

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
	:	

Wednesday,
July 1, 2026

700 Army Navy Drive
Arlington, Virginia 22202

The above-entitled matter came on for
hearing, pursuant to notice, at 9:01 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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12 On Behalf of the National Drug and Alcohol
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19 PATRICK D. KENNEALLY, ESQ.
20 Burke Law Group, PLLC
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26 On Behalf of the Tennessee Bureau of
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29 Assistant Attorney General
30 Office of the Tennessee Attorney
31 General
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1 APPEARANCES: (continued)

2 On Behalf of Smart Approaches to Marijuana:

3 JOHN M. MCNICHOLS, ESQ.
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9 On Behalf of the States of Nebraska, Idaho,
and Indiana:

10 JOHN M. MCNICHOLS, ESQ.
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1 APPEARANCES: (continued)

2 On Behalf of Kenneth Finn, M.D.:

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

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7 DAVID G. EVANS, ESQ.

8 [REDACTED]
9 [REDACTED]

10 ALSO PRESENT:

11 GRAYSON E. PHILLIPS, ESQ., Law Clerk
12 DECLAN HURLEY, Torridon Law summer associate

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2 (9:01 a.m.)

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

7 This is Day 3 of our hearing. Let me
8 start with taking roll call. So, Government
9 Counsel, would you please state the appearances
10 for your counsel today?

11 MR. SCHWARTZ: Good morning, Your
12 Honor. Again, James J. Schwartz, Lisa Man, and
13 Stacy Race for the Government.

14 JUDGE JULIUS: Thank you, Counsel.

15 MS. MAN: Good morning.

16 JUDGE JULIUS: For Smart Approaches to
17 Marijuana?

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

21 JUDGE JULIUS: And for the opposed
22 states of Nebraska, Idaho, and Indiana?

23 MR. McNICHOLS: John McNichols, Chase
24 Harrington, Zach ~~Horton~~ Gordon. And joining us
25 today is Declan Hurley, who is a summer associate

1 at my law firm.

2 JUDGE JULIUS: Excellent. Welcome,
3 sir.

4 And for -- on behalf of DUID Victim
5 Voices?

6 MR. EVANS: David Evans, Your Honor,
7 and Patrick Kenneally.

8 JUDGE JULIUS: Excellent.
9 And on behalf of Dr. Kenneth Finn,
10 M.D.?

11 MR. EVANS: David Evans and Patrick
12 Kenneally.

13 JUDGE JULIUS: And for National Drug
14 and Alcohol Screening Association?

15 MR. EVANS: Just David Evans.

16 JUDGE JULIUS: Excellent. You're
17 wearing many hats today, Mr. Evans.

18 MR. EVANS: I'm trying to.

19 JUDGE JULIUS: I don't have on the
20 attendance today the Tennessee Bureau of
21 Investigation. Is that accurate? Anyone here
22 for him or for that agency?

23 (No response.)

24 JUDGE JULIUS: And Phillip Drum is also
25 not noticed to appear today.

1 Okay. So those two interested parties
2 are not here.

3 Thank you, everyone, for the
4 attendance. And unless there are any
5 preliminary matters from anyone?

6 MR. McNICHOLS: None.

7 MS. RACE: No, Your Honor.

8 JUDGE JULIUS: Okay. Mr. Evans, please
9 feel free to begin part 2 of your
10 cross-examination on behalf of National Drug and
11 Alcohol Screening Association.

12 MR. EVANS: Thank you, Your Honor.
13 Your Honor, I would like to just very briefly
14 put something on the record about
15 Dr. Chiapperino. I've been a member of the
16 National Employment Lawyers Association --

17 MR. SCHWARTZ: Your Honor, this is off
18 the stand. This is not proper.

19 MR. EVANS: It has nothing to do
20 with --

21 JUDGE JULIUS: Hold on. I -- I don't
22 know what he's going to proffer. I'll --

23 MR. SCHWARTZ: It can't possibly be
24 relevant or appropriate to -- to talk about
25 Dr. Chiapperino, who's been dismissed. If he

1 comes in rebuttal, great. But for now, he has
2 opportunity. He had a full hour to deal with
3 it. This is not appropriate right now.

4 JUDGE JULIUS: Do you have evidence
5 that you're trying -- that you would want to
6 submit in argument?

7 MR. EVANS: I wanted to issue a warning
8 that -- that Dr. Chiapperino should not be
9 retaliated against for his testimony, but I can
10 do that in person with the DEA.

11 JUDGE JULIUS: Okay. If you want to
12 have a conversation with the DEA offline,
13 that's --

14 MR. EVANS: Fine.

15 JUDGE JULIUS: -- perfectly acceptable.
16 Thank you both.

17 WHEREUPON,

18 COREY BURCHMAN
19 was recalled as a witness by Counsel for the
20 Government and, having been previously duly
21 sworn, resumed the witness stand, was further
22 examined and testified as follows:

23 CONTINUED CROSS-EXAMINATION

24 BY MR. EVANS:

25 Q Okay. Doctor, good morning.

1 A Good morning.

2 Q Is writing a prescription a medical
3 activity?

4 A Yes.

5 Q Okay. And in -- in writing a
6 prescription, are -- are you familiar with the
7 federal law on how to write a prescription?

8 A No.

9 Q Okay. In writing a prescription,
10 should you put in the drug name?

11 A Yes.

12 Q Should you put in the strength?

13 A Could you clarify that, please?

14 Q I would assume it would mean the
15 potency. Maybe the -- I assume that means the
16 potency.

17 A Okay. I -- yeah, I --

18 Q You know, there are medications that
19 have higher and lower potencies.

20 A If -- if you mean the concentration of
21 the particular pharmaceutical, I would concur.

22 Q Okay. And the dosage form, should that
23 be in a prescription?

24 A Again, I'm not trying to correct you,
25 but dosage and form are two different --

1 Q Well, let's just go --

2 A -- qualities of a -- of a
3 pharmaceutical. If you mean dosage --

4 Q Dosage.

5 A -- yes.

6 Q Okay. And the quantity prescribed.

7 A Yes.

8 Q Okay. And the directions for use.

9 A Yes.

10 Q And the number of refills.

11 A Yes.

12 Q Okay. Now, you testified yesterday
13 that you seem to allow most of these decisions
14 to the dispensary technicians. Is that true?

15 A No.

16 Q I thought you said yesterday they
17 decided the dose, which product to use, the
18 amount. Didn't you testify to that yesterday?

19 A Not entirely.

20 Q Well, partially. What did you testify
21 to?

22 A Yesterday, I testified that a physician
23 or a healthcare provider, such as myself -- I'll
24 speak in the first person -- has a frank
25 discussion with the patient on the

1 aforementioned aspects of drug administration,
2 as you described. I leave it to the patient to
3 further discuss aspects of purchase and what I
4 consider form factor with the dispensary
5 technician.

6 Q Now, what does that involve? What
7 decisions does the dispensary technician have to
8 make with the patient?

9 A Well, as I just said, let me
10 recapitulate. The patient then presents
11 themselves to the dispensary, discusses with the
12 dispensary technician pretty much the
13 conversation that I had with the patient, and
14 the dispensary technician then discusses the
15 various options in terms of that drug
16 administration.

17 Q Okay. In looking at dosing, deciding a
18 dose, do you look at the frequency of
19 administration?

20 A No.

21 Q Do you look at the duration of
22 administration?

23 A I'm sorry. I don't quite understand
24 the question. That -- that the duration of
25 administration is an oxymoron.

1 Q It's an oxymoron? Okay. Well, let me
2 try to explain it. "Duration" means length of
3 time. "Administration" means doing something.
4 So what I mean is the length of time to do
5 something.

6 A Well, duration of administration, as
7 you describe it to me, means how long it takes
8 for a patient to ingest a dose. For example, if
9 a patient is using an inhalational method of
10 administration, the duration of administration
11 in your descriptor means how long it takes for
12 the patient to take the inhalational agent up to
13 his or her lips and inhale. I think -- I don't
14 want to think. Please continue. I'm sorry.

15 Q Have you ever determined the proper
16 duration of administration for smoking a joint?

17 A Neither personally nor professionally,
18 no.

19 Q Okay. And is there such a thing as
20 duration of administration in taking a
21 breathalyzer? Are you familiar with that?

22 A I -- I certainly do not understand your
23 question, sir.

24 Q Oh. Okay. And what about time of
25 administration? Should that be part of dosing?

1 A No.

2 Q So time of administration, as I
3 understand it, means do you take it in the
4 morning, the evening, after meals, all night
5 long? You don't tell people when they should
6 take it?

7 A Well, time specifically refers to a
8 mark on a clock. I -- I believe, if I -- if I
9 could just expound a little bit, I think what
10 you're getting at, and forgive me for trying to
11 correct you, is frequency of administration.

12 Drugs are dictated by prescription in
13 terms of once a day, twice a day, three times a
14 day, following meals. I mean, I don't really
15 know each particular patient's habits. If --
16 if, for example, he works at night and -- and
17 sleeps during the day, I wouldn't say have this
18 at breakfast following meals.

19 Q Do you ask patients those questions to
20 verify the proper time of administration?

21 MS. RACE: Your Honor, I just would
22 like to object for -- I think that there's some
23 vagueness here because I don't think we have
24 fully established what drug he's talking about.

25 MR. EVANS: I'm talking about all

1 drugs, anything approved by the FDA or medical
2 marijuana. I mean, we're now -- the doctor said
3 that we are now in the marijuana space. Okay?
4 So everything that I'm talking about deals with
5 marijuana and -- and prescription drugs because
6 I'm looking at the dosing requirements for a
7 prescription drug.

8 JUDGE JULIUS: Okay. So just to be --

9 MR. EVANS: And you seem to want to be
10 -- have now --

11 JUDGE JULIUS: Counsel, I want to make
12 sure I understand your response to the
13 objection.

14 MR. EVANS: Yes.

15 JUDGE JULIUS: Is it you're talking
16 about any --

17 MR. EVANS: Yeah. Right now I am.

18 JUDGE JULIUS: -- medication?

19 MR. EVANS: Right now I am.

20 JUDGE JULIUS: Okay.

21 MR. EVANS: Okay.

22 JUDGE JULIUS: So point taken, but
23 we've now got clarity of the scope of the
24 question, so if you need to have it repeated,
25 please let us know.

1 BY MR. EVANS:

2 Q Okay. These questions will be about --
3 about, in quotes, "medical marijuana." Do you
4 discuss with patients the time of administration
5 of medical marijuana?

6 A Not necessarily.

7 Q If the person was a truck driver, would
8 you discuss time of administration with a truck
9 driver?

10 A Yes.

11 Q Okay. So is it true that then the --
12 the person's profession or activity could affect
13 your guidance on time of administration?

14 A Most assuredly.

15 Q Okay. And do you make those inquiries
16 with every patient that you refer to marijuana?

17 A I do in the context of the clinical
18 setting, and allow me an example. Particularly
19 in pain medicine, we as physicians frequently
20 allow the patient a good deal of leeway, and we
21 use the -- the expression PRN, which means as
22 needed.

23 And in the pain management setting,
24 it's very useful to have a PRN order, in which
25 case -- pain in human beings, depending upon the

1 nature of the pain, is episodic. It can be
2 chronic, but by "episodic" I mean, for example,
3 chronic low back pain, which constitutes a huge
4 portion of my practice, or did.

5 If the patient wakes up in the morning,
6 their back may be in agony, and so that
7 individual would take -- and let's just talk
8 about marijuana since that's why we're here. He
9 might administer marijuana in a larger dose
10 based on his clinical framework at that time.

11 And if in the afternoon that patient is
12 very comfortable and he's sitting watching a
13 ballgame and -- and not exacerbating his back
14 pain, he may not need it. So, in that context,
15 it doesn't serve the purpose to instruct the
16 patient, "You must take this particular agent
17 every eight hours around the clock." That's
18 what pain management is about.

19 Now, in fixed doses, such as opioids,
20 where we're dealing with a -- a -- what we call
21 a steady state in the bloodstream, a patient
22 needs to take their drugs, just like
23 antihypertensive drugs or -- or anti-cholesterol
24 agents. The -- the drug level needs to be
25 consistent in the bloodstream for it to work.

1 But that's just not how it works and operates in
2 general pain medicine.

3 Q Thank you, Doctor. Doctor, I think I'd
4 better start asking you yes or no questions. I
5 have limited time. So do you, in dosing, yes or
6 no, look at -- consider the time of onset of
7 symptoms?

8 A Yes.

9 Q Yes or no, do you consider the route or
10 method of administration of marijuana?

11 A Yes.

12 Q For marijuana, do you -- are you
13 concerned with the effectiveness of marijuana
14 for a condition?

15 A Absolutely.

16 Q Okay. Do you consider the impact of
17 marijuana on other preexisting conditions?

18 A I -- I don't want to put words in your
19 mouth, but if you mean do I consider the results
20 of marijuana therapy --

21 Q No. The impact of marijuana on
22 preexisting conditions. "Preexisting
23 conditions" means a condition that the patient
24 has that is separate from the one that they're
25 coming to you with --

1 A Oh. Oh, okay.

2 Q -- that preexists.

3 A Yeah. I -- I see your point now. Yes,
4 I do.

5 Q Okay. Good. And do you consider safe
6 alternatives to marijuana use for a condition?

7 A Of course.

8 Q Okay. Doctor, when you recommend
9 marijuana to a patient, do you look at every
10 single prescription medication they happen to be
11 taking at that time?

12 A Yes.

13 Q Okay. Are you aware that marijuana
14 reacts with dozens of prescription medications
15 in a negative way? Are you aware of that?

16 A That question has to be parsed out.
17 It's not a yes or no question. Answer. I'm
18 sorry.

19 Q Okay. Are there prescription
20 medications that may interact with marijuana in
21 a negative way? Is that more clear?

22 A It -- it's more clear, but I wouldn't
23 use the word "negative." All drugs have
24 interactions. There's not one drug that's FDA
25 approved, for example, that does not. Negative

1 is not really the connotation. It's that there
2 are known interactions that one needs to be
3 counseled on.

4 Q Okay. Could any of those -- looking at
5 a patient's prescription medications, is there
6 any circumstance where you would say, "Do not
7 use marijuana because it does not do well with
8 that prescription medication"?

9 A Yes.

10 Q Okay. You -- you work for a Veterans
11 Administration advocacy or veterans and
12 marijuana advocacy organization. Is that
13 correct?

14 A I have an affiliation with one. I
15 don't work for them.

16 Q You have an affiliation. You listed it
17 on your CV.

18 A Yes.

19 Q And you're a veteran.

20 A Yes, sir.

21 Q Okay. Do you know the position of the
22 Veterans Administration regarding the use of
23 cannabis?

24 A I believe I do.

25 Q What is it?

1 A Veterans Administration physicians and
2 other healthcare providers have only until
3 recently not been authorized to discuss cannabis
4 use with their patients, but that has changed in
5 the last, I believe -- I -- in my -- in my -- if
6 I can recollect, until recently.

7 Q Okay.

8 A The veterans -- the veterans hospital
9 will not discharge or prevent a veteran from
10 seeking veterans care and benefits if they are a
11 registered user of marijuana in -- and I'll --
12 I'll just speak in terms of New Hampshire.

13 Q Okay. Now, does that mean that the
14 Veterans administration doctors can use medical
15 marijuana to treat PTSD, for example?

16 A I -- I really apologize. I don't
17 understand the question, sir.

18 Q Okay. Let me see if you agree with
19 this statement then. "However, research to date
20 does not support cannabis as an effective PTSD
21 treatment, and some studies suggest cannabis can
22 be harmful, particularly when used for long
23 periods of time.

24 "Given these concerns, the Veterans
25 Administration of the Department of Defense

1 Clinical Practice Guidelines for PTSD recommend
2 against the use of cannabis for treatment of
3 PTSD." Do you know where that came from?

4 MS. RACE: Your -- Your Honor, just an
5 -- an objection for the record. This witness
6 has been proffered as an expert in pain
7 management. It appears as if counsel is trying
8 to obtain a medical opinion based on a mental
9 health therapy for PTSD. To the extent that the
10 witness is being asked a fact question, we don't
11 object, but to the extent that he is -- that
12 this witness is being asked to provide a medical
13 opinion on a matter that is outside the scope of
14 his expert designation, we object.

15 JUDGE JULIUS: Do you -- are you asking
16 him as an expert or as a factual question, Mr.
17 Evans?

18 MR. EVANS: Well, I'm -- I'm -- first
19 of all, they went to some length to talk about
20 his experience as a Navy doctor. Okay. He is
21 affiliated with an organization, that I assume
22 he understands what they are about, that
23 advocates cannabis for PTSD. He should know
24 that.

25 So this is on his CV. He testified

1 that he is talking about the marijuana space.
2 Okay? There was no objection at the time when
3 he said that. So I think anything to do with
4 marijuana, particularly veterans -- and he seems
5 to advocate for PTSD treatment for that -- I
6 think is relevant.

7 And this was downloaded this morning
8 from the Veterans Administration. That's a
9 quote from the Veterans Administration National
10 Center for PTSD, cannabis use and PTSD among
11 veterans.

12 JUDGE JULIUS: Understood. I
13 understand the objection. I'll allow him to
14 answer the question as a fact witness, as a
15 practitioner, but it will not be an expert
16 opinion on the issue of pain management or
17 anesthesiology.

18 MR. EVANS: Okay. Very quickly --

19 JUDGE JULIUS: Thank you.

20 BY MR. EVANS:

21 Q Doctor, what I read, were you aware
22 that that was the -- the position of the PTSD --
23 National Center for PTSD and the Veterans
24 Administration? Were you aware of that?

25 A Yes. And -- and let me just add that

1 the National Center for PTSD in the Veterans
2 Administration is approximately 300 yards from
3 my office in White River Junction, Vermont, and
4 I happen to know personally the psychiatrist who
5 is, you know, in charge of that program. And so
6 I have a relatively strong foundation in the
7 understanding of both the mechanism of PTSD, as
8 well as the treatment of cannabinoids for PTSD.

9 However, I today am presenting myself
10 as a domain expert in pain management. I'm not
11 a psychiatrist, and I am aware of the VA's
12 position.

13 Q Okay. Doctor, that was the question
14 that I asked you. Are you aware of this
15 position? That's yes or no. Are you aware?

16 A I -- I just said --

17 Q Are you -- are you aware that that is
18 their position?

19 A Let me repeat what I just said
20 10 seconds ago. I am aware of their position.

21 Q Could you please answer yes or no?
22 It's a very simple question.

23 MS. RACE: Your Honor, I object.

24 BY MR. EVANS:

25 Q I read something to you. Are you aware

1 of this? That's all I need to know.

2 MS. RACE: Your Honor?

3 JUDGE JULIUS: Go -- yeah. Just go
4 ahead and answer the question.

5 THE WITNESS: Yes.

6 JUDGE JULIUS: Thank you.

7 MR. EVANS: Okay. Thank you.

8 MS. RACE: If I can just, on the
9 record, Your Honor, just indicate that I think
10 we're moving into a badgering territory, and so
11 I -- I want to make sure that the Government's
12 objection is on the record that this does appear
13 to be a badgering of the witness. I appreciate
14 and I understand and respect, Your Honor's
15 position.

16 MR. EVANS: Your Honor, when a witness
17 dodges questions, claims confusion, it is the
18 duty of the counsel to zealously pursue getting
19 an answer. I was never impolite to the doctor.
20 I was professional. And he was going into a
21 narrative, obviously, to waste time, and I would
22 not call that badgering. I would call that
23 professionally seeking an answer to a question.

24 JUDGE JULIUS: So, Counsel, what I will
25 say to that is I agree that you were not

1 inconsiderate, rude in any way. You were very
2 professional. I would ask that when questions
3 are asked, allow the respondent to -- or the
4 witness to answer the question.

5 I would not share the view that -- or
6 assume that his statement -- that he did not
7 understand the question as a way to dodge it, as
8 you characterize. The Court itself instructs
9 all witnesses to ask for clarification or state
10 that they do not understand questions --

11 MR. EVANS: That's very fair.

12 JUDGE JULIUS: -- before answering
13 them, because we want to make sure that they're
14 not -- if there's an issue of understanding the
15 question, we want to make sure that it's
16 clarified.

17 MR. EVANS: Your Honor, you just
18 recited the advice I give to all my clients.

19 JUDGE JULIUS: So --

20 MR. EVANS: Okay.

21 JUDGE JULIUS: Great minds think alike,
22 sir.

23 MR. EVANS: Thank you. Thank you, Your
24 Honor.

25 JUDGE JULIUS: So point well taken.

1 Please continue, Mr. Evans.

2 BY MR. EVANS:

3 Q Okay. Doctor, in your CV, you have
4 written several articles about obstetric
5 surgery. Is that correct?

6 A Yes.

7 Q And did you write an article on infant
8 surgery?

9 A Not surgery per se, but the anesthesia
10 associated thereof --

11 Q Okay.

12 A -- to be specific.

13 Q All right. Good. Would you recommend
14 any form of marijuana for a pregnant woman?

15 MS. RACE: Your Honor, note an
16 objection as well, but a medical opinion outside
17 of pain management. To the extent that this is
18 limited to pain management therapies, no
19 objection, but to the extent that this is broad-
20 ranging, which is what the question suggested,
21 we just want to note the objection.

22 JUDGE JULIUS: Could you repeat the
23 question so we can --

24 BY MR. EVANS:

25 Q Okay. You've written articles about

1 anesthesia regarding pregnant women, correct?

2 A You'll have to show me the articles. I
3 don't believe I have. Did I write an article
4 about women in pregnancy?

5 Q You wrote an article about --

6 JUDGE JULIUS: Yeah. Just make --
7 wait. Wait until you get back to the
8 microphone, Mr. Evans. It's not picking you up.

9 MR. EVANS: Oh, I'm sorry.

10 BY MR. EVANS:

11 Q Did I give you your CV?

12 THE WITNESS: If it's possible -- I --
13 I'm sorry. Judge, could I see my CV again?

14 JUDGE JULIUS: I --

15 THE WITNESS: Because I have a lot of
16 publications.

17 JUDGE JULIUS: I believe that's what
18 Mr. Evans is looking for.

19 MR. EVANS: Oh. Oh, yes. I have it
20 right in front of me here. Hold on.

21 JUDGE JULIUS: Mr. Evans, do you have
22 any objection to the Court providing a copy of
23 his CV for him to look at, or do you want to --

24 MR. EVANS: No, not at all.

25 JUDGE JULIUS: Okay.

1 MR. EVANS: I -- that's fine.

2 JUDGE JULIUS: We'll provide that to
3 you, sir.

4 THE WITNESS: Thank you, sir.

5 JUDGE JULIUS: And that was
6 Government's Exhibit 6.

7 MS. RACE: Yes, Your Honor. Thank you.

8 THE WITNESS: Thanks.

9 BY MR. EVANS:

10 Q Okay. Doctor, go to page 6 of your CV.
11 Look at case reports. Did you write an article
12 on fetal surgery and general anesthesia?

13 A Yes, sir.

14 Q Okay. Go to the next page, Item
15 Number 18. Did you write a paper on pain relief
16 and anesthesia in obstetrics?

17 A Sir, that -- that -- it was the name of
18 the journal. That's not the title of the
19 article. The title of the article is
20 "Anesthesia for Fetal Surgery." That article
21 had to do with the mechanism of pharmacology
22 and --

23 Q That's fine.

24 A Okay.

25 MR. EVANS: I understand, Your Honor.

1 I mean, I understand.

2 BY MR. EVANS:

3 Q All right. Did you write an article on
4 obstetric anesthesia?

5 A Which -- which number are you referring
6 to?

7 Q This would be Number 19, "Education on
8 Obstetric Anesthesia." Did you write that?

9 A Well, yes. That article had to do with
10 how one teaches --

11 Q I'm not asking for --

12 A -- anesthesia.

13 Q Sir? Sir, did you write it, yes or no?

14 A Yes, I wrote that article, sir.

15 Q Okay. On 20, did you write an article
16 called "Organization of an Obstetric Anesthesia
17 Service"?

18 A Yes.

19 Q Okay. On 21, did you write an article
20 on "Anesthetic Management of the Pregnant
21 Surgical Patient"?

22 A Yes.

23 Q Can you briefly describe, what is
24 "anesthetic management"?

25 A Without trying to be coy, it's the

1 management of anesthesia. It's the conduct of
2 both general, regional, and -- and
3 interventional anesthetic techniques to render a
4 patient senseless during surgery or procedures.

5 Q Okay. Now, could that be -- that
6 management of anesthesia in a pregnant patient
7 be done before the patient delivers the baby?
8 And by "before," I mean not an hour before, but
9 like a month or -- or weeks before. Could that
10 be something that you'd have to manage
11 anesthesia on a pregnant woman, say she needed
12 surgery for something else other than the
13 pregnancy?

14 A Excuse me. And I'm not trying to be
15 evasive. I have no idea what the question is.

16 Q We've got a pregnant woman, nine
17 months. First month, nine months. Okay. Nine
18 months is the delivery. Two months, she needs
19 surgery for appendicitis. She's pregnant one or
20 two months. What about that instance? That's
21 before delivery, and she's pregnant. Is -- does
22 that article -- does your -- does that article
23 deal with that kind of a situation?

24 A Yes.

25 Q Okay. Now, what would you consider in

1 that situation where the woman is pregnant, she
2 needs surgery, it's unconnected to the delivery,
3 does that have anything to do with cannabis?

4 A No.

5 Q Okay. So you would not recommend
6 cannabis or marijuana for a pregnant woman, yes
7 or no?

8 A No.

9 Q Why not?

10 MS. RACE: Your Honor, just for the --
11 the record, my objection, which I would like to
12 -- which I would -- am lodging right now, I
13 think the question is vague. Are we talking
14 about in surgery? Are we talking about after
15 surgery? The -- the fact pattern was a surgical
16 intervention, and now we're just talking
17 generally about pregnant women. If we can just
18 clarify that for the record, please, Your Honor.

19 MR. EVANS: I think I've been very
20 clear. Okay?

21 JUDGE JULIUS: My understanding of the
22 question --

23 MR. EVANS: First month, nine month,
24 two month, surgery.

25 JUDGE JULIUS: My understanding of the

1 question was, would you -- would you recommend
2 marijuana for a pregnant woman at any time?

3 MR. EVANS: For a pregnant woman -- I
4 -- okay. I -- at any time during the pregnancy.

5 JUDGE JULIUS: Just to make the scope
6 of the question clear.

7 MR. EVANS: Make that more clear.

8 JUDGE JULIUS: Thank you.

9 MR. EVANS: Okay.

10 THE WITNESS: Okay. I -- I just was
11 thrown off a little because we were talking
12 about surgery, and now we're talking about the
13 use of --

14 Q I'm sorry. Okay.

15 A -- marijuana in a pregnant individual.

16 Q Would you recommend marijuana for a
17 woman who is pregnant?

18 A I would not.

19 Q Why not?

20 A I'm not convinced that adequate
21 long-term safety studies have been done in
22 pregnant women for thousands of drugs. And as
23 such, one, to be rational and conservative,
24 attempts to weigh the benefits of the potential
25 drug against the risks of an unborn child -- an

1 unborn fetus.

2 Q Good. Are you familiar with the
3 position of the American College of
4 Obstetricians and Gynecologists on this issue?

5 A I believe I am.

6 Q Okay. Okay. If you believe you are,
7 do you understand that they have recommended
8 that under no circumstances is there a reason
9 for medical use of marijuana during a pregnancy?
10 Are you aware that they made that statement?

11 A I'm -- I'm not aware that they made
12 that statement, but I concur with it completely.

13 MR. EVANS: Very good. Okay.

14 Your Honor, I'd like to take the
15 opportunity to present this position to the DEA
16 because they have chosen not to accept any
17 information past 2024. This is a conclusive
18 study done in the end of 2025 --

19 JUDGE JULIUS: Okay.

20 MR. EVANS: -- that they should
21 consider. And I'm -- which is -- I'm not
22 putting in as ~~evidence a witness~~, but I want on
23 the record that they're aware of it.

24 JUDGE JULIUS: So you're just handing
25 this document to Government counsel? You're not

1 moving for its admission? Do I understand
2 correctly, Counsel?

