his experience with that
22 specific use, which then forms, of course,
23 provides some additional benefit and background
24 for the Court when considering the widespread
25 use. This is entirely supportive of the part

1 one and part two of the CAMU.

2 JUDGE JULIUS: Go ahead.

3 MR. McNICHOLS: Judge, she's saying
4 that specific use shows widespread use. That's
5 just a contradiction in terms. The question is
6 whether or not there's widespread use among HCPs.

7 His personal experience treating ~~physicians~~
8 ~~patients~~ as one doctor, which is what he's
9 testifying to, is entirely irrelevant to that.

10 JUDGE JULIUS: Ms. Race?

11 MS. RACE: I think relevancy is a
12 pretty low burden, and the government has
13 clearly met it. To the extent that counsel has
14 some concern about the weight of the evidence, I
15 think that that's a very different argument than
16 excluding it altogether. This is evidence of
17 part 1 CAMU, and this is background. We're
18 moving into some additional pieces. I'm happy
19 to get that on the record.

20 JUDGE JULIUS: Understood. I do tend
21 to agree with Ms. Race on the issue of exclusion
22 versus weight. I will overrule the objection.
23 If you want to make a standing objection
24 regarding this line of questioning, I would
25 allow for you to do that. Also, you'll all have

1 an opportunity to argue weight and all these
2 other issues in your closing statements as well.

3 MR. McNICHOLS: Judge, I would like to
4 take the Court up on the opportunity to make a
5 standing objection, just so there's no further
6 interruption.

7 JUDGE JULIUS: Understood. Thank you,
8 Counsel. Ms. Race, please continue.

9 MS. RACE: Thank you. Dr. Burchman,
10 you talked about your experiences at York
11 Hospital. Did that then factor into your later
12 work at Dartmouth?

13 THE WITNESS: Yes.

14 BY MS. RACE:

15 Q Please explain how.

16 A New England was significantly hit by
17 the opioid crisis, and opioids at the time, the
18 early 2000s, was our primary means of tackling
19 chronic pain. Myself, as well as other
20 physicians within the pain clinic, were looking
21 for alternative analgesic options, and one of
22 them was synthetic THC, which was an FDA-
23 approved drug. Knowing what I know about the
24 endocannabinoid system, it seemed like a
25 reasonable approach in addition to other agents,

1 and we began to employ, say, from 2006 to 2015,
2 Marinol, dronabinol, as one of the agents to add
3 to our patients' regimens.

4 Q At some point at Dartmouth, did you
5 start to transition patients from opioids to
6 botanical marijuana?

7 A Yes.

8 Q Can you explain to the Court what
9 transition means?

10 A Transition means to limit and hopefully
11 lower the maintenance doses of opioids in these
12 patients. Some of these patients were on what
13 we call, in the medical community, industrial
14 doses. These are supraphysiologic doses, and
15 there are significant risks associated with
16 that. So, the impetus for safety was to try and
17 limit opioids.

18 Once medical marijuana, I should say
19 marijuana, was available to medical patients in
20 the state, which I believe was 2016, we would
21 very avidly use that ability to limit opioids.

22 Q Now, when you're talking opioids, are
23 you talking Schedule II opioids, or is there
24 something else you're referencing?

25 A No, these are Schedule II, OxyContin,

1 hydromorphone, which is Dilaudid.

2 Q Did the pain patients that you were
3 transitioning from opioids to marijuana, were
4 those chronic pain patients?

5 A Yes.

6 Q Did you make a determination as to
7 whether or not marijuana assisted or benefitted
8 those chronic pain patients at Dartmouth?

9 A Yes, we made a determination that it
10 was positive.

11 Q That it benefitted the patients?

12 A Yes.

13 Q So going back to the transition
14 process, is it such that when you're
15 transitioning a patient from opioids to
16 marijuana, you start them on marijuana on
17 Monday, and they no longer need opioids on
18 Tuesday?

19 MR. EVANS: Objection, leading.

20 JUDGE JULIUS: I'll sustain that.

21 MS. RACE: Can you talk about the
22 process, sir?

23 THE WITNESS: The process varies
24 between patients, but I wish it was as quick as
25 you alluded. The process is generally a slow

1 one, where we introduce the cannabinoid,
2 marijuana in this case and then discuss with the
3 patient the slow draw down, which can be months
4 until the ultimate goal to be not on opioids at
5 all.

6 BY MS. RACE:

7 Q Were there patients that you were
8 unable to transition fully off of opioids?

9 A Yes.

10 Q And were there separate other patients
11 that you didn't even attempt to transition off
12 of opioids?

13 A Yes.

14 Q Was it a patient-specific analysis?

15 A Yes.

16 Q Now, Dr. Burchman, based on your
17 training and experience, do you have an opinion
18 to a reasonable degree of medical certainty
19 whether marijuana provides a therapeutic benefit
20 for pain patients?

21 A Yes.

22 Q What is that opinion?

23 A That marijuana is extremely helpful in
24 chronic pain patients as an effective means of
25 analgesia.

1 Q Sir, what do you base that opinion on?

2 A Well, my medical judgment, which is
3 comprised of my training, where I started out
4 with advanced pain management, my knowledge of
5 the endocannabinoid system and how the
6 neurologic system works, and then finally, and
7 perhaps more importantly, my experiential
8 knowledge, where treating thousands of patients
9 with agents such as the ones we described and
10 the results thereof.

11 Q Sir, are you aware of any literature,
12 scientific literature, in support of your
13 position?

14 A Yes.

15 Q Can you provide that information to the
16 Court, please, on the scientific literature?

17 A Certainly. The scientific literature
18 that describes the endocannabinoid system and
19 the receptors where there's receptor density in
20 the cerebral cortex that correlates with where
21 pain control can occur with cannabinoids. There
22 was a landmark review paper by Dr. Ethan Russo
23 that described why botanical marijuana is
24 superior to an isolate like synthetic THC. That
25 was actually very interesting, and it's because

1 botanical marijuana contains multiple
2 cannabinoids, not just THC, but there's CBD,
3 which is cannabidiol. There are terpenes, which
4 are specific plant alcohols like limonene and
5 myrcene. These also confer analgesic effects
6 that are lacking in an FDA-approved synthetic
7 THC.

8 Q Are there any more recent studies that
9 you're aware of and you can discuss related to
10 the benefits of marijuana in the treatment of
11 pain?

12 A Yes, quite a few, but I would focus on
13 one I wrote with a bunch of colleagues that was
14 published in 2017. It was actually one of the
15 largest studies at the time, and it was a
16 patient study. It was what we call a real-world
17 study where we had patients who, through survey
18 data, demonstrated that if they used marijuana,
19 botanical marijuana, they decreased their
20 utilization of opioids, which confirmed all of
21 the experience we had prior and even more
22 recently -- and let me just add, in my role as
23 ~~the~~ a part of the Therapeutic Cannabis Board in
24 New Hampshire, we're required to continuously
25 review current literature.

1 As it relates to chronic pain, for
2 example, one of my colleagues from Harvard,
3 Stacy Gruber, recently -- actually, I think it
4 was 2021 -- she kind of replicated our study
5 from New England. But it was a very well-
6 designed, albeit small, study that was pretty
7 conclusive in the effectiveness of marijuana for
8 pain. But if I could just add one more thing,
9 the linchpin in terms of the ability to
10 recognize marijuana a pain component, pain
11 control component --

12 MR. EVANS: Objection, narrative.

13 JUDGE JULIUS: I mean, he's still
14 talking about the literature. Are you still
15 talking about the literature?

16 THE WITNESS: I am.

17 JUDGE JULIUS: Overruled.

18 THE WITNESS: The 2017 review
19 publication by the National Academy of Science,
20 Engineering, and Medicine, it's a 440-page
21 document. I can cite you the chapter and verse
22 on page 90. It says with extreme confidence
23 that marijuana is an effective pain control
24 agent.

25 MS. RACE: Thank you, Doctor. If I can

1 just pivot us to some patient care -- your
2 patient care. In talking to you about your
3 opinion, you expressed a basis for it in the
4 science, thank you, and also in your patient
5 interactions. Now, let's pivot to the patient
6 interactions, please. Can you please provide
7 this Court some of the common patient
8 interactions you had at Dartmouth while you were
9 transitioning patients from opioids to
10 marijuana?

11 MR. KENNEALLY: Judge, I would renew my
12 objection. This is entirely irrelevant to the
13 eight-factor test. This is entirely irrelevant
14 to the first factor of abuse, as well as CAMU,
15 as well as dependability. His personal
16 experience and the hearsay statements of
17 specific individuals, patients who we don't
18 know, who we can't identify, who we weren't even
19 told of in terms of their disclosure, not only
20 is it irrelevant, it's also a process violation
21 at this point because we received two paragraphs
22 with respect to what the doctor was testifying
23 to, and nowhere do they tell us that he's going
24 to be testifying with respect to specific
25 patients, who these patients are, so that we

1 have the opportunity to test that.

2 JUDGE JULIUS: Ms. Race, response to
3 the objection.

4 MS. RACE: Your Honor, this does appear
5 to be a very similar objection that was lodged
6 earlier, and there's a standing objection on the
7 record. I asked Dr. Burchman whether there's a
8 common patient type, whether he could provide
9 some examples of common patient types in his
10 patient treatment. This goes directly to the
11 use of marijuana for the treatment of pain,
12 which is, of course, a CAMU-supported condition.

13 As a result, all of this continues to be
14 relevant. We're not going to give specific
15 patient names during the course of this public
16 setting, but the doctor's engagement with his
17 patients and common patient examples, I think,
18 is certainly well within the part 1 and part 2
19 analysis.

