

1                   IN THE UNITED STATES DISTRICT COURT  
2                   EASTERN DISTRICT OF ARKANSAS  
3                   CENTRAL DIVISION

4 DYLAN BRANDT, et al.,

5                   Plaintiffs,

6 v.

No. 4:21CV00450 JM

7                   October 17, 2022  
8                   Little Rock, Arkansas  
9                   8:59 AM

10 LESLIE RUTLEDGE, et al.,

11                   Defendants.

12                   **TRANSCRIPT OF BENCH TRIAL - VOLUME 1**  
13                   BEFORE THE HONORABLE JAMES M. MOODY, JR.,  
14                   UNITED STATES DISTRICT JUDGE

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15 APPEARANCES:

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Appearances Continuing...

1  
2 APPEARANCES CONTINUED:  
3

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17 On Behalf of the Defendants:  
18

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23  
24 *Proceedings reported by machine stenography. Transcript*  
25 *prepared utilizing computer-aided transcription.*

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**WITNESSES FOR THE PLAINTIFFS: Direct Cross Redirect Recross**

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**EXHIBITS RECEIVED:**

Plaintiffs' 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 16.....	10
Defendants' 1, 2, 3, 4, 44, 48, 51, 52, 76, 79, 80, 81.....	10

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1 (Proceedings commencing in open court at 8:59 AM.)

2 THE COURT: We're on the record in Dylan Brandt, et  
3 al. versus Leslie Rutledge, et al. Case 4:21CV450. We're here  
4 on a hearing on the merits of Dylan Brandt's complaint. Before  
5 we get into it too much, I want to first address there was a  
6 question over the weekend whether or not I would accept the  
7 parties' joint pretrial order. I guess that's what it was  
8 called, about whether you were going to waive opening  
9 statements and agree to a few things. I don't know if you got  
10 the message, but I'm happy to do so. Any time y'all agree to  
11 something, I'm generally receptive to that.

12 I've reviewed again recently the complaint, the Act, the  
13 pretrial disclosures, the trial briefs, the proposed  
14 stipulation -- well, the stipulations as well as Defendants'  
15 proposed stipulations, the Eighth Circuit order, my order.  
16 I've got several deposition designations that I have read,  
17 several depositions that I have read, and several amicus briefs  
18 that I have read, more than once.

19 I'd like to get first to document 183-1, which appears to  
20 be the joint stipulations of fact. The one I have is  
21 technically marked two pages, starts with page 2 of 13. Is  
22 that the latest stipulation of fact that I need to accept or  
23 have y'all got some additions? I take it by your silence that  
24 that's the operative one. There's also a separate document  
25 that is 187 which is Defendants' proposed stipulations of fact,

1 which of the ten paragraphs, appear to me to be statements that  
2 shouldn't be in much dispute. What is the plaintiffs' position  
3 on Defendants' proposed stipulations of fact 1 through 10?  
4 It's document 87.

5 MR. STRANGIO: Your Honor, just a moment. We're  
6 pulling up the document now.

7 THE COURT: And at least today and early on, every  
8 time anybody speaks, if you can identify yourself for the  
9 benefit of my court reporter, Karen, and there'll be three  
10 separate court reporters cycling in and out. So the notion  
11 that you told us this morning may not help the court reporter  
12 this afternoon.

13 MR. STRANGIO: Yes, Your Honor. This is Chase  
14 Strangio on behalf of the plaintiffs. And we are just pulling  
15 up the defendants' proposed stipulations of fact right now.

16 THE COURT: Each time we just need your name, not  
17 who you necessarily represent. It should be apparent, but it  
18 has such things as this is when the act was passed, this is  
19 when it was effective, this is how old the plaintiffs were at  
20 the filing of the complaint, things that seem to be beyond  
21 dispute. Yes, sir.

22 MR. BODAPATI: Good morning, Your Honor. Arun  
23 Bodapati of Sullivan & Cromwell. Plaintiffs are fine with  
24 Defendants' proposed stipulations of fact, it's just that the  
25 parties hadn't come to an actual agreement. 183-1 we believe

1 were our proposals and 187 were Defendants.

2 THE COURT: So y'all are willing to agree to 187?

3 MR. BODAPATI: Yes.

4 THE COURT: Then I'll accept those too.

5 MS. LAND: Your Honor, Amanda Land. I just wanted  
6 to note to the extent that wasn't clear. Defendants were not  
7 stipulating to the proposed joint stipulations on 183-1, I  
8 believe is the document Your Honor referred to. It's our  
9 understanding those were Plaintiffs' proposed joint  
10 stipulations that were not stipulated to by Defendants.

11 THE COURT: So which ones can you stipulate to?

12 MS. LAND: Our proposal was the 187.

13 THE COURT: And you're not going to stipulate to any  
14 of these facts here in their joint stipulations?

15 MS. LAND: Only to the extent those were in document  
16 187.

17 THE COURT: Okay. So, for instance, number 9, you  
18 can't stipulate that Dylan is 17 years old? You can't  
19 stipulate to any of these things? You may need to work on that  
20 one. I'll get back with you on that. Because there's some  
21 that seem to be similarly out of dispute that it's a birthday,  
22 and it can calculate to a number that I'm not going to take  
23 evidence on in a limited amount of time if y'all can stipulate  
24 to things that are beyond dispute.

25 MS. LAND: Yes, Your Honor, we can stipulate to

1 their ages.

2 THE COURT: Well, more than that. I just picked one  
3 out in the first page or second page that I was looking at that  
4 seemed something that should have been stipulated to. I  
5 understand you don't have to. But it seems a little ridiculous  
6 that you can't stipulate to a birthday because I'm not sure  
7 there's going to be testimony back and forth disputing some of  
8 those facts. That's the whole point. We've been in this case  
9 for quite some time and y'all could have verified those facts,  
10 so I want you to take another look at that and maybe get back  
11 with me on what you can stipulate to out of what I thought was  
12 a joint stipulation, not a proposed stipulation.

13 MS. LAND: Yes, Your Honor. We can take a look at  
14 those again.

15 THE COURT: Thank you. Which perhaps calls into  
16 doubt the fact that I've got Plaintiffs' admitted exhibits. Of  
17 these exhibits, how many do you stipulate to, if any?

18 MS. LAND: I believe on the list that the plaintiffs  
19 submitted to the Court, it should indicate which ones the  
20 defendants have stipulated to. There were several.

21 THE COURT: I have a notebook with no exhibit lists  
22 that says what's been stipulated to or what's not. It just  
23 says Plaintiffs' admitted exhibits, which would lead me to  
24 believe that they're stipulated to.

25 MR. BODAPATI: Your Honor, Defendants stipulated to

1 the admissibility of Plaintiffs' Exhibits 1 through 8, 10, 12,  
2 and 16, all which are contained in that binder. Plaintiffs  
3 also submitted an exhibit list to your courtroom deputy, I  
4 believe, on October 12th.

5 THE COURT: I may need to get a copy of those. Was  
6 it by email? Because I was told last week that we didn't have  
7 witness and exhibit lists yet.

8 MR. BODAPATI: Yes, Your Honor, it was by email.

9 THE COURT: Who did you send it to?

10 MR. BODAPATI: I believe Kacie Glenn.

11 THE COURT: Who's been out for the last bit.

12 MR. BODAPATI: Yes, Your Honor. At 6:00 p.m. on  
13 Wednesday, October 12th, we sent it.

14 THE COURT: While she's looking up that, I have  
15 Defendants' stipulated exhibits. Are those indeed stipulated  
16 to?

17 MR. BODAPATI: Yes, Your Honor. Plaintiffs do  
18 stipulate to those exhibits. Plaintiffs are also happy to  
19 resubmit their exhibit lists if that would be more efficient.

20 THE COURT: It can't be because we'll know in just a  
21 second. So I have exhibits that I'm going to receive right  
22 now, Karen. Defendants' 1, 2, 3, 4, 13, 14, 15, 16, 17 through  
23 28, 29, 39, 40, 41, 44, 46 through 52 --

24 MR. BODAPATI: Your Honor, with apologies, we  
25 believe that's actually just a list of all of Defendants'

1 exhibits, not the ones that we stipulated to. If you'd like,  
2 we can list those out. We did not send a witness list, but we  
3 can do so.

4 THE COURT: So I've been handed a notebook that has  
5 Defendants' stipulated exhibits with a list in front of it. Is  
6 that list not a list of what is stipulated to?

7 MR. BODAPATI: I can certainly say at least of a few  
8 that you've mentioned, such as Defendants' Exhibits 13, 14, 15,  
9 and 16, Plaintiffs have outstanding objections to those  
10 documents.

11 THE COURT: Did y'all give me a book that's got a  
12 list of exhibits in the front that aren't, in fact, stipulated  
13 to, Ms. Land?

14 MS. LAND: Your Honor, the list should have an  
15 indication as to each number, an indication of whether it was  
16 stipulated to in a separate column.

17 THE COURT: So is this a total exhibit list but only  
18 the ones that were stipulated are actually in the book?

19 MS. LAND: That is correct.

20 THE COURT: Okay. I'll start over. The plaintiffs  
21 have stipulated to Defendants' 1 through 4, 44, 48, 51, 52, 76,  
22 79, 80, 81, and that's it. So of Plaintiffs' exhibit list,  
23 Ms. Land, which ones can you stipulate to? I think I've got,  
24 if they're in this book, 1 through 8, 10, and 12?