3 MR. EVANS: Excuse me, Your Honor?

4 JUDGE JULIUS: You're just handing that
5 to Government counsel.

6 MR. EVANS: I just want on the
7 record --

8 JUDGE JULIUS: You're not offering it
9 as an exhibit?

10 MR. EVANS: -- that they can no longer
11 say that they don't know about this; they got
12 it.

13 JUDGE JULIUS: Okay. Thank you.

14 BY MR. EVANS:

15 Q Okay. I'm going to read some
16 statements to you. And this has to do with
17 dispensary staff, okay? And these statements
18 are from studies. I can make them all available
19 to you, and I'm just interested in your -- what
20 you think about this statement.

21 "Moreover, harms associated with
22 marijuana, such as addictiveness, were not
23 acknowledged by dispensary staff." Does your
24 dispensary staff acknowledge addictiveness of
25 marijuana?

1 A Yes.

2 Q Okay. "Dispensary staff are providing
3 medical advice to patients that may be harmful
4 to patients." Is that happening? Are you aware
5 of that?

6 A Am I aware that dispensary staff in --
7 in the context of New Hampshire are doing that?
8 Is that your question?

9 Q Sure.

10 A There were two questions in that
11 compound ask --

12 Q Well, are you aware -- is your
13 dispensary staff, when they discuss dosage, when
14 they discuss Dante's Inferno or Girl Scout
15 cookies with the patients, are they saying, "Oh,
16 by the way, this could be harmful"? Are they
17 discussing any of the harms of marijuana? I
18 mean, maybe the patient would say, "Oh. Hmm. I
19 don't think I want to eat Dante's Inferno."

20 A In the state of New Hampshire, the
21 alternative treatment centers include a pamphlet
22 which was written by the Therapeutic Cannabis
23 Board, which I sit, discussing both the risks
24 and potential hazards of using the product, and
25 that point is underscored by all of the

1 dispensary staff.

2 Q Very good. I'm glad they do that.
3 Doctor, are you aware that this is pretty rare
4 among dispensaries around the country? Are you
5 aware of that?

6 A I can't comment. I -- I don't know.

7 Q Okay. And when is the patient supposed
8 to be given this warning?

9 A Well, as I said, at the point of sale
10 when the patient receives a product, in the
11 dispensaries with which I have familiarity in
12 the state of -- of, excuse me, of New Hampshire,
13 they receive that pamphlet at the conclusion of
14 the transaction, and, as well, it's underscored
15 by the well-trained staff.

16 Q Okay. Is the patient given a chance to
17 read this and then to decide that they don't
18 want Dante's Inferno or Girl Scout cookies or
19 blueberry pie or whatever else they could get?

20 A I don't have that granular a view on
21 what one patient or another reacts and -- and
22 refutes guidance --

23 Q Doctor --

24 A -- that the state mandates.

25 Q Doctor, is informed consent an

1 important thing between a doctor and a patient?

2 A Of course.

3 Q Are you ensuring that your dispensaries
4 get informed consent for the patient before they
5 purchase the products?

6 MS. RACE: Objection. We've allowed
7 the -- your dispensary's reference throughout.
8 The testimony early on was that he's associated;
9 he doesn't own them; he doesn't control them; he
10 doesn't direct them --

11 MR. EVANS: Okay.

12 MS. RACE: -- in the way that counsel
13 -- so I just --

14 MR. EVANS: I'll withdraw the question.

15 MS. RACE: -- let it go, but --

16 BY MR. EVANS:

17 Q Are the dispensaries that you're
18 associated with -- you're an advisor to at least
19 one dispensary, right? The Tea Room?

20 A Yes. That's in Vermont.

21 Q Yeah. And you are a medical advisor to
22 another cannabis company?

23 A Yes. Granite -- Granite Leaf in New
24 Hampshire. I'm on the board.

25 Q Well, are you ensuring -- I mean,

1 you're a doctor. Are you ensuring that they get
2 informed consent from the patients?

3 A As I understand informed consent, that
4 is a process between a physician and a
5 healthcare provider and a patient prior to any
6 procedure. That context doesn't apply to a --
7 an individual who's purchasing marijuana from a
8 dispensary. I've never heard of informed
9 consent in that context.

10 Q Well, the difference here is that you
11 are not doing informed consent because you're
12 leaving dosing and a lot of issues up to the
13 dispensary technician, okay? You turn it over
14 to them. You let untrained, uncertified people
15 make these decisions that the -- the patient has
16 a right to be informed about beforehand. And
17 you are a medical advisor; you are on the board.
18 Are you making sure that the patients get
19 informed consent?

20 Let me ask another question. Can
21 marijuana be harmful to somebody?

22 A I'm quite confused by that question
23 because it was about five questions.

24 Q I just asked one question. Can
25 marijuana be harmful to somebody?

1 A Yes.

2 Q Okay. Are you making sure the
3 dispensaries that you advise, you're involved
4 with or whatever, are you making sure that they
5 get informed consent to taking a medication that
6 may be harmful?

7 A As I said, sir, about three minutes
8 ago, informed consent is a discussion between a
9 healthcare provider and a patient. It has no
10 bearing on any conversation between a dispensary
11 technician and a patient.

12 Q So are -- are you saying there should
13 -- that it's okay that there's no conversation?
14 I mean, you said -- you -- you're absolving
15 yourself of the responsibility. You're
16 absolving the technicians of their
17 responsibility. Who's responsible for getting
18 informed consent?

19 MS. RACE: I object. This is
20 argumentative.

21 JUDGE JULIUS: It is venturing into
22 argumentative territory. I also see that the
23 time has expired.

24 MR. EVANS: Very good.

25 JUDGE JULIUS: But thank you very much,

1 Mr. Evans.

2 MR. EVANS: Thank you, Your Honor. I
3 appreciate it.

4 JUDGE JULIUS: And again, I do, again,
5 appreciate your flexibility for bifurcating your
6 -- your cross-examination.

7 MR. EVANS: Your Honor, I have -- I've
8 been so looking forward to this. This is one of
9 the highlights of my 52 years of practicing law,
10 appearing before you and having the honor to be
11 an attorney in this case, so I -- I'm grateful
12 throughout this whole process. Thank you.

13 JUDGE JULIUS: Thank you, sir.

14 So the next item on our schedule would
15 be an opportunity for the Texas Bureau of
16 Investigation to conduct a cross-examination.
17 I'm sorry?

18 ~~PARTICIPANT~~ THE LAW CLERK: Tennessee.

19 JUDGE JULIUS: I'm so sorry. What did
20 I say?

21 ~~PARTICIPANT~~ THE LAW CLERK: Texas.

22 JUDGE JULIUS: I'm so sorry. Tennessee
23 Bureau of Investigation. That was a misspeak on
24 my part.

25 I understand that that interested party

1 is not here today, so we would move on to the
2 next item on the schedule, which would be DUID
3 Victim Voices?

4 MR. McNICHOLS: If it pleases the
5 Court, Your Honor, we've arranged among
6 ourselves to take things a little out of order.
7 I was going to do my examination on behalf of
8 the opposed states, and then if I need
9 additional time on behalf of Smart Approaches,
10 after which Mr. Kenneally, on behalf of his
11 clients, may do so.

12 JUDGE JULIUS: You anticipated my
13 thinking on this one. I noticed when we put the
14 schedule together, we didn't realize who would
15 be speaking on behalf of the various things, and
16 we realized that they were alternating. I have
17 no issue with that.

18 Government, any objection?

19 MS. RACE: No objection.

20 JUDGE JULIUS: Okay. That's perfectly
21 fine. Thank you so much for taking it among
22 yourselves to solve an issue on the Court's
23 behalf. Very -- really appreciate that.

24 MR. McNICHOLS: And if it's suitable to
25 the Court, I'll start now, and we'll have our

1 comfort break at 10:30 as planned?

2 JUDGE JULIUS: Perfect.

3 MR. McNICHOLS: All right.

4 JUDGE JULIUS: Just let us know which
5 party you're going to start on behalf of and --

6 MR. McNICHOLS: On behalf of the
7 opposed states first

8 JUDGE JULIUS: Opposed states first?

9 MR. McNICHOLS: Yeah.

10 JUDGE JULIUS: Okay. And whenever
11 you're ready, sir.

12 MR. McNICHOLS: Of course.

13 CROSS-EXAMINATION

14 BY MR. McNICHOLS:

15 Q Good morning, Dr. Burchman.

16 A Good morning, sir.

17 Q When in 2019 did you retire from the
18 practice of medicine, sir?

19 A Well, I -- I haven't retired from the
20 practice of medicine, just clinical medicine.
21 I'm fairly heavily engaged in the medical
22 school.

23 Q When in 2019 did you stop seeing
24 patients?

25 A April 30th, 2019, at 5:50 p.m.

1 Q So it's fair to say then, sir, that as
2 of today, you have not seen a patient in 7 years
3 and 2 months and 12 hours?

4 A I have not delivered clinical
5 anesthesia care or clinical pain management care
6 in that time, but I have both seen, examined --
7 I'm a -- I'm a licensed physician. I've seen,
8 examined, and opined on patients either by
9 referral or -- or in discussion with other
10 healthcare workers.

11 Q Have you delivered anesthesia to anyone
12 in seven years and two months?

13 A I probably have.

14 Q Have you written a prescription for
15 pain management to anyone in the last seven
16 years?

17 A I don't believe so.

18 Q Sir, since October of 2019, have you
19 been employed by the cannabis industry?

20 A October? Yes.

21 Q And in your role with the cannabis
22 industry, have you served as the medical advisor
23 for the American Trade Association of Cannabis
24 and Hemp?

25 A I -- I had that designation, yes.

1 Q And that is the industry trade group
2 that pursues the interests of the cannabis
3 industry in the United States, correct?

4 A I don't know, actually, I'm sorry to
5 say.

6 Q Did you have a paid position with the
7 American Trade Association of Cannabis and Hemp?

8 A No.

9 Q On your CV, it says that you were the
10 medical advisor for the American Trade
11 Association of Cannabis and Hemp. Is that
12 correct?

13 A Yes.

14 Q And as the medical advisor of this
15 organization, sir, is it your testimony today
16 that you don't know what they do?

17 A Not entirely.

18 Q Since -- or -- sorry, withdrawn.

19 Between 2019 and 2024, were you the
20 chief medical officer for an entity known as
21 Acreage Holdings?

22 A Can you repeat the dates? I'm sorry.

23 Q At any time in your life, sir, have you
24 been the chief medical officer for a company
25 called Acreage Holdings?

1 A Yes.

2 Q And Acreage Holdings is a cannabis
3 supplier, correct?

4 A Yes.

5 Q It's a publicly traded company,
6 correct?

7 A I believe so.

8 Q Okay. At one point it had operations
9 in 12 states, correct?

10 A Correct.

11 Q It had more than 1,000 employees,
12 correct?

13 A Correct.

14 Q It makes gummies, correct?

15 A Yes.

16 Q It makes topical cannabis products,
17 correct?

18 A Correct.

19 Q It makes tinctures, correct?

20 A Correct.

21 Q It makes vapes, correct?

22 A Yes.

23 Q It makes full-flower botanical cannabis
24 products, correct?

25 A Well, it -- the -- the botanical

1 products are made by plants, but they process
2 it, if that's what you're implying.

3 Q Okay. We understand cannabis comes out
4 of the earth, sir, correct.

5 Now, and Acreage Holdings was bought by
6 a company called Canopy. Is that correct?

7 A I believe so.

8 Q For \$3.4 billion, correct?

9 A That I don't know.

10 Q Was it -- and Canopy, you know, sir, is
11 the largest cannabis company in the world,
12 correct?

13 A Is that a question or a statement?

14 Q When I say "correct," that's a
15 question.

16 A Okay. Ask -- could you repeat the
17 question, please?

18 Q Is Canopy the purchaser of chief --
19 excuse me. Is Canopy, which purchased Acreage
20 Holdings, the largest cannabis company in the
21 world?

22 A I don't know.

23 Q Did Canopy purchase Acreage Holdings
24 before or after you were working there?

25 A I don't know.

1 Q Do you currently have equity in Acreage
2 Holdings?

3 A I don't believe so. I hold a small
4 amount of stock in Canopy that was, I believe,
5 converted from Acreage stock, but it's -- it's
6 relatively worthless. I -- I don't -- but in
7 answer to your question, no, I don't believe I
8 do.

9 Q Okay. Well, how much, in terms of
10 dollar value, do you own today in Canopy, sir?

11 A Probably \$600.

12 Q Your resume also says that you are the
13 chief medical officer of a company called Texas
14 Patient Access, LLC. Is that correct?

15 A Yes.

16 Q And that's also a cannabis dispensary.
17 Is it not?

18 A No.

19 Q What does it do?

20 A I believe it is an LLC that was
21 competing for a Texas medical cannabis
22 dispensary license, but I don't believe there is
23 any business. I was -- so -- so no dispensary
24 exists, sir.

25 Q Okay. So it's not a dispensary, but if

1 the business had taken off, it would have been
2 one, correct, sir?

3 A I can't comment. I -- I have no -- I
4 have no idea.

5 Q Did Texas Patient Access contemplate
6 any form of business other than operating a
7 cannabis dispensary, sir?

8 A I have no knowledge of that. I don't
9 -- I know very little about the Texas entity
10 ~~with~~ which you are describing. They approached
11 me and asked me if I'd be interested in being a
12 medical director of a potential entity if -- if
13 the business ever flew, and I said, "Sure, I can
14 put my name on it."

15 And -- but from what I understand,
16 everything is basically a -- a paper
17 designation. There is no bricks-and-mortar
18 business, and that's the extent of my knowledge
19 in that -- in that entity.

20 Q When we were discussing the Tea House
21 yesterday, you mentioned that in your
22 discussions with the owner-operator you helped
23 her get financing. Do you recall that
24 testimony?

25 A Yes.

1 Q And you heard the Government say a
2 moment ago that you don't own that dispensary.
3 Is that actually correct?

4 A Yes.

5 Q Do they owe you any money?

6 A No.

7 Q Now, I'm right, sir, that you were in
8 the Navy for eight years; and, therefore, you
9 don't get any military retirement. Is that
10 correct?

11 A It was 13 years, and that is correct.

12 Q Okay. And are you still teaching on
13 the faculty at Dartmouth Medical School?

14 A Yes.

15 Q Are you teaching courses?

16 A No.

17 Q When was the last time you taught a
18 course at Dartmouth Medical School?

19 A As a clinician employed by Dartmouth at
20 Dartmouth Hitchcock Medical Center, you know, I
21 was involved in clinical anesthesia and pain
22 management. We -- we don't teach courses. We
23 take care of patients, but we give lectures to
24 residents and medical students. We don't go to
25 the medical school and teach courses on

1 pharmacology and pharmacodynamics, et cetera.

2 So it's -- it's really a continuum of
3 experiential learning intraoperatively and --
4 and at the pain clinic. So to say I teach a
5 course is kind of a misnomer.

6 Q Do you get paid any compensation by the
7 medical school at Dartmouth?

8 A Unfortunately, no.

9 Q What percentage of your income since
10 2019 has come from your roles in the cannabis
11 industry?

12 A Can you rephrase the question? I'm --
13 I'm not exactly comprehending what you're
14 saying.

15 Q What portion of your income since 2019
16 has come from the cannabis industry?

17 A Maybe 5 percent.

18 Q What is your main source of income
19 since 2019?

20 A My retirement IRA from 35 years of
21 practicing clinical medicine. I draw that down
22 probably every -- every three months.

23 Q Since 2019, when you've been working
24 for Acreage Holdings, is it fair to say, sir,
25 that you have been an advocate for expanding

1 marijuana as a form of therapy?

2 A I wouldn't say "advocate." I'm a
3 supporter of non-opioid analgesia, and cannabis
4 is one of those components.

5 Q And while you were employed at Acreage
6 Holdings, you appeared on a podcast called Let's
7 Be Blunt. Is that correct?

8 A Yes. That was with Montel Williams. I
9 remember vividly.

10 Q So do I. And you also appeared on a
11 podcast hosted by the Mary Jane Society. Is
12 that correct?

13 A Yes.

14 Q Okay. And you've also -- and in both
15 of those instances, both of those podcasts, you
16 talked about potential therapeutic uses of
17 cannabis, correct?

18 A I don't specifically recall the
19 conversations, but it certainly seems
20 reasonable, since that's kind of my lane.

21 Q And I know we're in the DEA here, but
22 in case there are any naivetés here in this
23 building, Let's Be Blunt and the Mary Jane
24 Society both refer to cannabis. Correct, sir?

25 A Oh, yes, sir.

1 Q Okay. And you've also written about a
2 half a dozen articles on LinkedIn talking about
3 cannabis and its potential therapeutic uses.

4 Correct, sir?

5 A I know I've written a number on
6 LinkedIn, but I would -- I would agree without
7 having the opportunity to look at those. I've
8 -- I -- I do a lot of writing.

9 Q And in your writings and in your
10 podcasts and in other -- your other public
11 appearances, you have suggested that cannabis
12 could be used to treat pain, correct?

13 A Yes, sir.

14 Q And PTSD, correct?

15 A Yes, sir.

16 Q And anxiety, correct?

17 A I don't recall, but it -- it sounds
18 right.

19 Q And depression, correct?

20 A Certain components of cannabis are
21 amenable to depression treatment, yes.

22 Q And nausea, correct?

23 A Absolutely.

24 Q And in the podcast with the Mary Jane
25 Society, you suggested that animal studies on

1 using cannabinoids to treat cancer by reducing
2 cell growth and limiting blood flow were very
3 promising and really solid, correct?

4 A Yeah. The preclinical studies have
5 demonstrated that certain cannabinoids are
6 potentially useful anticancer agents.

7 Q And you suggested in one of your
8 writings on LinkedIn that marijuana may be
9 useful for treating COVID-19 symptoms, correct?

10 A That's true.

11 Q And, sir, you would agree with me that
12 PTSD and anxiety and depression are all outside
13 of your specialty in pain management and
14 anesthesia, correct?

15 A Yes, sir.

16 Q And you are quite familiar as a
17 physician with the Hippocratic Oath, are you
18 not, sir?

19 A Yes.

20 Q And although I'm not a doctor, I think
21 the tenets of that are first, do no harm. Do
22 you agree that's one of the tenets?

23 A Yes, sir.

24 Q Okay. And you're aware, per the
25 examination of Mr. Evans earlier, that the

1 Veterans Health Administration has asserted that
2 using cannabis to treat PTSD can be harmful,
3 correct?

4 A I'm sorry, I don't understand the
5 question. Could you repeat it, please?

6 Q Sir, you're aware -- well, withdrawn.
7 You would agree with me, would you not,
8 that PTSD, anxiety, and depression are all
9 mental health conditions, correct?

10 A Yes. For the most part, that's true.

11 Q And you're aware, are you not, that the
12 American Psychiatric Association has stated that
13 marijuana should not be used to treat
14 psychiatric conditions because it will make them
15 worse, correct?

16 A Well, sir, my domain is not psychiatry,
17 and I have to say I'm not really familiar with
18 the statements with respect to the American --
19 is it Psychiatric Society?

20 Q The American Psychiatric Association.

21 A Okay. Thanks.

22 Q If I understand, then, you are
23 recommending marijuana to treat PTSD, anxiety,
24 and depression, which you agree are all mental
25 health conditions, without knowing the position

1 of the American Psychiatric Association as to
2 the use of marijuana for those conditions,
3 correct?

4 A I have to disagree with that statement,
5 sir.

6 Q What did I get wrong?

7 A I believe, and I'd have to review the
8 podcasts as well as the literature I've written,
9 but I think my view is -- is fairly consistent.
10 I understand and recognize the utility of
11 cannabinoids in their therapy and that I am
12 aware of studies which demonstrate efficacy in
13 those aforementioned maladies.

14 But, more importantly, I have had the
15 unique opportunity of dealing with hundreds of
16 veterans, as well as families of veterans, and
17 that real-world data, which is basically
18 post-market surveillance in -- in FDA-approved
19 drugs, is -- is as -- is ~~as~~ very much a value,
20 particularly in the realm of marijuana therapy.

21 Q That is non-responsive to my question,
22 sir. My question is whether you have advocated
23 marijuana as a treatment for PTSD, anxiety, and
24 depression, as you agreed you have, without
25 knowing the position of the American Psychiatric

1 Association on the treatment of marijuana for
2 those conditions. Correct?

3 A Correct.

4 Q And you've also advocated marijuana
5 simply for wellness, unrelated to disease,
6 correct?

7 A Well, I don't believe, sir, that that
8 answer -- that question can be answered by a yes
9 or no question.

10 Q I think it can, sir. Did you write an
11 article called "Cannabis for Health"?

12 A That was the title, but as with --

13 Q Did you write an article called
14 "Cannabis for Health"?

15 A I believe I did, sir.

16 Q In fact, you know you did, correct?

17 A I just answered that I do, sir.

18 Q And in the article "Cannabis for
19 Health," you talked about using cannabaniis (sic)
20 -- cannabis to promote mindfulness, correct?

21 A I'd have to see the article. I -- I
22 have no idea when I wrote that. Is it -- is it
23 possible that you could provide it to me?

24 Q And in the article you talked about
25 using cannabis to promote relaxation, correct?

1 A Excuse me. May I ask the -- Your Honor
2 a question? Could I see this --

3 Q No, you may not, sir. You may deal
4 with me. The question is, in your writings and
5 in your public advocacy, you've promoted the use
6 of marijuana for relaxation, correct?

7 A Without referring to the article,
8 because I do a lot of writing, I'd -- I'd need
9 to confirm that, but I will -- I will say that
10 it is consistent in my view. So yes, correct.

11 Q Okay. And you've also promoted the use
12 of cannabis for sleep hygiene, correct?

13 A Again, with all due respect, since I
14 don't have the article in front of me, it might
15 be difficult for me to accurately state that
16 that's a correct statement.

17 Q Okay. But previously, sir, when I
18 talked to you about relaxation, you said, "Well,
19 I don't know what I wrote, but that's consistent
20 with my views." It's certainly consistent with
21 your views, is it not, that marijuana can be
22 used for sleep hygiene, correct?

23 A Yes, sir.

24 Q And marijuana can also be used for
25 social connection, correct?

1 A I don't know.

2 Q And you've also said publicly that
3 marijuana can be used for physical activity and
4 recovery from exercise, correct?

5 A Yes.

6 Q Now, in the subject of "Cannabis for
7 Health," you used a word yesterday when
8 describing the intake of cannabis, which was
9 "combustion." You described -- do you remember
10 that from yesterday?

11 A Yes.

12 Q And when you're talking about
13 combustion, you're talking about the fact that
14 the most common form of taking marijuana into
15 your system is smoking, correct?

16 A If -- if you're referring to the
17 inhalational method, that's correct.

18 Q And if I say "smoking," will you know
19 that I'm referring to the inhalational method?

20 A Yes.

21 Q Now, am I right, sir, that since the
22 1960s, your profession has been against smoking,
23 at least in the context of tobacco, correct?

24 A Yes. And not -- not only my
25 profession, but many, I would say, mainstream

1 medicine.

2 Q Right. And, sir, when I say "your
3 profession," I meant doctors in general and not
4 specific to anesthesiologists, but I appreciate
5 the clarification.

6 And you agree with me, sir, that
7 marijuana smoke contains the same compounds as
8 tobacco smoke, correct?

9 A That's not correct.

10 Q Sir, you agree with me that nicotine is
11 an FDA-approved product, correct?

12 A Yes.

13 Q And it is also a central nervous system
14 stimulant, correct?

15 A Yes.

16 Q And you have never counseled anyone to
17 start smoking tobacco simply to take nicotine
18 into their system. Is that correct?

19 A Yes.

20 Q Now you joined -- at least this is from
21 your CV, sir, but tell me if I have this right
22 -- you joined the American Medical Association
23 in 1991, correct?

24 A Could I see my CV again, please, just
25 to be accurate? I'm sorry.

1 Q Well, let me ask you this, sir. Did
2 you join the American Medical Association more
3 than 30 years ago?

4 A I assume yes.

5 Q Okay. And am I right, sir, that the
6 American Medical Association does not endorse
7 medical marijuana for the treatment of anything?

8 A I believe that's true.

9 Q And the American Medical Association
10 does not endorse recreational marijuana at all,
11 correct?

12 A The American Medical Association, for
13 which approximately, I think, 15 to 20 percent
14 of physicians ascribe, does not recommend
15 marijuana use. I don't think it endorses it.

16 Q They do not endorse the concept of
17 cannabis for health, correct?

18 A I would not know.

19 Q Do you actually think they might
20 endorse the concept of cannabis for health?

21 A Well, the American Medical Association
22 is not particularly an association in which I
23 pay a lot of attention to except for its
24 journal. So I -- I -- truthfully, I don't
25 really know their position at the present time.

1 Q And you're saying you don't know their
2 position on cannabis, correct?

3 A No, I -- I agree with you, sir, that
4 it's my understanding that the AMA doesn't
5 endorse the use of cannabis. But when you said
6 cannabis -- the use of cannabis for health, I
7 was just a little confused. I'm sorry.

8 Q You're also a member of the American
9 Society of Anesthesiology, correct?

10 A I think I let that lapse, but I -- I
11 was for many years. Yes, sir.

12 Q And the American Society of
13 Anesthesiology does not endorse medical
14 marijuana, correct?

15 A I -- I frankly don't know, sir.

16 Q Do any of the professional
17 organizations or societies to which you belong
18 endorse medical marijuana?

19 A Could I see my CV again, please? I'm
20 sorry.

21 JUDGE JULIUS: Counsel, do you want him
22 to look at it or?

23 MR. McNICHOLS: No.

24 JUDGE JULIUS: Okay.

25 BY MR. McNICHOLS:

1 Q Sir, you're familiar with the
2 International Association for the Study of Pain?

3 A Yes.

4 Q And that is an association that deals
5 with your medical specialty of pain management,
6 correct?

7 A Yes.

8 Q And you're aware, are you not, that
9 they do not endorse the use of medical marijuana
10 in the treatment of pain?

11 A I believe that's correct, sir.

12 Q And on the subject of health, sir, is
13 it fair to say that you take your own medicine?

14 MS. RACE: I just want to object to
15 that for clarification. It seems to be vague.

16 MR. McNICHOLS: Yeah. That's fair.
17 I'll withdraw the question.

18 JUDGE JULIUS: Thank you, Counsel.

19 BY MR. McNICHOLS:

20 Q On the -- I couldn't tell exactly what
21 you were talking about on the Mary Jane podcast,
22 but I understand from the questioning earlier
23 today, perhaps by Mr. Evans, that you do not
24 smoke marijuana. Is that correct?

25 A Do you mean personally?

1 Q Yeah. When I say "you" in this case, I
2 mean Dr. Burchman.

3 A No, sir, I -- I don't smoke.

4 Q Right. But at least according to the
5 account you gave to the Mary Jane Society
6 podcast, you do like your THC cocktails,
7 correct?

8 A Yes. I -- I won't say I like them, but
9 I have -- I have used them. I think if -- if
10 one were to compare -- well, I'll -- I'll just
11 leave it at that.

12 Q Sir, when was the last time you
13 ingested THC?

14 MS. RACE: Your Honor, I just would
15 like to make an objection here. To the extent
16 we're asking about medical treatment or
17 therapies, I think that that should be well
18 outside of the scope -- personal medical
19 treatment and therapies, that should be well
20 outside the scope of this hearing. And so I'd
21 lodge an objection based on scope of the
22 question.

23 MR. McNICHOLS: Okay. Now we -- I
24 think we have the right to find out right now,
25 Your Honor, whether the man's under the

1 influence of any intoxicating substance. And I
2 want to know when is the last time he's taken
3 one of these cocktails that he's advocated
4 publicly.

5 JUDGE JULIUS: I understand the
6 concerns regarding the scope of the inquiry. I
7 will allow the question for the purposes that
8 counsel has proffered them.

9 MS. RACE: If I could just make --

10 BY MR. McNICHOLS:

11 Q When is the last time, sir --

12 JUDGE JULIUS: It seems like we have
13 another objection. If I could just make a
14 statement. Understanding or being able to ask a
15 witness whether or not they are under the
16 influence of a substance that might alter
17 testimony is a relevant inquiry for the purpose
18 of the hearing, but that is not the question
19 that was lodged.

20 JUDGE JULIUS: Counsel.

21 MR. McNICHOLS: Let me --

22 BY MR. McNICHOLS:

23 Q When is the last time you've had a THC
24 cocktail, sir?

25 A I can't remember. Probably between

1 6 and 12 months ago. And I -- I just need to
2 state I'm not under the influence of any
3 substances. Perhaps caffeine, that's it.