20 JUDGE JULIUS: I will overrule the
21 objection, and of course, all counsel have
22 opportunity to cross-examine and elicit any
23 information you want on cross. So overruled.
24 Please continue, Ms. Race.

25 MS. RACE: Yes, Your Honor. Thank you.

1 Dr. Burchman, if you can provide us some common
2 patient examples from your interactions with
3 those patients during your time at Dartmouth
4 that you transitioned off of opioids to
5 marijuana.

6 THE WITNESS: Sure. I had a young
7 woman in her mid-thirties metastatic breast
8 cancer to her spine. She had adjuvant cancer
9 chemotherapy as well as radiation. She had a
10 mastectomy. She developed horrible radiation-
11 induced pain to her chest wall as well as the
12 lytic lesions in her bone. She was on large
13 doses of round-the-clock opioids, I believe it
14 was OxyContin, and she went from a cycle of
15 obtundation, which means heavy sedation, nausea,
16 vomiting. She would wake up in pain, take
17 further drugs. That's pretty cyclic and common
18 for these kinds of patients on high-dose
19 opioids. We transitioned her, I believe, to a
20 tincture. A tincture is kind of an essence of
21 the marijuana product, a couple of drops under
22 the tongue. It's absorbed very quickly. She
23 was miserable, it was a horrible situation. I
24 would say over 8 to 12 weeks, we were able to
25 get her to minimal opioids. She was able to

1 function with her activities of daily living.
2 She drove a car. All she wanted to do was see
3 her kids play soccer, and that made us very
4 happy.

5 Q And, Doctor --

6 MR. KENNEALLY: Judge, I --

7 MS. RACE: -- do you have a number of--

8 MR. KENNEALLY: Judge, I would object,
9 and I don't mean to belabor the point. But I
10 just, for the record, would like a ruling with
11 respect to the process objection that I've
12 lodged on behalf of DUID Voices as well as Mr.
13 Finn. So if you look at the attachment that was
14 provided by the government to all the
15 participants in this case on June 24th of 2026,
16 it sets forth what Dr. Burchman is going to
17 testify to, and it's on page 4 through 10. The
18 first paragraph talks about he's going to
19 testify as a fact witness. He's also going to
20 testify with respect to his medical expertise in
21 pain management. He's also going to testify
22 that he routinely reviews the literature. He's
23 also going to testify about safety measures
24 utilized in the industry.

25 Nowhere in this disclosure does the

1 government provide us with any information or
2 indication that Dr. Burchman to establish
3 widespread use by healthcare professionals, is
4 going to talk about his personal interactions
5 with patients. We think that's a due process
6 violation at this point, Your Honor, and we
7 would object.

8 JUDGE JULIUS: What I read is Dr.
9 Burchman will testify that he provided direct
10 patient care for pain patients as an
11 anesthesiologist and pain management physician
12 following his residency and fellowship training
13 in 1986 until 2019. That is going to inform his
14 opinion as to the expertise that he's been
15 proffered for on and we've accepted on a
16 provisional basis. So, I find that this was
17 sufficient to cover what he's discussing in this
18 testimony, so I will overrule the objection and
19 Ms. Race may continue. Thank you.

20 MS. RACE: Thank you, Your Honor. Now,
21 Dr. Burchman, you just gave us one example. Did
22 you have many examples? We don't have to go
23 through all of them, but just for the purpose of
24 the testimony today, did you have many examples
25 with patients who you identified had benefitted

1 from the transition from opioids to marijuana?

2 THE WITNESS: Yes.

3 MR. EVANS: Objection. Leading
4 question. The use of the word many.

5 MS. RACE: Your Honor, I believe that's
6 the question and he answered yes.

7 MR. EVANS: Well, many is a definite.
8 It implies that there's a large group. I think
9 a proper way of asking the question: Can you
10 give me a number of how many people you did, or
11 how would you qualify it? It's a leading
12 question. If he says yes, his testimony is
13 many. We don't know what many means.

14 JUDGE JULIUS: I'll sustain that
15 objection.

16 MR. EVANS: I'd like to have that
17 struck down.

18 MS. RACE: Do you have other examples,
19 other patient examples, that followed a similar
20 benefit or presented a similar benefit to you
21 when you were treating them at Dartmouth?

22 THE WITNESS: Yes, I do, quite a few.

23 BY MS. RACE:

24 Q Thank you. Can you define quite a few
25 for the record?

1 A I could probably expound on dozens, if
2 not hundreds, of individual stories.

3 Q Thank you. Now, during your
4 interactions, your patient interactions with
5 those hundreds of patients that you just
6 referenced at Dartmouth, did you come to an
7 opinion about whether or not it was beneficial
8 to them to transition them from opioids, those
9 chronic patients, from opioids to marijuana?

10 A Yes, I did.

11 Q Okay. How did you determine that --
12 excuse me, what was that opinion?

13 A That marijuana is a viable and useful
14 tool in the pain practitioner's toolbox,
15 particularly to transition patients from
16 opioids.

17 Q And how did you come to that
18 determination relative to your patient
19 population at Dartmouth?

20 A Well, just the experience of seeing
21 patients in whom we could successfully titrate
22 opioids downward.

23 Q Now, in your pain practice, sir, did
24 you make a determination as to whether or not
25 marijuana was specifically beneficial to any one

1 type of pain over another?

2 A For chronic pain, yes.

3 Q If you can, sir, I'd like to get you to
4 compare the benefits and risks in your practice
5 between opioids and marijuana.

6 A Well, in terms of benefits, opioids
7 stand alone as being a superior analgesic agent,
8 and opioids have been in use for thousands of
9 years. It doesn't come without a price, and
10 that price is what we in the business call
11 habituation, which means that you require
12 increasing doses to get the same effect of pain
13 control. Yet, there are downsides to
14 habituation, and one is that as you start to
15 reach really high doses of opioids, you run the
16 risks because opioids have significant risks to
17 the patient such as addiction, serious
18 constipation, stupor, sedation, and ultimately
19 death, which is our most serious concern with
20 respect to opioid use.

21 Q Now, sir, did you also see habituation
22 with marijuana users?

23 A Yes.

24 Q Can you explain the difference, if
25 there is one?

1 A Well, I won't go into the neurochemical
2 details of how habituation occurs, but there is
3 what we call drug tolerance both in opioids as
4 well as marijuana. The difference is safety.
5 High-dose opioids it does not turn out well. In
6 terms of marijuana, if one becomes addicted or
7 habituated, about 30 percent of patients maybe
8 develop cannabis use disorder, which is a true
9 entity of concern, but the addiction, the
10 dependence, the drug craving is far less with
11 marijuana, as are the consequences of high dose
12 or overdose.

13 Q If I can turn your attention, please,
14 to your time as an anesthesiologist. This is
15 your personal experience as an anesthesiologist.

16 Did you ever see the habituation present in a
17 patient at an emergency room?

18 A Yes.

19 Q Can you explain that?

20 A It was unfortunately not infrequent
21 that we were called to the emergency room in
22 Dartmouth, as well as other hospitals I was
23 attending physician at, in terms of a
24 respiratory arrest secondary to opioid
25 overdoses. Whether it was fentanyl, commonly

1 used as a recreational abused drug.

2 Q About how many times did you present in
3 your anesthesiology practice to an emergency
4 room to care for a patient who had overdosed on
5 opioids?

6 A Hundreds.

7 Q About how many of those patients
8 survived?

9 A It depends on how quickly they got to
10 the hospital, but I would say it was a more --
11 if they were lucky enough to get into the EMS
12 system and be brought to a hospital and reversed
13 with naloxone, there was probably a 60 to 70
14 percent resuscitation rate, so 30 percent would
15 die.

16 Q Do you have a number here that you can
17 provide the Court as to how many overdose-
18 causing death cases you've dealt with related to
19 opioids?

20 A Can you repeat the question?

21 Q Yes, Doctor. Can you please provide a
22 number or a range on how many overdose-causing
23 death cases you've been involved with related to
24 opioids?

25 A Certainly over 2 to 500.

1 Q Can you also provide us a number,
2 please, on how many overdose-causing death cases
3 you've been involved with involving marijuana?

4 A None. Because the lethality of
5 marijuana is so rare, it would be a reportable
6 incident.

7 Q What does reportable incident mean?

8 A That means we would know about it. It
9 would probably be published by the Morbidity and
10 Mortality Weekly Report by the CDC.

11 Q If I can bring you back to the
12 habituation or tolerance, your habituation and
13 tolerance testimony from a few minutes ago. Did
14 the habituation -- did, excuse me -- did
15 patients present to you in the hospital with a
16 higher level of opioid tolerance?

17 A I don't understand the question. I'm
18 sorry.

19 Q Okay. We'll move on. Dr. Burchman,
20 can you please provide a comparison, if you can,
21 between the withdrawal symptoms that you saw in
22 your patients, the comparison being withdrawal
23 symptoms for opioids and withdrawal symptoms for
24 marijuana?

25 A Withdrawal from opioids is a horrific

1 experience. It's accompanied by extreme pain.
2 There is what's called autonomic hyperreflexia,
3 which basically means the patient has very high
4 blood pressure, sweating, tachycardia. If the
5 patient unfortunately has any associated
6 coronary artery disease, there's a significant
7 risk of cardiac arrest and death secondary to
8 that. And it's a protracted syndrome, usually
9 lasting anywhere from 6 to 12 days. And if
10 you've seen one, you'll never forget it,
11 actually.

12 Q How about the withdrawal symptoms from
13 marijuana to the extent you've experienced that
14 in your patient population?