25 MS. LAND: That is correct.

1 THE COURT: And 16 perhaps?

2 MS. LAND: Defendants are stipulating to Exhibit 16  
3 of the plaintiffs'.

4 (Defendants' Exhibits 1 through 4, 44, 48, 51, 52, 76,  
5 79, 80, 81 received in evidence.)

6 THE COURT: Then those will be received as well. I  
7 was told that Friday the parties were informed that despite the  
8 fact y'all had asked for two weeks, the Court had scheduled one  
9 week for this case.

10 (Plaintiffs' Exhibits 1 through 8, 10, 12, 16 received in  
11 evidence.)

12 MR. BODAPATI: Your Honor, Plaintiffs were not aware  
13 that the parties were only going to have one week to present  
14 both of their cases.

15 THE COURT: I think you were on Friday.

16 MR. BODAPATI: Our understanding was just that the  
17 Court would be scheduling some hearings during the second week,  
18 but we still thought that testimony would be taken in this  
19 matter as well.

20 THE COURT: Not next week. We can go as late as you  
21 need to at night to make up for that, but this case is  
22 scheduled in light of all the deposition designations and the  
23 fact that this has been to the Eighth Circuit and back on  
24 several issues. This case is going to get done this week or if  
25 you need to come back some other time perhaps in December,

1 that'll be available. But next week is not. I do have  
2 hearings scheduled this week as well at lunch that won't get in  
3 your way, but that understanding was that there were other  
4 hearings scheduled this week, not next week. Next week is  
5 full. I mean the hearings that potentially would get in your  
6 way are 30-minute hearings that will be held at the lunch hour  
7 that will not get in your way. Next week is booked up. So how  
8 late at night do y'all need to go to get it done?

9 MS. COOPER: I think we probably would need to  
10 confer with opposing counsel. This is information we  
11 apparently misunderstood. We thought there would just be some  
12 portions of times next week that would not be available. We  
13 did not understand the whole week was blocked off. So I  
14 suspect we will need to confer with opposing counsel about how  
15 we should proceed in light of --

16 THE COURT: How long do y'all want to go this  
17 afternoon? Or we can talk about it after lunch.

18 MS. COOPER: Thank you.

19 MR. JACOBS: The problem for us, I think, is that  
20 our experts in particular are scheduled to fly in next week so  
21 that will create significant problems if that can't happen.

22 THE COURT: Well, it can't happen so it's going to  
23 have to either happen this week or sometime in December because  
24 that's the Court's next available time. I don't have to tell  
25 you what I've got, but I've got a two-week case that used to be

1 Judge Holmes's that's getting tried. I've got another  
2 week-long case that I've got, I mean, that's my next available  
3 time.

4 MR. JACOBS: Understood, Your Honor. I think we'll  
5 have to confer and figure out what we'll have to do about that.

6 THE COURT: Fair enough. Thank you. Any other  
7 thing we can do before we get started to expedite y'all's  
8 presentation?

9 MR. BODAPATI: Yes, Your Honor. A few things.  
10 First with regard to the exhibits, Plaintiffs would move to  
11 seal a number of Defendants' exhibits, including some of those  
12 which have been stipulated as admissible.

13 THE COURT: Seal Defendants' exhibits?

14 MR. BODAPATI: Yes.

15 THE COURT: Okay, I'm in that notebook. I'm on the  
16 same page so to speak. Go ahead.

17 MR. BODAPATI: Those would be Defendants' Exhibits  
18 48, 51, 52 --

19 THE COURT: Hang on. You're telling me all the ones  
20 you want to seal whether they've been admitted or not, correct?

21 MR. BODAPATI: Yes, Your Honor. Including the ones  
22 that have not been admitted yet, Defendants' Exhibits 47, 48,  
23 51, 52, 76, 77, 79, 80, and 81.

24 THE COURT: Any objection to those predominantly  
25 medical records being sealed by the defendant?

1 MS. LAND: No, Your Honor.

2 THE COURT: I'm not sure what that means other than  
3 they're sealed for the appellate record. They're not going to  
4 be publicly available unless y'all make them so.

5 MR. BODAPATI: Two other considerations, Your Honor.  
6 In the Court's September 29th, 2020, courtroom protocol, it  
7 mentioned making a set of the stipulated exhibits available to  
8 the media. So we would naturally request that those exhibits  
9 not be included in those made available to the media. And as  
10 well, the parties have generally agreed that to the extent that  
11 there's any witness testimony on the subjects of those medical  
12 records, we would ask that those portions of the testimony be  
13 conducted confidentially as well.

14 THE COURT: That's going to be up to you to let me  
15 know when that happens.

16 MR. BODAPATI: Understood, Your Honor.

17 THE COURT: Because I don't know when it's coming or  
18 when it might come in. And I would appreciate knowing at least  
19 by the half day if you anticipate that from morning to lunch  
20 that's going to be an issue or whether or not lunch to  
21 afternoon that's going to be an issue so I can let people know  
22 that we're going to be evacuating the courtroom and closing  
23 down the video feed for whatever period of time that you  
24 anticipate. It helps me know at least an hour or two ahead of  
25 time that that's potentially coming. We've dealt with it

1 before and it's awkward but manageable.

2 MR. BODAPATI: That won't be a problem, Your Honor.

3 THE COURT: Anything else?

4 MR. BODAPATI: Yes, one more. The Court did mention  
5 the deposition designations, and at least in terms of  
6 Plaintiffs' exhibits, that forms the vast majority of the  
7 outstanding objections. So the Court did mention that it would  
8 rule on the admissibility of the deposition designations in  
9 conjunction with the trial. We were just hoping for some more  
10 guidance from the Court on how it would do so.

11 THE COURT: I'm essentially going to take this case  
12 under advisement, read all the depositions and indicate at that  
13 time what I think is either relevant, admissible, or beneficial  
14 to the Court.

15 MR. BODAPATI: Thank you, Your Honor. We would  
16 appreciate it just because if the Court does intend to exclude  
17 any portions of those deposition designations, Plaintiffs would  
18 consider calling those witnesses live.

19 THE COURT: It won't be excluded on the fact that  
20 they weren't here to testify live. I mean, if the testimony  
21 that you were going to offer that I wasn't going to admit, you  
22 can proffer the entire depositions and I'll either determine  
23 whether or not it's relevant or probative or whatever you want  
24 to call it, but the notion that you would call them to testify  
25 to what's in their deposition that I excluded wouldn't help you

1 much because I'm not going to exclude them on the fact that  
2 they weren't here to testify.

3 MR. BODAPATI: Understood, Your Honor.

4 THE COURT: I think you're safe there and you don't  
5 have to do that. I think we understand each other.

6 MR. BODAPATI: We understand, Your Honor.

7 THE COURT: Their live testimony won't help that  
8 testimony getting in one way or the other.

9 MR. BODAPATI: Yes, Your Honor.

10 THE COURT: It won't get you any further along the  
11 road is what I'm trying to say.

12 MR. BODAPATI: Understood. Just two more points  
13 from Plaintiffs. So one more was the last remaining set of  
14 Plaintiffs' exhibits are transcripts of the legislative  
15 hearings that led to the enactment of Act 266. We think those  
16 are judicially noticeable in any event, but we would also just  
17 maintain Defendants' objections to those lack a sufficient  
18 basis in the rules of evidence.

19 THE COURT: What's Defendants' position on the  
20 transcripts of the legislative hearings?

21 MS. LAND: Your Honor, the defendants' position is  
22 that they are not relevant to what this court is deciding as to  
23 the issues that Plaintiffs have presented to the Court as well  
24 as contains multiple individuals. So it would be a hearsay  
25 objection on the part of the defendants as well as to the

1 extent any witnesses therein are not qualified to give expert  
2 or legal opinion testimony, Defendants would maintain an  
3 objection as to that. But primarily it is a relevance  
4 objection, Your Honor.

5 THE COURT: Let me write this down. You got a  
6 relevance objection as to the legislative hearings on this  
7 particular law. You're claiming that whoever talked about it  
8 wasn't competent for either reasons that they weren't  
9 qualified -- or I'm not sure I followed you there. The people  
10 who testified in the legislative hearing you're claiming are  
11 more like a *Daubert* objection that they weren't qualified to  
12 give opinions in those hearings? I'm confused.

13 MS. LAND: No, Your Honor. To the extent that --  
14 the relevance objection is to the extent the Court would bring  
15 any of the testimony into evidence, Defendants maintain that  
16 looking at that testimony is not relevant to determining  
17 whether this law is constitutional or not.

18 THE COURT: I got that part.

19 MS. LAND: Very much on that same basis, the  
20 defendants maintain that what the Court needs to be looking at  
21 as to opinion testimony are the experts that are presented here  
22 today and not considering what was --

23 THE COURT: I thought you were saying as to the  
24 transcripts is what I was talking about, that anybody that  
25 testified in those hearings wasn't competent to do so, because

1 of *Daubert* type things. Is that not what you said?