4 Q If I understood your testimony a moment
5 ago, sir, you said that you don't like them. Is
6 that correct?

7 A Them?

8 Q THC cocktails.

9 A I don't follow the question. I'm so
10 sorry.

11 Q I had thought earlier, perhaps I
12 misunderstood your testimony, that you said you
13 don't like THC cocktails. Was that your
14 testimony earlier today, a few moments ago?

15 A I -- I honestly don't remember stating
16 that. Did I -- did I say that?

17 Q The transcript will reflect whether you
18 did or not, sir. Let me move on.

19 JUDGE JULIUS: Just for the record, I
20 believe the testimony was when you -- you said
21 on the podcast you enjoy them, and his testimony
22 was, "I wouldn't say that I enjoy them." If you
23 want to --

24 MR. McNICHOLS: Oh. Thank you, Your
25 Honor. Let me --

1 JUDGE JULIUS: -- parse the language.

2 MR. McNICHOLS: Yes. Yeah.

3 BY MR. McNICHOLS:

4 Q Is that an accurate statement, sir,
5 that you said earlier in your testimony you do
6 not enjoy THC cocktails? Is that correct?

7 A If that's what I said on the podcast,
8 that would be -- that would be accurate.

9 Q No, no. What I'm asking about is what
10 you said in court a moment ago. Here today, did
11 you say, "I don't enjoy them"?

12 A I'm -- I'm just a little befuddled.
13 Sorry. If I said I don't enjoy them, my
14 implication was it's not a practice. Like, I --
15 like, if I don't enjoy golf, it means I just
16 don't play golf. It's not that I don't enjoy
17 the game. And so if -- if one were to say,
18 "Well, I don't enjoy THC cocktails," for me,
19 subjectively, that statement refers to the fact
20 that it's not a practice in which I engage with
21 any regularity or exuberance.

22 Q I understand. Thank you for the
23 clarification, sir. So just for the record,
24 though, it's clear that on the occasions when
25 you have imbibed THC cocktails, you did so for

1 recreation and enjoyment, correct?

2 A That would be accurate, yes.

3 Q Now, you mentioned some publications
4 yesterday that supported the idea of medical
5 marijuana as treatment for pain, and, in
6 particular, the entourage effect. Did I recall
7 your testimony from yesterday correctly?

8 A Yes.

9 Q Okay. And the entourage effect, as I
10 understand it, is the idea that a cocktail or
11 combination of chemicals may be more effective
12 for a particular endpoint than any isolated
13 compound. Is that generally right as to the
14 concept?

15 A That's exactly correct.

16 Q Lucky. And in your discussion
17 yesterday as to the publications that support
18 that idea, I think I heard the name of Dr. Ethan
19 Russo. Is that correct?

20 A Yes.

21 Q And he's written the articles that
22 you're referring to, talking about the entourage
23 effect and its benefits in pain management,
24 correct?

25 A Dr. Russo has written multiple

1 publications, so I don't really --

2 Q Thank you, sir. Keep going.

3 A I don't really know the question.

4 You'll have to rephrase it for me. I'm sorry.

5 JUDGE JULIUS: He -- he had asked for a
6 rephrasing of the question.

7 MR. McNICHOLS: I'll withdraw.

8 BY MR. McNICHOLS:

9 Q You're familiar, sir, though, with the
10 fact that Dr. Russo works for the cannabis
11 industry. Are you not?

12 A No.

13 MR. McNICHOLS: If this is a suitable
14 time for the comfort break, Your Honor, it might
15 be a good breaking point because I think we're
16 retrieving some materials for use on cross-
17 examination.

18 JUDGE JULIUS: That's fine with the
19 Court. Any objection?

20 MS. RACE: No, Your Honor.

21 JUDGE JULIUS: Okay. Thank you.

22 We'll go ahead and take our 15-minute
23 comfort break a little early. Let's come back
24 at 10:30 on the dot.

25 MR. McNICHOLS: Thank you.

1 JUDGE JULIUS: Thank you, everyone.
2 Please don't discuss your testimony
3 with anyone --

4 THE WITNESS: Oh. Of course.

5 JUDGE JULIUS: -- during the break.

6 THE WITNESS: Thank you.

7 JUDGE JULIUS: And we'll be in recess
8 for 15 minutes.

9 Thank you, everyone.

10 (Whereupon, the above-entitled matter
11 went off the record at 10:15 a.m. and
12 resumed at 10:30 a.m.)

13 JUDGE JULIUS: Ready to resume your
14 cross-examination?

15 MR. McNICHOLS: Yes, Your Honor.

16 JUDGE JULIUS: Whenever you're ready,
17 sir.

18 MR. McNICHOLS: Before we took the
19 break, Dr. Burchman, we were talking about Dr.
20 Ethan Russo, and my last question to you, I
21 think, was whether he worked for the cannabis
22 industry, and I think you answered that you
23 didn't know one way or the other. Is that
24 correct?

25 THE WITNESS: Yes, sir. Thanks so

1 much.

2 BY MR. MCNICHOLS:

3 Q You now have in front of you, Dr.
4 Burchman, a printout of an article, and can you
5 verify for me, sir, that the title of this
6 article is The Case for the Entourage Effect in
7 Conventional Breeding of Clinical Cannabis: No
8 "Strain," No Gain? You see that, sir?

9 A Yes, sir.

10 Q And you see that the author of the
11 article below that is one Ethan B. Russo. You
12 see that?

13 A Yes.

14 Q And this was the article you were
15 talking about yesterday as a publication that
16 supports the idea of the entourage effect in
17 marijuana as a treatment for pain, correct?

18 A No.

19 Q I'm sorry. It's a different article by
20 Dr. Russo that you were referring to?

21 A That's correct. Thank you.

22 Q You've just been handed another
23 document, sir, that's entitled Taming THC:
24 potential cannabis energy and phytocannabinoid-
25 terpenoid entourage effects by one Ethan B.

1 Russo. You see that, sir?

2 A I do.

3 Q Is this the article you were referring
4 to as supporting the idea of the entourage
5 effect of marijuana as a treatment for pain?

6 A Correct, but you read the title wrong.

7 Q I'm sorry.

8 A It's cannabis synergy, not cannabis
9 energy and that's actually a very interesting
10 distinction because this whole concept and
11 thrust of Dr. Russo's -- the impetus of his
12 statement, is about synergy and not energy. I
13 thought that was a bit ironic.

14 Q Sorry. You can see, though, that below
15 the name of Dr. Russo, that this particular
16 study is sponsored by GW Pharmaceuticals,
17 Salisbury, Wiltshire, UK. You see that, sir?

18 A I do.

19 Q Okay. And they make the drug, Sativex,
20 don't they?

21 A I don't know.

22 Q You don't --

23 A Sativex is what you're referring to,
24 but to be honest, in all honesty, I don't know
25 who makes Sativex.

1 Q You don't know whether the author --
2 the company that funded this article or this
3 study underlying this article actually makes a
4 THC-related pharmaceutical. Is that correct?

5 A Yes, sir.

6 Q If you go back to the first article,
7 the one that I handed you by Dr. Russo -- let me
8 know when you're there.

9 A Got it.

10 Q And you see that below Dr. Russo's
11 name, it says there International Cannabis and
12 Cannabinoids Institute, Prague, Czechia. You
13 see that?

14 A Yes.

15 Q And on the last page -- let me know
16 when you're there.

17 A Got it.

18 Q There's something in the far right-hand
19 column, about halfway down the page, called a
20 conflict of interest statement. Do you see
21 that, sir?

22 A Yes.

23 Q And you see that's where Dr. Russo
24 writes, I am Director of Research for the
25 International Cannabis and Cannabinoids

1 Institute. We serve clients engaged in cannabis
2 commerce. Do you see that?

3 A Yes.

4 Q Now, you would agree with me that these
5 writings by Dr. Russo are not the only writings
6 on marijuana as a treatment for pain. Do you
7 agree with that?

8 A Well, these writings don't specifically
9 address pain management, sir.

10 Q Fair enough, sir. They're not the only
11 writings about marijuana for any indication.
12 There are lots of studies. You agree with that,
13 don't you, sir?

14 A Oh, absolutely.

15 Q Okay and, in fact, good science as to
16 marijuana or any other pharmaceutical has to
17 take into account all the evidence, both
18 favorable and unfavorable, for any course of
19 treatment, correct?

20 A Yes, sir.

21 Q And by your estimation, sir, marijuana
22 is the most researched drug there is, correct?

23 A It's certainly up there. I probably
24 said that.

25 Q Okay. And I think you previously said

1 it has more than 30,000 citations on PubMed,
2 correct?

3 A I said that at the time, but it's
4 certainly more now.

5 Q And just for the record, sir, PubMed is
6 a database of studies, articles on medical
7 issues?

8 A Correct.

9 Q Okay. And I think you've even
10 commented that there are more studies on PubMed
11 on marijuana than there are on Tylenol, Humira,
12 and Xanax combined, correct?

13 A Yes, sir.

14 Q Okay. And on the Mary Jane Podcast,
15 you noted that marijuana has been subjected to
16 more than 150 randomized controlled trials,
17 correct?

18 A I may have said that. I don't recall.

19 Q But you weren't lying if you said that,
20 correct, sir?

21 A I don't lie.

22 Q And you've also said that those
23 randomized controlled trials are the gold
24 standard for the FDA, correct?

25 A I said that at the time. I don't

1 necessarily believe that now.

2 Q Okay. But you'd agree with me, sir,
3 that as of today, there is still no product
4 approved by the FDA that's based on botanical
5 marijuana, correct?

6 A That's entirely incorrect.

7 Q Oh, what product is there based on
8 botanical marijuana that's been approved by the
9 FDA?

10 A I'm so happy you asked that question.
11 Just this past week, the cannabis spectrum
12 extract VER-01 received what was called a
13 breakthrough designation by the FDA, which, as
14 far as I'm concerned, that is like the key to a
15 golden lock. It kind of validates everything I
16 have believed and worked for in the sense of
17 marijuana entering phase three clinical trials,
18 randomized clinical trials. This happened just
19 this week. I'm kind of surprised that it's not
20 the buzz of the room. That study, it's a very
21 large study out of Germany, I think, Karst is
22 the author in Nature Medicine. You could find
23 it, I'm sure. That is kind of an earthquake
24 that's rewriting the map in terms of the
25 clinical acceptance of marijuana. In fact, that

1 kind of validates everything I said in the mid-
2 2000s, and that was followed with Dr. Russo's,
3 you know, entourage study. So, we really have
4 now before us a validated, FDA -- it's not an
5 FDA-approved drug, but the --

6 Q Well, that was my question, sir. I
7 think, your testimony is that it's only now
8 entering phase 3, correct?

9 A No, no. Phase -- you stand corrected.
10 I'm sorry. Phase 3 clinical trials are done and
11 because of the significant conclusions, such as
12 that in this large phase 3 clinical trial of
13 full-spectrum botanical cannabis, the FDA
14 recognized not only the impact and importance
15 but did a rare event and approved it as what's
16 called a breakthrough, I don't know exactly the
17 term because I'm not like a --

18 Q Sir, as of today, can this product be
19 prescribed to patients in the U.S. under federal
20 law or not?

21 A No, but your original question, sir --

22 Q That's my question, sir.

23 A That's.

24 Q That's my question to you.

25 A Well, I didn't really have the

1 opportunity to answer the question just prior to
2 the question.

3 (Simultaneous speaking.)

4 Q Right. The government can ask you
5 about that on their redirect, sir. This is my
6 opportunity to ask you questions.

7 A Okay, fair.

8 Q Now, one thing you mentioned yesterday
9 was the idea of using marijuana to transition
10 off of opioids for pain. Is that right?

11 A Yes, or at the very least,
12 significantly reduce the amount of opioids that
13 patients are on. When we say transition, it
14 doesn't necessarily imply a cessation of opioid
15 medication.

16 Q And in the describing the transition
17 treatments that you've done with your opioid
18 patients -- and am I correct, sir, that you've
19 treated more than 10,000 patients with opioids?

20 A Certainly in the context of anesthetic
21 management and pain management.

22 Q Okay. And I think you testified that
23 in the course of transitioning them, you first
24 did that using dronabinol or Marinol?

25 A Yes, FDA-approved cannabinoid products.

1 Q Right. And that it was later in your
2 career, perhaps 2016 to 2019, when you started
3 doing the transition with botanical cannabis.
4 Is that correct?

5 A Yes.

6 Q Okay. Now, Marinol or dronabinol is a
7 THC or synthetic THC compound. Is that right?

8 A Yeah, it's the molecule.

9 Q Thank you, sir. But pain is not one of
10 the indications for which it is FDA-approved,
11 correct?

12 A Correct.

13 Q So in prescribing Marinol or dronabinol
14 for one of your patients, you are engaging in
15 what's called off-label prescribing. Are you
16 not, sir?

17 A Yes.

18 Q You're replacing an approved drug with
19 one that is not approved for the same
20 indication, correct?

21 A That's correct.

22 Q And you agree, sir, that that's
23 dangerous by FDA standards, correct?

24 A I don't know.

25 Q You don't know whether the FDA

1 considers it's dangerous to engage in off-level
2 prescriptions. Is that correct?

3 A That's correct, off-label prescribing
4 is not uncommon in medication management.

5 Q My question is only whether you know
6 whether the FDA thinks it's dangerous or not,
7 and I think your answer is you don't. Is that
8 correct?

9 A In my previous answer, I acknowledged
10 that, correct, I do not know that.

11 Q All right and when you're transitioning
12 a patient from opioids to botanical cannabis,
13 you're replacing an approved pain medication
14 with one that is not recognized as a medication,
15 correct?

16 A At the time, it wasn't recognized as a
17 medication.

18 Q And, in fact, you're replacing a dose
19 that was determined by you with one that allows
20 the patient to, in your phrase, self-titrate,
21 correct?

22 A Yes.

23 Q And in the context of using marijuana
24 for pain management, does self-titration mean
25 essentially, in the context of smoking, just

1 smoke until you feel better?

2 A Better is a rather generic term. I try
3 to be very specific with my patients.

4 Q Let me try again, sir. In the context
5 of self-titration and the use of smoked
6 marijuana, is it simply smoke until you don't
7 hurt?

8 A I would not phrase it in that way, sir.
9 If you were my patient, I would say, take a
10 dose, wait, you know, inhalational
11 administration occurs usually within 60 seconds
12 in terms of effect, maybe not peak effect, and I
13 would instruct the patient to titrate by, you
14 know, regulating the dose and wait a few minutes
15 and see if the pain is beginning to subside. I
16 have to be honest with you, most chronic pain
17 patients ~~we're~~ are really looking to relieve
18 their pain, but not totally. I mean, that would
19 be ideal, but that's very difficult.

20 Q Let me try again then, sir. In the
21 context of smoked marijuana, self-titration
22 means smoke until it hurts less.

23 A Precisely.

24 Q Now, part of your discussion yesterday
25 in the direct examination by the government was

1 your discussion about the risks of opioid use
2 versus marijuana. Do you recall that testimony,
3 sir?

4 A Yes.

5 Q I think you spoke about, among other
6 risks, the overdose risks and also the
7 challenges of withdrawal as between the two
8 drugs. You recall that, sir?

9 A Yes.

10 Q And that was clearly a critical
11 consideration to you and the patient when
12 transitioning them from opioids to another form
13 of treatment, correct?

14 A Yes.

15 Q But the risks of withdrawal symptoms
16 and overdose are not the only adverse effects
17 associated with marijuana, correct -- withdrawn.
18 The risks of overdose and the symptoms of
19 withdrawal are not the only risks or health
20 hazards associated with drugs in general.

21 A Correct.

22 Q And you agree, sir, that from the
23 standpoint of the practitioner and the patient
24 that mental health risks are relevant as well,
25 correct?

1 A Yes.

2 Q And before advising any patients on
3 transitioning from opioids to marijuana, did you
4 undertake any comparison of the mental health
5 risks between opioid use and marijuana use?

6 A That is difficult to answer in a yes or
7 no way.

8 Q Let me ask you this, sir. During your
9 time in clinical practice, were you aware that
10 marijuana is associated with psychosis?

11 A There is a correlation in certain
12 segments of the population, yes.

13 Q And were you aware of that during the
14 course of your clinical practice?

15 A Of course.

16 Q And you're also aware that marijuana
17 has been associated with structural brain
18 changes?

19 A Correct.

20 Q Decreased IQ?

21 A I'm aware of the correlations and
22 associations, correct.

23 Q Impaired cognitive functions?

24 A Most definitely.

25 Q And psychotic disorders, correct?

1 A I am acutely aware of the literature
2 and the hypothesis that there is a correlation,
3 correct.

4 Q And in fact, of all drugs, marijuana
5 has the highest rate of transition from
6 psychosis to schizophrenia, correct?

7 A Not being a psychiatrist, I can't
8 comment on that question. I'm sorry.

9 Q Are you in a position to dispute that,
10 sir?

11 A To repeat my previous question, not
12 being a student of psychiatric illness, I have
13 no understanding or comment on that.

14 Q Now, sir, you agree with me that the
15 mental health risks of marijuana are greater
16 with chronic and long-term use than they are
17 with acute use, correct?

18 A Not being a psychiatrist or studying
19 psychiatric illness, I really can't answer that
20 question.

21 Q Did you take into account the risks of
22 chronic long-term marijuana use when advising
23 your patients on transitioning from opioids to
24 marijuana?

25 A Let me think about that for a second.

1 Q I hadn't thought this would be --

2 A Yes, yes. The answer is yes.

3 Q So, you were aware of the long-term
4 chronic risks of marijuana use, correct?

5 A Yes.

6 Q And its association with psychosis?

7 A In certain patient populations, I have
8 a concern about that correlation.

9 Q And if I understand your testimony from
10 yesterday correctly, there are roughly 200 to
11 400 patients who you've helped transition from
12 opioid use through marijuana. Is that correct?

13 A To the best of my recollection, yes.

14 Q Which sounds like about -- between two
15 percent and four percent of your opioid
16 patients, is that right?

17 A That number, in terms of opioid therapy
18 to which I administered to patients, includes a
19 large number of surgical patients, which aren't
20 really in the same basket as my chronic pain
21 patients with which I use medical, you know,
22 cannabinoid therapy.

23 Q If we had to reduce the number --
24 withdrawn. The number of chronic pain patients
25 who you treated with opioids, focus on that.

1 What's that number?

2 A Can you just repeat the question so I
3 exactly know what you're trying to ask?

4 Q Let's -- well, I thought you'd said
5 yesterday that you'd had roughly 10,000 patients
6 that you'd treated with opioids, and I think
7 that today you said that includes both
8 anesthesia and pain management together. Is
9 that right?

10 A That sounds right, yes.

11 Q Limit it, sir, to pain management. How
12 many have you treated with opioids solely for
13 pain management, not anesthesia?

14 A This is a guess, but to my
15 recollection, several thousand.

16 Q Okay. Well, back to my question,
17 though. Am I right, though, that the number of
18 people -- pain management patients, who you've
19 transitioned from opioids to marijuana is
20 between 200 and 400?

21 A Yes.

22 Q Okay. Now, of those 200 to 400, what
23 percentage of them were you able to get off of
24 opioids altogether?

25 A I would say 15 percent, 15 to 25

1 percent.

2 Q And then the remainder, whether it's 85
3 or 75, are patients who would be taking opioids
4 into the indeterminate future, correct?

5 A Yes, with the goal being a lower dose.

6 Q Okay. And they would be then using
7 marijuana into the indeterminate future,
8 correct?

9 A Yeah, that's the goal. Correct.

10 Q Okay. And with how many of them have
11 you followed up over the course of time in order
12 to assess whether they were suffering from any
13 mental health risks as the result of marijuana
14 use?

15 A Do you mean in the context of today am
16 I following them? Or you mean in the three
17 years since medical, you know, there was medical
18 approval in the state? I don't exactly follow
19 your question.

20 Q Let me withdraw the question, sir. Let
21 me try this one. Of the patients who you
22 transitioned from opioids to marijuana, how many
23 of them ultimately stopped, or what percentage
24 of them, ultimately stopped using marijuana?

25 A I can't answer that. I wouldn't know.

1 Q As far as you know, they're all still
2 using it.

3 A If it's addressing their pain in the
4 context of which they initially saw me, and I
5 manage them with my team, that drug regimen
6 could be indefinite, yes.

7 Q Now, I want to talk to you about the
8 standard that you apply to assess whether a
9 treatment is appropriate. And am I right, sir,
10 that last year you wrote on LinkedIn, I think it
11 was in October of 2025, an article called
12 Evidence-Based Review: Cannabis as a Treatment
13 for Glaucoma? Did you write that?

14 A Yes.

15 Q Can we see that? Tab 1. While we're
16 getting the exhibit, sir, can you just help us
17 understand that glaucoma is an eye condition
18 where there is some kind of excess pressure in
19 the interior of the eye?

20 A Correct.

21 Q And in the article that we'll look at,
22 you talked about the evidence that you would
23 need to get behind cannabis as a form of
24 treatment for glaucoma, correct?

25 A Correct. Thank you, sir.

1 Q And sir, you've been handed an article
2 called Evidence-Based Review: Cannabis as a
3 Treatment for Glaucoma, dated October 17, 2025.
4 Can you verify for me that this is the article
5 that you wrote, sir?

6 A Yes, and I did this at the request of
7 the therapeutic board in New Hampshire. I'm not
8 an ophthalmologist -

9 Q The only question is whether that's the
10 article, sir.

11 A Oh, I'm sorry. Yes, it is.

12 MR. McNICHOLS: Thank you. We didn't
13 designate this in advance, Your Honor, but we'd
14 like to have this marked for identification as
15 SAM Exhibit 46. And given that it's now been
16 authenticated, we move it into evidence.

17 (Whereupon, the above-referred to
18 document was marked as SAM Exhibit No. 46 for
19 identification.)

20 JUDGE JULIUS: Any objection to the
21 admission?

22 MS. RACE: No, Your Honor.

23 JUDGE JULIUS: SAM 46 will be admitted.

24 MR. McNICHOLS: Thank you. And to go
25 back to the idea of cannabis -- oh, actually,

1 wait a minute. How much time do I have left on
2 behalf of --

3 MR. PHILLIPS: Two minutes, 20 seconds.

4 MR. MCNICHOLS: I'm going to continue
5 examining on behalf of my next client, Your
6 Honor. Is it fine if the time just rolls over?

7 JUDGE JULIUS: We can do that.

8 MR. MCNICHOLS: Thank you.

9 JUDGE JULIUS: We'll just alert you
10 when that time rollover happens.

11 MR. MCNICHOLS: Thank you, sir.

12 MS. RACE: Your Honor, if I can, just
13 for clarification purposes, is this a SAM
14 exhibit, or is this a state's exhibit?

15 MR. MCNICHOLS: It's a SAM exhibit, 46.

16 MS. RACE: SAM exhibit? Okay.

17 MR. MCNICHOLS: Yes, ma'am.

18 MS. RACE: Thank you.

19 MR. MCNICHOLS: And you agree with me,
20 sir, that based on the evidence you reviewed
21 prior to writing this, that there was some
22 evidence in clinical studies that cannabis could
23 reduce pressure on the eyeball, at least in the
24 short duration?

25 THE WITNESS: Yes, that's very

1 accurate.

2 BY MR. MCNICHOLS:

3 Q Right. It had a physiologic effect, in
4 other words?

5 A Well, I don't know the mechanism but --
6 correct.

7 Q Okay. Right, and there were also some
8 favorable animal studies that were consistent
9 with the clinical studies, correct?

10 A Yes.

11 Q Okay. And they saw consistent results
12 in terms of reduction in pressure in the
13 interior of the eye, correct?

14 A Correct.

15 Q And you would agree with me, sir, that
16 a physiologic effect by a drug is not enough to
17 make it medically sound to recommend, correct?

18 A That's correct.

19 Q And I think this is consistent with the
20 testimony you gave to Mr. Evans earlier today,
21 but duration of effect also matters, correct?

22 A With respect to a therapy for glaucoma?

23 Q With respect to any therapy, sir,
24 duration of effect matters when you're
25 evaluating a drug as a potential course of

1 treatment, correct?

2 A It's one of the components one takes
3 into account when calculating proper dosage and
4 interval of administration.

5 Q You take it into account as a
6 physician, correct?

7 A Oh, yes.

8 Q Right. And you would agree with me
9 that disease modification also matters when
10 you're considering a medication as a proposed
11 form of treatment, correct?

12 A Yes.

13 Q Dosing frequency also matters, correct?

14 A Correct.

15 Q Side effects matter, correct?

16 A Correct.

17 Q And the recommendations of professional
18 societies also matter, correct?

19 A To be honest with you, not as much. I'm
20 the physician taking care of the patient. I know
21 the medical literature and based on my training
22 experience, I don't necessarily adhere to positions
23 by medical societies to ~~relegate~~ regulate what I do
24 with a patient, as long as I know I'm adhering to
25 good and proper medical therapy and

1 treatment.

2 Q And you would agree with me, sir, that
3 in the article you wrote about cannabis as a
4 potential therapy for glaucoma, you, at section
5 5 of the article, took into account the position
6 statements of both the American Glaucoma Society
7 and the American Academy of Ophthalmology,
8 correct?

9 A Yes, correct.

10 Q Okay, and you noted that neither of
11 them approved cannabis as a treatment for
12 glaucoma, correct?

13 A Correct.

14 Q And you noted also, in the course of
15 your evaluation of glaucoma, that there were
16 other treatments available besides marijuana
17 that you could use for glaucoma, correct?

18 A Yes, because they were more favorable
19 and had a better profile in terms of efficacy
20 and patient utilization.

21 Q And you also took into account what the
22 FDA said as well, correct?

23 A Where did I write that, sir?

24 Q If you look at 11.2, sir, under FDA
25 perspective, I read it as saying, No approved

1 cannabis product for glaucoma. Can you verify
2 that you wrote that?

3 A Yes.

4 Q Okay. And in the course of your
5 article, you also said that there was a need for
6 rigorous phase II and phase III trials to
7 establish things like optimal dose, correct?

8 A Correct.

9 Q To establish the long-term safety
10 profile of the drug, correct?

11 A Correct.

12 Q To establish the disease progression,
13 correct?

14 A Where does it say that, sir? I'm
15 sorry.

16 Q I'll withdraw the question. Now, you
17 concluded on the basis of the considerations
18 that we've run through that cannabis was not an
19 appropriate therapy for glaucoma, correct?

20 A Yes.

21 Q And you noted that no major medical
22 organization had got behind it, correct?

23 A I said that two minutes ago, but yes.

24 Q Right.

25 A If you need to recapitulate, yes.

1 Q And you said that the risks outweigh
2 the benefits, correct?

3 A Did I say that somewhere in the paper?

4 Q Did you say it, sir?

5 A Could you show me where you --

6 Q Can you tell me without me showing you?
7 It's your paper, sir. Did you say in this that
8 the risks outweigh the benefits of using
9 marijuana as a treatment for glaucoma? And I
10 suppose if it helps you, sir, you can direct
11 your attention to 12.3.

12 A Yeah, I'm reading it right now. Thank
13 you.

14 Q I knew you'd get it.

15 A What I do say, if I may read it, is that the
16 --

17 Q My only question is whether did you
18 decline to recommend marijuana as a treatment for
19 cannabis on the basis that the risks outweighed the
20 benefits?

21 A No. Well, 12.3 does not say that. It
22 just says there's a risk/benefit conclusion, and if
23 I may read it, The documented risk and practical
24 limitations substantially outweigh the modest and
25 short-lived intraocular pressure reduction.

1 I don't say benefit.

2 Q Well, in the case of glaucoma, you
3 agree that intraocular pressure reduction is a
4 benefit, correct?

5 A It would be the goal, yes.

6 Q A benefit, correct?

7 A Well, don't speak for me. You told me
8 to look at the statement and it says it, that
9 the risks outweigh the benefits, and what I'm
10 trying to say is I'm very precise with my words,
11 sir. I say the documented risks --

12 Q Let's go on.

13 A Practical --

14 Q To the other words that you used that
15 you were precise with, sir. One of the reasons
16 that you thought that the documented risks
17 outweighed the modest and short-lived
18 intraocular pressure reduction was because
19 patients have access to multiple FDA-approved
20 treatments that are safer, more effective, more
21 convenient, and that have established efficacy
22 in preventing vision loss. Did you write that,
23 sir?

24 A Yes, sir.

25 Q And in the course of writing this, as

1 to glaucoma, you thought that it was unhelpful
2 to look for whether glaucoma was authorized
3 under state medical marijuana programs, correct?