15 A Well, I haven't really seen it a lot.
16 I mean, these patients generally don't end up in
17 the hospital, and certainly, you know,
18 anesthesiology wouldn't be called to intubate
19 them because that really doesn't occur. While I
20 won't say it's mild because withdrawal from any
21 drug, even caffeine or nicotine, is particularly
22 bad, but in comparison to opioids, it's fairly
23 mild. When I teach my residents, I say
24 withdrawal from opioids is like a dumpster fire
25 and withdrawal from marijuana, cannabis use

1 disorder, is more like, you know, the dying
2 glowing ember of a campfire. I can't quantify
3 it, but it's subjectively and qualifyingly
4 significantly less. There's sleeplessness,
5 there's irritability. Sometimes there's
6 anxiety. There can be muscle aches. These are
7 generally not clinical symptoms that would bring
8 somebody to a hospital.

9 MS. RACE: Thank you very much, Dr.
10 Burchman. If I can ask for a time check.

11 JUDGE JULIUS: Yes.

12 MS. RACE: We're not done, but we're
13 almost done, and I want to make sure that we're
14 okay.

15 JUDGE JULIUS: I was also just going to
16 bring up that we're due for a break sometime
17 soon. I don't know, depending on how much
18 longer you have, if you just want to finish and
19 then we can take our break. We are actually
20 running ahead of schedule.

21 MS. RACE: Perfect. I wouldn't mind if
22 we could take a break right now, just for a few
23 minutes.

24 ~~MS. RACE~~ JUDGE JULIUS: That's totally fine. We're
25 due for a 15-minute break. I think we were set

1 for 2:30 anyway.

2 ~~MR. McNICHOLS~~ MR. EVANS: Your Honor, if I can
3 ask, I'm scheduled to do cross tomorrow at 9:00.

4 JUDGE JULIUS: Yeah. I was going to
5 suggest. If you're going to be ready to go when
6 Ms. Race is finished, I'm happy to hear you this
7 afternoon or if during the break you'd like to
8 discuss with other --

9 ~~MR. McNICHOLS~~ MR. EVANS: I've got some incoming
10 emails from some pain specialists that I haven't
11 had a chance to read yet, and I'd like a chance to
12 look at those before I do the cross. So if we can
13 leave early, that'd be great.

14 JUDGE JULIUS: Well, what I would prefer
15 is maybe during the break discuss with some of
16 the other interested parties to see if anybody
17 is able to do their cross this afternoon. I'd
18 like to make the most of court time while we have
19 it.

20 ~~MR. McNICHOLS~~ MR. EVANS: I see.

21 JUDGE JULIUS: In the event that we get
22 behind in the future, I'd like to make up a
23 little bit more. If no one's ready, I'll hear
24 that. But to the extent that any of the
25 interested parties are going to be ready to

1 cross-examine this afternoon, just feel free to
2 have that conversation and let me know. Okay?
3 Thank you, everyone. Please, Doctor, during the
4 break, don't discuss your testimony with anyone.

5 We'll take a 15-minute break. Let's come back
6 at 2:55. Thank you, everyone.

7 MS. RACE: Thank you, Your Honor.

8 JUDGE JULIUS: We'll be in recess till
9 then.

10 (Whereupon, the above-entitled matter
11 went off the record at 2:40 p.m. and resumed at
12 2:56 p.m.)

13 JUDGE JULIUS: Before we resume --

14 MS. RACE: Yes, Your Honor.

15 JUDGE JULIUS: -- direct, I just wanted
16 to double-check with the other parties.

17 Did anyone --

18 MR. EVANS: Your Honor, Counsel, nobody
19 is prepared, so I can start.

20 I could do a half an hour now, half an
21 hour in the morning, but I really would like to
22 consult.

23 Like I said, I've had several emails
24 from people that I think it'd just benefit the
25 whole discussion to get that additional

1 information.

2 JUDGE JULIUS: I understand.

3 I mean, if you -- if you are willing
4 and able to do half an hour just to get us to --
5 to move the momentum, since we are running ahead
6 of schedule, I want to take advantage of that.

7 If you're willing to do that, I'm happy
8 to do that.

9 MR. EVANS: I think I can do it.

10 JUDGE JULIUS: All right.

11 MR. EVANS: I think I can do it.

12 And I'll -- I -- I'm looking forward
13 to, you know, getting to know the Doctor more.

14 Turns out we have some connection to
15 York Hospital. My uncle was there and -- and so
16 forth.

17 So --

18 JUDGE JULIUS: All right.

19 MR. EVANS: He was stationed at James
20 Lawrence, my brother was a Navy doc, and his
21 name is James Lawrence Evans.

22 JUDGE JULIUS: Oh, my, it's a small
23 world.

24 MR. EVANS: So --

25 JUDGE JULIUS: Well, thank you --

1 MR. EVANS: He seemed a very
2 compassionate man, I think.

3 JUDGE JULIUS: Yes.

4 MR. EVANS: I'm going to enjoy meeting
5 him.

6 JUDGE JULIUS: Thank you so much, Mr.
7 Evans, I appreciate your flexibility and your
8 willingness to at least start.

9 MR. EVANS: Sure.

10 JUDGE JULIUS: And we'll -- we'll just
11 do bifurcation, and we'll -- we'll get another
12 30-minute start on tomorrow.

13 So, I very much appreciate that, thank
14 you.

15 Ms. Race, whenever you're ready, please
16 resume.

17 MS. RACE: And, Your Honor, if the
18 Government can just be heard on one thing
19 relative to the schedule as well.

20 JUDGE JULIUS: Sure.

21 MS. RACE: Dr. Burchman, we have him
22 until the end of Thursday, which is well within
23 the kind of the suggested time line for the
24 Court.

25 But I just want to note that, you know,

1 as we're talking through the timing of when
2 cross examination may or may not begin, that's
3 what we have him for, and then, we lose him to
4 a, I think, a sail boat somewhere in a very big
5 body of water.

6 So --

7 JUDGE JULIUS: Fair enough.

8 MS. RACE: And with your indulgence
9 please, Your Honor, I'll be happy to start.

10 JUDGE JULIUS: Whenever you're ready,
11 Counsel.

12 MS. RACE: Okay.

13 JUDGE JULIUS: Thank you.

14 MS. RACE: Thank you.

15 DIRECT EXAMINATION

16 BY MS. RACE:

17 Q Dr. Burchman, just going back to some
18 of the overdose-causing death discussions that
19 we had or testimony that you provided right
20 before break, can you please talk to the Court
21 about what receptors opioids latch onto in the
22 brain?

23 A Yes. Primarily the mu receptors, and
24 they are located throughout the central nervous
25 system as well as the spinal cord, and there's a

1 high density of mu receptors.

2 That is -- that's the -- that's the
3 structure on the cell that grabs the opioid and
4 then acts.

5 There is a large concentration of mu
6 receptors in the brainstem, which happens to be
7 the seat of respiratory drive as well as cardiac
8 drive.

9 But -- but when high-dose opioids
10 affect the mu receptors in the brainstem, it
11 turns off the ability to breathe, basically, and
12 patients die of respiratory arrest.

13 Q Can you please compare that to
14 marijuana related to the locations of any
15 receptors in the body for marijuana?

16 A Sure.

17 The -- the cannabinoid receptors which
18 are, actually, outnumber the mu receptors
19 significantly, are devoid of any presence in the
20 brainstem, which kind of is the intrinsic safety
21 factor.

22 You could give a patient a huge dose of
23 THC and -- and marijuana, and you won't affect
24 the system of breathing or -- or cardiac
25 function.

1 Q Sir -- Doctor, if I can now move us to
2 talk about the difference, if there is one,
3 between botanical marijuana and the FDA-approved
4 synthetic THC, please?

5 A Sure.

6 I'll talk about it from a kind of a
7 neurochemical standpoint and then a -- a
8 pharmacologic standpoint.

9 Neurochemically, as I said, botanical
10 marijuana contains over 100 different compounds
11 that are known as cannabinoids,
12 pharmacologically active, the most common ones
13 known as THC and CBD.

14 So, those are the -- what we call the
15 major cannabinoids, as well as terpenes and
16 esters and other -- other drugs actually that
17 can modulate pain.

18 Whereas, Dronabinol or Marinol,
19 synthetic THC, is a single isolated, synthesized
20 molecule, devoid of any of the other components
21 I mentioned in the biomass portion.

22 Q Sir, when you were prescribing -- just
23 to reorient -- reorient ourselves here on the
24 testimony, at some point, you were -- you
25 prescribed synthetic THC to your pain patients?

1 A That's correct.

2 Q Is that right? Okay.

3 Did you come to a determination as to
4 how they responded to that pain treatment?

5 A Yes.

6 It -- it was pretty obvious and evident
7 early on, even being informed of it when I was
8 using it in Pennsylvania on patients.

9 It lacks a lot of the desirable
10 properties we -- we are looking for in terms of
11 analgesia.

12 Patients didn't like it, it was
13 intoxicating, they would get stoned or fatigued,
14 and they had a extremely dry mouth.

15 And it was also really expensive, and a
16 lot of them couldn't afford it.

17 The -- the other issue is one that we
18 call drug titration.

19 When we give a drug, we're looking for
20 an effect, and while dosage is important, we
21 start low, and we, you know, like we do with
22 antibiotics or with antihypertensive drugs, we -
23 - we give a little until we see the effect.

24 And then, as a physician or a provider,
25 we know how much to give, because every patient

1 is different in terms of their requirement.

2 The fixed doses of Marinol, I think
3 it's two and a half and five milligrams per
4 capsule, you can't really titrate that, you
5 would just give it to the patient.