2 MS. LAND: No, Your Honor.

3 THE COURT: Then you've got a relevance objection as  
4 to the transcripts?

5 MS. LAND: Correct.

6 THE COURT: Nothing else?

7 MS. LAND: Defendants would maintain a hearsay  
8 objection as well. As we mentioned, it's primarily relevance.

9 THE COURT: Okay. I haven't seen them, haven't  
10 reviewed them. I'll let you know on that as well.

11 MR. BODAPATI: Your Honor, Plaintiffs' final point  
12 regards a set of documents that was submitted to the Court in  
13 camera. Plaintiffs were just wondering if the Court could  
14 provide an update on when it might rule on the ability of  
15 Plaintiffs to review those documents.

16 THE COURT: I thought I had already done that. I  
17 reviewed at least a couple of hundred -- are you talking about  
18 the emails?

19 MR. BODAPATI: Certainly, yes. Our understanding is  
20 that the Court reviewed a set, but Plaintiffs submitted a  
21 further set that we're waiting further review, and the  
22 legislators' counsel also submitted an additional 16 documents  
23 that the Court had ordered them to produce but which they  
24 believed required further in camera review.

25 THE COURT: I thought I had already looked at those

1 and made a ruling on those. If you'll get me what -- some way  
2 to find those. I mean, I've looked at several hundred emails  
3 and made rulings on whether or not those emails were, one,  
4 either privileged or shared with third parties, whether or not  
5 they were relevant to this proceeding, and I wasn't aware of  
6 another batch that I was supposed to be looking at, but it went  
7 back and forth and some renewals of some objections and those  
8 were overruled and some didn't have anything to do even with  
9 this law that were produced and were clearly irrelevant.  
10 Others I thought I had ordered and turned over to you. So  
11 you're saying that you weren't aware that I had ordered  
12 anything turned over?

13 MR. BODAPATI: No, no, Your Honor. We are aware of  
14 the Court's August 4th order which ruled on many of the  
15 documents, but we had understood that there was a subset that  
16 had yet to be ruled on.

17 THE COURT: If you'll bring those to my attention,  
18 I'll give it a look, but I was not aware that I owed you --  
19 that I had anything left to be done on that account.

20 MR. BODAPATI: We will do so, Your Honor.

21 THE COURT: Okay.

22 MR. BODAPATI: That's all from Plaintiffs.

23 THE COURT: Anything from the defendants?

24 MS. LAND: Just one more thing, Your Honor. As to  
25 the copies of exhibits that the Court has ordered be produced

1 to the media. The parties were wondering how Your Honor would  
2 like to deal with any nonstipulated exhibits that come out  
3 throughout the trial, if Your Honor would prefer they be  
4 produced at the end of each day to the media, at the end of the  
5 parties' case in chief, just to deal with it more efficiently?

6 THE COURT: In fairness, I haven't given it a second  
7 thought. How the media gets ahold of these exhibits, I have no  
8 idea other than they somehow make it to the public record.  
9 Unless the parties are providing those exhibits to the media  
10 out of hand. I don't know how that works and so I'm a little  
11 bit at a loss, Ms. Land, as to how to answer that question  
12 because I didn't know how they were going to get them in the  
13 first instance.

14 MS. LAND: Defendants on their part have printed off  
15 paper copies of just -- well, of all the exhibits. However, it  
16 has pulled only those stipulated exhibits for now, and of  
17 course, the nonstipulated exhibits contingent on how the Court  
18 might rule upon them, the defendants are prepared to produce  
19 those in a separate binder.

20 THE COURT: Have you produced any of these that we  
21 just sealed?

22 MS. LAND: Those have all been pulled because  
23 Defendants were aware that Plaintiffs would be moving the Court  
24 to seal those, so those are not in the media copy.

25 THE COURT: Thank you. I guess the media

1 understands for HIPAA reasons and otherwise, the medical  
2 records aren't ever going to be made available to them. So  
3 you're talking about exhibits that I might receive during the  
4 course of the hearing that have not previously been stipulated  
5 to or admitted and how those make their way, I guess, the same  
6 way the other ones did, that you decide once they've been  
7 admitted that if you want to share, you do so. I don't know  
8 how else to handle that.

9 MS. LAND: Would it be okay if the parties conferred  
10 about whether to do that at the each of each day or at the end  
11 of the trial itself?

12 THE COURT: That's not up to me. Yes, in short  
13 answer. I'm not sure I get involved in that other than if I  
14 ruled that admissible exhibits that haven't been sealed are  
15 available to the media, however those get to the media is up to  
16 you guys, and I don't generally get involved in that.

17 MS. LAND: Understood. Thank you.

18 THE COURT: Thank you. Anything other than that?

19 MS. LAND: No, Your Honor.

20 THE COURT: Call your first witness.

21 MS. COOPER: Thank you, Your Honor. We will call  
22 Dr. Dan Karasic as our first witness.

23 **DAN KARASIC, PLAINTIFFS' WITNESS, DULY SWORN**

24 **DIRECT EXAMINATION**

25 **BY MS. COOPER:**

1 Q Good morning, Dr. Karasic. Could you please state your  
2 name for the record and spell it?

3 A Sure. My full name is Dan Halaban Karasic. First name,  
4 D-a-n. Middle name, H-a-l-a-b-a-n. Last name, K-a-r-a-s-i-c.

5 Q Thank you. Dr. Karasic, what is your profession?

6 A I'm a psychiatrist.

7 Q Could you please summarize for the Court your formal  
8 education and training?

9 A Sure. I got a bachelor's degree at Occidental College  
10 and then went to medical school at Yale University School of  
11 Medicine. I trained in psychiatry at the UCLA Neuropsychiatric  
12 Hospital and I did a NIH fellowship at the latter part of my  
13 residency.

14 THE COURT: Ms. Cooper, I'm not trying to get in  
15 your way right off the bat, but I've got his CV and I've  
16 reviewed it, if that'll save you any time. It's up to you.  
17 You can do what you want. But since we're not in a jury trial  
18 and I'm aware of at least what's on his CV, which is  
19 Plaintiffs' Exhibit 2, I just didn't want you to spend a lot of  
20 your time establishing things that I've got right here, but go  
21 ahead.

22 MS. COOPER: Your Honor, I think we can skip the  
23 qualifications discussion if there aren't going to be any  
24 questions from opposing counsel regarding qualifications or any  
25 request to voir dire.

1 THE COURT: Are there any?

2 MR. CANTRELL: Your Honor, Michael Cantrell with the  
3 Arkansas Attorney General's Office for the Defendants. If I  
4 could have opposing counsel speak up a little bit. I have a  
5 little difficulty hearing.

6 MS. COOPER: Yes, I was saying that I think we could  
7 skip past the qualifications portion of his testimony if there  
8 is not going to be a voir dire on qualifications from State's  
9 counsel.

10 MR. CANTRELL: We don't plan to voir dire the  
11 witness.

12 THE COURT: Mr. Cantrell or whomever from whatever  
13 seat, if you have trouble hearing, we can try to turn up -- the  
14 speakers aren't really anywhere near you. If you are going to  
15 be cross-examining this witness and want to move from there to  
16 the jury box some place so you can hear, I recommend both sides  
17 move about the courtroom so you can hear, and I'll just say  
18 that off the bat. I don't mind if you -- last week we had to  
19 get a guy who was deaf as a post move a chair right next to the  
20 podium during direct, so I don't mind if it helps you move  
21 about or anyone move about to hear what they need to hear. I  
22 don't want you to be that guy sitting up in the penalty box or  
23 whatever, but I'm offering it to you if you can't hear.

24 MR. CANTRELL: I appreciate that and I very well may  
25 take advantage of that at some point.

1 THE COURT: You don't have to ask. Just get up and  
2 move and I'll know why. I'm sorry, Ms. Cooper, I've completely  
3 blown up your start.

4 MS. COOPER: Not at all, Your Honor. I would like  
5 to just bring out a couple of points on the witness's  
6 qualifications and then can move on to his opinions.

7 BY MS. COOPER:

8 Q Dr. Karasic, have you treated patients with gender  
9 dysphoria during your career?

10 A Yes, I have.

11 Q Approximately how many patients with gender dysphoria  
12 have you treated?

13 A I can't give a precise number, but thousands of patients  
14 over 30 years.

15 Q Of those patients, did they include adolescents with  
16 gender dysphoria?

17 A Yes.

18 Q Can you give an estimate of the number of adolescents  
19 you've treated with gender dysphoria?

20 A I would say in the hundreds.

21 Q Thank you.

22 Your Honor, I would move to have Dr. Karasic qualified as  
23 an expert in psychiatry and specifically the treatment of  
24 gender dysphoria in adolescents and adults.

25 THE COURT: Ms. Cooper, I don't usually receive an

1 expert. He can testify to whatever you ask him to. And that's  
2 more generally than just this individual that so far you're on  
3 firm ground to ask him whatever you want until there's an  
4 objection.

5 MS. COOPER: Thank you, Your Honor.

6 BY MS. COOPER:

7 Q Dr. Karasic, you mentioned you've treated adolescents and  
8 adults with gender dysphoria. What is gender dysphoria?

9 A So gender dysphoria is distress about the incongruence  
10 between one's gender identity and one's sex assigned at birth.

11 Q Before moving on I'd like to ask you to clarify some  
12 terms. You used the term "gender identity". What does that  
13 mean?