4 A Could you repeat the question, please?
5 I'm sorry.

6 Q Yeah. In the course of your analysis
7 of glaucoma in this article, did you say that it
8 was unhelpful to look to whether states had
9 authorized marijuana to be used to treat
10 glaucoma?

11 A Can you indicate in the article where I
12 state that?

13 Q I'll do my best, sir. If you go to
14 section 11.1 -- let me know when you're there.

15 A Okay, got it.

16 Q And what you wrote there, tell me if I
17 have this right: US medical marijuana programs.
18 Multiple states list glaucoma as a qualifying
19 condition. Programs based on public opinion
20 rather than FDA regulatory process. Lack of
21 physician oversight in product selection. No
22 standardization of cannabinoid content. Limited
23 quality control and testing requirements. Is
24 that what you wrote, sir?

25 A Correct.

1 Q Now, you would agree, sir, that as an
2 anesthesiologist and pain doctor, that the
3 treatment of glaucoma is really not your
4 specialty, correct?

5 A That's correct.

6 Q Right. And that you would never, in
7 your field of pain management, apply a lower
8 standard to patient care than you would apply in
9 your writings, like in this LinkedIn article.
10 You agree with that?

11 A Well, glaucoma is not pain, and
12 therefore --

13 Q It's a challenge. Isn't it a physical
14 malady, sir?

15 A Is what a physical malady?

16 Q What we've been talking about:
17 glaucoma.

18 A Well, you just said pain, so I was
19 confused.

20 Q No, you said pain.

21 MS. RACE: Your Honor, objection.

22 JUDGE JULIUS: Understood. Sustained.
23 Let's just ask the question with the clarity
24 that we're talking about glaucoma, just to get
25 the record clear.

1 MR. McNICHOLS: My question to you,
2 though, sir, is: As a pain doctor, when
3 considering a course of treatment for pain, you
4 wouldn't apply a lesser standard in your
5 evaluation than you would when you applied it to
6 glaucoma, which you're not an expert in,
7 correct?

8 THE WITNESS: I take into context, sir,
9 the disease that I'm dealing with, and in the
10 context of glaucoma, cannabinoids were not as
11 effective as available other therapies. In the
12 context of pain management, marijuana has very
13 attractive benefits to the pain patient that the
14 degree to which is lacking in the approach of a
15 cannabinoid therapy for the indication of
16 elevated intraocular pressure, or, as you say,
17 glaucoma. I know that was a long answer, but --

18 Q It's all right, sir.

19 A You know, it's apples and oranges.

20 Q Let me try this question -- let me try
21 this question here. You agree with me that
22 there are other medications that can be used to
23 treat pain besides marijuana?

24 A Yes. We call those non-opioid
25 analgesics as well as opioids, yes.

1 Q Right. And in other words, there's
2 more medications than opioids and more
3 medications than marijuana that fall within the
4 spectrum of appropriate treatments for pain
5 management, correct?

6 A Yes.

7 Q And that's something you would have to
8 consider before you would recommend marijuana as
9 a treatment for someone suffering from pain,
10 correct?

11 A No.

12 Q You don't consider all available
13 treatments?

14 A Well, I consider treatments, but I
15 don't necessarily favor them over a cannabinoid.
16 For example, Tramadol, which is a non-opioid
17 analgesic, very aggressively used for pain
18 management. It's not as good as cannabis, and
19 so I would certainly -- and, you know, I'll have
20 patients who -- I had this Marine, you know,
21 veteran.

22 Q So that medication you just described,
23 is that FDA approved?

24 A Which one?

25 Q The one you just described.

1 A Tramadol?

2 Q Yeah.

3 A Yes.

4 Q Okay.

5 A I believe it's a Schedule IV.

6 Q All right. And if I understand you
7 correctly, that you recommend cannabis in lieu
8 of Tramadol, a Schedule IV approved drug,
9 correct?

10 A Absolutely. Tramadol's a pretty crappy
11 drug.

12 Q I want to ask you just a few follow-up
13 questions then about the questions you got at
14 the end of your examination concerning some of
15 the quality controls in the New Hampshire
16 medical marijuana system. Do you recall that
17 examination from yesterday?

18 A I think so, yes.

19 Q Let me be more specific. You described
20 things like the QR codes and certificates of
21 analysis that are available in the New Hampshire
22 Medical Marijuana System. Is that right?

23 A Yes.

24 Q Okay. Now, did I understand you
25 correctly that there are four dispensaries in

1 New Hampshire?

2 A I believe so.

3 Q All right. And where you live,
4 actually, in New Hampshire is right on the
5 border with Vermont, correct?

6 A Yes.

7 Q And in fact, the dispensary -- the Tea
8 -- what's it called again? The Tea Room?

9 A The Tea House.

10 Q Tea House, yeah.

11 A Right.

12 Q Is it roughly six or seven miles from
13 the Dartmouth campus?

14 A Probably, yeah. I bike that distance
15 every day.

16 Q Okay. Okay. And marijuana is much
17 more available in Vermont, which is an adult use
18 state, than it is in New Hampshire. Is it not,
19 sir?

20 A I can't answer that. I mean the New
21 Hampshire program will only permit registered
22 medical cannabis card people. And in Vermont,
23 it's an adult use and medical program. So it --

24 Q Right. Well, where I'm going with
25 this, sir, is you know of people who live in New

1 Hampshire who go to Vermont to get their
2 marijuana, correct?

3 A Not necessarily. How --

4 Q Yes or no, sir? Do you know people who
5 live in New Hampshire who go to Vermont to get
6 their marijuana or not?

7 A No.

8 MR. McNICHOLS: Those are my questions,
9 Your Honor, on behalf of both clients. Thank
10 you, sir.

11 THE WITNESS: Thank you.

12 JUDGE JULIUS: Thank you, Counsel.
13 It's now 11:10. Mr. Kenneally, do you want to
14 begin your cross-examination?

15 MR. KENNEALLY: Definitely.

16 JUDGE JULIUS: We'll have a lunch break
17 somewhere, maybe. I don't know how long you
18 plan to go.

19 MR. KENNEALLY: Let's see how it goes.

20 JUDGE JULIUS: Okay.

21 MR. KENNEALLY: And if we get towards
22 noon, I can see if we're close and maybe we
23 could go a little bit extra time if that's
24 necessary, and maybe after.

25 JUDGE JULIUS: Perfect. Thank you so

1 much.

2 MR. KENNEALLY: Does that sound good?

3 JUDGE JULIUS: Yep.

4 MR. EVANS: Your Honor, I would like to
5 take the time in the afternoon for further
6 cross-examination. I believe we have a client
7 that Dr. Finn may later sit.

8 MR. KENNEALLY: Judge, that's a good
9 question. And so I guess if the question to put
10 before the Court is that, if I finish my cross-
11 examination -- so let's say I do the hour, and
12 then we have the other cross-examination with
13 regards to Mr. Finn. I finish a little bit
14 early. Could we swap out as counsel? Because I
15 believe Mr. Evans may have some more questions
16 and since we both represent Dr. Finn, would that
17 be something that Your Honor would entertain?

18 JUDGE JULIUS: So let me, I want to
19 make sure I understand the question correctly.
20 You're going to handle DUID Victim Voices, Mr.
21 Kenneally, and then split the time or questions
22 for Dr. Finn?

23 MR. KENNEALLY: Mr. Evans may have some
24 more questions for the doctor. I'm going to
25 handle DUID voices. I could go over, and then

1 I'd like to go into Dr. Finn's time, an hour or
2 more. Let's say I don't use all of Dr. Finn's
3 time, so I'll give it to Mr. Evans.

4 JUDGE JULIUS: If you could just
5 summarize what you said.

6 MR. KENNEALLY: Sure.

7 JUDGE JULIUS: Just to make sure we
8 have it on the record.

9 MR. KENNEALLY: Let's say I do an hour
10 for DUID voices. We then go into Dr. Finn's
11 time with me. I finish, let's say, after 15
12 minutes. There's still 45 minutes left on Dr.
13 Finn's time. Could Mr. Evans, "swap in" and
14 take the remainder of that 45 minutes? Would
15 the Court entertain that?

16 JUDGE JULIUS: Any objection from the
17 government?

18 MS. RACE: I believe that is contrary
19 to the Court's order.

20 JUDGE JULIUS: I do believe that it is
21 as well. What I would suggest is do your
22 questioning for DUID Victim Voices. We can take
23 our lunch break, and then you and Mr. Evans can
24 discuss who, of the two of you, would like to do
25 Dr. Finn's opportunity for cross-examination and

1 perhaps over the lunch break consolidate the
2 questions, and one person can ask them.
3 Certainly, you can pass notes or questions and
4 lists of questions to whoever is actually asking
5 the questions.

6 MR. EVANS: Your Honor, I didn't know
7 that I have a full hour. I probably have got 15
8 minutes, half an hour. Again, I try to like to
9 get done as quickly as possible.

10 JUDGE JULIUS: Understood. But the
11 preliminary order did state that only one lawyer
12 would be able to ask the cross-examination or
13 any particular examination.

14 MR. EVANS: Of course.

15 JUDGE JULIUS: So, I would like to keep
16 with the preliminary order, and I would suggest
17 maybe coordinating over the lunch break of how
18 you'd like to handle -

19 MR. EVANS: Well, I can handle the last
20 hour. That's fine. If you go an hour and I'll
21 go an hour, and then that's fine.

22 JUDGE JULIUS: That certainly works for
23 the Court, but if you come to a different
24 agreement over the lunch break, I'm happy to
25 hear whichever you would like to cover for Dr.

1 Finn.

2 MR. KENNEALLY: That sounds good, Your
3 Honor.

4 JUDGE JULIUS: Okay. Thank you.

5 MS. RACE: Thank you.

6 JUDGE JULIUS: And so just for clarity,
7 you're now speaking on behalf of DUID Victim
8 Voices for your hour of cross-examination,
9 correct?

10 MR. KENNEALLY: Please, Your Honor.

11 JUDGE JULIUS: Absolutely. Just want
12 to make sure the record was clear. Whenever
13 you're ready, sir.

14 CROSS-EXAMINATION

15 MR. KENNEALLY: Good morning or is it?
16 It is still good morning, Doctor. Good morning.

17 THE WITNESS: Good morning.

18 BY MR. KENNEALLY:

19 Q My name is Patrick Kenneally. You can
20 refer to me as Patrick or Mr. Kenneally,
21 whatever your preference is. As the Judge said,
22 I'm going to ask you a series of questions. If
23 there's a question that you don't understand,
24 just ask me to repeat it. If there's a question
25 that you don't hear, I'm also happy to speak up

1 and repeat it as well. Okay?

2 A Thank you. Yes.

3 Q You're welcome. All right. Now you
4 have an interest in the cannabis industry. You
5 have a financial interest. Is that correct?

6 A Technically, yes.

7 Q Okay. Well, not technically. Five
8 percent of your income since 2019 has come from
9 the cannabis industry.

10 A Okay. Yes. Sure.

11 Q Okay. So how much is that? How much
12 money have you made since 2019 from the cannabis
13 industry?

14 A Oh, maybe I don't know. Geez, I don't
15 know.

16 Q Well, maybe we can come at it this way.
17 What is your annual income, sir, on average
18 since 2019?

19 A That would include, I guess, my
20 retirement income, right?

21 Q Yes.

22 A Okay, let's say 320,000 dollars a year.

23 Q Okay. So you're making tens of
24 thousands of dollars each year from the cannabis
25 industry, correct?

1 A No. I mean, the bulk of that income is
2 from my IRA and investments from money I earned
3 as a physician and --

4 Q So when you testified during Mr.
5 McNichols' testimony earlier that five percent
6 of your income annually comes from the cannabis
7 industry, is that false?

8 A Well, I looked at it this way, and this
9 is how I calculate it. You know, I probably
10 need a pen and paper. I get about a little over
11 300,000 dollars in interest from my holdings in
12 my IRAs, and my cannabis income is, you know, is
13 very little, so --

14 Q How much is it each year, sir, since
15 2019?

16 A Every year, probably, I don't know,
17 30,000 or 40,000 dollars.

18 Q Okay. So when I said tens of thousands
19 of dollars, that was an accurate statement.

20 A Okay, okay.

21 Q You're not board-certified currently,
22 correct?

23 A No, actually, because I received my
24 anesthesia boards in the '80s, that's a lifetime
25 assignment.

1 Q Okay. So you are currently board-
2 certified in pain?

3 A No.

4 Q Okay. So you're not board-certified in
5 pain.

6 A Well, I was, but I -

7 Q No, no, no. I'm asking now. You're
8 not board-certified in pain now?

9 A That's correct -- that's correct.

10 Q Okay. How many board-certified pain
11 doctors are there?

12 A Where? In the United States?

13 Q In the United States. Mm-hmm.

14 A I have no idea.

15 Q Do you have an estimate?

16 A No.

17 Q Okay. Now, you've described yourself
18 as being, quote, acutely aware of the evidence.
19 You've described yourself as somebody that does
20 not misspeak.

21 A I try not to misspeak.

22 Q Okay. And you also have extensive
23 experience as somebody who's published a number
24 of different papers, correct?

25 A Yes.

1 Q Okay. Would you consider yourself to
2 be a researcher?

3 A No.

4 Q Okay. How many medical research papers
5 have you published?

6 A Probably, I don't know, between 10 and
7 20. I have no idea.

8 Q All right. And in terms of scientific
9 evidence, you've heard of what's called the
10 evidence pyramid, correct?

11 A I have not heard that term. I'm sorry.

12 Q Okay. Well, you would agree that in
13 terms of the credibility and the reliability of
14 scientific evidence, there's a hierarchy of
15 evidence. Would you agree with that?

16 A I really don't understand.

17 Q Well, at the top of the hierarchy --

18 A Your term.

19 Q The most reliable clinical medical
20 evidence in terms of research would be
21 systematic reviews and meta-analyses. Would you
22 agree with that?

23 A No, not necessarily, sir.

24 Q Would you agree that generally speaking
25 --

1 MS. RACE: Your Honor. Objection.

2 JUDGE JULIUS: Understood, just let him
3 finish his answer.

4 MR. KENNEALLY: Okay. Go ahead.

5 JUDGE JULIUS: Go ahead, sir.

6 THE WITNESS: Meta-analyses, which are
7 actually papers of studies of studies, where a
8 meta-analysis of, say, chronic pain and opioids
9 might look at 100 different papers and while
10 it's interesting from a qualitative standpoint,
11 it's a mess quantitatively, and so when one
12 interprets medical literature, meta-analyses is
13 a sort of totally different animal.

14 MR. KENNEALLY: Okay. So do you think
15 that generally --

16 THE WITNESS: Well, can I just finish
17 my answer? Meta-analyses is a totally different
18 animal, and as such, personally, I don't know
19 what hierarchy you're referring to or pyramid or
20 whatever, but my point is, personally, for me, I
21 weigh a published peer-reviewed medical -- the
22 veracity of a peer-reviewed medical article
23 based on the study design and the conclusions as
24 well as the impact journal that it's in. I
25 don't necessarily say, Oh, well, this is a meta-

1 analysis of 1,100 --

2 MR. KENNEALLY: Judge, I'm objecting on
3 responsive at this point.

4 JUDGE JULIUS: It is going onto a
5 little bit more of a narrative.

6 THE WITNESS: I'm sorry.

7 JUDGE JULIUS: So, if you could
8 succinctly wrap up your answer.

9 THE WITNESS: All right. Well, his
10 statement was that a meta-analysis is gold
11 standard, and I disagree. No, sir.

12 MR. KENNEALLY: Okay. But would you
13 agree that in the medical community, generally
14 speaking, the medical community recognizes
15 systematic reviews and meta-analyses to be the
16 gold standard and at the top of the evidence
17 hierarchy? Is it your --

18 THE WITNESS: I would disagree with
19 that.

20 BY MR. KENNEALLY:

21 Q Okay, so you do not agree with that
22 statement?

23 A I just said I don't agree with the
24 statement.

25 Q Okay. Thank you. And then below that,

1 would you agree that the medical community
2 generally considers randomized controlled trials
3 to be below systematic reviews and meta-analysis
4 on the evidence hierarchy? Do you disagree with
5 that?

6 A I don't really have a concept of the
7 medical paper hierarchy, so I'm not playing with
8 you, I just don't understand your question. I'm
9 sorry.

10 Q In terms of what constitutes credible,
11 reliable scientific evidence, would you agree
12 that randomized controlled trials with multiple
13 participants, that's double blinded, would be
14 more credible than a doctor talking about a
15 single experience with a patient?

16 A Yes.

17 Q Okay. And in terms of your testimony
18 yesterday, you mentioned a couple of studies,
19 correct?

20 A I'm sure I did.

21 Q All right. And one of the studies was
22 your own study, and it's called Substitution of
23 Medical Cannabis for Pharmaceutical Agents for
24 Pain, Anxiety, and Sleep. Do you remember that?

25 A Yes, sir. The Piper study.

1 Q Okay. And that's Brian Piper, Rebecca
2 DeKeuster, Monica Beals, ~~Kathryn~~ Catherine Cobb,
3 Corey Burchman, Leah Perkinson, Shayne Liynn,
4 Stephanie Nichols, and Alexander Abess. Those
5 are the authors?

6 A Yes, sir.

7 Q Okay. And in 2017, did you have a
8 financial interest in the cannabis industry?

9 A Yes.

10 Q Okay. I'm looking at the declaration
11 of conflicting interest, and it says, The
12 authors declared the following potential
13 conflicts of interest with respect to the
14 research, authorship, and/or publication of this
15 article. BJP. That refers to Brian J. Piper.
16 Correct?

17 A Yes.

18 Q Okay. BJP has received supplies from
19 NIDA, Bethesda, Maryland, and travel from the
20 Wellness Connection of Maine, USA. RD, that
21 refers to Rebecca DeKeuster. Is that correct?

22 A Yes.

23 Q Okay. Was employed with the Wellness
24 Connection of Maine, which operates cannabis
25 dispensaries. Similarly, LP and SL, that's Leah

1 Parkinson and Shane Li~~y~~nn, are employed with the
2 Champlain Valley Dispensary, USA. MB, SDN, and
3 ATA, that's Alexander Abess, Stephanie D.
4 Nichols, and Monica Beals, declare no
5 conflicting interests. And would you agree with
6 me that in this paragraph of declaration of
7 conflicting interest, there's no statement by
8 you declaring the conflict of interest that you
9 had in 2017 by virtue of your financial interest
10 in the cannabis industry?

11 A That's correct, but, you know, I would
12 really have to check to see. I was involved in
13 the cannabis dispensary, I believe, in New
14 Hampshire, but I'd have to just check the dates
15 to see when I started with that. I just can't
16 remember.

17 Q Okay. So when I asked you, in 2017,
18 did you have a financial interest in the
19 cannabis industry and you responded, yes, that
20 was not true. Is that what you're saying, or
21 you're not sure if that was true?

22 A I'm absolutely not sure.

23 Q Okay. And you would agree with me that
24 it says here, Similarly LP and SL are employed -
25 - excuse me.

1 MS. RACE: Objection.

2 MR. KENNEALLY: Strike that. I'm going
3 to go -- do you need me to clarify? Is that
4 what you're asking?

5 MS. RACE: I just want to make sure
6 that if you're asking the witness to verify that
7 you've read something correctly, I don't know,
8 is this in front of him? Is this study in front
9 of him?

10 JUDGE JULIUS: I don't believe so.

11 MR. KENNEALLY: Okay.

12 JUDGE JULIUS: Are you just --

13 MS. RACE: That's fine.

14 JUDGE JULIUS: Reading from it, Counsel?

15 MR. KENNEALLY: Yeah, I am, Judge.

16 JUDGE JULIUS: I don't think I even
17 have a copy of it, so I'm just listening.

18 MR. KENNEALLY: Okay.

19 JUDGE JULIUS: And do I understand
20 correctly? Is this in evidence yet, or --

21 MR. KENNEALLY: It's not.

22 JUDGE JULIUS: Okay. I just wanted to
23 make sure I wasn't missing something.

24 MS. RACE: To the extent that counsel
25 is asking the witness to verify that he's

1 reading correctly, that would not be
2 permissible, since the witness doesn't have a
3 copy in front. To the extent he's asking
4 questions about the veracity of the study or his
5 experiences with the study, I don't object to
6 that.

7 JUDGE JULIUS: Okay.

8 MS. RACE: But I think the question
9 was, you would agree with me this is what it
10 says? And that's the reason for my objection.

11 MR. KENNEALLY: He's an author on the
12 study, Your Honor, so I would expect him to know
13 what's in it.

14 THE WITNESS: Yeah, but it was 10 years
15 ago, and --

16 JUDGE JULIUS: Hold on, hold on, sir.

17 THE WITNESS: Sorry.

18 MR. KENNEALLY: You know what? I have
19 a copy for the good doctor.

20 JUDGE JULIUS: Okay. Thank you.
21 That'll resolve everything. Thank you.

22 MR. KENNEALLY: All right. Judge, how
23 would you like me to mark this?

24 JUDGE JULIUS: You can do ~~DIUD~~ DUID Victim
25 Voice~~s~~.

1 MR. KENNEALLY: May I give this to him?

2 JUDGE JULIUS: Yeah, that's fine. And
3 whatever the next number, unless it's a proposed
4 exhibit, however you want to number it
5 sequentially, we can do it for identification.
6 Looks like DUID Voices has Proposed Exhibits 1
7 through 84 is what I have.

8 MR. KENNEALLY: Your Honor?

9 JUDGE JULIUS: Yes.

10 MR. KENNEALLY: I have a copy for Your
11 Honor.

12 JUDGE JULIUS: Oh, thank you so much.
13 So I guess we're marking this as DUID 85?

14 MR. KENNEALLY: 85.

15 JUDGE JULIUS: For identification.
16 Thank you, Counsel.

17 (Whereupon, the above-referred to
18 document was marked as ~~DUID~~ DUID Exhibit No. 85
19 for identification.)

20 THE WITNESS: Hey, thanks.

21 MR. KENNEALLY: All right, and if you
22 go to the end there and you looked at the
23 conflicting -- Doctor, did I give you my copy?
24 Is there handwriting on there?

25 THE WITNESS: Yeah. You want this one?

1 BY MR. KENNEALLY:

2 Q Yeah. Can I have that back.

3 A Of course.

4 MR. KENNEALLY: Your Honor, would you
5 mind sharing with the witness just for one
6 second?

7 JUDGE JULIUS: Sure. Just for
8 everyone's awareness, I did write at the bottom
9 lower-hand corner DUID 85 ID. So that's the
10 only alteration I've made.

11 THE WITNESS: Thank you.

12 MR. KENNEALLY: Thanks. You know what?
13 I've lost my copy. Oh, I see. Approach, Your
14 Honor?

15 JUDGE JULIUS: Of course.

16 MR. KENNEALLY: I gave it back to Your
17 Honor.

18 JUDGE JULIUS: Oh, okay. Would you
19 like him to use that one?

20 MR. KENNEALLY: That's fine. Either
21 one.

22 JUDGE JULIUS: You can keep it, sir.

23 THE WITNESS: All right. Thanks.

24 MR. KENNEALLY: All right. Let's get
25 back to it. All right, now we've been talking

1 just about declaration of the conflicting
2 interest, and I'm on page 7 of the study and
3 just the very last sentence it says, MB, SDN,
4 and ATA declare no conflicting interests. So to
5 the extent that you did not have conflicting
6 interests in 2017, it would've been declared
7 there, correct?

8 THE WITNESS: What page are you on,
9 sir? The last one -- 7?

10 BY MR. KENNEALLY:

11 Q The bottom of page 7, declaration of
12 conflicting interests.

13 A Yes, and I'll just say that I would
14 really need to check --

15 MR. KENNEALLY: Objection, non-
16 responsive.

17 MS. RACE: Your Honor --

18 JUDGE JULIUS: I'm sorry, what was the
19 last question that was posed?

20 MR. KENNEALLY: That if he had a
21 conflicting interest to declare in 2017, it
22 would've been there. His answer was yes.

23 MS. RACE: Your Honor, if I could be
24 heard.

25 JUDGE JULIUS: Okay.

1 MS. RACE: I believe that the witness
2 was qualifying his answer and he should have the
3 ability to do so if the answer is responsive to
4 the question.

5 JUDGE JULIUS: Okay, so your answer to
6 that question was yes?

7 THE WITNESS: Well, I'm just a little
8 confused about something. I apologize. I would
9 need to probably look at my -

10 MR. KENNEALLY: Judge, I have a limited
11 amount of time --

12 JUDGE JULIUS: I understand, Counsel.

13 MR. KENNEALLY: And I'm on the clock,
14 and to the extent that the witness is confused
15 about something and wants your Court's advice or
16 otherwise, I just would ask that that not count
17 against my time, and I just --

18 JUDGE JULIUS: Understood.

19 MR. KENNEALLY: Okay.

20 JUDGE JULIUS: We can get a --

21 MR. KENNEALLY: Okay. I'd like to ask
22 another question.

23 JUDGE JULIUS: Go ahead, sir. Did you
24 have anything to add to your --

25 THE WITNESS: Well, just that the --

1 the only conflict of interest I would have would
2 be with my involvement in Prime, which was the
3 progenitor to Granite Leaf, and I would just
4 have to look at my professional time line to see
5 when I got involved in that to see if, in fact,
6 it was inadvertently admitted that I had a -- a
7 conflict of interest. That's all I'm trying to
8 say. It was certainly not through any conscious
9 obfuscation.

10 MR. KENNEALLY: Okay. Now, this was a
11 study where people were recruited from a
12 cannabis dispensary, is that correct?

13 THE WITNESS: Yes.

14 BY MR. KENNEALLY:

15 Q All right. And it involves a number of
16 participants who essentially were already using
17 cannabis, correct?

18 A Possibly. It could be that they were
19 new users and cannabis naïve.

20 Q Okay, but many of the --

21 A I don't think that was characterized.

22 Q Okay, but the people that were
23 recruited were recruited from a dispensary that
24 they showed up to voluntarily, correct?

25 A Yes.

1 Q All right. And you would agree with me
2 that those who had tried marijuana previously
3 did not find it useful in treating any of their
4 medical conditions, didn't like marijuana,
5 stopped using marijuana, wouldn't be at the
6 dispensary to be recruited, correct?

7 A I can't say that would be correct.

8 Q Okay, so people that had tried
9 marijuana, stopped using marijuana, and are no
10 longer using marijuana or purchasing marijuana,
11 your statement is that they would go to a
12 dispensary and potentially be recruited into
13 this study?

14 A Yes.

15 Q Okay. And it's a one-time
16 retrospective survey, is that correct?

17 A I believe so.

18 Q All right. And there was no control?

19 A No, this was a survey.

20 Q Okay. And it was based on what people
21 could recall, correct?

22 A Yes, that's how surveys work.

23 Q There was no dosing data that was
24 collected.

25 A Correct.

1 Q All right, and did you attempt to
2 control for the diet of participants?

3 A No, there were no controls, sir.

4 Q Did you attempt to control for
5 exercise?

6 A There were no controls, sir.

7 Q Did you attempt to control for any sort
8 of lifestyle changes?

9 A There were no controls, sir.

10 Q All right, and this is one of the
11 studies that you have relied on, in your
12 opinion, that medical cannabis treats chronic
13 pain?

14 A This is an example of real world data,
15 and so it is very similar to any sort of post-
16 market surveillance survey data.

17 Q Okay. Another study that you mentioned
18 was Staci Gruber. Do you recall that?

19 A Yes.

20 Q All right. And is that study entitled
21 No Pain, All Gain: Interim Analysis From a
22 Longitudinal Observational Study Examining the
23 Impact of Medical Cannabis Treatment on Chronic
24 Pain and Related Symptoms? Is that the article
25 you were referring to?

1 A I would have to see the article, sir.
2 I read a lot.

3 MR. KENNEALLY: Okay. Please let the
4 record reflect that I'm marking this as DUID
5 Voices 86.

6 (Whereupon, the above-referred to
7 document was marked as DUID Voices Exhibit No.
8 86 for identification.)