6 Whereas, botanical marijuana, which is
7 either inhaled or can be administered orally, we
8 can ch -- we can alter the dose.

9 We can either cut a gummy, which has
10 THC and other agents, or a tincture, you can put
11 instead of seven drops under the tongue, you
12 could put two drops under the tongue.

13 And so, in anesthesia, we titrate all
14 the time. We give drugs to patients until they
15 fall asleep, and some might require 300
16 milligrams of a drug, where some might require
17 30.

18 So, this ability to titrate to effect,
19 which is basically what we do in anesthesia, we
20 do that in pain all the time.

21 And -- and -- and botanical marijuana
22 facilitates that.

23 We can't do that, certainly can't do it
24 with the synthetics.

25 Q What is full spectrum marijuana?

1 A Well, a full spectrum really refers to
2 the product that may be manufactured from
3 marijuana.

4 When you see the plant material, that
5 is full spectrum, and that means it has the
6 cannabinoids, it has terpenes, it has other
7 plant esters. It's -- it's like a smorgasbord.

8 Manufacturers can take that, they can
9 isolate the different components, and then
10 reassemble it into a gummy or into a tincture.

11 If a patient were to be inhaling it, if
12 it was in a -- in a -- a vape cartridge, that --
13 that agent, the -- the liquid in the vape is
14 kind of the essence of marijuana.

15 And then, certainly, excuse me, the
16 plant material itself is, by definition, full
17 spectrum.

18 Q Did you come to a decision -- a medical
19 opinion, pardon me, regarding whether or not the
20 FDA-approved synthetic THC was more or less
21 beneficial to your pain patients than botanical
22 marijuana?

23 A I did.

24 Q What was that opinion?

25 A It wasn't particularly useful.

1 I mean, it was the best thing we had
2 until we had access to botanical marijuana, in
3 terms of alternate agents for analgesia, if we
4 were going to go the cannabinoid route.

5 Q Thank you.

6 Now, Doctor, if I can actually turn
7 your attention to some patient safety questions,
8 please, to round out the conclusion of our --
9 your testimony today.

10 Focusing on your patient experiences,
11 your patient treatment experiences in New
12 Hampshire, please, can you walk the Court
13 through what happens, typically in your patient
14 treatment experience, when you have made a
15 recommendation as the physician that your
16 patient could benefit from marijuana?

17 A Okay.

18 In New Hampshire, as in all states,
19 actually, we don't prescribe marijuana, all we
20 can do is as a -- as a clinician, we can attest
21 to some established condition that a patient
22 has.

23 Let's pick cancer, for example, which
24 is fairly common, that for us to see in terms of
25 chronic pain patients, and there are forms we

1 fill out.

2 The patient actually brings them to us,
3 or we have them in the clinic, and we Xerox
4 them, and -- and -- and the patient can fill
5 them out, and it describes the pain.

6 All we do is indicate the condition.

7 Now, in the State of New Hampshire,
8 it's a little different than most states, the --
9 the condition and the symptom are linked.

10 For example, if a patient presents with
11 cancer, and th -- there's a symptom associated
12 with that cancer, such as pain, because they're
13 at a pain clinic -- chronic pain or severe pain
14 -- we can sort of check off the box.

15 We talk to the patient about that
16 qualification, and then, we release the patient
17 to go obtain marijuana at a state-regulated
18 medical dispensary.

19 Q Now, sir, Doctor, in your practice,
20 would you then call in the prescription or the
21 recommendation for marijuana to a pharmacy for
22 pick up?

23 A No.

24 Q Okay.

25 Would you call in the prescription or

1 the recommendation for marijuana to a dispensary
2 for pick up?

3 A No.

4 Q To your knowledge, based on your
5 experience in New Hampshire treating patients
6 with marijuana, how does a patient obtain
7 marijuana?

8 A Once the patient has the -- the
9 blessing of the State, they receive a card, and
10 that's a medical marijuana card.

11 They can go to one of the approved --
12 in New Hampshire, they're called alternative
13 treatment centers, and it kind of looks like an
14 apothecary.

15 They go in, they show an ID, they show
16 their card, and then, they discuss with a
17 dispensary technician, who's not a medical
18 provider, although we give lots of medical
19 education and about risks and factors, different
20 forms of -- of -- of marijuana to the dispensary
21 technician as well as the patient.

22 And then, the patient and the
23 dispensary technician discuss what the patient
24 will get.

25 Q Earlier, you testified about dose for

1 marijuana.

2 In your -- practicing and your
3 experience as a practicing physician
4 recommending marijuana, how would you advise
5 your -- how did you advise your patients about
6 what dose they should have or receive?

7 A Well, if you recall, we talked about
8 titration.

9 And if a patient, say, has, for
10 example, severe pain -- I have a patient, for
11 example, lost his arm in Iraq and has severe
12 neuropathic phantom limb pain -- we would
13 instruct him to start very low and titrate
14 himself, he'll -- he'll self-titrate.

15 And there's large bodies of literature
16 that support this technique of self-titration.

17 And he would talk to the dispensary
18 technician, say, my doctor suggests a tincture.

19 This -- the dispensary technicians, and
20 as I said in -- in my Oversight Committee's work
21 as well as my work on the Board of GraniteLeaf,
22 which is one of the dispensaries in New
23 Hampshire, we stress the fact that dispensary
24 technicians cannot discuss medical aspects with
25 a patient.

1 They're not healthcare providers,
2 they're not trained in it. They're merely there
3 to offer the patient choices and instruct them
4 on the mode of use.

5 And hopefully, as a physician, I've
6 done my job about telling the patient how he
7 should dose himself or herself.

8 Q Do you determine in your physician role
9 recommending marijuana to your pa -- chronic
10 pain patients, do you determine the THC
11 concentration that the patient should receive in
12 the marijuana they ultimately get?

13 A No.

14 Q Why not?

15 A Well, as I said, with titration, the
16 potency is not really a factor for us because if
17 a patient is titrating to effect, they will use
18 the drug until they see the desired effect or a
19 -- a side effect that perhaps is unwarranted.

20 For -- and -- and we do titration all
21 the time.

22 If -- if I go to CVS and I buy
23 ibuprofen, it can come in 200, 400, 600, and 800
24 milligrams.

25 If I -- if I was playing tennis and my

1 elbow's really sore, I might take 200, but if
2 it's not working, I'll take another -- is -- to
3 make it 400, up to a limit that is the upper
4 limit of a proper dose, which is 800 milligrams.

5 And so, very simply my patients, I talk
6 to them about titration very ex-ex-explicitly,
7 and they understand they should start low, and
8 I'll -- I'll give a suggested amount, but I
9 leave it to them to determine because pain is --
10 is an individual phenomenon, it's totally
11 subjective.

12 Q How about the types of marijuana
13 products available at the dispensary?

14 Do you guide your patients and tell
15 them which types of products they should use for
16 their pain?

17 A I -- I do in the sense that some
18 patients -- let's talk about a patient who is
19 marijuana tolerant, in other words, they already
20 use it.

21 They might use it in a -- in a fashion
22 where they haven't obtained it from a regulated
23 source.

24 He might -- he -- I'll -- I'll just say
25 he for the sake of argument -- he might be a --

1 a smoker. He might, you know, inhale it and
2 take the inhalational route.

3 And so I'll talk to the patient, and
4 the first thing I want to determine is, do you
5 have any experience with marijuana? And if you
6 do, I want to know about it.

7 And if he says, well, I can't smoke, I
8 have bronchitis, or, you know, my wife won't let
9 me smoke in the house. We are in a rental unit,
10 so what else is there?

11 And I'll go through the different
12 formulations, because there's oral formulations,
13 there's a topical formulation, there's a
14 formulation under the gum, you know, under the
15 tongue.

16 And -- and there's a, as I said,
17 there's a purified form that is actually put in
18 a vape pen, similar to the nicotine vapes, but
19 this is different, same -- same kind of
20 situation, though.

21 Q As a physician, Dr. Burchman, are you
22 concerned that you cannot control the type of in
23 -- ingestion method that your patients use to
24 receive the marijuana?

25 A Well, I'm concerned about every aspect

1 of medical therapy that I suggest to a patient.

2 Q And how do you handle that concern
3 related to the ingestion method?

4 A I keep close tabs on my patient.

5 I will -- I will tell that patient to
6 follow up with me either by a phone call or
7 electronic communication.

8 Or typically, when I was at Dartmouth
9 and I had the luxury of residents, students that
10 would do a lot of that kind of work, I would
11 just say, hey, David, you know, I want you to
12 call Mrs. Baxter on Friday, see what she did,
13 and we would make an entry in the record to that
14 effect.

15 And if we need to feedback on her, we
16 will.

17 Q Do you, in your practice when you were
18 pr -- recommending marijuana for pain patients -
19 - did you limit the amount of product that the
20 patients could obtain at the dispensary?

21 A Well, I -- I didn't, but the State has
22 limits on what a patient can obtain.

23 Q Were you ever concerned about the
24 quality of the marijuana product that your
25 patients could obtain from the local dispensary?

1 A Well, yes.

2 As -- as I said, I'm concerned about
3 every aspect of medical therapy that I dictate
4 to a patient.

5 MS. RACE: Were you able to -- or did
6 you, I don't know, are you -- strike that, Your
7 Honor.

8 How did you handle your concerns about
9 quality in your patient engagement on marijuana?

10 MR. KENNEALLY: Objection, I would
11 object just to relevance.

12 I don't believe the Doctor's own
13 personal opinions with regard to the quality of
14 cannabis relates to anything related to the
15 eight-part evaluation, CAMU, or any of the three
16 factors that Your Honor has to consider.