14 A Gender identity is a deeply felt sense of being male,  
15 female or another gender.

16 Q And you also used the phrase "sex assigned at birth".  
17 What does that mean?

18 A So that is the sex assigned by the -- typically by the  
19 doctor or one of the delivery team when a baby is born based --  
20 typically based on the appearance of external genitalia.

21 Q What does the term "transgender" mean?

22 A Transgender is someone who has a gender identity that  
23 differs from the sex assigned at birth.

24 Q And can you tell us about the term "nonbinary", how that  
25 term is used?

1 A Nonbinary refers to a gender identity that is neither  
2 male nor female or some mix of both.

3 THE COURT: What was that last part?

4 THE WITNESS: Or some mix of the elements of both.

5 THE COURT: Thank you.

6 BY MS. COOPER:

7 Q Going back to gender dysphoria. Is there a psychiatric  
8 diagnosis associated with gender dysphoria that is used in this  
9 country?

10 A Yes. In the DSM-5 and DSM-5-TR, the new text revision,  
11 there is a diagnosis of capital D gender -- capital G capital D  
12 gender dysphoria is the title of the diagnosis.

13 Q Is there more than one diagnosis of gender dysphoria?

14 A Yes. There are different criteria for children before  
15 puberty and a separate one for adolescents and adults.

16 Q You mentioned the DSM. What is that?

17 A The Diagnostical and Statistical Manual of Mental  
18 Disorders which is updated by the American Psychiatric  
19 Association. It's a list of mental disorders, updated every  
20 several years.

21 THE COURT: Doctor, can I ask you a quick question?  
22 We've got three age groups. One is children, adolescents, and  
23 adults. How do you define adolescents?

24 THE WITNESS: Adolescents are people who have  
25 started puberty.

1 THE COURT: So it's not a specific age because that  
2 varies, but those who would be starting puberty to 18?

3 THE WITNESS: Right. So typically it's defined  
4 as --

5 THE COURT: You've answered what I needed. I just  
6 didn't know what bracket to put adolescents in for purposes of  
7 this case. Thank you.

8 THE WITNESS: The DSM lumps adolescents and adults  
9 into the one diagnosis.

10 BY MS. COOPER:

11 Q How is the DSM used by mental health professionals in  
12 caring for patients?

13 A The DSM is a categorization that's used by health  
14 professionals to make a mental health diagnosis and it's also  
15 used in research.

16 Q And have you diagnosed patients with gender dysphoria?

17 A Yes.

18 Q Approximately how many?

19 A I would say in the thousands.

20 Q Could you summarize the diagnostic criteria for gender  
21 dysphoria, just in general terms?

22 A Broad summary, it's someone who has a gender  
23 incongruence, a difference between their experience or  
24 expressed gender and their sex assigned at birth, their gender  
25 assigned at birth that has lasted at least six months, there

1 are a set of other possible or supporting symptoms and has to  
2 have clinically significant distress or social or occupational  
3 impairment.

4 Q Does the fact that someone is gender nonconforming mean  
5 they have gender dysphoria?

6 A No.

7 Q How is gender dysphoria diagnosed in patients?

8 A So gender dysphoria is diagnosed by clinical interviews  
9 and exam. So a clinician meets with a patient and through  
10 questioning the patient and examination of the patient in  
11 different ways, mental status exam, makes a DSM diagnosis.

12 Q And when the patient is a minor, are the parents involved  
13 in that in any way?

14 A Yes. Typically the -- certainly when I'm making the  
15 diagnosis, the parent or parents or legal guardian are present  
16 and for at least part of the interview and provide collateral  
17 information to make the diagnosis.

18 Q Some of the State's experts have taken issue with the  
19 legitimacy of the gender dysphoria diagnosis asserting that  
20 it's really a self-diagnosis because it's based on what the  
21 patient reports. Do you have a response to that?

22 A Yes, that's not true. A clinical interview is -- a  
23 clinical diagnosis is made by a clinical interview and exam  
24 with a -- by a qualified clinician, so that's different from  
25 what somebody -- can be different from what somebody's own

1 self-conception of what their diagnosis is.

2 Q Is it unusual in psychiatry to make diagnoses based on  
3 clinical interviews with patients and with minors and parents?

4 A No, that's pretty much how we make all of our diagnoses  
5 based on the DSM is through clinical interview and exam.

6 Q In your experience what are some of the consequences of  
7 gender dysphoria you've seen in your patients prior to  
8 receiving treatment?

9 A So I very often have had patients who are really  
10 profoundly impaired by gender dysphoria that -- patients who  
11 have -- who are in severe distress or pain by the DSM diagnosis  
12 clinically significant distress, and many patients who have  
13 withdrawn from school, or in older people, jobs, and so they  
14 can be quite impaired in terms of social or occupational  
15 malfunctioning in terms of their relationships with other  
16 people as well as other kinds of functioning outside the home.

17 Q Are there consequences related to other mental health  
18 issues that are associated with gender dysphoria?

19 A Yes, there are elevated rates of people having  
20 depression, anxiety, sometimes suicidal thoughts or thoughts of  
21 self-harm.

22 Q Have you had patients with gender dysphoria including  
23 adolescent patients who have had suicidal thoughts or made  
24 suicide attempts?

25 A Yes.

1 Q Have you had patients with gender dysphoria who have  
2 engaged in other forms of self-harm as a result of the gender  
3 dysphoria?

4 MR. CANTRELL: Your Honor, just object to the  
5 leading questions.

6 MS. COOPER: May I rephrase?

7 THE COURT: Sure.

8 BY MS. COOPER:

9 Q Are there other harms you've experienced among your  
10 patients who have gender dysphoria prior to treatment?

11 A Yes. In addition to suicidality or suicide attempts,  
12 I've had patients self-harm like cutting a breast or genitals.

13 Q Is gender identity something someone can voluntarily  
14 change to be congruent with their sex assigned at birth?

15 A No.

16 Q Have there been efforts in your field or in the field of  
17 psychology to try to change a transgender person's gender  
18 identity through therapy?

19 A Yes, but those efforts have not been demonstrated  
20 successful.

21 MR. CANTRELL: Your Honor, again, I just object to  
22 the leading form of the questions.

23 THE COURT: I'm not going to sustain the objection  
24 at this time. I'm just going to ask that you do your best not  
25 to lead the witness. He's an expert and likely knows his

1 views, but go ahead.

2 BY MS. COOPER:

3 Q Okay. You mentioned that these efforts have not been  
4 successful. Can you explain what is known about these efforts?

5 A Sure. There's been documentation of efforts to change  
6 gender identity going back to the 1960s, and also documentation  
7 or lack of documentation of success of such efforts as well as  
8 a perception of harm by many clinicians and therefore many  
9 mainstream health organizations including a long paper by the  
10 American Psychological Association have denounced, I'd say,  
11 gender identity change efforts.

12 Q You mentioned that such efforts can cause harm or  
13 clinicians perceive harm in their patients. Can you explain  
14 how?

15 A Yes. So gender identity change efforts can increase  
16 feelings of shame or low self-esteem, they can put an  
17 expectation on an individual that change is possible when  
18 they're not able to change and that can increase a sense of  
19 failure. There's a little bit of evidence in the literature of  
20 increased suicidality in people that have been exposed to  
21 conversion therapy, but really I think for clinicians, it's our  
22 own personal experience of people who have been exposed to  
23 efforts to try to change their gender identity and felt worse  
24 as a result.

25 Q You testified that people can't voluntarily change their

1 gender identity, but is it possible that someone's gender  
2 identity can change or their understanding of their gender  
3 identity can change over time?

4 MR. CANTRELL: Your Honor, again, object to the  
5 leading form of the question.

6 THE COURT: Overruled.

7 THE WITNESS: For most people, gender identity is  
8 quite stable, but some people evolve in their gender identity  
9 over the course of development or course of a lifetime.

10 BY MS. COOPER:

11 Q I want to turn back to gender dysphoria. Are there any  
12 guidelines recognized within the medical and mental health  
13 fields for treatment of patients with gender dysphoria?

14 A Yes.

15 Q Can you describe some of the leading ones?

16 A Yes. So probably the most prominent and well used one  
17 are the Standards of Care of the World Professional Association  
18 for Transgender Health which recently was released in an 8th  
19 revision. WPATH, since 1979, periodically revises their  
20 Standards of Care. The Endocrine Society has put out  
21 guidelines, the last version was in 2017. And then there have  
22 been guidelines from other organizations as well.

23 Q You referenced the World Professional Association of  
24 Transgender Health. Can I call that WPATH?

25 A World Professional Association for Transgender Health.

1 Q For Transgender Health, thank you. And you referred to a  
2 document called the Standards of Care, the WPATH Standards of  
3 Care. I want to ask you, the term Standards of Care can have a  
4 legal meaning relating to legal duties of doctors. Does the  
5 term Standards of Care and the WPATH Standards of Care have  
6 that meaning or something else?

7 A The Standards of Care are clinical practice guidelines.

8 Q Are you familiar with the process used to develop the  
9 Standards of Care, the WPATH Standards of Care including the  
10 most recent version?