9 JUDGE JULIUS: That would be the next
10 number, yes.

11 MR. KENNEALLY: Okay. Please let the
12 record also reflect that I'm tendering a copy --

13 MS. RACE: Thank you.

14 MR. KENNEALLY: To the DEA. May I
15 approach?

16 JUDGE JULIUS: Yes, you can give
17 everything to Mr. Phillips here. Thank you.

18 THE WITNESS: Thank you, Mr. Phillips.

19 MR. KENNEALLY: All right, now this is
20 another one of the studies that you had
21 mentioned yesterday, which you're relying on in
22 your conclusion that medical cannabis treats
23 chronic pain. This -

24 THE WITNESS: Excuse me. I'm sorry. I
25 didn't mean to interrupt.

1 BY MR. KENNEALLY:

2 Q Okay. This study involved how many --
3 what was the sample size?

4 A It was quite low. I believe it was 37
5 patients.

6 Q Was there a control?

7 A Yes.

8 Q There was a placebo?

9 A No.

10 Q Okay, and this study also found that
11 medical cannabis improved anxiety of the 37
12 small sample size participants, correct?

13 A I'd have to review the data and
14 results. I was mainly interested in the impact
15 on chronic pain, not the related symptoms. Do
16 you want to give me a chance to look at the
17 anxiety scores?

18 Q Sure. Could you look at the abstract?
19 Because it says --

20 A Well, there's highlighting over part of
21 it. It's hard to read, but I'll do my best
22 here. The inter --

23 MS. RACE: Your Honor, to the extent
24 that the Objection -- if I may be heard.

25 JUDGE JULIUS: Yeah.

1 MS. RACE: To the extent that the
2 witness has a copy that has highlight on it,
3 I'll just note that -- I'm sorry. I retract
4 that. Wrong copy. My apologies, Counsel.

5 JUDGE JULIUS: Yeah, I see it does
6 appear darker gray on the black and white
7 photocopy image. But I do see that there is
8 certain text throughout the document that does
9 appear to be what would be highlighted, but is
10 reflected as darker gray box over the text.

11 MS. RACE: Just wanted to make sure
12 we're looking at the same version. Thank you.

13 THE WITNESS: Okay.

14 MR. KENNEALLY: Doctor, would you agree
15 with me that the 37 patients showed an
16 improvement in anxiety?

17 THE WITNESS: Let me look under the
18 results and see, because I just want to be as
19 exact as possible.

20 BY MR. KENNEALLY:

21 Q Doctor, let me draw your attention to
22 page 4.

23 A Okay, great. Thanks. I appreciate the
24 help.

25 Q And it's subheading at the very bottom,

1 pain rating versus mood, anxiety, and sleep
2 ratings. And it says, Correlation in - and it
3 says at the very bottom. You with me?

4 A Yeah, I got it. Thank you so much.

5 Q Correlation analysis examining the
6 relationship between improvements from baseline
7 to three months of medical cannabis treatment on
8 pain symptoms and clinical ratings of mood,
9 anxiety, and sleep revealed improvements of
10 pain-related distress were significantly
11 associated with -- Oh, I can't read that. No.
12 I withdraw the question. All right, now,
13 Doctor, one of the other studies that you
14 mentioned was the National Academy of Science.
15 Is that correct?

16 A The National Academies of Science,
17 Engineering, and Medicine from --

18 Q Systematic review from 2017, correct?

19 A Yes. Yep, yep.

20 Q All right, and if I recall your
21 testimony from yesterday you indicated that it
22 provided extremely good evidence to support
23 cannabis for chronic pain. Is that correct?

24 A I'm sorry, but the previous question,
25 you said the study, and that publication was not

1 a study.

2 Q Systematic review. I apologize.

3 A Okay.

4 Q I'll rephrase, it's a systematic
5 review, 2017. If I refer to it as a study, I
6 mean systematic review. Okay?

7 A Going forward, yes.

8 Q Yes. Okay. So would you agree with me
9 that yesterday you said that that provided
10 extremely good evidence that cannabis treats
11 chronic pain, correct?

12 A I would have to see what I said
13 yesterday, but I concur with your summary that I
14 felt it was a very favorable demonstration of an
15 accepted medical use.

16 Q Okay. And you're very well familiar
17 with this study, correct?

18 A I am.

19 Q Acutely aware of it.

20 A Well, of the review, not the study per
21 se. It lists several hundred studies.

22 Q But you've read the study. You've read
23 the systematic review.

24 A I read all 440 pages of it, correct.

25 Q Okay. And you're aware, and in the

1 course of your treatment, one of the things that
2 you want to familiarize yourself with is not
3 just the clinical evidence in support of a
4 favorable indication, but you also want to
5 familiarize yourself with the dangers of
6 prescribing that type of medication, correct?

7 A Well, well, the danger's not of
8 prescribing it but the danger is of a patient
9 ingesting that medicine.

10 Q Okay.

11 A Right. There's no danger in
12 prescribing it.

13 Q All right. And you're aware that the
14 National Academy of Sciences found substantial
15 evidence that marijuana use significantly and
16 this is the systematic review, so if I said
17 study, I meant systematic review. In 2017,
18 National Academy of Sciences systematic review
19 found significant -- excuse me, substantial
20 evidence that marijuana use significantly
21 increased the risk of psychosis and
22 schizophrenia. You're aware that that was one
23 of the findings, correct?

24 A I am.

25 Q Okay. And you're aware that they said

1 that it was most apparent and that the
2 connection was closest with most frequent users,
3 correct?

4 A When you say connection, we're talking
5 correlation, and that would be correct.

6 Q Okay.

7 A I'm sorry to parse your words, but
8 words matter quite a bit.

9 Q I appreciate that. You would have made
10 a great lawyer, Doctor. Everyday users are the
11 users that have the most or -- you would agree
12 with me that most frequent users would include
13 everyday users as opposed to monthly users or
14 people that use annually, correct?

15 A Yes.

16 Q All right. And when we're talking
17 about chronic pain, those are probably the type
18 of patients that are likely to use most because
19 they suffer from chronic pain, which is regular
20 pain ongoing out into the future. Would you
21 agree with that?

22 A I don't understand the question. I'm
23 sorry.

24 Q Well, you would agree that -- well, for
25 any of your chronic pain patients, do you

1 recommend use every day?

2 A Use of medication or marijuana
3 specifically?

4 Q Marijuana, medical marijuana. Mm-hmm.

5 A It depends on the patient. I don't
6 recommend -- it's -- pain management is such
7 that you should take medicine when you have
8 pain.

9 Q For any of your chronic pain patients,
10 do you personally recommend use every day?

11 A Not necessarily.

12 Q Okay. Have you ever recommended use
13 every day for one of your chronic pain patients?

14 A Oh, yes.

15 Q Okay.

16 A Absolutely.

17 Q And about how many of the thousands
18 that you've treated?

19 A I would say the majority.

20 Q Okay. Now, you're aware that the
21 National Academy of Sciences found that cannabis
22 use increased the risk of development of
23 depressive disorders, correct?

24 A There is a correlation, yes.

25 Q Okay. And you're aware that the

1 National Academy of Sciences in their 2017
2 systematic review, which you cited, found that
3 cannabis use increased the incidence of suicidal
4 ideation and suicide attempts, correct?

5 A That's correct, but we can't confound
6 correlation with causation. That's --

7 Q And it found further that the suicidal
8 connection was higher with the incidence of use.
9 In other words, heavier users had an increased
10 risk of suicidal ideation, correct?

11 A In some studies in that review, that is
12 correct.

13 Q Okay. And you're aware that the
14 National Academy of Sciences in their 2017
15 review found that cannabis use increased the
16 risk of suicidal completion, correct?

17 A I'd have to look at that study again.
18 It's been a while.

19 Q So you're not aware, as you sit here
20 today?

21 A No, I didn't say I'm not aware. I said
22 I would need to look at that study to confirm
23 your question.

24 Q Do you advise your -- are you aware, as
25 you sit here today, that the National Academy of

1 Sciences found that there is an association
2 between cannabis use and completion of suicide?
3 As you sit here today.

4 A No.

5 Q Okay. So then do you advise your
6 patients when you're providing them with medical
7 cannabis, do you advise them that there's an
8 association between the use of this product,
9 which I'm giving you, and them completing
10 suicide?

11 A Yes.

12 Q So then you're aware that there is a
13 con --

14 A I'm so sorry. Can I --

15 Q I'm going to withdraw the question.

16 A Can I correct my last answer?

17 Q There's no question pending, Your
18 Honor.

19 JUDGE JULIUS: If he has, well --

20 MR. KENNEALLY: Doctor --

21 JUDGE JULIUS: Wait for a question.

22 MR. KENNEALLY: Doctor, you're aware
23 that the National Academy of Sciences found that
24 cannabis use impairs cognitive domains of
25 learning, memory, and attention, correct?

1 THE WITNESS: Incorrect.

2 BY MR. KENNEALLY:

3 Q Okay, you do not know that.

4 A Could you repeat the question? I'm
5 sorry.

6 Q Okay. You're aware that the National
7 Academy of Sciences 2017 found that there was
8 evidence that cannabis use impairs cognitive
9 domains of learning, memory, and attention,
10 correct?

11 A No, that's not correct.

12 Q Okay. Not correct in that you're not
13 aware of it?

14 A No, again, it's a paper that I would
15 need to look at, but I don't believe it states
16 that it could impair it. I believe it states
17 that there is an association with it because
18 impair implies causation.

19 Q Let me rephrase the question.

20 A And causation is totally different than
21 correlation.

22 Q Fair enough. Would you agree that the
23 National Academy of Sciences, in their 2017
24 systematic review, they found that there is
25 moderate evidence of a statistical association

1 between cannabis use and the impairment of
2 cognitive domains of learning, memory, and
3 attention?

4 A Yes. Association is the operative
5 word.

6 Q Now, as somebody who's acutely aware of
7 the research and, of course, is concerned about
8 patient safety, you're aware of the 2025 study
9 by the American College of Cardiology, who,
10 after reviewing 4 million records, found that
11 marijuana users ages 18 to 50 had six times
12 higher odds of experiencing heart attack, four
13 times higher odds of ischemic stroke, double the
14 risk of heart failure, and three times the risk
15 of experiencing a major cardiovascular event.
16 Are you aware of that study?

17 A I am aware of that study.

18 Q And when you counsel your patients, and
19 when you say, okay, we'd like to get you on a
20 regimen of medical cannabis. We think it's
21 going to help you with your chronic pain, do you
22 say, oh, and by the way, taking this drug could
23 increase your risk of a heart attack by a factor
24 of six?

25 A Well, I never say by the way when I'm

1 discussing risks, first of all. And second of
2 all, this data is very complex, and as one would
3 understand, there are very many compounded
4 confounding variables when dealing with
5 administering any drug and then looking at other
6 potential problems. For example, you know, with
7 cardiac issues, if there is concurrent tobacco
8 history, a family history of coronary disease
9 these are called confounding variables. So, I
10 always talk to patients about the potential
11 risks of cardiogenic effects of marijuana, but I
12 always do it in the context of eliciting other
13 risk factors that could potentially imply that
14 that patient is at risk.

15 Q Okay. So the American College of
16 Cardiology, that study didn't control for
17 smoking. Is that what you're saying here today?

18 A I would need to look at the study to
19 refresh --

20 Q As you sit here today, the American
21 College of Cardiology, do you know, as you sit
22 here today, whether or not that study controlled
23 for smoking?

24 A Well, as I just said, I don't know
25 because I'd need to review the study.

1 Q Okay. And as you sit here today, do
2 you know whether or not that study controlled
3 for any of the other "confounding factors" that
4 you just talked about?

5 A As I sit here today, I can't
6 categorically say that I know that in that I may
7 have read this study, you know, a while ago, and
8 I would need to refresh myself to see what the
9 limitations of the study were, sir.

10 Q What is hyperemesis syndrome?

11 A Cannabis hyperemesis syndrome is a
12 protracted situation where episodic or, what we
13 call in medicine, idiosyncratic use, that is,
14 just indiscriminate use, or without a history
15 thereof, of somebody using marijuana developing
16 intractable vomiting.

17 Q Daily use?

18 A Not necessarily.

19 Q Could it be daily use?

20 A Yes, of course.

21 Q Okay. And it's an intractable form of
22 vomiting that can last days?

23 A Yes.

24 Q Okay, have you ever heard the term
25 scromiting?

1 A No.

2 Q Okay. Well, it's a conflation of the
3 word screaming and vomiting to describe
4 hyperemesis syndrome. You've never heard that?

5 A Doesn't sound like a medical term to
6 me, sir.

7 Q Okay. And would you consider
8 hyperemesis syndrome, as you described cannabis
9 withdrawal, to be -- and when you're throwing
10 up, screaming for days on end, would you
11 consider that to be the last embers of a burning
12 fire?

13 MS. RACE: Objection. Objection, Your
14 Honor. I think that's vague.

15 MR. KENNEALLY: I'll withdraw the
16 question.

17 JUDGE JULIUS: Thank you, Counsel.

18 MR. KENNEALLY: Prior to coming here
19 today, have you considered the clinical research
20 showing that prior cannabis use increases the
21 risk of opioid use?

22 THE WITNESS: Can you repeat the
23 question, please?

24 BY MR. KENNEALLY:

25 Q Okay. Yesterday, you talked about how

1 you think that medical cannabis can be a good
2 drug to transition people off of opioid use,
3 correct?

4 A Yes.

5 Q Okay. Are you familiar with Wilson et
6 al. 2022 in the Journal of Addiction entitled
7 Weeding Out the Truth: A Systematic Review and
8 Meta-Analysis on the Transition from Cannabis
9 Use to Opioid Use and Opioid Use Disorders,
10 finding that those with prior cannabis use were
11 2.5 times more likely to develop opioid use
12 disorder? Are you familiar with that study,
13 sir?

14 A Well, not being an addictionologist, I
15 generally don't read that literature.

16 Q Okay. So, studies showing that
17 cannabis use actually increases the risk of
18 developing an opioid use disorder, that's
19 literature that you don't read and are
20 impervious to?

21 A I would have to look at that article.
22 I'm very skeptical of the validity of that
23 article, sir, and I have not read it, I can tell
24 you that.

25 Q All right. Well, try this one. Are

1 you familiar with ~~Olsen~~ Olfson et al., 2018² in
2 the American Journal of Psychiatry? Do you
3 consider that to be an authoritative journal?

4 A Yes.

5 Q Okay. Entitled Cannabis Use and Risk of
6 Prescription ~~Perception~~ Opioid Use Disorder in
7 the United States, finding after analysis of a
8 national pool that cannabis use was associated
9 with increased development of non-medical
10 prescription opioid use and opioid use disorder.
11 Are you familiar with that study, sir?

12 A I believe I am.

13 Q Okay. Are you familiar with Ferguson
14 et al., 2006 in the Journal of Addiction
15 entitled Cannabis Use and Other Illicit Drug
16 Use: Testing the Cannabis Gateway Hypothesis,
17 finding as part of a 25-year birth cohort study
18 in New Zealand that the frequency of cannabis
19 use was significantly associated with the use of
20 other illicit drugs and other illicit drug abuse
21 dependence issues? Are you familiar with that
22 study, sir?

23 A Yes, and in the 14-year interval since
24 that publication, that data has been discounted
25 by many other subsequent studies.

1 Q Okay. Well, here's one from 2015. Are
2 you familiar with ~~Cicadas versus Villa Secades-~~
3 ~~Villa~~ et al., as I said, 2015, in the
4 International Journal of Drug Policy entitled The
5 Probability and Predictors of the Gateway Effect:
6 A National Study, finding that cannabis users had
7 higher rates of progression to other illicit drug
8 use, including opioids? Are you familiar with
9 that study, sir?

10 A I believe I read that, and again, in
11 the intervening 11 or 12 years since that study,
12 multiple studies have refuted the basis -

13 Q Didn't you just say that you were
14 unfamiliar with the literature with regard to
15 the rate of cannabis use and how that
16 transitions into opioid use? I mean, didn't you
17 just say that that is not the literature that
18 you viewed?

19 (Simultaneous speaking.)

20 A No, I believe I said I believe I said
21 that I'm not an addictionologist, and I don't
22 generally read, you know, the Journal of
23 Addiction Medicine.

24 Q Okay.

25 A That's what I said.

1 Q Okay. Do you agree with me that
2 there's no statistical association based on
3 studies between reduced opioid overdose deaths
4 and marijuana legalization either medically or
5 recreationally?

6 A I'm sorry, can you repeat this
7 question?

8 Q Sure. Do you agree with me that
9 there's no clinical evidence to support the
10 hypothesis that legalization of marijuana,
11 either medically or legally, reduces the amount
12 of opioid overdose in that state? Do you agree
13 with me on that?

14 A It's a very controversial topic. I'm
15 not being thick here, maybe it's just a little
16 fatigue. Can you repeat the question just a bit
17 more slowly? Because there's a lot of different
18 variables in it. I'm sorry.

19 Q I talk fast.

20 A You do.

21 Q Do you agree with me that there's no
22 clinical evidence to support the hypothesis --
23 you with me?

24 A Mm-hmm.

25 Q Okay. That states which legalize

1 cannabis either recreationally or medically --
2 you still with me?

3 A Mm-hmm.

4 Q Okay. That that reduces the number of
5 opiate overdose deaths in that state. Do you
6 understand the question?

7 A No, I don't. I'm sorry.

8 Q Okay.

9 A I don't understand your question.

10 Q So where did you lose me?

11 A You're asking me if I agree.

12 Q Do you agree?

13 A I'm so sorry. You're asking me if I
14 agree that there are studies that exist --

15 Q No. No, no. Do you agree that there
16 is no clinical evidence, medical studies or
17 otherwise, to support the hypothesis? Okay? Do
18 you agree no clinical studies support the
19 hypothesis that legalizing cannabis in a state
20 reduces opioid deaths in that state?

21 A No. There, I think I finally got it,
22 sorry. There do exist publications that
23 demonstrate, that postulate that the enactment
24 of medical cannabis laws decrease opioid use.

25 Q Terrific. What are they?

1 A Well, the landmark one and the one I
2 used to hang my hat on is Bachhuber from JAMA, I
3 think in -- I don't know -- the mid -- 2014 or
4 somewhere around there. And interesting, and I
5 was really excited when I heard that, but I
6 think that study was refuted.

7 Q Okay. So the study that you're
8 referring to to support your position was
9 refuted, correct?

10 A Well, I didn't say it was my position.

11 Q Okay.

12 A I never -- I don't believe I stated
13 that use of medical cannabis in states that
14 authorize it reduced opioid deaths.

15 Q Yeah, but it stands to reason, though,
16 right? Like, if what you're saying is that
17 people can transition off of opioids, which have
18 far worse side effects and withdrawal symptoms,
19 and they can transition to marijuana, it would
20 stand to reason that if you legalize cannabis
21 recreationally and medically, made it more
22 available to people to use as opposed to their
23 opioids, that opioid deaths would be reduced.
24 No?

25 A That's exactly correct, but the

1 Bachhuber study, and the reason it was refuted
2 was, you know, the operative word is people, and
3 they looked at populations. They looked at
4 numbers. They didn't examine people.

5 Q And it would stand.

6 A And that's really the sticking point.

7 Q And it would stand to reason that if
8 cannabis did not effectively treat pain, that
9 people who needed opioids for their pain would
10 not transition off of opioids to cannabis,
11 correct?

12 A You know, maybe it's just the manner
13 and the way you're presenting the questions.
14 It's a bit tortuous for me to kind of dissect
15 what you're trying to ask me.

16 Q Are you familiar with the study Shover
17 et al., published in PNAS 2019, entitled
18 Association Between Medical Cannabis Laws and
19 Opioid Overdose Mortality Has Reversed Over
20 Time, finding that there was no evidence that
21 recreational cannabis laws were associated with
22 changes in opioid overdose mortality?

23 A Yeah.

24 Q Are you familiar with that study?

25 A I actually am, and it's because the

1 data was looking at population numbers and not
2 individual patients.

3 Q Okay. Are you familiar with Segura et
4 al., 2021? This was an NSDUH -- this was a
5 federal study published in the International
6 Journal of Drug Policy entitled Association
7 Between Fatal Opioid Overdose and State Medical
8 Cannabis Laws in the U.S. National Survey Data,
9 2000 to 2011, finding no overall association
10 between state medical cannabis laws and fatal
11 opioid overdose deaths. Are you familiar with
12 that study, sir?

13 A I am.

14 Q Okay. Are you familiar with ~~Alkoser~~ Alcocer
15 2020 in Public Health, entitled Exploring the
16 Effects of Colorado's Recreational Marijuana
17 Policy on Opioid Overdose Rates, finding after
18 analyzing data from 1999 through 2017 no impact
19 of recreational legalization on opioid deaths in
20 Colorado? Are you familiar with that study?

21 A I believe I read it, but I'd have to
22 refresh myself and look at all the study design
23 aspects of it to judge its merits of validity.

24 Q Okay. Are you familiar --

25 MS. RACE: Your Honor, if I could just

1 a point of clarification? It's noon for the
2 noon break. Is this something -- are we going
3 to continue going? Should we plan on a break
4 for purposes of scheduling one?

5 MR. KENNEALLY: Judge, I got one more
6 question.

7 JUDGE JULIUS: We discussed -- just one
8 more question? I was going to say, you have --
9 (Simultaneous speaking.)

10 MR. KENNEALLY: I got one more
11 question, and then we can take a break.

12 JUDGE JULIUS: Okay. I was going to
13 say you have 18 more minutes. I didn't know if
14 you wanted to just finish off, and then we can
15 take lunch then --

16 MS. RACE: Thank you.

17 JUDGE JULIUS: And shift it back. I
18 don't -- I understand the difficulties of
19 bifurcating sometimes. So if you just have one
20 more question.

21 MR. KENNEALLY: I just have one more
22 question. I really appreciate the Court's
23 indulgence.

24 JUDGE JULIUS: Sure, absolutely. I
25 just want to make sure we're all on the same

1 page. And so would that conclude the DUID
2 Victim Voices?

3 MR. KENNEALLY: Not sure.

4 JUDGE JULIUS: Okay.

5 MR. KENNEALLY: I'm not sure if I could
6 just have a moment with counsel to talk about
7 that.

8 JUDGE JULIUS: Sure. No problem.

9 MR. KENNEALLY: Okay. Appreciate it,
10 Judge.

11 JUDGE JULIUS: Please continue,
12 Counsel.

13 MR. KENNEALLY: All right.

14 JUDGE JULIUS: Yes, I'm flexible.

15 MR. KENNEALLY: All right. So you have
16 not had a chance to review Alkoser ~~Alcocer~~ and
17 determine whether or not you find the methodology
18 sufficient?

19 THE WITNESS: Correct.

20 BY MR. KENNEALLY:

21 Q Are you familiar with Matheur and Rhum
22 ~~Room~~, 2023, in the Journal of Health Economics,
23 entitled Marijuana Legalization and Opioid
24 Deaths, and finding after an in-depth analysis
25 over 1999 to 2019, the authors concluded that

1 reducing opioid mortality is not among the
2 benefits of legalizing medical or recreational
3 marijuana? 2023 study. Are you familiar with
4 that one?

5 A I would have to review that to see if I
6 read it. I can't recall. I'm sorry.

7 Q Do you know if you considered that
8 prior to testifying here today?

9 A Could you ask the question again?

10 Q Do you know if you considered that
11 study prior to testifying here today?

12 A I am not aware that I did.

13 MR. KENNEALLY: I'd request that we
14 break for lunch, Your Honor. I'll talk with Mr.
15 Evans with respect to the remainder of the 18
16 minutes, and we should have an answer for you
17 first thing when we get back from lunch.

18 JUDGE JULIUS: Sounds like a plan.

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

22 MR. EVANS: Good afternoon, Your Honor.

23 JUDGE JULIUS: I know before we took
24 the lunch break, there was discussion about how
25 you and your co-counsel might split up the time

1 this afternoon.

2 MR. EVANS: I think I --

3 JUDGE JULIUS: I don't see your co-
4 counsel here. Do we --

5 MR. EVANS: He's --

6 JUDGE JULIUS: -- just get you this
7 afternoon?

8 MR. EVANS: -- he's gone. He's gone.
9 And we have 18 minutes left. I will do what I
10 can to --

11 MS. RACE: Object. Okay, sorry.

12 JUDGE JULIUS: I was just going to say,
13 you get a full hour for --

14 MR. EVANS: Oh, I do?

15 JUDGE JULIUS: Dr. Finn. Yeah. He was
16 just using the DUID Victim Voices time.

17 MR. EVANS: Oh, I misunderstood.

18 JUDGE JULIUS: You have 18 minutes of
19 that.

20 MR. EVANS: Oh, wow.

21 JUDGE JULIUS: And you have a whole
22 hour for Dr. Finn.

23 MR. EVANS: I would love to explore the
24 marijuana space.

25 JUDGE JULIUS: You have a full hour,

1 sir.

2 MR. EVANS: I don't even know if I'll
3 take a whole hour, but --

4 JUDGE JULIUS: Well, you have more than
5 18 minutes.

6 MR. EVANS: Oh, great.

7 JUDGE JULIUS: All right.

8 MR. EVANS: That's terrific. Your
9 Honor, Mr. Kenneally presented some exhibits to
10 the Court, and he would like me to move that
11 they be accepted in evidence. I think we marked
12 them.

13 JUDGE JULIUS: So we had for
14 identification DUID Victim Voices 85 and 86, I
15 believe. Is that correct, Mr. Phillips?

16 MR. PHILLIPS: Correct.

17 JUDGE JULIUS: Mr. Phillips? Okay.

18 MR. PHILLIPS: Correct.

19 JUDGE JULIUS: Any objection to DUID 85
20 and 86?

21 MS. RACE: Your Honor, I may. I'm just
22 looking for those copies right now. Would they
23 be there? Thank you. If Your Honor would just
24 give us one minute to separate the SAM versions
25 from -- no, I don't see them either. If we can,

1 for the record, identify which ones we are
2 talking about.

3 JUDGE JULIUS: 86 is an article,
4 Experimental and Clinical Psychopharmacology is
5 the main title. No Pain, All Gain: Interim
6 Analyses From a Longitudinal Observational Study
7 Examining the Impact of Medical Cannabis
8 Treatment on Chronic Pain and Related Symptoms.
9 I believe 85 the witness had my copy. I don't
10 have it in front of me.

11 MS. RACE: Oh.

12 MR. EVANS: If you would --

13 JUDGE JULIUS: If you have it there,
14 thank you, sir.

15 MS. RACE: I'm sorry, Your Honor.

16 DR. BURCHMAN: Is that the one?

17 JUDGE JULIUS: No.

18 MS. RACE: Yes.

19 JUDGE JULIUS: It's the other one. I
20 have that one.

21 MS. RACE: I have located my copies.

22 JUDGE JULIUS: Oh, thank you, sir.

23 MS. RACE: So 85 --

24 DR. BURCHMAN: I don't know which one
25 it is.

1 MS. RACE: -- is the Piper study that
2 Dr. Burchman testified that he was familiar
3 with, so we have no objection to that.

4 DR. BURCHMAN: Yes, he's --

5 MS. RACE: He's the author.

6 JUDGE JULIUS: I'm so sorry. Ms. Race,
7 if you could repeat that.

8 MS. RACE: Yes, I'm sorry. I should
9 have paused.

10 JUDGE JULIUS: I was shuffling papers
11 with the witness. I apologize.

12 MS. RACE: Exhibit 85 is the Piper
13 study from 2017, of which Dr. Burchman is an
14 author. We have no objection to that.

15 JUDGE JULIUS: Okay, 85 will be
16 admitted.

17 (Whereupon, the above-referred to
18 document marked as DIUD Victim Voices's Exhibit
19 No. 85 was received into evidence.)

20 MR. EVANS: Thank you, Your Honor.

21 MS. RACE: And 86 is the Gruber study
22 that Dr. Burchman testified about on direct, and
23 we have no objection to that either.

24 JUDGE JULIUS: Very good. DIUD Victim
25 Voices 86 will also be admitted.

1 (Whereupon, the above-referred to
2 document marked as DUID Victim Voices's Exhibit
3 No. 86 was received into evidence.)

4 MS. RACE: Thank you.

5 JUDGE JULIUS: So thank you both.
6 Appreciate that. That did not come out of your
7 time, by the way, Mr. Evans.

8 MR. EVANS: I don't think I'm going to
9 go a whole hour.

10 JUDGE JULIUS: Just wanted to make sure
11 you knew.

12 MR. EVANS: Okay.

13 JUDGE JULIUS: Whenever you're ready,
14 sir.

15 CROSS-EXAMINATION

16 MR. EVANS: Thank you. Doctor,
17 yesterday, is it correct that you characterized
18 withdrawal from opiates as a dumpster fire?