17 So, I would just renew my standing
18 objection for the record.

19 JUDGE JULIUS: Understood, thank you.

20 MR. EVANS: Your Honor, I would like to
21 add an objection that we're supposed to be
22 looking at widespread medical use.

23 JUDGE JULIUS: Can you -- into the
24 microphone? If you need to sit, that's totally
25 fine.

1 MR. EVANS: Yeah, we're -- we're
2 supposed to be looking -- this whole study that
3 we're doing has to do with widespread medical
4 use, and we're looking at standards for
5 physicians, and who should be able to do this,
6 and so forth.

7 This is one doctor's experience, and if
8 the DEA wants to say that what's happening here
9 is what's happening in the rest of the country,
10 they can put that on the record. It'd be very
11 easy to -- to refute.

12 So, I would just object that this does
13 -- has nothing to do with what's going on in the
14 country with the 30,000 physicians that they
15 say.

16 And I object that this testimony gets
17 to that point or puts any proof to that point.

18 It's one -- one doctor's experience.

19 JUDGE JULIUS: Understood.

20 Ms. Race, would you like to respond to
21 the objections?

22 MS. RACE: Yes, Your Honor, just
23 quickly.

24 I mean, these are similar objections
25 that were raised earlier.

1 They go to the weight, not the
2 admissibility of it.

3 But I -- I have, I think, four
4 questions left in the direct examination, and
5 I'm happy to pivot off of that one, if it just
6 is of ease for the benefit of the -- of the
7 debate.

8 JUDGE JULIUS: I fully understand that
9 the objections have been made.

10 I will overrule them and allow the
11 testimony.

12 It -- Counsel are free to argue weight
13 that should be afforded any piece of evidence or
14 testimony, as they deem appropriate.

15 Please continue.

16 MS. RACE: Thank you, Your Honor.

17 Dr. Burchman, are you aware of any QR
18 codes that are applied to marijuana at
19 dispensaries in New Hampshire?

20 THE WITNESS: Yes.

21 BY MS. RACE:

22 Q What do those QR codes provide?

23 A The QR code is a -- an addition to the
24 product label.

25 The label has verbal instructions.

1 The QR code, a patient can snap with a
2 smartphone, excuse me, and they will obtain a --
3 a readout of the Certificate of Analysis.

4 Q Was this also beneficial to you, as a
5 physician recommending the product?

6 A Yes.

7 Q Okay.

8 Are you familiar with any warnings that
9 are on labels to marijuana in dispensaries in
10 New Hampshire?

11 A Yes.

12 Q Can you please explain some of those
13 warnings that are on the labels in New Hampshire
14 to this Court?

15 A Yes.

16 It's a standard label that is authored
17 by the State regulators, and it basically says,
18 this is not an approved modality by the FDA.

19 Keep out of -- I'm not doing it in any
20 order, keep out of the reach of children.

21 There may be contaminants.

22 There may be side effects to use.

23 Do not operate a motor vehicle under
24 its ~~guidance~~ influence.

25 Those are the basic ones, and then,

1 says, this may be produced in a facility that
2 has peanuts and eggs, et cetera.

3 Q Okay.

4 Dr. Burchman, are you aware of any lab
5 tests that are run on product sold from New
6 Hampshire dispensaries?

7 A Yes.

8 As we discussed, the Certificate of --
9 of Analysis in the State of New Hampshire, the --
10 - the CoA, as we call it, contains information
11 about constituents, primarily concentrations
12 amounts of THC and CBD, generally by percentage.

13 It talks about evidence of residual
14 solvents, because solvents -- organic solvents
15 are occasionally used to extract cannabinoids
16 from plant material.

17 It talks about moisture content,
18 because moisture is a function of whether mold
19 will grow.

20 And pesticides, evidence of pesticides.

21 MR. KENNEALLY: Judge, I just -- I,
22 just for the record, I want to review -- I want
23 to renew Dr. Ken Finn as well as DUID Voices
24 objection to the process in this case.

25 At no point were we notified that this

1 witness was going to be testifying as to
2 potential adulterants or otherwise with respect
3 to cannabis.

4 JUDGE JULIUS: Understood, Counsel.

5 Ms. Race, do you have a response to
6 that objection with regard to this line of
7 questioning?

8 MS. RACE: Yes, Your Honor.

9 And also, I mean, I've -- I've got one
10 more question, but I'm happy to respond to this
11 line of questioning.

12 He -- specifically, the last paragraph
13 on page 4 -- it's actually the last paragraph of
14 his section on page 4, which is the first
15 paragraph of page 4.

16 It says, Dr. Burchman will also testify
17 about patient safety measures utilized by the
18 industry regarding cultivation, processing, and
19 dispensing of medicinal marijuana, including
20 CAPS, which was part of the testimony today.

21 The QR codes, also part of the
22 testimony today, Certificates of Analysis, and
23 lab testing.

24 JUDGE JULIUS: Thank you both, Counsel.

25 MR. EVANS: Your Honor, I -- I would

1 object, again, that we're trying to look at the
2 national picture here, and he's only talking
3 about, for all those items, just as it refers to
4 New Hampshire.

5 There's a wide variety across the
6 states on this.

7 First of all, the type of marijuana
8 that can be used, the potency, the laboratory
9 tests, the safety features vary from State to
10 State.

11 And unless he's prepared to talk about
12 what happens in the country, I -- I would object
13 to this testimony.

14 I -- and I'm not aware, for example,
15 that any of these technicians are licensed by
16 anybody.

17 The common name for them is bud
18 tenders, usually people that are marijuana
19 users.

20 But -- but anyway, he's not testifying
21 -- we're here to find out what's going on
22 nationally, widespread medical use.

23 What are the studies?

24 We've got one experience here.

25 JUDGE JULIUS: Ms. Race, anything to

1 say to that objection?

2 MS. RACE: Same response, generally,
3 Your Honor.

4 JUDGE JULIUS: Okay.

5 So, I do find that the disclosure of
6 what he was intending to testify about is
7 sufficient to allow the line of questioning.

8 I -- I fully appreciate the -- the
9 nature of Mr. Evans' objection, which was
10 similar to the standing objection by Co-counsel.

11 I will allow the question, overrule the
12 objection.

13 Counsel are free to, again, argue the
14 weight that should be afforded the testimony
15 based on what they perceive as the limitations,
16 and you will have an opportunity to ask him any
17 questions that you would like about the scope of
18 his experience.

19 So, overruled, and feel free to
20 continue.

21 MS. RACE: Thank you, Your Honor.

22 Dr. Burchman, just to clarify
23 something, in New Hampshire, are you qualifying
24 a patient?

25 Did you qualify a patient for the use

1 of marijuana based on their symptoms or based on
2 a condition?

3 THE WITNESS: In the State of New
4 Hampshire, it -- it's unique in that both
5 components are required to qualify a patient.

6 You need a condition as well as a
7 symptom, at least from the period of 2016 to
8 2020, when they changed it, I believe when they
9 changed it -- no, actually, 2025.

10 But my point is, a qualifying
11 condition, such as cancer, in association with a
12 qualifying symptom, such as pain.

13 So, a patient needed to fulfill both of
14 those in order to receive the ability to obtain
15 a marijuana card.

16 MS. RACE: Thank you, Your Honor.

17 Thank you, Dr. Burchman.

18 If, Your Honor -- if I could just have
19 one minute to confer with Counsel, I believe
20 that -- that might be it.

21 JUDGE JULIUS: Of course.

22 MS. RACE: Thank you.

23 JUDGE JULIUS: Thank you, Counsel.

24 MS. RACE: Your Honor, th -- this is
25 all the questions that the Government has for

1 Dr. Burchman at this time.

2 JUDGE JULIUS: Thank you very much, Ms.
3 Race.

4 MS. RACE: Thank you.

5 JUDGE JULIUS: And Mr. Evans, thank you
6 again for your flexibility.

7 Just to make sure we keep track, do you
8 want to split your time, 30 minutes -- 30
9 minutes? How would you like for us to --

10 MR. EVANS: I'll do 30 minutes, Your
11 Honor.

12 JUDGE JULIUS: Okay.

13 MR. EVANS: I'll do 30 minutes, and I -
14 -

15 JUDGE JULIUS: Reserve 30 for tomorrow?

16 MR. EVANS: I will -- I will try not to
17 be passionate this time.

18 JUDGE JULIUS: No worries.

19 Yeah, I -- so, Mr. Phillips is going to
20 give you a five-minute warning.

21 MR. EVANS: Thanks a lot.

22 JUDGE JULIUS: Just know that it's for
23 the 30 minutes, you're not going to be cut off
24 totally, you'll have another 30 tomorrow
25 morning.

1 CROSS EXAMINATION

2 MR. EVANS: Yeah, Doctor, I -- you --
3 you certainly sound like a very compassionate
4 person concerned about your patients, I
5 appreciate that.

6 How -- how would I --

7 JUDGE JULIUS: I'm sorry, Mr. Evans, I
8 think our Court reporter's having a hard time
9 picking up the recording.

10 Are you able to angle it closer to you?

11 MR. EVANS: Yeah, the cord is kind of --

12 JUDGE JULIUS: I think we also brought
13 in a block to maybe get it up a little bit
14 higher for you.

15 MR. EVANS: Okay.

16 JUDGE JULIUS: If you don't mind.

17 MR. EVANS: No, we'd love it.

18 Thank you, thank you.

19 JUDGE JULIUS: Thank you.

20 MR. EVANS: So, looking at these
21 dispensaries, you -- you started off the
22 patient's journey into, as you referred to it,
23 marijuana space, that they got an approval by
24 the State.