11 A Yes. I was -- yes, I was on the committee that wrote the  
12 WPATH Standards of Care versions 7 and 8.

13 Q Who was involved in developing the recommendations in the  
14 WPATH Standards of Care?

15 A The recommendations are developed by a committee of  
16 largely well-renowned experts, people who lead transgender  
17 health programs or who did research in transgender health from  
18 around the world.

19 Q How long did the process take to develop and publish the  
20 Standards of Care 8?

21 A Standards of Care 8 took five years from the start to its  
22 recent publication.

23 Q Is there discussion of adolescents in Standards of Care  
24 8?

25 A Yes, there's a chapter on adolescents.

1 Q You mentioned the Endocrine Society Guideline. Are you  
2 familiar with that guideline?

3 A Yes.

4 Q And why is that, given that you're not an  
5 endocrinologist?

6 A Well, I don't use that guideline as often, but it did  
7 have some utility because the WPATH Standards of Care came out  
8 and was released initially in 2011 and then the Endocrine  
9 Society Guidelines revision was 2017, and so it kind of was  
10 some interim information, not something I used every day in the  
11 same way I use the standards of care.

12 Q When you say the Standards of Care were initially  
13 introduced in 2011, you're not referring to the first --

14 A No, I'm sorry, Standards of Care version 7 was released  
15 in 2011, published in 2012. And then it was over a decade  
16 before Standards of Care 8 came out. So the Endocrine Society  
17 Guidelines were kind of in the middle.

18 Q Does the Endocrine Society Guideline make any  
19 recommendations relating to the care of adolescents with gender  
20 dysphoria?

21 A Yes.

22 Q Focusing on the WPATH Standards of Care and the Endocrine  
23 Society Guideline, how are they viewed within the medical and  
24 mental health professional communities?

25 A They're widely used. I would say especially the WPATH

1 Standards of Care.

2 Q Are they recognized as best practices by any professional  
3 groups?

4 A Yes. Many large mainstream medical and mental health  
5 organizations recognize the WPATH Standards of Care in  
6 different ways as an authority and practice guidelines for  
7 transgender health.

8 Q Could you name some of those organizations?

9 A Sure. The American Psychiatric Association that I'm part  
10 of, the American Psychological Association, American Medical  
11 Association, the American Academy of Pediatrics are some of the  
12 many organizations that recognize the WPATH Standards of Care.

13 Q Do you follow those WPATH Standards of Care  
14 recommendations in your own clinical practice?

15 A Yes.

16 Q In your experience, are the WPATH Standards of Care and  
17 Endocrine Society Guidelines recommended practices followed  
18 by -- widely followed by other clinicians?

19 A Yes.

20 Q And how do you know that?

21 A So I have been a university professor for over 30 years  
22 and have done a lot of teaching, a lot of presentations on  
23 transgender health. I have done presentations and have done  
24 day-long trainings for the American Psychiatric Association for  
25 psychiatrists in transgender health and I've trained over 2,000

1 healthcare providers through WPATH's education efforts.

2 Q What do you learn from these other clinicians about their  
3 practices through these interactions?

4 A That people are in various degrees familiar with the  
5 WPATH Standards of Care and certainly use them. There are also  
6 often requirements for insurance or other reasons that people  
7 use them, but there's widespread knowledge and a good amount of  
8 familiarity with the standards of care among healthcare  
9 providers more broadly who take care of at least some  
10 transgender people.

11 Q In practice guidelines like the WPATH Standards of Care,  
12 the Endocrine Society Guideline, and similar guidelines that  
13 may be used in other areas of medicine, is it ever appropriate  
14 for doctors to deviate from a guideline recommendation for a  
15 particular case, particular circumstance?

16 A Yes. The Standards of Care say that they are  
17 recommendations for care, but that clinical judgment should  
18 also be involved and there may be individual cases where people  
19 deviate from the Standards of Care.

20 Q Focusing on the WPATH Standards of Care 8, are the  
21 recommendations for the treatment of gender dysphoria the same  
22 for prepubertal children as they are for adolescents and  
23 adults?

24 A No.

25 MR. CANTRELL: If I could just ask for a continuing

1 objection to the form of the question, the leading questions.

2 THE COURT: You can have a continuing objection, and  
3 it's overruled at this time. Go ahead, Ms. Cooper.

4 BY MS. COOPER:

5 Q What treatments are recommended for prepubertal children  
6 with gender dysphoria in the WPATH Standards of Care 8?

7 A No medical treatment is recommended prepubertally. What  
8 is recommended is psychotherapy, family support, support with  
9 school and peers, mental health and psychosocial support, but  
10 no medical treatment.

11 Q What treatments may be recommended for adolescents with  
12 gender dysphoria in the WPATH Standards of Care 8?

13 A Starting beginning with the start of puberty, puberty  
14 blockers which are medicines that can suppress or postpone  
15 puberty. Starting with once people see the very beginnings of  
16 puberty, puberty blockers can be a treatment. Later in  
17 adolescents, gender-affirming hormones can be a treatment,  
18 sometimes there can be surgical interventions. Overwhelmingly  
19 when there are surgical interventions, it is chest surgery for  
20 trans male youth. The Standards of Care 7 had recommended  
21 against genital surgery for adolescents.

22 Standards of Care 8 still recommends against phalloplasty  
23 under 18; for vaginoplasty under 17. Standards of Care 7 says  
24 it's possible that that can be offered but should be offered  
25 only with great caution with a thorough assessment of cognitive

1 maturity and which includes even though it's the parents who  
2 consent and the adolescent who assent, who agrees, that the  
3 adolescent has an understanding of the long-term consequences  
4 and the possibilities of thinking differently in the future.  
5 And so in Standards of Care 8, there isn't an exact age  
6 requirement for vaginoplasty, but it's clear that if it's done,  
7 it should be done with great caution. And, of course, for any  
8 irreversible treatment, the other requirements that Standards  
9 of Care 8 say which is that the youth has had gender diversity  
10 for years and they have a diagnosis in the United States that's  
11 the gender dysphoria diagnosis which includes six months of --  
12 a minimum of six months of symptoms that are causing clinically  
13 significant distress or social or occupational impairment.

14 Q How do the medical interventions you mentioned alleviate  
15 gender dysphoria starting with pubertal suppression? How does  
16 that work to alleviate gender dysphoria?

17 A Pubertal suppression -- some transgender youth have a  
18 significant amount of dysphoria sometimes increasing with the  
19 changes of puberty like breast growth, for example, or someone  
20 assigned male at birth getting taller as examples. And so  
21 puberty blockers delay that progression of puberty as long as  
22 they continue to be given.

23 Q And how do hormone therapy and surgeries help alleviate  
24 gender dysphoria?

25 A So hormones and surgeries help align the body to be in

1 better congruence with someone's gender identity and that often  
2 can provide great relief.

3 Q Now, you mentioned that there was -- I believe that you  
4 said there was a minimum age recommendation for any surgeries  
5 or genital surgeries, genital surgeries in the Standards of  
6 Care 7. Is that right?

7 A Yes.

8 Q Do you have an understanding of why there's no longer a  
9 recommended age threshold of 18 I believe you said for  
10 vaginoplasty in Standards of Care 8?

11 A First I want to kind of clarify that I was chapter lead  
12 for the mental health chapter that focused on mental health in  
13 adults, so I wasn't privy to the conversations directly within  
14 the committee that wrote the adolescent chapter. But my  
15 understanding was that there wasn't sufficient data really to  
16 set a precise age. And so, instead, the recommendation was for  
17 a very kind of cautious, thorough evaluation of that  
18 individual's maturity.

19 Q We've been talking about the WPATH Standards of Care. Do  
20 the Endocrine Society Guidelines also recommend or make any  
21 recommendations concerning the treatments you described,  
22 puberty blockers and hormone therapy?

23 A Yes.

24 Q And that includes relating to or does that include  
25 relating to adolescents?

1 A Yes.

2 Q Does the Endocrine Society Guideline make any  
3 recommendations regarding surgical treatment for adolescents?

4 A Yes.

5 Q What do they say?

6 A So they don't give a precise age for chest surgery for  
7 trans masculine youth which again is the great bulk of  
8 surgeries that happen in adolescents. For genital surgery,  
9 they recommend that the person be of the age of majority.

10 Q Switching gears, under the WPATH Standards of Care and  
11 Endocrine Society Guideline, how can mental health  
12 professionals help patients who come to them because they have  
13 distress about their gender?

14 A So mental health providers can both provide general  
15 mental health care that they provide for anyone coming in in  
16 distress. They also have a role in helping the individual  
17 patient explore their identity and what path they might want to  
18 take with that. Without putting any preconceptions, for  
19 example, Standards of Care 8 says specifically that there  
20 should not be a predetermined -- the healthcare provider should  
21 not be giving a predetermined kind of outcome but rather  
22 allowing the person kind of the space to explore their gender  
23 identity. And then there's also a role if there are medical or  
24 surgical interventions in terms of doing an assessment for  
25 those procedures.

1 Q I'd like to show you -- have the screen in front of you  
2 there, a portion of the Standards of Care 8, it's statement 6.2  
3 of the adolescent chapter, and I'm going to read statement 6.2.  
4 "We recommend healthcare professionals working with gender  
5 diverse adolescents facilitate the exploration and expression  
6 of gender openly and respectfully so that no one particular  
7 identity is favored."