19 THE WITNESS: Yes.

20 BY MR. EVANS:

21 Q What did you mean by dumpster fire?

22 COURT REPORTER: I'm sorry, can you
23 push the microphone back? A little bit further?

24 THE WITNESS: Further? Okay.

25 COURT REPORTER: That's great.

1 JUDGE JULIUS: Thank you.

2 THE WITNESS: The colloquial term
3 dumpster fire in medicine refers to a chaotic,
4 extremely noxious and unstable situation.

5 MR. EVANS: Okay. But it is somewhat
6 contained because it's in a dumpster, correct?
7 Usually those are metal containers.

8 THE WITNESS: It's an analogy, sir, not
9 a literal characterization of the situation.

10 BY MR. EVANS:

11 Q Okay, so --

12 A Is this okay?

13 Q How did you characterize --

14 JUDGE JULIUS: One moment. I just want
15 to make sure that we get the microphone
16 positioned correctly for the record.

17 COURT REPORTER: We're getting your
18 breathing into it, can you try to move it away?

19 THE WITNESS: I could stop breathing.
20 (Laughter.)

21 JUDGE JULIUS: No, no. It should be
22 bendable.

23 THE WITNESS: How about that? Is that
24 good?

25 COURT REPORTER: Yes, thank you.

1 THE WITNESS: Okay. Sorry.

2 JUDGE JULIUS: Thank you. Thank you,
3 Mr. Evans. Resume when you're ready.

4 MR. EVANS: And if I'm correct, you
5 characterized withdrawal from marijuana as
6 glowing embers in a dying campfire?

7 THE WITNESS: Yeah, I think that's a
8 reasonable analogy.

9 BY MR. EVANS:

10 Q Okay, have you ever seen anybody in
11 psychosis?

12 A Yes.

13 Q And would you consider a psychosis
14 impact on a person's life the dying ember of a
15 campfire?

16 A No, not at all.

17 Q Would that be a dumpster fire?

18 A Could be.

19 Q It could be. Okay. Are you aware of a
20 paper called Psychosis Associated With Cannabis
21 Withdrawal: Systemic Review and Case Series,
22 published in the British Journal of Psychiatry?
23 Are you familiar with that study?

24 A What year is that, sir?

25 Q It would've been, I'm not sure if it

1 has a year on it. It's looks like it's 2024.
2 Fairly recent.

3 A I don't --

4 Q Perhaps after the NPRM -- well, could
5 be past the NPRM.

6 A I may have read it. I'm not sure.

7 Q Well, here's the conclusion of the
8 study, and you tell me if you agree with this.
9 Abrupt cannabis withdrawal may act as a trigger
10 for the first episode of psychosis and a relapse
11 of an existing psychosis. So, it's two things,
12 it can start one off or it can restart one.

13 MS. RACE: Objection.

14 JUDGE JULIUS: What's the objection?

15 MS. RACE: To the extent that this
16 question is seeking expert witness testimony in
17 the area of psychiatry or mental health that is
18 outside of the pain management expertise, I
19 object. To the extent that counsel's asking
20 about a factual question, we don't object to it,
21 but the witness has already indicated he doesn't
22 recall whether he read this study.

23 JUDGE JULIUS: Understood.

24 MR. EVANS: Well, Your Honor, if I may?

25 JUDGE JULIUS: Yes, if you'd like to

1 respond.

2 MR. EVANS: He clearly understands what
3 a dumpster fire is, and he's testified that a
4 psychosis could be a dumpster fire this could be
5 a manifestation of and he has testified about
6 withdrawal from opiates and withdrawal from
7 marijuana. They made no objection when he
8 talked about that.

9 JUDGE JULIUS: Understood. I just want
10 to get clarity. Are you asking him in his
11 capacity as a practicing physician or as an
12 expert on pain management and anesthesia?

13 MR. EVANS: I would say as a physician.
14 He's here in both capacities.

15 JUDGE JULIUS: He is.

16 MR. EVANS: Okay.

17 JUDGE JULIUS: I think the objection
18 was that he wouldn't be able to opine on that as
19 the expert in pain management or anesthesia.

20 MR. EVANS: Well, that's fine.

21 JUDGE JULIUS: But I will allow the
22 question.

23 MR. EVANS: Yeah.

24 JUDGE JULIUS: So long as it's
25 understood that the answer is in his personal

1 capacity as a fact witness.

2 MR. EVANS: Right, would the Court
3 recall that --

4 JUDGE JULIUS: Sustained in part, I
5 suppose with that understanding I'll allow the
6 question.

7 MR. EVANS: I have an objection to him
8 being considered an expert witness, which I have
9 not withdrawn.

10 JUDGE JULIUS: I understand.

11 MR. EVANS: Okay.

12 JUDGE JULIUS: Yes, and you may
13 continue to argue that in your --

14 MR. EVANS: Okay. All right.

15 JUDGE JULIUS: ~~Cross~~ Closing.

16 MR. EVANS: So, let's just pick up
17 again. It can start an episode of psychosis or
18 a relapse of an existing psychosis. Acute
19 psychotic symptoms can emerge after the
20 cessation, as well as, following the use of
21 cannabis. Do you agree with that?

22 THE WITNESS: I can't because in my
23 capacity as a pain management physician, the
24 cannabis withdrawal that I have witnessed is not
25 characterized by psychotic episodes. I'm not

1 saying they don't exist. I'm not a psychiatrist
2 or an addictionologist, so it's not really the
3 sphere in which I deal. I merely counsel
4 patients on the risk of cannabis use disorder
5 when taking cannabis on a long-term basis and
6 the sequelae thereof with respect to cessation
7 of those modalities.

8 BY MR. EVANS:

9 Q Okay, now, can long-term use of
10 cannabis result in psychosis?

11 MS. RACE: Same objection. Just fact
12 witness versus expert witness testimony.

13 JUDGE JULIUS: Understood. I'll allow
14 the question.

15 THE WITNESS: I don't know the answer
16 to that.

17 MR. EVANS: Okay. Have you ever, in
18 your marijuana world, ever seen a case of
19 cannabis-induced psychosis?

20 THE WITNESS: No.

21 BY MR. EVANS:

22 Q Okay, you spoke earlier of cannabis
23 hyperemesis syndrome. Do you recall that?

24 A Yes.

25 Q And you said that results can be long-

1 term vomiting.

2 A Well, protracted vomiting.

3 Q Protracted vomiting.

4 A Right.

5 Q Okay.

6 A Long-term implies over a span of weeks,
7 months, or years. Protracted, in the sense of
8 that syndrome, is it's fairly poorly
9 characterized but anywhere from 24 to 96 hours.

10 Q Okay. Can vomiting result in a
11 person's death?

12 A No.

13 Q Can anorexics who force themselves to
14 vomit and thereby depriving their body of
15 certain --

16 MS. RACE: Objection.

17 MR. EVANS: -- chemicals and so forth.

18 JUDGE JULIUS: Let's get the --

19 MR. EVANS: Well, this is a physical
20 question right now. It's not a psychiatric
21 question.

22 JUDGE JULIUS: Let's get the whole
23 question out and then --

24 MR. EVANS: Okay.

25 JUDGE JULIUS: Go ahead, Mr. Evans.

1 MR. EVANS: Okay, is it true that
2 anorexics, who vomit a lot, can deplete their
3 body of electrolytes?

4 THE WITNESS: Yes.

5 MS. RACE: Objection.

6 MR. EVANS: Okay. What is the
7 objection?

8 MS. RACE: My objection is you are
9 calling for expert witness testimony outside the
10 pain management designation.

11 MR. EVANS: That's not -- any doctor
12 should know this -- any doctor should know this.
13 This is not anything to do with psychiatry.

14 MS. RACE: It assumes facts not in
15 evidence. It's also not relevant, but
16 specifically, it seeks --

17 MR. EVANS: Well, I --

18 MS. RACE: A medical opinion that is
19 beyond his expertise as been designated here or
20 as the government requested his designation,
21 Your Honor.

22 JUDGE JULIUS: Understood. I'll allow
23 the question as to his practice as a physician,
24 to the extent he's able to answer it.

25 MR. EVANS: I will relate it.

1 JUDGE JULIUS: But I'll rule the
2 question is outside the scope of the provisional
3 expertise.

4 MR. EVANS: I will relate it to
5 cannabis.

6 JUDGE JULIUS: Perfectly. Thank you.

7 MR. EVANS: So, could an anorexic vomit
8 to the point where they deprive their body of
9 electrolytes, and could that result in death?

10 THE WITNESS: Theoretically, yes.

11 BY MR. EVANS:

12 Q Okay. Now, somebody that has cannabis
13 hyperemesis syndrome and is vomiting a lot,
14 would they be depriving their body of
15 electrolytes?

16 A Yes.

17 Q And could that result in death?

18 A I would think yes.

19 Q Are you aware of any literature
20 documenting deaths due to cannabis hyperemesis
21 syndrome?

22 A Yes.

23 Q Okay. I want to look at the conditions
24 approved in New Hampshire for marijuana. Now
25 you testified earlier that -- and tell me if I

1 got this wrong, that you wrote an article saying
2 that marijuana and glaucoma are not a good
3 match. Is that correct?

4 A Well, I didn't state not a good match.
5 I said, there seems to be a paucity of evidence
6 that marijuana use as a therapy for glaucoma is
7 questionable.

8 Q Isn't it true, Doctor, that the
9 American Glaucoma Society has said that using
10 marijuana can cause blindness if with somebody
11 with glaucoma? Do you understand the mechanism
12 there?

13 A Well, glaucoma in and of itself is a
14 factor in the loss of eyesight. If there's
15 concurrent use of marijuana, I am unaware of any
16 physiologic implication that marijuana would be
17 a contributory factor to the loss of retinal
18 function.

19 Q Well, you cited their position paper in
20 an article, and I suggest you go back and read
21 it, the going up and down when you use
22 marijuana, and just tell me if you agree with
23 this, the raising or lowering of the ocular
24 pressure, first of all, cannot be sustained with
25 marijuana because the effects of marijuana are

1 short-term. You'd have to be smoking a joint 24
2 hours a day. Is that correct?

3 A That's correct.

4 Q Okay.

5 A But excuse me, I just need some
6 clarity. When you say going up and down, do you
7 mean in changing in body position and dependent
8 position?

9 Q No, I'm sorry, the intraocular
10 pressure.

11 A Okay.

12 Q Okay? The problem with glaucoma is you
13 got too much of it, and marijuana in a study
14 years ago said that it lowered -- are you
15 familiar with that study?

16 A Well, there are many studies that
17 demonstrate the dynamics behind intraocular
18 pressure in a diurnal fashion, that is over the
19 period of 24 hours. So, when you say that
20 study, I'm not really certain what you're --

21 Q All right. Well --

22 A -- implying.

23 Q I'm bringing up the point. It's on the
24 record. I suggest you go back and read the
25 opinion. The going up and down of the

1 intraocular pressure plus decrease in blood flow
2 can result in danger to the optic nerve and can
3 cause loss of vision. Are you aware of that?

4 A I'm not aware of the paper to which you
5 speak, and I must say, as a medical
6 professional, your characterization of the
7 physiology of retinal blood flow and optic nerve
8 vitality is inaccurate.

9 Q Well, I suggest you go back and read
10 their position because I just read it over
11 lunch. I suggest you go back and read it.
12 Doctor, your CV says that you are on the New
13 Hampshire State Therapeutic Medical Cannabis
14 Oversight Board. Is that correct?

15 A Yes.

16 Q And what is your function on that
17 board?

18 A Well, I'm one of the ranking members.
19 I'm a physician member. There are some that are
20 non-physicians. That board is charged with both
21 advising and receiving information from the
22 legislature. It is informing patients,
23 healthcare providers, as well as the legislature
24 on the risks and potential benefits of
25 marijuana. And as well, we are charged annually

1 with reviewing medical literature and assessing
2 the appropriateness of the current state's
3 qualifying conditions and symptoms. And then
4 finally, we have patient public access and
5 hearings to allow patients of the state to voice
6 their concerns and questions thereof.

7 Q Can people file a petition to that
8 board to get a medical condition added to the
9 list or detracted from the list? Are those
10 petitions available?

11 A I believe so.

12 Q Okay. And may I ask, why have you not
13 petitioned that board to remove glaucoma from
14 the list of illnesses that you can get marijuana
15 for in New Hampshire?

16 A Well, that's a great question. I was
17 charged, even though I'm not an ophthalmologist,
18 I was charged with writing that paper for the
19 Therapeutic Cannabis Board, and we are in the
20 process of doing that very thing. We were
21 charged with potentially eliminating a
22 qualifying condition and we held a public
23 hearing. There was a fairly significant patient
24 turnout because the patients don't really want
25 qualifying conditions contracted. But we felt,

1 in a medically appropriate way, marijuana isn't
2 really effective for it and so it's in the
3 process, so TBA.

4 Q Excellent. I'll follow that. If
5 there's anything I can do to help you with it,
6 I'd be happy to. One of the conditions that is
7 a condition you can get marijuana for is for
8 generalized anxiety. Is that correct?

9 A You mean for the state of New
10 Hampshire?

11 Q Yes. I'm only talking about New
12 Hampshire right now.

13 A Sorry. The source of that, do you know
14 the date on which that --

15 Q ALS I know is that as of last night --

16 A Is that current?

17 Q It's on the state website.

18 A Okay. So am I aware of it? Is that
19 what you're asking?

20 Q Yes. Oh, excuse me. Pardon me.
21 Pardon me. I did write a note. 2024, it was
22 added.

23 A Okay.

24 Q Pardon me. Sorry.

25 A Yes.

1 Q Okay, have you ever given marijuana to
2 somebody that has generalized anxiety?

3 A Well, I don't give marijuana to anyone,
4 sir.

5 Q Have you recommended marijuana for
6 anybody that has generalized anxiety?

7 A Only in the context of a pain
8 management patient who has anxiety associated
9 with a primary complaint.

10 Q Okay. And would that be generalized
11 anxiety, or would that be specific anxiety? If
12 they're having an anxiety about one thing,
13 wouldn't that be specific, not generalized?

14 A Well, not being a psychologist or a
15 psychiatrist, I am not particularly prescient on
16 the differentiation of the two. I mean, in
17 medicine we generally refer to anxiety as an
18 anxiety disorder, whether it's general -- and
19 subcategories of that would be generalized
20 anxiety disorder, in which every aspect of life
21 causes anxiety or, what was the other term you
22 used? Specific anxiety.

23 Q Specific anxiety.

24 A Yeah, so that would be perhaps a
25 trigger.

1 Q Okay.

2 A But I fail to -- it's not in my lane to
3 assess the various silos that anxiety lives in.

4 Q Okay, I understand. But you are
5 authorized in New Hampshire to recommend
6 marijuana for it, correct?

7 A Yeah, healthcare providers have that
8 ability.

9 Q Okay. And in diagnosing generalized
10 anxiety, what guidelines could a doctor utilize?
11 Because any general practitioner --

12 MS. RACE: Objection.

13 MR. EVANS: Excuse me. Any general
14 practitioner under the law doesn't require, it
15 doesn't say only psychiatrists can do this. Any
16 doctor in New Hampshire can do it, and I would
17 assume it'd have to be a doctor that has a DEA
18 license. But so any doctor can diagnose
19 generalized anxiety and give marijuana for it.
20 Are you aware of any guidelines defining
21 generalized anxiety?

22 JUDGE JULIUS: So hold, please.

23 MS. RACE: Your Honor, my objection is
24 both first, it appears as if we're also now
25 still seeking opinion testimony that's outside

1 the pain management space. Further, there is
2 some testimony and narrative in the presentation
3 by Counsel as if Counsel's testifying about how
4 the system works without verifying that with the
5 witness. And actually, I'll leave it there.

6 JUDGE JULIUS: Okay.

7 MS. RACE: Thank you.

8 JUDGE JULIUS: So, as to the first
9 objection, understood. The question is being
10 asked as a physician, not in the pain management
11 expertise.

12 MR. EVANS: Right. And what -

13 JUDGE JULIUS: As to -- I will
14 acknowledge the question was a lengthy one.

15 MR. EVANS: Okay.

16 JUDGE JULIUS: I just want to make sure
17 --

18 MR. EVANS: I'll cut it down, Your
19 Honor.

20 JUDGE JULIUS: Thank you very much.

21 MR. EVANS: What I'm trying to do by
22 this line of questioning is to see how it works
23 in New Hampshire, okay?

24 JUDGE JULIUS: Okay.

25 MR. EVANS: We haven't been presented

1 with how it works nationally. They have asked
2 us to focus on New Hampshire, so I'm just trying
3 to understand what's the system. How do you
4 work the system? How do you do it in New
5 Hampshire? So, you're on the Therapeutic
6 Medical Cannabis Oversight Board. So if
7 somebody came up -- and how long you been on
8 that board, since 2018?

9 THE WITNESS: I believe so.

10 BY MR. EVANS:

11 Q Okay. So, this was added on 2024, so
12 generalized anxiety was added during your tenure
13 on the board. Do you recall how that went?

14 A I recall that we discussed it as a
15 group and agreed. It was initiated by a
16 legislator, I remember him specifically, and he,
17 in fact, was a medical practitioner. And so I
18 do remember the discussion, yes.

19 Q Did you set any guidelines for helping
20 practitioners make a recommendation for
21 marijuana concerning generalized anxiety?

22 A Well, the board is not charged with
23 setting guidelines specifically for
24 practitioners in their diagnostic process, that
25 is something that practitioners do between

1 themselves and their patients. We are charged
2 with understanding and presenting qualifying
3 indications --

4 Q Okay.

5 A For medical cannabis use.

6 Q Okay. Now if -- and by the way, who
7 are healthcare practitioners in New Hampshire
8 that are authorized to do this?

9 A I believe it's dentists, nurse
10 practitioners, obviously physicians, perhaps
11 naturopaths. I just can't remember.

12 Q Okay. Well, I can certainly understand
13 generalized anxiety for dentists. I think
14 they'd have a lot of use of that. So, if a
15 doctor does not comply with the medical
16 marijuana law in New Hampshire, is there a
17 method for filing complaints against that
18 doctor?

19 A Could you rephrase the question so I
20 understand what you mean by comply with the
21 medical marijuana law, please?

22 Q Well, there's a medical marijuana
23 statute. It says you will do certain things.
24 So supposing a doctor does not do one of those
25 things that he or she is supposed to do, okay?

1 For example, doing an evaluation with a patient,
2 meeting with a patient, that's a requirement in
3 New Hampshire, correct? Okay --

4 JUDGE JULIUS: Can we get a verbal
5 answer?

6 THE WITNESS: Yes.

7 MR. EVANS: Yeah, okay. I mean, you
8 can't just have somebody call you up on the
9 phone and say, I want medical marijuana, and you
10 give them medical marijuana, could you?

11 THE WITNESS: That's not how the
12 process works, no, sir.

13 BY MR. EVANS:

14 Q I understand. I'm talking about when
15 the process doesn't work. Can you just do it by
16 somebody calling you on the phone saying, I'd
17 like to have a marijuana card?

18 A No.

19 Q Okay. Now, if a doctor gave out a
20 marijuana card under those circumstances, what
21 could be done about that doctor?

22 A Well, I don't believe it's the
23 responsibility of the oversight board to in any
24 way enforce that, but I would imagine that the
25 State Board of Health would be involved in

1 investigative and punitive action.

2 Q Okay. Is that the Department of
3 Health, or is it the Board of Medical Examiners?

4 A No, sir. The Board of Medical
5 Examiners is a national body that accredits
6 physicians in medical specialties.

7 Q Well, there are states that have Board
8 of Medical Examiners, aren't they? New Jersey's
9 one of them. I'm pretty sure --

10 A Well, I'm sorry, I'm not aware.

11 Q It was before them. Okay, all right.
12 That brings up a question, in talking about
13 glaucoma, you apparently -- and you've
14 characterized yourself as a research nerd -- you
15 mentioned in glaucoma that you had done research
16 that multiple states list glaucoma on their list
17 of conditions that can be obtained from
18 marijuana. So you did? How did you find out
19 that information?

20 A First of all, I'm not a researcher.
21 I'm a clinician -- or was a clinician. One can
22 ascertain the qualifying conditions of any state
23 just from accessing databases that demonstrate
24 how and where the aspects of medical marijuana
25 occur in various states.

1 Q Okay and in preparing for your
2 testimony, which was going to deal with the
3 national picture, did anybody ask you to find
4 out what was going on in states other than New
5 Hampshire and Vermont?

6 A Well, it's my understanding that my
7 testimony was going to -- while I do have, you
8 know, a relatively good understanding of how
9 things occur nationally, my focus is New
10 Hampshire, and it remains so.

11 Q Now, you just said that you have a,
12 what is it, a relatively good understanding of
13 what's going on nationally. What are the things
14 that you have a good understanding of? What
15 categories?

16 A Strictly speaking, I would say
17 generally speaking, to obtain a medical
18 qualification for marijuana as a patient, it
19 involves an assessment by a healthcare provider.
20 And as I said, in different states, there are
21 different baskets of healthcare providers.
22 Like, I think some states allow chiropractors
23 and podiatrists --

24 Q Veterinarians?

25 A I beg your pardon, sir?

1 Q Veterinarians? I'm sorry. I'm
2 testifying. Go ahead. Finish your answer.

3 A I lost my train of thought. I'm sorry.
4 I understand that an assessment by a healthcare
5 provider is necessary with a patient exam, and I
6 believe in some states it's done through
7 telemedicine now. An assessment and
8 qualification and certification of a condition
9 is necessary in order for a patient to obtain
10 the privilege of accessing marijuana from a
11 regulated medical marijuana.

12 Q Okay. And the conditions that you can
13 get medical marijuana for, do they vary from
14 state to state?

15 A Yes.

16 Q Okay, are you aware of any -- you're a
17 research nerd -- any document that would show us
18 everything that's going on in the states?

19 A I'm sorry. Can you repeat the question
20 in a way that I could understand it?

21 Q Are you aware of any document that --
22 because this is supposed to be a national
23 approach, we've not received any national data.
24 Are you aware of any database anywhere where you
25 can look and find out what's going on in the

1 rest of the country?

2 A I'm not trying to be difficult. I just
3 don't understand what you mean by what's going
4 on.

5 Q How medical marijuana programs are
6 operating in the other states -- are you aware
7 of a database where that could be accessed by
8 the public?

9 A I don't believe so.

10 Q Okay. Well, I don't want to testify
11 here, but I wish that when you leave here, you
12 investigate that further. I think your answer
13 will change. So now, let's talk about -- oh,
14 and I wanted you to answer a question I don't
15 think you answered last time. I was asking you
16 about informed consent in New Hampshire, and you
17 indicated that you didn't think it was your role
18 to get informed consent. And you indicated, if
19 I got it correctly, that the dispensary
20 technicians didn't have that role. And my
21 question was, who has the role of getting
22 informed consent.

23 MS. RACE: Objection.

24 JUDGE JULIUS: Hold your answer. Basis
25 of objection?

1 MS. RACE: I believe that
2 mischaracterizes the testimony.

3 MR. EVANS: I'm sorry. I didn't hear
4 that.

5 MS. RACE: I believe that
6 mischaracterizes the testimony as to whether or
7 not Dr. Burchman indicated that he has to get
8 informed consent from his patients and the role
9 of informed consent in that relationship.

10 MR. EVANS: He did not testify to that.
11 He never testified that he got informed consent.
12 He explicitly denied that he did. Check the
13 record.

14 JUDGE JULIUS: Well, you can respond.

15 MS. RACE: I believe that I am accurate
16 and that the testimony is not as counsel has
17 presented to the Court. So, my objection
18 remains that I believe that that
19 mischaracterizes the --

20 MR. EVANS: Okay.

21 MS. RACE: The testimony further to the
22 extent that it was presented as Counsel has
23 indicated, and it's already been asked and
24 answered as well.

25 MR. EVANS: All right. Let me reframe

1 the question then.

2 MS. RACE: Thank you.

3 JUDGE JULIUS: Fair enough.

4 MR. EVANS: Okay, Doctor, could you
5 tell the Court, please, what is informed
6 consent?

7 THE WITNESS: Informed consent is a
8 written record of a discussion that a physician
9 or healthcare provider has with a patient prior
10 to a procedure or a medical activity that
11 transpires between the physician or the
12 healthcare system and the patient. It usually
13 involves a discussion of risks and benefits.

14 BY MR. EVANS:

15 Q And do you --

16 A And, excuse me, and that the patient
17 fully understands and all questions were
18 answered.

19 Q All right. And do you get that written
20 consent from every one of your patients that you
21 recommend marijuana for?

22 A I can't recall. I would have to look
23 at the form. I just know --

24 Q How many? I'm sorry.

25 A I'm sorry. Go on.

1 Q How many people have you recommended
2 that they get medical marijuana? What's the
3 number?

4 A Well, as I said, I did it with a team,
5 and so if you're talking how -- and I talk to
6 every patient, but it might be that the forms
7 are filled out by some of my underlings. And so
8 if I had to give a number, in my you know, as
9 best as I can recall, probably between 200 and
10 400.

11 Q Okay. So 200 or 400 times, you don't
12 know whether or not there's a written consent?

13 A It's an attestation. It's not a
14 consent, I believe.

15 Q An attestation? And what is the
16 difference between a written consent form and
17 attestation?

18 A Well, I just went through a fairly
19 detailed description of an informed consent. An
20 attestation is merely affixing a signature that
21 a conversation occurred.

22 Q Okay.

23 A I am attesting to the fact that this
24 patient is telling me he has Parkinson's
25 disease, and I'm attesting to the fact, based on

1 my medical judgment and study of his medical
2 record, that that's true.

3 Q Okay. And so that, in your mind, is
4 informed consent?

5 A No.

6 Q Okay. My understanding last time you
7 testified is nothing about that, and I was
8 pointing out that you weren't doing it. You
9 said that the technicians would do it. Now, all
10 of a sudden, these informed consents have
11 appeared. Could you produce them with -- under
12 HIPAA -- confidentiality? Do you have copies of
13 these written consents?

14 MS. RACE: Objection. This, as I noted
15 before, as the government's noted before, this
16 completely mischaracterizes the earlier
17 testimony and is, I think, not relevant. He's
18 asking for the production of records from
19 Dartmouth, which was six years ago, in
20 possession -- we haven't even talked about
21 whether or not Dr. Burchman even has them in
22 possession. This is just kind of well outside
23 the bounds. I argue this is.

24 MR. EVANS: Well, let me ask you this.
25 Do those written consents exist?

1 THE WITNESS: As I said, it's been
2 quite a while since I have qualified a patient
3 or, you know, so --

4 BY MR. EVANS:

5 Q How many years ago did you qualify
6 patients?

7 A I believe I stopped in 2019.

8 Q Okay. So you have not since 2019 made
9 a recommendation to anybody to get medical
10 marijuana?

11 A No, I think I think I may have one or
12 two.

13 Q You got a written consent? Informed
14 consent?

15 A As I said, it's an attestation. I
16 don't believe it's a consent. I mean, I'm
17 trying to give you my best recollection, sir.

18 Q Okay. An attestation is quite
19 different from an informed consent. Informed
20 consent implies mutuality between the physician
21 and the patient. The patient understands what's
22 going to happen. Attestation is only your view
23 of what's going to happen. Isn't that true?

24 A Yes.

25 Q Okay. I want to talk a little bit

1 about CBD. Do you recommend CBD, or have you
2 recommended CBD?

3 A Yes.

4 Q Okay. The dispensaries that you're
5 connected with, do they sell CBD?

6 A Well, CBD is a component. It's a
7 cannabinoid that is incorporated into cannabis
8 preparations. The plant produces it. Various
9 strains have differing concentrations. Some are
10 totally devoid of CBD, and some are actually
11 devoid, almost devoid of THC, and the majority
12 of the primary constituent is CBD.

13 Q Okay. What is the amount of THC that
14 goes into CBD that's considered hemp?

15 A Can you repeat the question? Because I
16 don't understand, I'm sorry.

17 Q We have CBD.

18 A Mm-hmm.

19 Q Can CBD also contain delta-9-THC?

20 A No, they're separate, completely
21 separate molecules, sir. Cannabidiol and
22 tetrahydrocannabinol are structurally different.
23 They act actually at different receptors. That
24 would be like saying ibuprofen is the same as
25 Lipitor.

1 Q So, CBD, in your opinion, always
2 completely stands alone when it's sold, just
3 plain old CBD?

4 A No, I didn't say that, I just said that
5 they're two different drugs.

6 Q Well, they might be two different drugs
7 but are they -- often, when you go in one of
8 those laboratory reports, it's true that they
9 report on different cannabinoids.