25 How did they get that?

1 THE WITNESS: The -- I mean --

2 BY MR. EVANS:

3 Q You started talking about how a patient
4 obtained medical marijuana.

5 The place you started was that they got
6 an okay ~~for~~ from the State.

7 Did anything happen before that?

8 A I'm sorry, I don't quite understand the
9 question.

10 Q Did somebody just walk up to the State
11 and say, I want to get marijuana, and the State
12 says, okay?

13 A The patient would obtain two forms, one
14 of which the patient would give to a physician
15 or a healthcare provider.

16 In -- in the State of New Hampshire,
17 they can go to a dentist and other providers,
18 and that -- that healthcare practitioner would
19 attest to a list of qualifying conditions as
20 well as qualifying symptoms.

21 And if -- if that physician side of the
22 form is completed, then, the patient fills out
23 the rest, basically demographic data, mails it
24 to the Department of Health.

25 And then, usually within 14 days

1 receives a card in the mail, and that enables
2 the patient to go to one of the regulated
3 dispensaries, of which there are only four in
4 the State.

5 MR. EVANS: Okay.

6 Well, you -- you -- you started at that
7 point, let's just leave off there.

8 Now when you say --

9 JUDGE JULIUS: I'm sorry --

10 MR. EVANS: -- a list of these --

11 JUDGE JULIUS: I'm sorry, is there an
12 objection?

13 MS. RACE: There is, because I just
14 want to make sure that -- that Dr. Burchman has
15 the full ability to provide the answer instead
16 of being cut off by Counsel.

17 MR. EVANS: Well, he did provide the
18 answer, he said it starts when you get approval
19 from the State, and I was asking what happened
20 before that.

21 So, he's told what happened before
22 that, and then, he was talking about what
23 happened with the State, so, I got the answer to
24 my question.

25 JUDGE JULIUS: Okay.

1 Well, let's make sure that he completes
2 his answer before we move on to the next
3 question.

4 MR. EVANS: Okay.

5 JUDGE JULIUS: Thank you, everyone.

6 MR. EVANS: All right.

7 So, this list of conditions, who
8 created that list?

9 THE WITNESS: That list is created by
10 the legislature with advice from the Therapeutic
11 Medical Cannabis Oversight Board, of which I
12 sit.

13 BY MR. EVANS:

14 Q Mm-hmm.

15 Is anybody else involved in that?

16 A The -- the Oversight Board receives
17 feedback from patients, and from time to time,
18 we consider adding conditions as well as
19 subtracting conditions.

20 Q Okay.

21 Are any of these conditions for
22 botanical marijuana approved by the FDA for --
23 for the use of botanical marijuana?

24 A If I could just get some clarification?

25 Q Okay.

1 Well, let's define botanical marijuana,
2 because we haven't done it yet.

3 How do you define botanical marijuana?

4 A Marijuana derived from plant material.

5 Q Okay.

6 And that could be something that came
7 about ~~of~~ from the plant material being crushed or
8 the oil being processed out of the plant.

9 Is that one way that it would be still
10 botanical marijuana?

11 A Yes.

12 Q Okay.

13 And isn't that how solvents get into
14 marijuana because they use butane and other
15 substances like that to push the oil out of the
16 marijuana?

17 A I can't say, because I'm not a
18 processor.

19 So, I -- I have a rudimentary
20 understanding of how it's actually processed.

21 Q Okay.

22 Now, on these -- these -- well -- well,
23 let me ask you a question.

24 How would you describe your
25 understanding of how the FDA approves a

1 medicine? Would you say that -- that is also
2 rudimentary?

3 A Well, it really depends on what time
4 frame we're talking about. If --

5 Q Well, right now, your current
6 understanding, do you have only a rudimentary
7 understanding of the FDA process approving
8 medicines as being safe and effective, or do you
9 have an -- a -- a greater understanding of it?

10 A I -- I -- I'm sorry, but I don't really
11 understand the -- the question.

12 Q Okay.

13 Did anybody tell you to respond to
14 questions in that manner?

15 A No.

16 Q Okay.

17 Can I ask, other than attorneys, did
18 you talk with anybody in preparation for your
19 testimony today?

20 A Yes.

21 Q Who did you talk to?

22 A I have personal counsel.

23 Q I -- I said not your lawyer, did you
24 speak to anybody else?

25 The -- the communication with your

1 lawyer are confidential.

2 Did you speak to anybody else?

3 A Yes.

4 Q Who did you speak to?

5 A I spoke to colleagues, and some of my
6 colleagues are in the law field -- the legal
7 field.

8 Q Okay.

9 When you say colleagues, you mean other
10 doctors, healthcare providers, people like that?

11 A Some of them are.

12 Q Okay.

13 Did you speak to anybody in the
14 marijuana industry?

15 And I define marijuana industry as
16 persons involved in the creation, marketing,
17 delivery of -- of botanical marijuana.

18 A No.

19 Q Okay.

20 Now, this -- this Tea House that you're
21 involved with, is that the one that's in White
22 River Junction?

23 A Yes.

24 Q Okay.

25 Now I -- I have looked at their

1 website, they're both for recreational and
2 medical, so their products could be used either
3 way, is that correct?

4 A Yes.

5 Q Okay.

6 So, what medical condition would you
7 use a Blueberry Lobster for?

8 A Could you elaborate, please?

9 Q Is one of their products named
10 Blueberry Lobster?

11 A I -- I don't know.

12 Q Are you familiar with any of their
13 products?

14 A I am familiar with their formulations.
15 That is flower, tincture, a class of orally
16 ingested agents called edibles, gummies,
17 chocolate, and vaporizers.

18 Q Did you ever go to the Tea House and
19 look at their products?

20 A Yes.

21 Q Okay.

22 Did you ever see Cherry Pie Flower?

23 A I'm not familiar with the brand names.

24 Q Okay.

25 Well, let me give you some more names,

1 Cream Crusher Flower, Crunch Berries, Dante's
2 Inferno, Dope Dog, and Girl Scout Cookies.

3 Have any of your patients recommended -
4 - told you that they're taking Girl Scout Cookie
5 marijuana?

6 A No.

7 Q Okay.

8 Have any of your patients brought any
9 packages to you, showing you what they're
10 taking, described to you what they're taking, by
11 using any of these names?

12 A Well, I don't see patients, and so, I
13 don't have patients, and I -- I certainly don't
14 have patients in Vermont that go to the Tea
15 House.

16 Q Okay.

17 And what is your responsibility with
18 the Tea House? What do you do there?

19 A I assisted the owner in obtaining a
20 license, and I assisted her in aspects of
21 financing.

22 MR. EVANS: But you never actually
23 looked at the products, how they're formulated,
24 how they're packaged, whether they have any
25 photographs on them, any photographs -- pictures

1 of animals or things that might be attractive to
2 children?

3 Did you ever talk to her about that and
4 say, look, we have to have a professional
5 presentation?

6 I mean, unless this one product is
7 aimed specifically at Girl Scouts, Girl Scout
8 Cookie, it doesn't sound very medical to me.

9 And yet, this is a -- a place where
10 you're an advisor.

11 These dispensary technicians --

12 MS. RACE: Your Honor --

13 JUDGE JULIUS: Hold on, Mr. Evans --

14 MR. EVANS: Yeah.

15 MS. RACE: I just had an objection.

16 Just --

17 MR. EVANS: The -- the question I have
18 is that --

19 JUDGE JULIUS: Well, hold -- hold on.

20 MS. RACE: Thank you, Your Honor.

21 JUDGE JULIUS: Let me hear the
22 objection.

23 MS. RACE: Just to the extent that
24 there's a question pending before the witness,
25 that would -- but it seems like there's a lot of

1 discussion with no question pending.

2 And so, I just want to make a -- an --
3 a point for the record.

4 MR. EVANS: Well, I'm sorry, I'll ask
5 the question.

6 Did it ever occur to you to find out
7 exactly how these products were packaged, sold,
8 and dispensed?

9 THE WITNESS: My interest is, first of
10 all, in safety.

11 I'm interested in the constituency,
12 purity, analysis, and in educating the
13 dispensary staff on the aforementioned risks and
14 side effects that we discussed earlier.

15 I'm not really up on product names.

16 BY MR. EVANS:

17 Q Well, Doctor, you -- you talked about
18 warnings on the packages, have you ever read
19 those warnings?

20 A Yes.

21 Q So, you've read some of the packages
22 then?

23 A Well, I've read the labels on the
24 packages.

25 Q That's all you read, just the label?

1 You didn't -- you didn't look at the
2 name Crunch Berries or Dante's Infernos or Dope
3 Dog?

4 A I have zero interest on the trade names
5 of the products.

6 Q I believe you.

7 Now, these dispensary technicians, are
8 they licensed?

9 A No.

10 MR. EVANS: Are they trained by the
11 State?

12 MS. RACE: Objection, just a point of
13 record, Your Honor.

14 JUDGE JULIUS: Go ahead.

15 MS. RACE: Which State are we talking
16 about?

17 MR. EVANS: Well, right now we're
18 focusing on New Hampshire, but --

19 THE WITNESS: Oh, I didn't know that, I
20 thought we were talking about Vermont. The Tea
21 House is in Vermont.

22 BY MR. EVANS:

23 Q Oh, Vermont -- New Hampshire, okay.

24 But you were talking about dispensary
25 technicians in general.

1 So, what about New Hampshire? Are they
2 licensed by the State?

3 A No.

4 Q What about Vermont? Are they licensed
5 by the State?

6 A No.

7 Q Is there any certification board that
8 okays them and says, you're properly trained to
9 tell people the difference between Cream
10 Crushers, Dope Dog, and Dante's Inferno?