8 Is that the portion you were referring to?

9 A Yes.

10 Q Is this consistent with how care is provided in your  
11 practice and by other clinicians you're familiar with?

12 A Yes. Well, before Standards of Care 8 when I give my  
13 talks and trainings to mental health professionals, I've always  
14 had a slide that kind of graphically kind of provides that  
15 advice.

16 MR. CANTRELL: Your Honor, could we have a paper  
17 copy of this document?

18 THE COURT: That's a great question.

19 MS. COOPER: We could provide that.

20 THE COURT: I was just looking for one myself.

21 MS. COOPER: Is it okay if I continue?

22 THE COURT: I need one too. Just wait so I can  
23 follow along.

24 BY MS. COOPER:

25 Q Dr. Karasic, are you familiar with the term

1 "gender-affirming therapy"?

2 A Yes.

3 Q What does that mean in your field?

4 A Gender-affirming therapy is therapy along the lines of  
5 the statement that the therapist should facilitate that in this  
6 case they say the exploration and expression of gender openly  
7 and respectfully but with no one particular identity favored,  
8 but rather giving space to the client.

9 Q Some of the State's experts say that clinicians who  
10 provide gender-affirming care actively encourage patients to  
11 pursue a transgender identity. Do you have a response to that?

12 MR. CANTRELL: Your Honor, I just object to the  
13 characterization of the State's experts.

14 THE COURT: How do they characterize it?

15 MR. CANTRELL: Your Honor, the State's experts have  
16 testified that --

17 THE COURT: Essentially I think she's saying that  
18 your experts are saying that the medical experts on the  
19 plaintiffs' side are encouraging this transgender journey or  
20 whatever. Is that not fair?

21 MR. CANTRELL: I do not believe the State's experts  
22 have testified concerning specifically the plaintiffs' experts.  
23 But they have testified generally that there are instances and  
24 occasions in which young people are moved --

25 THE COURT: Are your experts going to say in any way

1 that the people on the other side encouraged this in any way?  
2 Because that's what I'm hearing Ms. Cooper say, that instead of  
3 taking a middle road and try to explore where this is going,  
4 they're trying to push these people in a particular direction,  
5 and if your experts aren't saying that in any way whether it's  
6 these plaintiffs or otherwise, I see your point, but I need to  
7 know that now so I can allow this witness to either testify in  
8 response to that or if you're saying they do indeed take a  
9 middle road, then that's another question.

10 Do you anticipate your experts testifying that clinicians  
11 encourage transgender treatment or let the patients and the  
12 parents kind of guide their way through there at least as to  
13 this page that we're on?

14 MR. CANTRELL: One moment, Your Honor. We'll allow  
15 our experts to testify --

16 THE COURT: So you withdraw your objection?

17 MR. CANTRELL: Yes, Your Honor.

18 THE COURT: Go ahead, Ms. Cooper.

19 MS. COOPER: May I repeat the question?

20 THE COURT: Yes.

21 BY MS. COOPER:

22 Q Some of the State's experts say that clinicians who  
23 provide gender-affirming care actively encourage patients to  
24 pursue a transgender identity. Do you have a response to that?

25 A Sure. So speaking of myself and the people -- my

1 colleagues, people I train, we're mental health professionals,  
2 we're licensed professionals and, you know, through our  
3 training and years of experience, we have a certain way of  
4 practicing and for patients, whether they're transgender or  
5 not, putting on some external agenda to a patient is not a good  
6 practice. And certainly as the statement in the Standards of  
7 Care says, that's not our role in working with patients. It's  
8 not our role to tell them who they should be.

9 Q Under the WPATH Standards of Care 8 and Endocrine Society  
10 Guideline, are medical interventions appropriate for all  
11 adolescents who have gender dysphoria?

12 A No.

13 Q Do the WPATH Standards of Care have any recommendations  
14 regarding assessments of adolescent patients before the  
15 provision of gender-affirming medical care?

16 A Yes. The Standards of Care in the adolescent chapter  
17 recommend that comprehensive bio-psychosocial assessment which  
18 includes an assessment of the cognitive maturity of the youth  
19 in making decisions and being able to kind of have an  
20 understanding of future consequences, understanding of impact  
21 on fertility, for example. Even though it's the parents who  
22 consent for a minor, the minor has to have the capacity to  
23 assent, to agree, with the consent that the parents are  
24 providing.

25 Q I'd like to show you statement 6.3 of Chapter 6 in the

1 WPATH Standards of Care. Do you have that up in front of you,  
2 Dr. Karasic?

3 A Yes.

4 Q I'm going to read the statement. It says "We recommend  
5 healthcare professionals working with gender diverse  
6 adolescents undertake a comprehensive bio-psychosocial  
7 assessment of adolescents who present with gender identity  
8 related concerns and seek medical slash surgical transition  
9 related care, and that this be accomplished in a collaborative  
10 and supportive manner."

11 Is this the Standards of Care 8 recommendation you were  
12 referring to?

13 A Yes.

14 Q And does that -- does the Standards of Care 8 specify any  
15 details of what should be included in that psychosocial  
16 assessment?

17 A Yes. Later on, they detail the aspects of a  
18 comprehensive bio-psychosocial assessment.

19 Q Can you tell us the details they describe?

20 A Yes. Broadly, they discuss taking a thorough history of  
21 the person's gender identity and the stability of the identity  
22 over time. They include an assessment of other conditions that  
23 could affect the presentation like a co-occurring psychiatric  
24 disorder, for example, and they talk about the capacity of the  
25 adolescent to participate in care, to be adherent to the care

1 that's provided, and having the cognitive majority to  
2 understand the consent.

3 Q Under Standards of Care 8, must healthcare providers make  
4 any determinations about whether treatment is indicated before  
5 treatment would be provided?

6 A Yes. Well, of course, for any treatment that's provided  
7 by health professionals, somebody is making an assessment that  
8 the risks, benefits, alternatives have been considered and that  
9 the benefits outweigh the risks, otherwise you wouldn't be  
10 offering the treatment. With Standards of Care 8, you do have  
11 a health professional making this kind of broader assessment  
12 and then the health professional who's providing the care is --  
13 if it's someone else, it's also providing information to the  
14 parents and the youth about risks, benefits, and alternatives  
15 in order for informed consent to be given by the parents and  
16 assent to be given by the minor.

17 THE COURT: Ms. Cooper, is statement 6.2 and 3 and  
18 to some extent 4 that you've handed me off of version 8 of the  
19 Standard of Care protocols that we've been talking about, I'm  
20 trying to figure out which version of the Standards of Care  
21 that the document you've given me comes out of --

22 BY MS. COOPER:

23 Q These are all Standards of Care 8, the adolescent  
24 chapter. I'd like to show another statement, statement 6.9  
25 from the adolescent chapter. And I'll read that statement,

1 6.9. "We recommend healthcare professionals involve relevant  
2 disciplines including mental health and medical professionals  
3 to reach a decision about whether puberty suppression, hormone  
4 initiation, or gender-related surgery for gender diverse and  
5 transgender adolescents are appropriate and remain indicated  
6 throughout the course of treatment until the transition is made  
7 to adult care."

8 Is that a recommendation in SOC 8?

9 A Yes.

10 Q Does SOC 8 recognize or talk about the co-occurrence of  
11 other conditions in patients with gender dysphoria?

12 A Yes.

13 Q Are there particular comorbidities that are common among  
14 people with gender dysphoria including adolescents?

15 MR. CANTRELL: Your Honor, again, I'll ask for a  
16 continuing objection to the form of the leading question.

17 THE COURT: Mr. Cantrell, what's leading about that?  
18 What about that question suggests an answer?

19 MR. CANTRELL: It calls for a yes or no response.

20 THE COURT: Okay, a yes or no -- a question that  
21 asks for a yes or no response is not leading in my opinion.  
22 "Isn't it true that", that kind of yes or no question would.  
23 Asking them "Is there something" does not. So I've given you  
24 your continuing objection, but please save them for when you  
25 really have a leading question to deal with. Overruled.

1           THE WITNESS: I would say on the previous question  
2 when you were reading the 6.9, in terms of our practice, it's  
3 not just that we make a recommendation, we're involved with  
4 continuing care so there's a continuing assessment of that this  
5 care is appropriate as weeks or months or years go by. It's  
6 not a one time -- usually not a one-time intervention by health  
7 professionals.

8 BY MS. COOPER:

9 Q       And going back to the comorbidities. Can you say which  
10 comorbidities are common among patients with gender dysphoria  
11 including adolescents?

12 A       Sure. So depression, anxiety disorders, suicidality.  
13 The chapter mentions increased co-occurrence of autism spectrum  
14 disorder, you know, among the disorders that are present in  
15 higher rates.

16 Q       Do you have an understanding of why these co-occurring  
17 mental health issues like anxiety, depression, and suicidality  
18 are common among adolescents with gender dysphoria?

19 A       Yes, I think it's both the reaction to the dysphoria that  
20 the person is in a lot of, can be in a lot of distress about  
21 their body, about the gender role they're expected to be in,  
22 and then there's also what's sometimes called minority stress,  
23 the discrimination that transgender people might suffer even  
24 from their own family or from school or peers as well as  
25 society at large.

1 Q Is there any discussion in WPATH Standards of Care 8  
2 about autism spectrum disorder among patients with gender  
3 dysphoria?