10 A Yeah, those are ingredients in --

11 Q Okay.

12 A You know, it's like if you get a can of
13 soda and it says, sodium benzoate, water,
14 carbonation, three percent orange juice, those
15 are all separate components of a product.

16 Q Okay.

17 A And you could conceptualize, you know,
18 cannabis, either a plant or a product of
19 cannabis, as having these separate constituents.

20 Q How many forms of THC are there?

21 A It depends who you ask, but then the
22 most common naturally occurring THC is delta-9
23 tetrahydrocannabinol. There is a lower form
24 called delta-8. It just means that the double
25 bond is on a different section of the molecule,

1 and there are other, what we call, isomers or
2 variations of the configuration of the atoms in
3 the molecule, so multiple forms.

4 Q Is one of those forms delta-10?

5 A Yes.

6 Q Okay. Are those forms normally
7 reported on the laboratory test?

8 A No, because they're minor and as a
9 rule, in fact, I think delta-10 is extremely
10 rare in the natural plant. Yeah, I scarcely
11 remember ever seeing it on a certificate of
12 analysis, although it might be in some states --

13 Q Okay.

14 A In some strains.

15 Q Doctor, when was the last time you read
16 a certificate of analysis?

17 A Probably within the last 48 hours.

18 Q And the only thing it reported was
19 what?

20 A Well, as I said, for the state of New
21 Hampshire, which is where I generally roll, no
22 pun intended --

23 (Laughter.)

24 A Delta-9-THC --

25 Q Well, if you want to take a minute of

1 developing mindfulness right now, we could do
2 that.

3 A Can I answer the question, sir?

4 Q Yeah. Go ahead. I'm sorry.

5 A Delta-9-THC, cannabidiol, those are the
6 major cannabinoids. And it's called major
7 because they generally are the most prevalent.
8 There is cannabinol (CBN), cannabigerol, which
9 is CBG. Those are considered minor
10 cannabinoids, and they all have pharmacologic
11 activity. There are terpenes. Those are the
12 essential plant oils or plant sterols or plant
13 alcohols, and they are listed as well. And then
14 a certificate of analysis usually tests for
15 residual solvents because in the extraction
16 phase of production, to extract the THC, they
17 have to soak it in butane or some other
18 hydrocarbon. And pesticides, of course, which
19 the state limits the amount of pesticides,
20 obviously, that can be in any product that could
21 be ingested.

22 Q Okay. Now, when you read one of these
23 reports that has all this stuff listed and it
24 seems to have a beneficial effect on the
25 patient, which of those substances is having

1 that effect on the patient?

2 A Well, it depends on the effect one is
3 going for. But as I said, delta-9-THC and CBD,
4 cannabidiol, as well as some of the terpenes in
5 my world are both anti-inflammatory -- well,
6 some of them are anti-inflammatory, which plays
7 a role in pain production, and some are
8 analgesic, where there's direct, as I said,
9 receptor activity in the brain that affects pain
10 modulation.

11 Q And, Doctor, isn't it true that
12 marijuana products, including medical marijuana
13 products, are sometimes marketed as being high
14 in terpenes?

15 A Well, medical marijuana products and
16 marijuana products are synonymous, first of all.
17 And plant matter, if it's "a full spectrum
18 product" where isolated molecules are not
19 removed and produced in other forms, contain
20 moderate to significant amounts of terpenes,
21 depending upon certain strains.

22 Q Are you aware of any study when you
23 have a product with terpenes, delta-9, CBD
24 pointing out which of those substances is the
25 most beneficial? And let me clarify I'm talking

1 about a study that compares all those substances
2 that are quite common in certificates of
3 analysis.

4 A Yeah, I am aware of those studies.

5 Q Okay. Do you know what hemp is?

6 A Hemp is Cannabis sativa. It's the same
7 genus and species as marijuana.

8 Q What milligram level of delta-9-THC do
9 you have to have in a marijuana product in order
10 for it to be considered hemp?

11 A The classic description of hemp is that
12 it contains no more than 0.3 percent THC.

13 Q Okay. And anything over that is
14 considered marijuana, correct?

15 A As I said, technically speaking, it's
16 the same.

17 Q Okay.

18 A The only difference is the amount of
19 delta-9-THC, which is the only -- primarily the
20 only intoxicating cannabinoid. But depending
21 upon when the plant is tested, the residual THC
22 concentration can vary. So interestingly, some
23 hemp products could actually be exceeding the
24 threshold that's generally recognized, but it
25 really depends when it's tested. And various

1 states, as I understand it, may mandate testing
2 at different times.

3 Q Mm-hmm. Okay. So if it's hemp -- and
4 again, I'm just testing your knowledge of the
5 marijuana space here because people might
6 recommend hemp, and I want to just probe your
7 understanding of that. What mixture of CBD and
8 THC can be sold throughout the United States in
9 gas stations?

10 A I don't know the answer to that.

11 Q Hemp. The products that the New
12 Hampshire or Vermont sells, the Blueberry
13 Lobster, Cherry Pie Flower, Crunch Berries,
14 Dante's Inferno, Dope Dog, Girl Scout Cookies,
15 are any of those CBD products that you know?

16 A I have no idea, sir. I don't quite
17 know what you're referring to. I mean, I
18 understand there are colloquial labels for
19 certain marijuana strains, but that's not really
20 the kind of aspects of the medication that I
21 deal with.

22 Q Okay, but these products could be sold
23 as medical marijuana, right?

24 A I'll just repeat my same answer. I
25 don't really have an understanding or

1 appreciation of the representative strains and
2 constituents of cannabinoids, terpenes in the
3 aforementioned marketed strains that you're
4 referring to.

5 Q Okay. But the medical profession is a
6 dignified profession, would you agree?

7 A Perhaps. Depends on some of the
8 hospitals I've worked in.

9 Q I think you're dignified.

10 A What's that, sir? I'm sorry.

11 Q I said you're dignified. Do you think
12 it's dignified?

13 A I don't think my spouse would
14 characterize me as being dignified.

15 Q Okay. Do you think it's dignified to
16 sell medicine called Dope Dog?

17 A I can't comment on --

18 Q Okay.

19 A Marketing tactics, sir.

20 Q Can you tell me what impression it
21 would have on somebody like a teenager where a
22 medicine is labeled Dope Dog or Girl Scout
23 Cookies? Does it sound medical to somebody? It
24 sounds more like recreational than anything
25 else, doesn't it?

1 A All right, well, that's multiple
2 questions. First is if I could get into the
3 head of a teenager, I think I'd be in another
4 field. I can't comment on marketing strategies
5 by various purveyors of marijuana and hemp.

6 Q Okay, but -

7 A That's not my field.

8 Q But you're okay with them getting this
9 stuff?

10 A What, adolescents?

11 Q No, you're okay with them getting
12 Blueberry Lobster, Cherry Pie Flower, Crunch
13 Berries, Dante's Inferno, Dope Dog, and Girl
14 Scout Cookies. You're okay with patients
15 getting that?

16 A Sure.

17 Q Okay. All right.

18 A One of the --

19 MS. RACE: Your Honor, if I could just
20 object, please, for request a clarification on
21 the record. The names of these products were
22 from Vermont, not from New Hampshire, I believe
23 the testimony has already indicated that, and
24 Dr. Burchman has already noted that he is not
25 aware of what the contents are of these

1 products. So if we can just seek clarification
2 on the last point.

3 (Simultaneous speaking.)

4 MS. RACE: If I could have a moment?

5 MR. EVANS: What is your relationship
6 with the team?

7 JUDGE JULIUS: Hold on. I think she
8 was still talking.

9 MS. RACE: May I have a moment? It
10 seems there's some additional -- can the
11 government just take two minutes, Your Honor?

12 JUDGE JULIUS: Yes, go ahead. This
13 isn't counting against your time, Mr. Evans.

14 MS. RACE: Thank you, Your Honor.

15 JUDGE JULIUS: We'll just pause
16 momentarily.

17 (Pause.)

18 MS. RACE: Okay. Thank you. If Your
19 Honor's ready for us back?

20 JUDGE JULIUS: Yes.

21 MS. RACE: And I appreciate the pause.
22 To clarify the government's objection here, the
23 questions before the last one posed to Dr.
24 Burchman related to adolescents, the government
25 also seeks clarification that the final question

1 regarding whether Dr. Burchman would allow for
2 and would support the use of the products
3 aforementioned. The government would like to
4 seek clarification as to whether or not this is
5 for adolescent use or for adult patient medical
6 use.

7 JUDGE JULIUS: Seeking clarification
8 from Mr. Evans or seeking clarification from the
9 witness?

10 MS. RACE: We object to the question
11 because the question was vague, and that's the
12 reason -- because it appears as if it was based
13 on adolescent use, and so that's the objection
14 that we're raising.

15 MR. EVANS: Okay. Well, I -- okay.
16 Are the names -- okay? Do you agree that
17 medical marijuana by the Tea House could be,
18 under certain circumstances, given to
19 adolescents?

20 THE WITNESS: Am I aware that -- I -- I
21 -- just so I have some clarification and
22 understanding, are you asking me if I am aware
23 that there's a potential for medical diversion
24 of the --

25 MR. EVANS: No.

1 THE WITNESS: I don't -- I don't
2 understand what you're saying, sir, I'm sorry.

3 BY MR. EVANS:

4 Q Some states, under medical
5 circumstances, permit medical marijuana to be
6 given to children.

7 They have to get a doctor, and I think
8 they have to do something else to be able to do
9 that.

10 Are you aware of either New Hampshire
11 or Vermont that -- that would, that --

12 A Oh, yes.

13 Q Yeah.

14 A Absolutely.

15 Q Okay.

16 And particularly with CBD, correct?

17 A Well, not particularly with CBD, CBD is
18 one of the cannabinoids within marijuana, and
19 marijuana can be given to pediatric patients
20 with certain safeguards in the state of New
21 Hampshire.

22 Q Are you familiar with a marijuana
23 company called Charlotte's Web?

24 A Yes.

25 Q Okay.

1 They pressed for CBD for two children's
2 seizure disorders, is that correct?

3 A Yes, for Dravet syndrome, correct.

4 Q Okay, all right.

5 So, let's just say it's being sold
6 primarily to adults. Okay?

7 A Excuse me, just so I understand, are
8 you talking about CBD --

9 Q No, no --

10 A -- Charlotte's Web?

11 Q -- I'm sorry, right now, we're looking
12 at Tea House, because Tea House has these
13 products.

14 A Mm-hmm.

15 Q And we're only dealing with adults,
16 okay?

17 A Mm-hmm.

18 Q Do you think that the names Blueberry
19 Lobster, Cherry Pie Flower, Crunch Berries,
20 Dante's Inferno, Dope Dog, and Girl Scout
21 Cookies were labeled in that way to appeal to
22 adults?

23 A I cannot comment on the marketing
24 strategies, nor do I really understand them.

25 Q Do you know where the name Girl Scout

1 Cookies came from for -- for this type of
2 marijuana?

3 A Well, I -- I assume it came from the
4 name Girl Scout Cookies.

5 Q But do you know why they used the name
6 Girl Scout Cookies?

7 A Can you define they?

8 Q The people making this product?

9 A I believe it's not a product that's
10 made, it's a strain.

11 And so, the strain is a, you know,
12 botanical with a profile of CBD, THC, the
13 cannabinoids, the terpenes, et cetera.

14 And I have no idea where it originated
15 from, I assume Humboldt County, California,
16 which is one of the genetic centers of cannabis,
17 you know, marijuana gestation, and I cannot
18 explain why names occur for certain strains.

19 Q This might help you.

20 Are you aware of the fact that in
21 Colorado, Girl Scouts were selling Girl Scout
22 Cookies in front of dispensaries because people
23 on marijuana get the munchies, and they might
24 buy Girl Scout Cookies? You ever heard about
25 that?

1 A No, sir.

2 Q Okay.

3 I want to deal a little bit with
4 Epidiolex, you familiar with that?

5 A Yes.

6 Q Okay.

7 And what is Epidiolex?

8 A Epidiolex is cannabidiol that has been
9 purified, and it is an FDA-approved drug for the
10 treatment of pediatric seizures.

11 Q Good.

12 Now, when you say purified, what did
13 you mean by that?

14 A Well, I'm -- I'm not a chemist, but as
15 I understand, in production of pharmaceutical
16 products, good manufacturing principles, it has
17 to be in a very clean, ultra-clean environment.

18 I -- I really can't espouse to the
19 techniques of manufacturing, because that's not
20 my domain.

21 Purified means pure.

22 Q Okay.

23 Now, since it's approved by the FDA,
24 would you assume that it's free of contaminants?

25 A I think there's probably a -- a level

1 of contaminants that is invariably impossible to
2 clear, so there's an accepted minimum level.

3 That's usually how contaminants are
4 termed in -- in pharmaceutical products.

5 Q Okay.

6 You -- you recommend medical marijuana.

7 In your statement here, you were --
8 said that you were knowledgeable about safety
9 aspects of medical marijuana, is that correct?

10 A Yes, sir.

11 Q Okay.

12 Is mold a potential contaminant in
13 marijuana?

14 A Yes.

15 Q Is mildew a contaminant in marijuana?

16 A Well, mold and mildew are the same,
17 sir.

18 Q And what -- and -- and can there be
19 micro biocontamination in cannabis?

20 A Microbial contamination?

21 Q Right.

22 A Yes.

23 Q Right.

24 A Bacteriologic-fungal --

25 Q Okay.

1 A -- parasites, I assume, but I -- I
2 haven't seen that.

3 Q Do you know when mold or mildew are
4 more likely to produce themselves?

5 A Yes.

6 Q When?

7 A Any -- any organic vegetative material,
8 when a certain moisture content is present, can
9 -- mold spores are in the air, they're
10 ubiquitous.

11 And so, both moisture content and
12 temperature, as well as light, can affect the
13 onset of mold in -- in any organic material.

14 Q Okay.

15 Have you verified that these products
16 that are sold by Tea House and you're connected
17 with are free from contamination?

18 A Only in the extent that each -- well,
19 you know, the Tea House doesn't manufacture
20 these products, we get them from growers.

21 And the growers around the state are
22 all required by the State of Vermont to submit
23 their strains and their batches to independent
24 laboratories for testing.

25 And moisture content and -- and actual

1 presence of mold is part of that analysis.

2 Q Okay.

3 Does New Hampshire have a process for
4 reporting product recalls when it comes to
5 marijuana products?

6 A I don't know.

7 Q Are you aware of any other states that
8 do?

9 A No.

10 Q Would it be helpful to you if the State
11 published product recalls so you knew which
12 products not to sell?

13 A Yes.

14 Q Does the FDA publish product recalls?

15 A Yes.

16 Q Why doesn't the marijuana industry do
17 that in New Hampshire? Isn't that something
18 that would protect patient safety?

19 Has your Therapeutic Medical Cannabis
20 Oversight Board ever recommended that product
21 recalls be published?

22 A I -- I don't believe so.

23 Q Okay.

24 Have you ever researched other States
25 that have product recalls, sometimes pages of

1 them, have you ever looked at that?

2 A No.

3 Q Okay.

4 Well, I would suggest, again, that you
5 take a look at that and maybe get that
6 implemented in your home State.

7 Okay, now fungal growth on cannabis,
8 can that lead to the production of mycotoxins?

9 A Fungal growth on any organic material
10 could res -- could result in the residual
11 products of mold, and mycotoxins is -- is a
12 byproduct of that, yes.

13 Q Can mycotoxins be dangerous to human
14 health?

15 A Yes, the operative word is toxin, and
16 by definition, that is a product that is toxic.

17 Q Right.

18 Now, other forms of contamination for
19 cannabis, can cannabis contain heavy metals?

20 A Yes.

21 Q Okay.

22 Do you know whether or not the products
23 sold at Tea House are tested for heavy metals?

24 A I would have to say I cannot recall
25 because, as a different State, I don't' really -

1 - I don -- I just don't recall.

2 Q Do you know if they're tested for in
3 New Hampshire?

4 A I know they're not in New Hampshire.

5 Q Okay.

6 Can heavy metals be dangerous to human
7 health?

8 A Yes.

9 Q Okay.

10 Could you give us an example of some
11 heavy metals that are not tested for in New
12 Hampshire?

13 A Cadmium, lead, arsenic.

14 Q Arsenic? And New Hampshire does not
15 test for arsenic in cannabis?

16 Okay, thank you.

17 A Is that a question, sir?

18 Q Yes.

19 Do you think that's a good idea? Do
20 you think they should be testing for it?

21 A I -- I leave that to the legislative
22 branch.

23 Q Well, let me just ask you a question, I
24 -- I ask this of people all the time, and I'll
25 ask it of you.

1 I -- I've dealt a lot with State
2 legislatures, okay? Maybe I'm a bit jaded
3 because I've dealt with the New Jersey
4 Legislature, but I ask people, if you were going
5 to buy a medicine for your child, which one
6 would you choose, a medicine approved by your
7 State legislature or one approved by the FDA?

8 I've never had anybody tell me that
9 they would want a medicine put forth by a
10 political body.

11 And for you, would you prefer one
12 preferred by the State legislature, bunch of
13 politicians, political views, or the FDA, which
14 is supposedly divorced from all that? What
15 would you feel more comfortable?

16 A I think it depends on the medicine.

17 Q Okay.

18 But you're comfortable with the State
19 legislature approving marijuana for a lot of
20 conditions?

21 A Are we talking about New Hampshire,
22 sir? I -- I -- I've never gone to another
23 State.

24 Q Yes, in New Hampshire?

25 A Well, you were just talking about

1 Vermont and -- and Colorado.

2 Q Okay.

3 A I'm -- I'm just a little confused.

4 Q Okay, I -- I guess I was, too.

5 In New Hampshire, are you comfortable
6 with what the legislature did by coming up with
7 all these lists of conditions that they can get
8 marijuana for?

9 A Yes, because that is done with the
10 advice of the board on which I sit, and I have a
11 lot of confidence in the integrity and judicious
12 nature of that board.

13 Q Was the board created before the
14 legislation?

15 A I think concurrently, sir, I -- but I'm
16 not a legislative expert, I don't really know
17 the evolution of that.

18 That board preceded my appearance on
19 it, so I --

20 Q And what about --

21 A -- don't really know the nascency of
22 it.

23 Q What about Vermont? Do you know
24 anything about Vermont?

25 A Nope.

1 Q Okay.

2 Could you tell me what shatter is?

3 A I believe shatter is a descriptive term
4 for a concentrate.

5 Concentrates are a, you know, it's --
6 it's what it sounds. It's -- it's -- it's a --
7 a higher potency product derived from cannabis
8 oil, which is extracted from the plant.

9 Q And it's called shatter for what
10 reason?

11 A I have no idea.

12 Q Okay.

13 Is it hard like peanut brittle? Or
14 what do they call it? Peanut brittle?

15 A I -- I don't know. I -- I've never-

16 Q Have you ever seen shatter?

17 A I've -- I've never used nor --

18 Q Okay.

19 A -- seen shatter.

20 Q And what about, how in the -- in the
21 marijuana world, what is -- what is wax?

22 A I -- I know that wax is also a
23 concentrate.

24 It's probably of a various -- a
25 different consistency than shatter.

1 But as I said, while I'm familiar with
2 the formulations, I really don't deal in those
3 products with -- with patients.

4 Q Now, are the -- are the concentrates,
5 how are they -- how do they get con -- they're -
6 - buy -- buy -- botanical marijuana, but how do
7 they concentrate it from the plant?

8 A Well, I'm not a manufacturer, and so my
9 ability to understand it is -- is a bit
10 rudimentary.

11 But I would say that the marijuana
12 plant is bathed in some organic solvent, or
13 sometimes I believe it's frozen and extracted in
14 some way.

15 But the -- the mechanism is to extract
16 the constituents of the flower where the -- the
17 bulk of the cannabinoids and terpenes are.

18 And then, through various
19 physicochemical means, they are separated,
20 probably through a selective centrifugation, you
21 know, where it's spun down, and that's probably
22 the extent that I know.

23 And -- and where shatter and wax and
24 other concentrates lie on the spectrum of that
25 production, that's beyond the scope of my

1 knowledge.

2 Q Okay.

3 Is one of the solvents alcohol that's
4 used?

5 A I -- I think so, in -- in some
6 manufacturing facilities.

7 Q Well, you mentioned solvents, what
8 about butane?

9 A Yes, that I know for sure.

10 Q Is butane, is that a -- is that a
11 liquid or a gas?

12 A Well, butane is a -- is a complex
13 hydrocarbon that comes in both liquid and gas
14 forms.

15 Q Is it dangerous to inhale it?

16 A I would think so.

17 Q Is it dangerous to eat it?

18 A I would assume, I -- I've never been
19 asked that question, but I assume it is. It's -
20 - like, it would be like asking one if gasoline
21 is dangerous to eat or breathe.

22 Q But it's used.

23 Are you aware of any other -- I got
24 five minutes --- are you aware of any other
25 medicine that's produced with butane or propane?

1 A Not being in the medicine
2 pharmaceutical manufacturing industry, I -- I am
3 not familiar with it, but I would assume that
4 complex hydrocarbon chemistry is involved at the
5 level of medication manufacturing in a universal
6 sense.

7 Q So, would you agree --

8 A Industrial solvents are used --

9 Q Would you agree that --

10 A -- very commonly in the production of
11 pharmaceuticals.

12 Q -- in dealing with solvents --

13 A I'm sorry, I -- I couldn't hear you.

14 Q Okay.

15 Do you agree that, in dealing with
16 solvents that, on their own are dangerous to
17 human health, that you have to be extremely
18 careful?

19 A Oh, yes, absolutely.

20 Q Okay, good.

21 We talked earlier about overdoses.

22 Are you aware of a paper called -- a
23 2024 paper, July-published in PRM?

24 So, I'm going to give this to them
25 because I want it on the record to know that

1 they know about this.

2 It's called Cannabis and the Overdose
3 Crisis Among U.S. Adolescents by Archie Bleyer.

4 A Am I familiar with the paper?

5 Q Yeah, Yeah.

6 A No.

7 Q Okay.

8 Tell me if you agree with this?

9 A Could I -- excuse me, could I see the
10 paper as you're reading it?

11 Q You want me to stand next to you?

12 A If that's what it takes.

13 Q All right.

14 Well, I'd -- I'd be happy to get close,
15 may I get close to the witness?

16 A I mean, you're going to read a pa -- a
17 scientific paper, I think --

18 Q Yeah.

19 A -- if you're going to comment on it and
20 ask me the -- the veracity of it, I -- I would
21 be entitled to --

22 Q I'm -- I'm not asking you --

23 A -- assess it.

24 Q -- anything about this paper.

25 I'm asking you about something that's

1 written in the paper, a statement, and I want to
2 know whether you agree with it or not.

3 And I'll -- I'll, you know, I'll --
4 I'll tell you how to get this, I mean, I -- I
5 want to give it to them, but do you agree with
6 this?

7 Since 2019, the drug overdose death
8 rate among adolescents 14 to 18 years of age in
9 the United States more than doubled.

10 That cannabis legalization may have
11 contributed to this tragedy is investigated by
12 comparing the death rate in jurisdictions that
13 have legalized medicinal, or both medicinal and
14 recreational use with those that have not.

15 So, that's how the study -- what they
16 looked at.

17 This is their conclusion, and this is
18 what I -- I want to see if you agree with this.

19 Legalization of cannabis is associated
20 with overdose deaths -- and I'll define that as
21 opiate deaths -- in American adolescents,
22 especially recreational legalization, and
23 regardless of sex or White, Black, Hispanic
24 race, ethnicity, cause-and-effect relationships
25 of these previously unreported correlations, if

1 verified, merit investigation of biologic and
2 psychosocial mechanisms, interventions, and
3 prevention strategies.

4 You think that's a good idea to look at
5 biologic and psychosocial mechanisms and
6 interventions and prevention strategies to look
7 at the connection between marijuana and overdose
8 deaths? Do you think that's a good idea?

9 A Sir, you just read an abstract of a
10 probably complex study, and I can't opine on the
11 veracity of an abstract without studying the
12 study design, the --

13 Q I'm not asking you to do that, Doctor.

14 Here, do you think that the connection
15 between marijuana and opiate overdose --
16 overdoses merits investigation?

17 A Yes.

18 Q Okay.

19 Do you think that you should look at
20 biologic and psychosocial mechanisms?

21 A Yes.

22 Q Interventions and prevention
23 strategies?

24 A All good.

25 MR. EVANS: Very good.

1 I'm glad you support it, here you go,
2 we've now got that information after the NPRM.

3 JUDGE JULIUS: Just for clarity, Mr.
4 Evans, what you just handed or -- or placed on
5 Government Counsel's table --

6 MR. EVANS: That I -- I don't want it
7 as evidence.

8 JUDGE JULIUS: -- the document?

9 MR. EVANS: I just want them -- I want
10 it on the record that they received information
11 after the NPRM that dealt with the issues that
12 they focused on, which was already in half, and
13 I'm asking them, as the DEA, to do something
14 about it, look into it.

15 I -- I can't talk to the DEA, they
16 don't talk to people like me, or they don't talk
17 to the parents, and I've got an opportunity now
18 to approach them directly, to ask their lawyers,
19 do something about this, look into it.

20 A lot of people are getting hurt right
21 now.

22 How much time? Am I done? Huh? One
23 minute? Okay.

24 Well, Doctor, I -- I want to thank you.
25 I believe that you sincerely believe in -- in

1 this.

2 I've met a lot of other people who are
3 cannabis users that, you know, believed in this
4 sort of stuff, and I think that you --

5 Do you feel that you've presented the
6 New Hampshire view, or are you presenting the
7 view of how this is going on nationally?

8 THE WITNESS: Is that a question, sir?

9 BY MR. EVANS:

10 Q Yes.

11 A I believe I stated with a fair degree
12 of accuracy and opinion, my view of pain
13 management as it pertains to my -- my patients
14 in the New Hampshire State.

15 MR. EVANS: Your Honor, again, I make
16 the motion, his testimony should be struck.

17 It doesn't deal with the issue that
18 we're dealing with today. It doesn't deal with
19 the two-part thing or anything.

20 Thank you.

21 JUDGE JULIUS: Understood, the motion
22 is denied.

23 The issue can be briefed in the closing
24 statements with regard to all of those issues.

25 MR. EVANS: Right.

1 JUDGE JULIUS: Thank you.

2 The next item on our agenda would be
3 opportunity for cross-examination by Dr. Phillip
4 A. Drum, pharmacist who is not here today, so
5 he is waiving the opportunity to cross-examine
6 this witness.

7 The Court does have at least one
8 question for the witness before I turn it over
9 to the Government for any redirect.

10 I appreciate, Doctor, that you are a
11 stickler for words and -- and phraseology, I am
12 as well. It's important to my analysis of this
13 issue.

14 A lot of discussion has been made
15 regarding terms such as recreational marijuana,
16 medical marijuana.

17 These are terms that people tend to use
18 very colloquially that may have some meaning in
19 some jurisdictions, but not others.

20 They don't really -- they don't --
21 they're not a statutory or regulatory definition
22 in our federal system.

23 So, I want to be clear, when you're
24 discussing medical marijuana, what does -- how
25 do you define that phrase?

1 THE WITNESS: First of all, thank you
2 for the opportunity to answer, it's a great
3 question, and I -- and I talk about this a lot.

4 I don't consider a recreational user or
5 a medical user, just a user.

6 And in my experience and training, I
7 feel that the vast majority of users are using
8 it for a medical purpose, whether it's anxiety,
9 insomnia, most commonly pain.

10 And so, I have a hard time talking
11 about a medical marijuana patient for an adult
12 use or, quote, recreational.

13 And believe me when I say, I -- I talk
14 to lots of users, and that's my clinical
15 impression.

16 Does that answer your question?

17 JUDGE JULIUS: I believe it does.

18 I just want to make sure I understand
19 what -- when you're talking about the use of
20 marijuana, what -- what -- how you're
21 conceptualizing that and what you're talking
22 about and what all is -- is -- what products or
23 substances are encompassed within medical
24 marijuana to the extent that is a term that you
25 recognize?

1 Because I -- I just note that that was
2 the terminology used on the Government's
3 preliminary statement that you would be
4 discussing medical marijuana.

5 So, I just want to make sure I
6 understand the scope of what you're discussing
7 when you -- when that term is used?

8 THE WITNESS: Okay.

9 To be more specific, I would -- I would
10 term it marijuana for therapeutic purposes.

11 That -- that to me is the definition of
12 medical marijuana.

13 But -- but when I state marijuana for
14 therapeutic purposes, it encompasses the
15 utilization by a large component of the
16 population that doesn't have marijuana cards.