11 A Which State are we referring to,
12 please?

13 Q You can pick either State, it's fine
14 with me.

15 Are you aware of any certification
16 process that -- that when these people are
17 involved in this very intimate healthcare, okay,
18 I mean, I was an EMT, I had to go through four
19 months of training to get certified, okay?

20 These people are dispensing a
21 medication, okay, on their own accord, doesn't
22 it bother you that they -- there's no
23 certification for that?

24 A I don't quite understand the question
25 because you asked a prior question, and then you

1 asked a secondary question.

2 Q All right, let me --

3 A I'm -- I'm a little confused.

4 Q Let me -- let me go to another
5 scenario.

6 You -- have you ever written a
7 prescription for somebody that is dealt with in
8 a pharmacy?

9 A Are we referring to marijuana? I'm --
10 I'm very confused.

11 Q I didn't mention marijuana.

12 A I'm sorry.

13 Q I didn't mention marijuana, and you're
14 being very thoughtful in trying to dodge my
15 questions, I get that.

16 But did you ever write a medical
17 prescription for any drug that was sent to a
18 pharmacy?

19 A Of course.

20 Q Okay.

21 And why did you have that person go to
22 a pharmacy?

23 A If I write an FDA-approved drug
24 prescription, commonly, in this country, in the
25 United States, that drug is dispensed by a

1 licensed pharmacy.

2 Q Have you ever written a prescription
3 for any medicine where you told the pharmacist,
4 you decide the amount?

5 A No.

6 Q Okay.

7 Have you ever made a recommendation
8 that somebody should get Cherry Pie Flower or --
9 or Cream Crusher, anything like that?

10 A No.

11 Q Okay.

12 Now, when you recommend marijuana to
13 somebody, and -- and I'm -- now, do you
14 recommend -- do you recommend tincture? Do you
15 recommend flower?

16 A I discuss with the patient, as I
17 previously stated, the history of possible
18 marijuana ingestion and what their preference
19 might be.

20 Q I'm not talking about their preference.

21 Do you discuss flower with them as an
22 option?

23 A Yes.

24 Q Okay.

25 Can you define flower, please?

1 A Flower is the dried component of the
2 marijuana plant flower.

3 Q Okay.

4 And when you -- when you titrate people
5 off opiates, do you then titrate them on
6 marijuana?

7 You know, is titrate being raising or
8 lowering of the amount or the potency?

9 A Yes.

10 Q Okay.

11 Now, how would you titrate the dry
12 leaves of marijuana?

13 How would you tell a person how much to
14 smoke or did you just tell -- well, answer that
15 question first.

16 A The inhalational route for flower is
17 through combustion, generally, and there is a
18 component of the cannabinoids that gets
19 vaporized through the mechanism of combustion
20 and inhaled and absorbed in the pulmonary tree.

21 With each inhalation, there is some
22 dose that is ingested.

23 As I spoke about titration, self-
24 administered dosing is titration in this
25 instance.

1 Q Okay.

2 So, you leave it to the patient to
3 decide how much, is that correct?

4 A Yes.

5 Q Okay.

6 And if the patient comes back and says
7 to you, I've been smoking this marijuana and I
8 feel good, how would you respond to that?

9 A I would respond by asking further
10 questions.

11 Q Okay.

12 Now, because somebody feels good for
13 ingesting marijuana, does that mean that they're
14 getting cured or healed of any disease?

15 A In the clinical evaluation of a patient
16 who has chronic pain, I would personally, in my
17 opinion, want to elicit more than just the
18 descriptor feels good.

19 Q Now, you -- you testified earlier that
20 pain is very subjective, I -- I -- I've been a
21 personal injury lawyer, I can testify to that.

22 But do people sometimes -- are there
23 people that have a different tolerance for pain
24 than others?

25 A Yes.

1 Q Do people sometimes, in your
2 experience, lie about having pain in order to
3 gain some financial advantage?

4 A I can't answer that question, I don't
5 know, I can't read minds.

6 Q Okay.

7 But is -- there's no chemical test for
8 pain or a medical test or any test for pain
9 other than just what a person says, is that
10 correct?

11 A Not entirely.

12 Q Well, what -- how would you verify that
13 somebody was in pain?

14 A There are objective measures.

15 Q And do you do that every time?

16 A Of course.

17 Q Okay.

18 Now, what do you know about these
19 interactions with physicians in the rest of the
20 country?

21 The -- what do you know are there any
22 states where -- have you heard about Venice,
23 California, for example, where they have, on the
24 beach, they have these little offices you can
25 walk in and get a marijuana certification for

1 \$40 without any exam or nothing? Have you heard
2 about that?

3 A My pain practice -- pain management
4 practice was restricted to the State of New
5 Hampshire.

6 Q I asked you what you heard about, what
7 is your knowledge about what's going on
8 nationally?

9 Because that's what we're talking about
10 here.

11 Let me give you an example, you let me
12 know if you think this is proper, this is an
13 actual case.

14 Guy walks into a marijuana doctor in
15 New York, Plattsburgh, New York, says that he
16 has a spinal cord injury and cancer, brings his
17 medical records with him.

18 And as he's sitting in the office, the
19 doctor walks in and says, how you doing? We're
20 going to get you your medical card today.

21 And then, he sits down and talks to the
22 person and says, and the person says, well, I've
23 had cancer and spinal cord injury.

24 And the doctor says, fine, I'll -- I'll
25 get you your card, but I got to write down

1 something else because of this. I'm going to
2 put down post-traumatic stress disorder.

3 Patient says, but I don't have post-
4 traumatic stress disorder.

5 Doctor says, well, I got to put it down
6 anyway, and it's a sworn statement that the
7 doctor fills out.

8 The guy takes it to the dispensary,
9 okay, and walks into the dispensary and hands
10 the doctor's thing.

11 And the pat -- the patient then, says,
12 to the dispensary guy, this doctor put down
13 post-traumatic stress disorder, I don't have
14 post-traumatic stress disorder.

15 And the dispensary said, don't worry,
16 we put that down on everybody's certification.

17 Does that sound like the proper way to
18 do things?

19 A I really can't comment on the practice
20 of other physicians, only --

21 MR. EVANS: I'm just asking you for a
22 process to get medical marijuana.

23 Was that enough of an evaluation of
24 that patient who had his medical records there,
25 okay?

1 MS. RACE: Objection, Your Honor --

2 MR. EVANS: And who denied having a
3 condition.

4 Do you think that's proper to sign a
5 sworn statement without -- without examining the
6 person, not even looking at them?

7 JUDGE JULIUS: Hold on, don't answer
8 yet.

9 MR. EVANS: All right.

10 JUDGE JULIUS: There's an objection.

11 MS. RACE: I just have two succinct
12 objections.

13 The first one being, the first
14 objection I lodged, which is that I would
15 request Counsel please allow the witness to
16 complete the answer.

17 And the second being that we've got a
18 series of compound questions in the answer, in
19 the question, too.

20 And so, I just want it -- for the
21 benefit of a clear record for everybody, I just
22 want to make sure that I --

23 MR. EVANS: Okay.

24 MS. RACE: -- I referenced that.

25 MR. EVANS: Do you think it's proper

1 for a doctor to walk in without saying a word to
2 somebody, and the first thing the doctor says
3 is, I'm going to give you a medical marijuana
4 card? Do you think that's proper?

5 THE WITNESS: I'm a little confused by
6 your question, because you said a doctor walks
7 in to see a doctor.

8 BY MR. EVANS:

9 Q No, a patient, pardon -- pardon me.

10 Patient's sitting there, doctor walks
11 in, looks at the patient and says, okay, I'm
12 going to get you a medical marijuana card today,
13 not even asking the patient anything.

14 Do you think that's proper?

15 A I can only speak for my own practice,
16 and that is not how I would conduct myself.

17 Q Okay, great.

18 Would that be legal or illegal in
19 Vermont or New Hampshire for a doctor -- for a
20 doctor to ex -- to give somebody a medical
21 marijuana card without examining them? Would
22 that be proper in either State?

23 A Again, I don't know the law in that
24 respect, I mean, I just know how to --

25 Q You know the law about dispensing

1 medical --

2 A Excuse me --

3 JUDGE JULIUS: Hold on, let him finish,
4 please.

5 MR. EVANS: I'm sorry, I'm sorry, I'm
6 sorry, pardon me.

7 THE WITNESS: I'm not of the legal
8 mind, I only know how to practice what I
9 consider to be judicious and appropriate
10 medicine.

11 And all I would respond to that
12 statement and that scenario is that would not be
13 something I would approve of and I would do.

14 BY MR. EVANS:

15 Q Okay.

16 Are you familiar with the laws in
17 Vermont and New Hampshire about a physician
18 requirements in examining a patient before
19 giving them a card? Are you familiar with what
20 those requirements are?

21 A Well, I don't practice medicine and --
22 and never have in Vermont, so, I really can't
23 comment on that.

24 Q But don't you advise a medical
25 marijuana dispensary in Vermont?

1 Shouldn't you know the -- what the --
2 what they're supposed to do and not do?

3 You help them get licensing. They --
4 they had to understand, agree to certain things
5 that they were going to do.

6 A If --

7 Q I've helped a lot of healthcare
8 providers get licensing, and they got to -- they
9 got to give a lot of information.