4 A Yes. As I just testified, the adolescent chapter does  
5 talk about autism spectrum disorder.

6 Q Are there any recommendations about how approach to  
7 treatment may be different for patients with autism spectrum  
8 disorder?

9 A Yes. They reference, I believe, a paper that I was a  
10 coauthor on which was kind of a group recommendation that came  
11 out a few years ago on recommendations for adolescents with  
12 autism spectrum disorder, and that does include spending more  
13 time with the evaluation, understanding that there may be  
14 differences in thinking or communication by the person with  
15 autism spectrum disorder and taking that into account and  
16 making the evaluation.

17 Q Do the WPATH Standards of Care 8 say anything about what  
18 should be done in the event a patient, an adolescent patient  
19 has other psychiatric issues that have been identified?

20 A Yes, the Standards of Care 8 say that those in the  
21 adolescent chapter says that those should be addressed.

22 Q Some of the State's experts have said that  
23 gender-affirming mental health providers chalk up to gender  
24 dysphoria any issues the patient is experiencing and ignore  
25 other mental health or family or social issues. Do you have a

1 response to that?

2 A Yes, it's simply not true. The work I do as a  
3 psychiatrist is not just addressing a patient's gender  
4 dysphoria but treating depression, anxiety, working with  
5 families, so that doesn't ring true.

6 Q That's your experience. Do you have a sense of how  
7 others who you're familiar with in your field approach this?

8 A I work with a lot of therapists in California and so I  
9 have an understanding of how they work, and then I do a lot of  
10 teaching and training so I have an understanding of the  
11 practice of other providers just through my personal  
12 experience.

13 Q Are you aware of any providers who chalk anything up to  
14 gender dysphoria and ignore other mental health issues?

15 A No. Just to say the people that -- certainly working  
16 with and training, they're licensed mental health professionals  
17 and you have to look at patients globally and all of their  
18 issues, I don't think people leave behind, you know, all of  
19 their training on everything else just because the person  
20 sitting in the room happens to be transgender.

21 Q Some of the State's experts have also said that  
22 clinicians who support endocrine treatments for adolescents  
23 with general dysphoria oppose psychotherapy.

24 THE COURT: Hang on a second.

25 (Fire alarm sounds.)

1 (Recess from 10:21 AM until 10:39 AM.)

2 BY MS. COOPER:

3 Q Dr. Karasic, some of the State's experts have said that  
4 those who support endocrine treatments for adolescents with  
5 gender dysphoria oppose psychotherapy. Do you have a response  
6 to that?

7 A That's not true.

8 Q Would that be consistent with the Endocrine Society and  
9 WPATH Standards of Care guidelines?

10 A It would not be. Both talk about kind of the importance  
11 of mental health, and certainly most WPATH members are mental  
12 health professionals who do psychotherapy regularly.

13 Q Some of the State's experts say that clinicians are  
14 providing what they call, quote, rapid affirmation, closed  
15 quote, or hormone therapy on demand without first doing  
16 psychological assessments. Do you have a reaction to that?

17 A That has not been my experience with therapists that I  
18 work with and certainly goes against what we've been talking  
19 about with WPATH Standards of Care.

20 Q Do the WPATH Standards of Care 8 have anything to say  
21 about the stability of a patient's gender identity before  
22 initiating gender-affirming medical treatments for adolescents?

23 A Yes. Standards of Care 8 in the text says that the youth  
24 should have a history of gender diversity lasting years and  
25 then people have to meet diagnosis of gender dysphoria which is

1 six months of clinically significant distress or social or  
2 occupational impairment. And there is also discussion about  
3 stability of someone's both identity and the treatment that  
4 they're seeking.

5 Q When you say they say the stability should be for years,  
6 does it describe in any more detail how long?

7 A So my recollection is it says for years, which is a chunk  
8 of time certainly, and then that's -- of gender diversity. So  
9 preceding presumably necessarily and perhaps preceding their  
10 coming for help, but then they also have to meet the diagnostic  
11 criteria which has its own six-month criteria plus the social  
12 and occupational impairment or clinically significant distress.  
13 And there's other talk about kind of stability, so I think  
14 there is a lot in there that recommends that gender identity be  
15 long-standing and stable before treatment is given.

16 Q Now, the State's experts have pointed to comments made by  
17 Dr. Laura Edwards-Leeper and Dr. Erica Anderson, doctors who  
18 provide transgender healthcare, and statements from these  
19 doctors suggesting there needs to be more thorough  
20 psychological assessment prior to medical transition for  
21 adolescents. Have you seen those statements?

22 A Yes.

23 Q What's your reaction to those statements?

24 A Well, Dr. Laura Edwards-Leeper was one of the coauthors  
25 of the adolescent chapter that we've been reading and

1 discussing today as well as the child chapter, and so her views  
2 are very much part of the agreement of what Standards of Care  
3 are. And Dr. Anderson was president of the board of the United  
4 States Professional Association for Transgender Health American  
5 Chapter of WPATH. And I've worked with her because she was a  
6 psychologist with the USC Child and Adolescent Gender Center,  
7 and I've seen many of their patients as a psychiatrist, so  
8 we've worked together. So I know that they're careful  
9 clinicians. I think they're making comments about kind of  
10 maybe push-back within, but within really I think a fairly  
11 narrow confine of opinions of which, you know, are still  
12 variations on those opinions.

13 Q Do these doctors, Dr. Edwards-Leeper and Dr. Anderson  
14 take any position about whether pubertal suppression or hormone  
15 therapy should be banned for adolescents?

16 A Yes. They did an op ed in the Washington Post and the  
17 word that they used to describe Arkansas law and similar laws  
18 was disgust.

19 Q You've touched on informed consent, the topic of informed  
20 consent. Can you explain any discussion that's contained in  
21 the WPATH Standards of Care about the informed consent process  
22 prior to gender-affirming medical interventions for  
23 adolescents?

24 A So I think I may have referenced this already, but there  
25 is a careful assessment that should be made about the ability

1 of the adolescent to assent with the parents or guardian who  
2 are consenting, and that includes an assessment of cognitive  
3 maturity including an ability to think into the future about  
4 what possibilities might be possible for them in the future and  
5 making that understanding and also having the maturity to be  
6 able to participate in and adhere to the care process.

7 Q What about the parents, do the Standards of Care say  
8 anything about parents' consent in the process?

9 A Yes. Well, they discuss what is certainly in most U.S.  
10 states and in many places parents' consent and the minor under  
11 18 assents and so the parents need to be part of the  
12 conversation in order to understand risks, benefits, and  
13 alternatives to be able to give informed consent.

14 Q You mentioned risks, benefits, and alternatives. Do the  
15 WPATH Standards of Care have any specifications of what  
16 families should be advised regarding potential risks of these  
17 treatments?

18 A Yes. The Standards of Care cautions with vaginoplasty  
19 that even though there's a little bit of evidence from people,  
20 from minors who have received vaginoplasty, that data is pretty  
21 sparse, and so parents should be advised that this is an area  
22 where we're still kind of gathering information so more broadly  
23 as part of giving informed consent, parents and the youth  
24 should be aware of the limits of our knowledge.

25 Q Are there any specifications on the impact of fertility

1 discussed in the WPATH Standards of Care 8?

2 A Yes, there is one of the statements on fertility in the  
3 detailed discussion about the fertility discussion and  
4 considerations for the adolescent and their parents.

5 Q And are you referring to as part of the informed consent  
6 process?

7 A It's part of the informed consent process. There's also,  
8 I believe, a statement that's specifically on fertility. So  
9 it's certainly something that is an important discussion that  
10 is not just a one-time discussion, but kind of an ongoing  
11 conversation with the adolescent and parents when  
12 gender-affirming medical care might be provided.

13 Q And in the WPATH Standards of Care discussion of  
14 information to be provided to families before initiating or  
15 before they might consent to treatment, is there any discussion  
16 of whether the minor may have a different feeling in the future  
17 about their gender identity?

18 A Yeah, that was something that I think I kind of brought  
19 out. The part of that cognitive maturity is having an  
20 awareness that there is that possibility that somebody might,  
21 with maturation, have a different idea of, you know, what it  
22 might mean in their life to be a biological parent.

23 Q And is there any discussion about whether they may have  
24 different ideas about their gender identity?

25 A Yes. And so that's certainly again part of the

1 conversation that, you know, just the possibility that there  
2 could be some evolution in identity when people are receiving  
3 treatments that are not fully reversible.

4 Q Does WPATH Standards of Care 8 recommend informing  
5 families about that?

6 A Yes.

7 Q Does Standards of Care 8 say anything about informing  
8 families about any information relating to the evidence base  
9 for this treatment or these treatments I should say?

10 A Yes. Well, yeah, also I think I kind of alluded to that,  
11 that as part of the informed consent process, the limits of our  
12 knowledge as well as what we know should be discussed with  
13 parents, and specifically that's mentioned with vaginoplasty  
14 because there aren't that many minors who have received  
15 vaginoplasty so we don't really know very much. We don't have  
16 that much information.