17 They haven't gone through the expense
18 and the process of obtaining a card from their
19 respective States, and they are users.

20 And I speak nationally often about the
21 -- the myth of the medical marijuana patient or
22 the adult use marijuana patient, they're all
23 consumers.

24 And as such, being -- being -- having -
25 - having a longitudinal view of the use of

1 marijuana for primarily therapeutic purposes, I
2 have a really great appreciation for the fact
3 that it has medical value.

4 JUDGE JULIUS: And are you're fam --
5 are you familiar with the Controlled Substances
6 Act definition of marijuana?

7 THE WITNESS: Only in the sense that it
8 is, until recently, considered a -- a Schedule I
9 agent, which, you know, demonstrates that it has
10 a high abuse potential, and therefore, lives in
11 the -- in the family of LSD and psilocybin and
12 heroin, which are obnoxiously hor --
13 horrifically abused.

14 And -- and as well, those agents do not
15 have a -- any -- any, you know, commonly
16 accepted medical use.

17 Whereas, marijuana, it's kind of an
18 oxymoron because it doesn't re -- it sh -- it
19 shouldn't be a Schedule I for -- for those
20 reasons.

21 A, its abuse potential is not in any
22 way in bed with those other -- other agents, and
23 B, it has demonstrated therapeutic value.

24 JUDGE JULIUS: Okay.

25 So, I grant you that the scheduling is

1 one issue.

2 The Controlled Substances Act does have
3 a definition section, and I can read to you the
4 federal definition under the Controlled
5 Substances Act, which is 21 USC Section 802(16)
6 Subpart A.

7 Subject to Subparagraph B, the terms
8 marijuana and marihuana, variously spelled with
9 an H or a J, mean all parts of the plant
10 Cannabis sativa L., whether growing or not, the
11 seeds thereof, the resin extracted from any part
12 of such plant, and every compound, manufacture,
13 salt, derivative, mixture, or preparation of
14 such plant, its seeds or resin.

15 So, that's the general definition.

16 And then, excluded from that definition
17 under Part B are hemp, as defined in Section
18 1639o of Title VII, or the mature stalks of such
19 plant, fiber produced from such stalks, oil or
20 cake made from the seeds of such plant, any
21 other compound, manufacture, salt, derivative,
22 mixture, or preparation of such mature stalks
23 except the resin extracted therefrom, fiber, oil
24 or cake, or the sterilized seeds of such plant
25 which is incapable of germination.

1 So, those are the parts that are
2 excluded from that definition.

3 Do you understand --

4 THE WITNESS: I do.

5 JUDGE JULIUS: -- that definition?
6 Okay.

7 So, when you're talking about the use
8 of marijuana, particularly in your pain
9 management practice, because that was your area
10 of expertise that's been provisionally accepted,
11 understanding that definition of marijuana, are
12 there -- are -- is that the definition that
13 matches your understanding of marijuana as
14 you're testifying and how you use it, or do you
15 view marijuana in what you're testifying as
16 smaller than that universe?

17 THE WITNESS: It's the latter, for
18 sure.

19 Because while we talk about marijuana,
20 you know, this is a big flowering plant with
21 leaves and stalks and -- and fiber.

22 The therapeutic or pharmacologic
23 components of that species is almost entirely
24 confined within a -- a glandular aspect of the
25 flower.

1 That's where the -- the manufacturing
2 facility for all of these pharmacologic
3 molecules reside.

4 And so, it's -- it's a very broad term.

5 And so, when I consider marijuana in --
6 in the sense of how we're describing it in the
7 courtroom, it's really the -- the flower, to a
8 smaller extent the leaves, where the cellular
9 and -- and organic material is produced.

10 Does -- does that answer the question?

11 And for -- for example, I -- I kind of
12 take issue with the seeds, because the seeds
13 have - have -- I -- I don't believe they have
14 any cannabinoids in them at all. There --
15 there's no pharmacologically useful activity in
16 the seeds.

17 So, I always wondered why, you know,
18 seeds were outlawed and banned and -- and like
19 contraband. I assume it's because, you know, by
20 definition, the seed can produce the plant that
21 could then, eventually, produce the -- the
22 substrates.

23 But something very interesting str --
24 strikes me, and that is that, the whole argument
25 kind of concentrates on the psychogenic effect

1 of marijuana, which is primarily the results of
2 Delta-9-THC.

3 Yet synthetic Delta-9-THC, which is the
4 same molecule, if you had it in a
5 spectrophotometer to detect the molecular
6 structure, it would be absolutely the same as --
7 as molecular THC from a plant.

8 I -- I believe that resides on Sche --
9 Schedule IV, III or IV, I can't remember -- of --
10 - of -- of the -- of the -- of the schedule.

11 So, it never really made sense to me
12 that, if we're going to call the evildoer, the
13 thing that everybody is worried about, this
14 intoxicant, is -- is on -- if -- if we -- if we
15 synthesize -- synthesize it in a lab and it's
16 produced and -- and it's a pharma product, it's
17 in one basket.

18 And then four -- four schedules away,
19 it's in another.

20 And that -- that kind of duality is --
21 is nonsensical to me.

22 And as I said, because of the entourage
23 effect, for lack of a better term, the
24 combination of the other terpenes and the other
25 cannabinoids that have really verifiable

1 activity -- I mean we -- we rarely didn't talk
2 about CBD, and CBD is much more interesting than
3 THC from a health standpoint, is -- is -- is
4 incorporated in the plant.

5 And so, it's -- it's a really
6 beneficial product for patients when used, like
7 -- like any drug, if it's used appropriately
8 with the appropriate safeguards and -- and --
9 and, you know, information that's given to the
10 patient, it's -- it's -- it's truly like the map
11 being rewritten in terms of how well we can do
12 by patients.

13 JUDGE JULIUS: Okay, thank you, Doctor.

14 MR. EVANS: Your Honor?

15 JUDGE JULIUS: Yes, Mr. Evans.

16 MR. EVANS: I -- I've been involved in
17 this for several decades.

18 JUDGE JULIUS: Just be sure to speak
19 into the microphone.

20 MR. EVANS: I can add some history here
21 if it might be helpful to you.

22 JUDGE JULIUS: I -- your comments would
23 not be construed as evidence because you are a
24 lawyer in this case and not a --

25 MR. EVANS: Okay.

1 JUDGE JULIUS: If you want to --

2 MR. EVANS: Alls I can say is that I'm
3 sure that Dr. Bertha Madras from Harvard Medical
4 School -- I would suggest you ask her that
5 question.

6 JUDGE JULIUS: Okay.

7 MR. EVANS: She is the world-leading
8 expert on medical marijuana, and Dr. Finn wrote
9 the world's leading treatise on medical
10 marijuana, so address those questions to them --

11 JUDGE JULIUS: Okay.

12 MR. EVANS: -- and they will explain it
13 to you.

14 JUDGE JULIUS: I look forward to
15 hearing from Dr. Finn --

16 MR. EVANS: Okay.

17 JUDGE JULIUS: -- at -- at the
18 appropriate time.

19 Thank you very much, Mr. Evans.

20 Government redirect, whenever you're
21 ready.

22 MS. RACE: Thank you, Your Honor.

23 THE WITNESS: Can I just stand up and
24 stretch for like 30 seconds? I just --

25 JUDGE JULIUS: Yes.

1 We won't start your time quite yet, Ms.
2 Race, don't worry.

3 (Pause.)

4 THE WITNESS: Thank you.

5 JUDGE JULIUS: Sure.

6 Whenever you're ready, Ms. Race.

7 MS. RACE: Thank you.

8 REDIRECT EXAMINATION

9 MS. RACE: Dr. Burchman, just a few
10 follow-up questions, if I may?

11 You just provided a definition of
12 marijuana in -- in your view to the Court in
13 response to the Court's questions, just to focus
14 our conversation there.

15 If you can just clarify for me, please,
16 was your definition of marijuana, was that
17 included within the larger definition of
18 marijuana that the Court read to you from the
19 Controlled Substances Act?

20 MR. EVANS: Objection to form.

21 JUDGE JULIUS: Do you want to specify
22 so she can respond to it?

23 MR. EVANS: It -- it's vague, Your
24 Honor, I don't understand the question.

25 JUDGE JULIUS: Okay.

1 Do you want to rephrase perhaps?

2 MS. RACE: I'd be happy to.

3 JUDGE JULIUS: Okay.

4 MS. RACE: Dr. Burchman, did you just
5 provide your definition of marijuana to the
6 Court?

7 THE WITNESS: Yes.

8 BY MS. RACE:

9 Q Okay.

10 And preceding that, did the Court read
11 to you the definition of marijuana in the
12 Controlled Substance Act?

13 A Yes.

14 MR. EVANS: Your Honor, he gave a
15 definition of medical marijuana, not a
16 definition of marijuana, there's a difference.

17 JUDGE JULIUS: Point taken, I did ask
18 how he defined medical marijuana.

19 I did provide him the CSA definition of
20 marijuana and asked if his concept of medical
21 marijuana fit within -- or if that matched or if
22 it was a smaller subset.

23 MS. RACE: And that's the point, Your
24 Honor, thank you very much, that's the point I'm
25 seeking to clarify.

1 Was -- did the definition you provided
2 the Court for medical marijuana, was that
3 included within the larger definition of
4 marijuana the Court read to you from the
5 Controlled Substances Act?

6 THE WITNESS: Yes, I believe so.

7 MS. RACE:

8 Q Dr. Burchman, you testified on cross
9 examination on a number of occasions about the
10 difference between causation and correlation, do
11 you recall that?

12 A Yes, I do.

13 Q I do not believe that you were able to
14 define those terms.

15 Can you please do so now?

16 A Yes, and this is a favorite topic of
17 mine, so.

18 Many studies imply that correlation is
19 causation, and they are statistically totally
20 different.

21 And in -- in many of my lectures, I
22 give an example, and just indulge me for 30
23 seconds because it will be -- it -- it'll be
24 exemplary.

25 In -- if you have a graph, okay, I'm

1 going to define causation and correlation by
2 example.

3 Q Okay.

4 A Say you have a graph, and on the X-axis
5 is time, say from 2005 to 2020.

6 And on the Y-axis, again, it's a bit
7 absurd, but bear with me, on the Y-axis, it's
8 the amount of cheese in pounds that an American
9 eats, okay?

10 And so, it goes up over time, more
11 Americans are eating more cheese

12 And in, you know, in 2010, it's maybe
13 10 pounds per year, and in 20, it's -- 2020,
14 it's 20 pounds a year, just th -- and there's a
15 graph, it's at a slope.

16 Let's take a different parameter.

17 The same times -- same time frame, 2010
18 to 2020, let's take the parameter number of
19 Americans who die being tangled in their bed
20 sheets and -- and die of asphyxiation.

21 I know it sounds ridiculous, okay? But
22 there are -- there are statistics that look at
23 this.

24 If you -- if you superimpose the two
25 graphs, there's what's called in -- in -- in --

1 in biostatistics a -- a 93 percent confidence
2 in-interval.

3 That means the -- the graphs
4 superimpose almost perfectly.

5 One -- obviously, no one's going to say
6 that eating more cheese is going to cause you to
7 die by being strangled in your bed sheets.

8 It's an -- it's an absurd comparison,
9 but it's an extreme example of how correlation
10 can be confused with causation.

11 And I submit to you that in many, the
12 majority, of marijuana articles in the medical
13 literature that talk about risk and sequelae of
14 marijuana use, discuss correlation and not
15 causation.

16 And I'll give you a prime example, and
17 -- and it's -- it's a hot topic, and it's --
18 it's on everybody's mind, and that's the
19 incidence of psychosis.

20 If adolescents use lots of marijuana,
21 psychosis occurs.

22 That's a correlation because there are
23 what are called confounding variables, the
24 socioeconomic status, the concurrent use of
25 other substances such as alcohol, tobacco,

1 opioids, illicit drugs, genetic factors
2 predisposing to psychosis and psychotic disease.

3 And so mindful researchers, and I'm not
4 saying people who publish this are not mindful,
5 but other mindful researchers, can demonstrate
6 and tease out these -- these confounding
7 variables.

8 And when you do, their arguments fall.
9 Their arguments fall out.

10 And so, that's when I think this
11 gentleman started to read an abstract, and, you
12 know, the abstract is sort of the high points,
13 this is the conclusion.

14 This is -- this is my, you know, my
15 five-year study, and this is what I found.

16 But then, buried in every article,
17 usually the last paragraph, are the limitations
18 and the suggestions for future research.

19 And in those limitations, invariably,
20 it'll be said, these are -- these are
21 correlations, not causations, and one has to --
22 has to see the results in that context.

23 And this is a very important factor
24 when one reads medical literature. And -- and
25 in -- in the kind of medical literature --

1 organizations who read medical literature, they
2 know that, and it's called burying the lead.

3 In other words, it's a great study. It
4 sounds, wow, you know, marijuana causes suicide.

5 And -- but then you -- then you read in
6 the -- in the conclusions about the fact that,
7 you know, we didn't control for, you know,
8 suicidal ideation in the family, whether, you
9 know, your grandfather and your father and every
10 male member of the family shot himself in the
11 head before he was 40.

12 I mean, these are what we call
13 confounding variables, and they are replete in a
14 lot of these studies.

15 Sorry for the long-winded argument.

16 Q It's okay, thank you very much -- thank
17 you very much.

18 We can just take it -- we're taking a
19 minute for the drink, thank you.

20 I want to move the causation-
21 correlation discussion into opioid deaths and a
22 relationship, potentially, which is proposed to
23 you between overdose deaths and State marijuana
24 laws.

25 Do you recall that part of the cross

1 examination today?

2 A Yes.

3 Q Okay.

4 At a -- at some point in that, in your
5 response to these questions, you indicated that
6 there was a difference between population and
7 person.

8 Do you recall that testimony?

9 A I do.

10 Q Can you explain why that -- what those
11 differences are and why they matter?

12 A Yes.

13 Let me just preface it by saying I'm
14 not an epidemiologist or biostatistician, so my
15 understanding of it is imperfect.

16 But I was very excited when the
17 Bachhuber study came out, I think in 2014,
18 because it said, hey, you know, in these medi --
19 in these States where medical marijuana laws, it
20 apparently, you know, opioid and o -- opioid
21 related deaths went down.

22 And then, I think it was Stover or
23 Shover came out four years later and said, you
24 know, actually, that's not true.

25 And -- and it had to do with the fact

1 that the researchers were looking at numbers,
2 they weren't -- weren't -- weren't looking at
3 individuals.

4 And this speaks to the whole point of
5 these kinds of studies.

6 You really have to examine patients and
7 -- and -- and you have to get data from
8 individual patients, and that's why what we call
9 real world data is very important, where we're
10 actually discussing what's called in -- in -- in
11 like randomized clinical trials.

12 You know, you do a clinical trial, a
13 drug gets FDA approved, and then it's out on the
14 market, then there is real world data.

15 In other words, we discovered a drug.
16 We -- we went through all the studies, it looks
17 good, and now, we're marketing it.

18 And now, instead of, you know, a -- a
19 study where 800 people took it, now 800,000
20 people are taking it.

21 That's -- that's really the meat of the
22 issue. How's it actually done in the -- how's
23 it doing in the population?

24 Now, because marijuana is a plant and
25 it -- it's -- it's very hard to do randomized

1 controlled trials, there's no consistency,
2 generally, and it's -- it's expensive.

3 It's a Schedule I drug, so institutions
4 generally don't want to touch it.

5 The regulatory hurdles to do research
6 on a Schedule I drug is very hard.

7 And so, we don't have randomized
8 control -- controlled trials.

9 And so, most of the data I cited, like
10 the -- like my -- my Piper study or -- or the --
11 the Gruber study -- these are real world data,
12 individual patient studies.

13 And I -- I frequently say in my
14 lectures, marijuana has been in a post -- post-
15 marketing surveillance for 3,000 years.

16 I mean, it's -- it's a drug that has
17 been used, and -- and the -- the patient or user
18 data is available to us, and that's -- and
19 that's what we're using.

20 And -- and just interestingly, and this
21 is like providence, just last week, the FDA
22 approved of a -- of a, what's called a
23 breakthrough -- it, it's like a fast track -- of
24 a drug for and -- and which has undergone
25 randomized clinical trials in a -- in a full-

1 spectrum cannabis product, and that's very
2 exciting.

3 Q So --

4 A Sorry for the long-winded answer.

5 Q It's okay, Doctor.

6 I have two more questions for you --
7 ish, if -- if I may?

8 You were asked on cross examination a
9 number of questions concerning the long-term use
10 of marijuana and the impacts therefrom.

11 Do you recall that?

12 A Yes.

13 Q Okay.

14 Specifically, whether there were
15 negative impacts or adverse events associated
16 with long-term marijuana use -- do you recall?

17 A I think so, yes.

18 Q Can you please compare for us, and
19 compare for the Court, what you know of long --
20 the negative impacts of long-term opioid use?

21 A Okay.

22 And -- and not discuss marijuana?

23 Q Well, you've already discussed
24 marijuana.

25 A Okay.

1 Q We can bring it back however you want
2 to present it, but my question to you, Dr.
3 Burchman, is if you could please explain to the
4 Court the impacts, to the extent you know, of
5 long-term opioid use on a pain patient?

6 A Okay.

7 The main principal problem with long-
8 term opioid use in pain patients is addiction.

9 In -- in the medical field, we
10 generally call it habituation, and that's
11 actually a physiologic descriptor because, as
12 one uses opioids, the body kind of gets
13 accustomed to it.

14 And the receptors that I talked about,
15 you know, there are cannabinoid receptors, there
16 are also opioid receptors called mu receptors
17 primarily.

18 Once the body is kind of bathing in
19 this opioid stew, the receptors, you know, they
20 say to themselves, hey, we got a lot of this
21 stuff going on, and they -- they change.

22 They -- they -- they -- there's a
23 phenomenon called downregulation, and actually,
24 what happens is, the number of receptors
25 actually shrink, and those that stick around,

1 they don't work so well.

2 They're kind -- you know, if you eat
3 the same meal every night, you kind of get sick
4 of it.

5 That's sort of what a receptor says to
6 its neighbor receptor, it's, I'm sick of this
7 opioid stew we're living in, and so they
8 downregulate.

9 And when you downregulate, what that
10 means is, it's going to take more opioid to get
11 the same effect and -- and more opioid for the
12 mu receptor to act on the opioid.

13 So, what happens with downregulation is
14 you're going to get an escalation in dose if you
15 want the patient to remain comfortable.

16 So, I might start a patient on 20
17 milligrams of morphine for, you know, a chronic
18 shoulder arthritis, and if he -- if he or she
19 takes it for a month, they start to develop
20 tolerance. That's what downregulation is.

21 And then, before you know it, inside of
22 six months to a year, they're on 200 milligrams,
23 okay?

24 And -- and also, chronic opioid
25 therapy, it starts not really helping the pain.

1 And so, then, you're stuck with a
2 patient who's on high-dose opioids, and then,
3 you know, what the hell are you going to do?

4 If you keep escalating the -- the
5 dosage, you're -- you're not going to help the
6 pain, and you run the ri -- well, you're --
7 you're already addicted.

8 In other words, if you lower the dose,
9 they start to go through withdrawal.

10 And so, then, we're not even taking
11 care of the pain, we're just trying to prevent
12 the withdrawal because, as I said, I know I used
13 the term dumpster fire, I think it's a -- it's
14 adequate, opioid withdrawal is horrible.

15 The patients are in excruciating pain,
16 it's -- it's very unnerving to see. That's a
17 true psychosis.

18 And ironically, the pain, you know --

19 What -- so, what do you do for the pain
20 of a patient who's -- who's withdrawing from
21 opioids?

22 You know, we would give them Ativan,
23 which is a -- is a benzodiazepine, does nothing
24 for the pain, but it kind of chills them out.

25 It turns out that cannabinoids are

1 actually a very good analgesic for opioid
2 withdrawal, and in fact, it's used, it's used
3 quite a bit.

4 I mean, there are other agents,
5 nonsteroidal anti-inflammatory drugs, the non-
6 opioid analgesic tramadol.

7 So, there are other agents, but it's a
8 horrendous -- it's a horrendous thing to -- to
9 see, and patients die.

10 There's hyper excitement, there's exci
11 -- excitation of the autonomic nervous system,
12 hypertension, tachycardia.

13 If they're an older person who has
14 cardiac disease, they die.

15 I have seen people die through opioid
16 withdrawal.

17 I -- I really don't get to see too much
18 cannabis use disorder withdrawal because it's
19 relatively mild.

20 I mean, I wouldn't want to go through
21 it, but, you know, they -- they don't sleep,
22 they're irritable, they're anxious,
23 occasionally, they're -- they can hallucinate,
24 which some people believe, you know, is an
25 element of psychosis.

1 But it's -- it's just not bad, and
2 nobody dies from it. I mean, I -- I haven't --
3 I've never seen a -- a death from a cannabis use
4 disorder withdrawal.

5 Q Sir, Dr. Burchman, if you -- when
6 you're treating patients with chronic pain and
7 you're prescribing them opioids, do you
8 anticipate that you will have to use opioids for
9 the duration of that patient's life to treat the
10 underlying pain?

11 A I -- I always use opioids, and we have
12 contracts.

13 In other words, we tell patients they
14 can't sell their drugs and they -- they
15 shouldn't take more than directed, et cetera,
16 because I'm -- I'm always worried when I give a
17 patient opioids.

18 I'm talking in a chronic sense, not
19 acutely, you know, like in anesthesia.

20 The humanist in me always thinks, well,
21 we're going to get this patient through his --
22 his spasticity, you know, he's got Parkinson's
23 disease, he's got severe pain because of that,
24 and we will transition him at some point.

25 But he, you know, he presents with

1 severe pain, so we put the fire out with
2 opioids, this is, like, pre-marijuana therapy.

3 And -- and then, hopefully, we can
4 transition him to a non-opioid analgesic, but
5 the non-opioid analgesics are just not that
6 good, they're just not.

7 And then, the fact that, you know, this
8 marijuana business came along, first an --
9 anecdotally and then -- and then, starting to be
10 accepted by pharma, and it really -- and -- and
11 then, you know, they had the promise of the --
12 of the single use FDA-approved dronabinol, and
13 we were all excited.

14 We're like, finally, we've got
15 something that's going to work.

16 And then, the dronabinol kind of
17 disappointed us.

18 But then, the full spectrum agents and
19 the flower -- it was like the -- it was like the
20 key to the golden lock. We were really, really
21 excited.

22 And now, with the progression of
23 scientific investigation and -- and peer-
24 reviewed research data, I think the promise is -
25 - is very good that we're going to soon be able

1 to kind of uncouple from this.

2 Q Dr. Burchman, yesterday afternoon and
3 then today, you were asked a number of questions
4 on cross examination.

5 Have any of your medical opinions
6 changed following your engagement with the --
7 with the -- the other interested parties in this
8 case?

9 A No.

10 Q Okay.

11 And just lastly, Your Honor, if I may?

12 You were also asked today, Dr.
13 Burchman, about your financial ties, your
14 current financial ties to the marijuana
15 industry.

16 Do you recall that testimony?

17 A Yes.

18 MS. RACE: The fact that you had, at
19 some point, a financial benefit from the
20 marijuana industry, did that change how you
21 treated your patients?

22 MR. EVANS: Leading.

23 MS. RACE: I mean, I'm happy to
24 rephrase if you'd like, but it's -- I mean, it's
25 a pretty open-ended question.

1 JUDGE JULIUS: Go ahead and rephrase,
2 Counsel, thank you.

3 MS. RACE: Did you change how you
4 treated your patients based on financial ties?

5 MR. EVANS: Leading, it's the same
6 question.

7 MS. RACE: What if it -- no, hold on a
8 second.

9 Your last year of medical practice,
10 sir, can you compare, please, to the -- for the
11 Court, in relative terms, the amount that you
12 made in your medical practice versus the amount
13 that you made in -- from the marijuana industry?

14 THE WITNESS: -- in aggregate?

15 BY MS. RACE:

16 Q Yes, I don't -- I'm not looking for
17 specific numbers.

18 A So -- so, what you're asking me is what
19 sort -- what sort of financial resources I
20 extracted from my medical career vis-à-vis the -
21 -

22 Q The mari --

23 A Okay.

24 MS. RACE: Yes, Your Honor -- yes, sir.

25 THE WITNESS: Well, that's a good

1 question.

2 I wo --

3 MR. EVANS: In your last year?

4 THE WITNESS: In my last year of
5 practice?

6 MR. EVANS: That's her question.

7 JUDGE JULIUS: That was the scope of
8 the question.

9 THE WITNESS: But in a longitudinal
10 way, like 30 years of medical practice versus
11 the -- I -- I'm sorry, I'm just confused.

12 MS. RACE: No, that's okay, it's been a
13 long few days.

14 Thank you very much.

15 Did you make more as a treating
16 physician, Dr. Burchman, than you did -- than
17 you do in the m -- marijuana industry?

18 THE WITNESS: In 2019 or -- or -- I
19 mean, just in that epoch of time, or --

20 BY MS. RACE:

21 Q In a yearly basis, take an average year
22 when you were practicing medicine and compare it
23 to an average year following 2019?

24 A Medicine, The answer is medicine.

25 Q Okay.

1 By a factor of about how much?

2 A Tenfold.

3 Q What, if any, effect did your payment
4 by the marijuana industry impact your medical
5 practice?

6 A None.

7 MS. RACE: Thank you, Your Honor, I
8 think I'm done.

9 JUDGE JULIUS: Thank you, Ms. Race.

10 MS. RACE: It's all right.

11 JUDGE JULIUS: Is there any chance that
12 the Government may seek to recall him for
13 rebuttal?

14 MS. RACE: No.

15 JUDGE JULIUS: Okay.

16 So, your testimony is complete.

17 Thank you so much for all of your time

18 --

19 THE WITNESS: Thank you.

20 JUDGE JULIUS: -- and answering
21 everyone's questions.

22 MS. RACE: Appreciate it.

23 JUDGE JULIUS: I know there were a lot
24 of them.

25 MS. RACE: I know.

1 THE WITNESS: Thanks so much, I
2 appreciate it.

3 JUDGE JULIUS: Thank you.

4 All right, so, that was the last thing
5 we -- actually, we're -- that was the first
6 thing that was scheduled for tomorrow, so we're
7 still running ahead of schedule, and we're going
8 to adjourn a couple hours early today.

9 I promised I would never make someone
10 start their case-in-chief a day before their
11 scheduled one, so tomorrow we will begin with
12 the case-in-chief by --

13 MR. EVANS: It's NDASA tomorrow.

14 JUDGE JULIUS: Yeah, I was going to say
15 NDASA, but I wanted to get the full name. The -
16 -

17 MR. EVANS: But the -- we're supposed
18 to start at 9:00 a.m. with cross-exam by Phillip
19 Drum.

20 JUDGE JULIUS: Right, well --

21 MR. EVANS: He -- he lives in
22 California, I don't think he's going to probably
23 come here until he has to testify.

24 JUDGE JULIUS: That's my understanding
25 from the -- the availability schedule.

1 MR. EVANS: Yeah.

2 JUDGE JULIUS: So, I think what we'll
3 start with tomorrow will be the opening
4 statements and the case-in-chief by National
5 Drug and Alcohol Screening Association, NDASA,
6 just wanted the record to be clear, don't like
7 to use acronyms if I don't have to, as
8 government employee, I know we're rife with
9 acronyms.

10 Thank you, everyone, I know it's been a
11 couple long days, but I hope the early release
12 today, you can get some rest, recharge for
13 tomorrow.

14 Look forward to seeing you.

15 We'll be in recess until 9:00 a.m.
16 tomorrow morning.

17 Thank you, everyone.

18 (Whereupon the proceedings went off
19 the record at 2:46 p.m. until 9:00 AM tomorrow
20 morning.)

21

22

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24

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C E R T I F I C A T E

This is to certify that the foregoing transcript was duly recorded and accurately transcribed under my direction; further, that said transcript is a true and accurate record of the proceedings; and that I am neither counsel for, related to, nor employed by any of the parties to this action in which this matter was taken; and further that I am not a relative nor an employee of any of the parties nor counsel employed by the parties, and I am not financially or otherwise interested in the outcome of the action.

A handwritten signature in cursive script, appearing to read "Neal R. Gross", is written over a horizontal line.

James Cordes

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