10 Well, it's okay if you just say you
11 don't know, that's fine, you can just say you
12 don't know.

13 A Sorry, I can't talk.

14 MS. RACE: Objection, Your Honor.

15 MR. EVANS: Don't look at the attorney,
16 please.

17 JUDGE JULIUS: What's the -- what's the
18 nature of objection?

19 MS. RACE: A variety of questions were
20 posed, no time was provided to the witness to
21 answer any of those.

22 And then, it appears that we're kind of
23 moving into a badgering space as well.

24 And so, I have objections based on this
25 line of questioning.

1 Certainly --

2 MR. EVANS: Well, I --

3 JUDGE JULIUS: Hold on just a second.

4 MR. EVANS: I'm sorry.

5 JUDGE JULIUS: I'll give you an
6 opportunity, sir.

7 MS. RACE: I understand that Counsel
8 would like to pose questions.

9 I just request -- the Government
10 requests that Counsel poses those questions one
11 on one so we can appropriately debate whether or
12 not the individual questions were appropriately
13 asked.

14 MR. EVANS: Okay.

15 MS. RACE: Thank you.

16 MR. EVANS: Doctor, are you familiar
17 with the law that guides a doctor in deciding
18 that a person should get a medical marijuana
19 card in New Hampshire?

20 THE WITNESS: There are guidelines, I
21 don't know if they're called laws.

22 BY MR. EVANS:

23 Q Well, okay, it could be a statute, it
24 could be an administrative rule put out by the
25 Department of Health after going through

1 administrative rule process.

2 There could be guidelines put out by
3 the Department of Health.

4 But I happen to know there's specific
5 statutes in New Hampshire and Vermont on these
6 issues, I happen to know that.

7 And I'm asking you, do you know what
8 you're supposed to do under the law in New
9 Hampshire?

10 You advise other doctors. You advise a
11 marijuana dispensary, okay?

12 When a doctor says, I want to do this,
13 and do you know whether or not they can do it or
14 not?

15 What is your knowledge of the laws?

16 A As I said, in the State of New
17 Hampshire, a physician needs to examine the
18 patient, attest to the qualifying condition and
19 symptom, and then, the patient fulfills the rest
20 of the process and reports to the State for
21 obtaining a medical card.

22 Q Okay.

23 Do you know what the process is in the
24 rest of the country generally?

25 A It varies, that much I do know, there's

1 a large variation.

2 However, the intrinsic process is
3 similar in that there is a patient-healthcare
4 provider interaction whereby a qualifying
5 condition needs to be documented and then,
6 followed.

7 Q Okay.

8 A And -- and at such time, the patient
9 can obtain a authorization --

10 Q When you --

11 A -- to obtain medical marijuana.

12 Q When you say an examination, what does
13 that require?

14 A I can only speak to the State of New
15 Hampshire.

16 It requires an assessment of the
17 patient's condition.

18 Now, I can speak generally in terms of
19 other medical qualifying conditions or
20 specifically to pain.

21 Q Okay.

22 Now you talked about the CoA, the
23 Certificate of Analysis, and that that provides
24 information on the -- does it provide
25 information on the -- the specific cannabinoids

1 that are in that product?

2 A Yes.

3 Q Okay.

4 And are there cannabinoids on these
5 CoAs that are reported other than Delta-9 THC?
6 Other forms of THC?

7 A Well, Delta-9 THC is the main form of
8 THC.

9 Q That wasn't my question.

10 Do they report on other types of THC
11 also?

12 A In the State of New Hampshire, you're
13 referring, sir?

14 Q Right now we're stuck there.

15 But what about, do they put in the --
16 the type of CBD, or CBD there?

17 A Yes, but I need to emphasize that CBD
18 is a separate -- totally separate molecule to
19 THC.

20 Q To where?

21 A You referred to multiple types of THC.

22 Now, there are isomers of THC, I don't
23 believe that those are generally part of a CoA.

24 Q Okay.

25 Let's talk about CBD, do you consider

1 CBD to be botanical marijuana?

2 A Cannabidiol, which is known as CBD, is
3 one of the cannabinoids, probably the second
4 most common cannabinoid in most strains of
5 botanical marijuana.

6 Q Okay.

7 Is there an FDA-approved medicine
8 that's made of CBD?

9 A Yes.

10 Q What is the name of it?

11 A Epidiolex.

12 Q Was Epidiolex tested on anybody over
13 the age of 55?

14 A I am unaware.

15 Q Are there any risks in somebody
16 ingesting CBD?

17 A As with any drug, come risks of
18 ingestion.

19 Q No, I'm asking specific risks with CBD,
20 it's right on the package insert, approved by
21 the FDA.

22 And I'm surprised that you don't know
23 that because you're supposed to be an expert in
24 botanical marijuana, which would include CBD.

25 But you don't appear to be an expert in

1 that particular item, do you, Doctor?

2 A I certainly know the pharmacology risks
3 and benefits of most cannabinoids, including
4 cannabidiol.

5 Q Give me three of the risks of
6 cannabidiol, what are they?

7 A Serotonin syndrome, induction of liver
8 enzymes cytochrome P450 and 480, and
9 occasionally, sedation.

10 Q Now, you talked about the process with
11 the liver.

12 Could you be more specific about why
13 that is harmful?

14 A If I may just ask, are you specifying
15 with respect to cannabidiol?

16 Q Right now, Epidiolex.

17 A Okay, CBD?

18 Q That's published, you should have read
19 it, you should be familiar with it, correct?

20 A Of course.

21 Q Okay.

22 So, it specifically mentions problems
23 with your liver.

24 You gave a technical answer, time's
25 expired, can you just answer that question?

1 JUDGE JULIUS: I'll allow him to answer
2 the question.

3 MR. EVANS: Okay.

4 What is the problem that CBD causes
5 with somebody's liver?

6 THE WITNESS: CBD can inhibit the
7 enzymes I talked about, these are called
8 cytochrome complexes.

9 The liver is an organ responsible for
10 metabolism or breakdown of all kinds of
11 molecules, including drugs.

12 MR. EVANS: May I just ask one more
13 follow-up question? Are you done with that?

14 JUDGE JULIUS: We can then --

15 THE WITNESS: No, not really, but --

16 JUDGE JULIUS: It's okay.

17 MR. EVANS: Sorry.

18 JUDGE JULIUS: Yeah, you can ask
19 another question, we'll just count the time.

20 MR. EVANS: Okay.

21 JUDGE JULIUS: You may have 28 minutes.

22 MR. EVANS: Now, you -- you talked
23 about how you monitored --

24 MS. RACE: Objection -- objection.

25 THE WITNESS: I didn't get to answer the

1 --

2 JUDGE JULIUS: Hold on.

3 MR. EVANS: Oh, I'm sorry. I didn't -
4 - I thought you were finished, pardon me.

5 JUDGE JULIUS: Hold on, objection.

6 MS. RACE: If that's resolved, I
7 appreciate that, that was going to be my
8 objection because I believe the witness wasn't
9 finished with that question.

10 JUDGE JULIUS: Okay.

11 If he's -- if you aren't finished with
12 your answer, please finish your answer.

13 THE WITNESS: Thank you.

14 CBD is one of the cannabinoids that can
15 both inhibit and augment certain enzymatic
16 functions of the liver.

17 The liver is important in
18 detoxification.

19 If -- if these liver enzymes are
20 affected, it can affect how the liver
21 metabolizes substances.

22 MR. EVANS: Okay, one more question.

23 Have you ever recommended CBD or
24 prescribed CBD or Epidiolex to any patient?

25 THE WITNESS: No.

1 MR. EVANS: Okay.

2 We'll see you tomorrow morning.

3 JUDGE JULIUS: Thank you, Mr. Evans.

4 Just for the record, I want to make
5 sure, because you are Counsel for a number of
6 parties, I just want to make sure that the 30
7 minutes that you took this afternoon was for
8 National Drug and Alcohol Screening Association.

9 MR. EVANS: Correct.

10 JUDGE JULIUS: Okay.

11 MR. EVANS: Correct.

12 JUDGE JULIUS: Very good, thank you,
13 sir.

14 MR. EVANS: Right, right.

15 JUDGE JULIUS: And again, appreciate
16 your flexibility this afternoon.

17 MR. EVANS: Well, for sure.

18 JUDGE JULIUS: Before we adjourn for the
19 evening, I would thank you for your testimony
20 today.

21 Again, please don't discuss your
22 testimony with anyone between now and tomorrow.

23 And looking at the schedules of
24 attendance, it looks like we may pick up a
25 little bit more extra time tomorrow as well.

1 We did in our preliminary order say
2 that no one's going to be forced to present
3 their case-in-chief earlier than the day
4 scheduled, which I think would mean that,
5 potentially, Government maybe be prepared for
6 any redirect tomorrow, even though it's
7 originally scheduled to be first thing Thursday.

8 So, just be aware that we may be
9 picking up some time, and I want to be able to -
10 - to --

11 MS. RACE: We'll be ready.

12 JUDGE JULIUS: -- capitalize, to the
13 extent possible, on any ahead of schedule
14 processing that we have.

15 MS. RACE: Thank you.

16 JUDGE JULIUS: Sure. So, thank you
17 everyone for your flexibility today.

18 We will be adjourned until tomorrow.
19 Have a great evening, everyone.

20 Thank you.

21 THE LAW CLERK ~~BAILIFF~~: All rise.

22 (Whereupon, the proceedings went off
23 the record at 3:58 p.m.)
24
25

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
5 transcript is a true and accurate record of the
6 proceedings; and that I am neither counsel for,
7 related to, nor employed by any of the parties
8 to this action in which this matter was taken;
9 and further that I am not a relative nor an
10 employee of any of the parties nor counsel
11 employed by the parties, and I am not
12 financially or otherwise interested in the
13 outcome of the action.

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19 _____
20 Court Reporter

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