17 Q I'd like to show you a passage from SOC 8 on page S-46  
18 which I believe has been provided to the Court and opposing  
19 counsel. Do we have that up? Great. If we could look at the  
20 top left corner, first paragraph on that page, the first full  
21 sentence. And I'll read. "Given the lifelong implications of  
22 medical treatment and the young age at which treatments may be  
23 started --

24 THE COURT: Can I stop you for a couple reasons?  
25 One for my record and one for my vision. I'm having trouble

1 locating the page that you're on.

2 MS. COOPER: If you look on the top left corner,  
3 it's page S-46.

4 THE COURT: I understand, but is that in chapter 3,  
5 chapter 6 -- I've been given a lot --

6 MS. COOPER: This is all part of chapter 6, the  
7 adolescent chapter.

8 MR. CANTRELL: Do we have a page number?

9 MS. COOPER: S-46.

10 THE COURT: If you'll look in the upper left-hand  
11 corner, it's really small on your screen. On your screen, it  
12 says 546, I believe. Does that help you locate it?

13 MR. CANTRELL: Yes, Your Honor.

14 BY MS. COOPER:

15 Q Thanks so much. I think we're all there.

16 If you can read along with me, Dr. Karasic. "Given the  
17 lifelong implications of medical treatment and the young age at  
18 which treatments may be started, adolescents, their parents,  
19 and care providers should be informed about the nature of the  
20 evidence base."

21 Is this what you were referring to?

22 A Yes.

23 Q Some of the State's experts assert that doctors who  
24 provide gender-affirming medical care do a perfunctory informed  
25 consent process that fails to inform families of the potential

1 risks of treatment. Do you have a response to that?

2 A So I can't speak to everyone's practice, I can only speak  
3 to my own practice, the many therapists in California that I  
4 work with, the people that I train and I have been involved in  
5 the training of thousands of providers. And then the Standards  
6 of Care 7 and 8 processes, and Standards of Care 8 recommends a  
7 comprehensive bio-psychosocial assessment for adolescents and  
8 that's also recommended in Standards of Care 7, and so that  
9 description doesn't ring true with my experience.

10 Q And just to clarify, I was referring to the assertion  
11 that there's a perfunctory informed consent process done by  
12 clinicians.

13 A Yeah. In terms of the informed consent process, you have  
14 the assessment that is done by a health professional, and in  
15 this chapter, it says that that generally is a mental health  
16 professional, and so you both have the assessment by the mental  
17 health professional where there is recommendation in terms of  
18 assessing ability for assent to consent and then there's also a  
19 second typically informed consent process if that is being done  
20 by a separate provider where that person is required as for any  
21 treatment to have an informed consent process with a patient.

22 Q You've been talking about the need to explore an  
23 adolescent's capacity or maturity and cognitive ability to  
24 understand. I want to show statement 6.2C that I believe has  
25 been provided. That's on page S-61, statement 6.12C. And I'll

1 read the passage. "The adolescent demonstrates the emotional  
2 and cognitive maturity required to --

3 THE COURT: Ms. Cooper, I'm at 6.12C, but I'm having  
4 trouble locating where you're starting to read.

5 MS. COOPER: The bold text at the very beginning  
6 under the heading statement 6.12C.

7 THE COURT: Go ahead. Thank you.

8 BY MS. COOPER:

9 Q It reads "The adolescent demonstrates the emotional and  
10 cognitive maturity required to provide informed consent slash  
11 assent for the treatment."

12 Is that the requirement you were referring to?

13 A Yes.

14 Q Is that a requirement prior to initiating hormone therapy  
15 for minors in the WPATH SOC?

16 A Yes.

17 Q Does the SOC 8 make any recommendations about how a  
18 clinician can assess an adolescent's emotional and cognitive  
19 maturity to make these decisions?

20 A Yes, it provides some detail that I think I kind of  
21 talked about a little bit before. There's an assessment in  
22 order to provide informed consent of their cognitive maturity.  
23 With that, there's an element really with abstract thinking  
24 that develops in adolescence where people are -- for the  
25 adolescents who assent, people are able to be forward-thinking

1 including things like impact on fertility or possibility that  
2 their treatment desires might change in the future and, of  
3 course, the parents are adults and they're assumed to have that  
4 cognitive maturity and they're the ones consenting.

5 Q So just to be clear, the WPATH Standards of Care 8 give  
6 the suggestions of how to make that assessment of the  
7 adolescent's cognitive and emotional maturity?

8 A Yes.

9 Q Now, you have talked a bit about the recommendations for  
10 treatment made by the WPATH -- in the WPATH Standards of Care  
11 and the Endocrine Society Guideline, and I asked you about some  
12 of the State's experts' assertion about clinicians who support  
13 or provide medical interventions to treat gender dysphoria.  
14 And just to summarize, I think we talked about that some of the  
15 State's experts assert that these clinicians actively encourage  
16 patients to be transgender, provide hormones to adolescents on  
17 demand without psychiatric assessments, ignore other mental  
18 health and family issues that could be causing the patient  
19 distress, oppose psychotherapy, and fail to inform patients and  
20 their families of the risks associated with treatment. Do you  
21 have a reaction to that all collectively?

22 A Yeah. Collectively that would be irresponsible care and  
23 it's not the experience that I have with the many clinicians I  
24 work with or in my own personal practice.

25 Q If there were a provider who was providing care in that

1 way, would that be consistent with the WPATH and Endocrine  
2 Society guidelines?

3 A No, it would be inconsistent.

4 Q Can you say that there's no clinician out there who might  
5 be providing care in that way?

6 A I can't speak to the practice of every clinician, I can  
7 only speak to my own practice and the practice of people that  
8 I'm aware of, but I am somebody who has probably met and  
9 discussed over 30 years the care of transgender people  
10 including transgender youth as much or more as anyone, so I  
11 think I have a sense of certainly quite a number of people and  
12 in particular certainly people who are involved in WPATH or  
13 American Psychiatric Association activities.

14 Q If there are individual clinicians who are practicing in  
15 the way some of the state's experts describe, would that affect  
16 your view about whether the state should ban gender-affirming  
17 medical treatments for minors?

18 A So just because there's bad or irresponsible providers  
19 out there doesn't mean that a particular kind of care is  
20 banned. If one were to think about that in terms of any other  
21 kind of care it would seem pretty ridiculous. If people need  
22 the care, you know, they should go to responsible providers.  
23 The fact that somebody -- that might be able to point to or  
24 claim the existence of an irresponsible or bad provider doesn't  
25 mean that other people don't need the care from responsible

1 providers.

2 Q And would that be unique to this area of medicine to  
3 possibly find providers who are providing care inappropriately?

4 A No. I mean, you just read the news, or I get report from  
5 the medical board of California periodically with all the  
6 people whose licenses have been suspended so there certainly  
7 are -- you know, there are like bad cardiologists but if I have  
8 chest pain, I still would like to be able to get care.

9 Q I'm going to switch gears now away from the standards and  
10 guidelines we talked about and I want to ask some questions  
11 about how the treatments that are banned by Act 626 impact  
12 patients with gender dysphoria. I want to start with your own  
13 clinical experience. I believe you testified that you have  
14 over 30 years of experience as a psychiatrist. Is that right?

15 A Yes.

16 Q And that you've seen thousands of patients with gender  
17 dysphoria?

18 A Yes.

19 Q Including, just to make sure I remembered right, hundreds  
20 of adolescents?

21 A Yes.

22 Q Have many of these patients received medical  
23 interventions to treat gender dysphoria?

24 A Yes, many of them have received medical treatment.

25 Q Would that include hormone therapy?

1 A Yes.

2 Q Would that include puberty blockers?

3 A Yes.

4 Q Would it include top surgery for trans masculine  
5 patients?

6 A Yes.

7 Q Have any of your adult patients had vaginoplasty?

8 A Yes.

9 Q Focusing on your adolescent patients who were treated  
10 with gender-affirming medical treatments, can you tell us how  
11 it has affected them?

12 A For many of the patients, they have had dramatic relief  
13 of symptoms, dramatic relief of gender dysphoria with  
14 treatment. Sometimes with that great relief of depression and  
15 anxiety, suicidality, thoughts of self-harm, and for many, the  
16 magnitude of the impact can be much greater than I might see in  
17 other parts of my practice, cisgender or transgender, in  
18 treating depression or panic disorder, for example. So I've  
19 been impressed by the magnitude of improvement that people can  
20 get with gender-affirming medical care.

21 Q You spoke earlier about how one of the consequences or  
22 effects of gender dysphoria that you've seen with patients is  
23 impact on their school or work functioning. Have you seen any  
24 impact of treatment in those areas?

25 A Yes. I've certainly had many adolescents who were unable

1 to attend school, were unable to really develop interpersonal  
2 relationships, who with gender-affirming care were able to  
3 return to school, were able to make friends, connect with  
4 people. And so along with the relief, the clinically  
5 significant distress, I've seen great improvement in many  
6 patients in terms of their functioning.

7 Q Now, you mentioned various benefits you've seen in  
8 patients. How common was it or is it to see these kinds of  
9 benefits in adolescent patients treated with medical  
10 interventions for gender dysphoria?

11 A I would say that almost all the patients I've had have  
12 had some improvement in some way or another with  
13 gender-affirming medical care, specifically with hormones or  
14 chest surgery for adolescents. The magnitude varies. Some  
15 people -- I have patients who still have depression or anxiety  
16 that needs to be treated separately. And then I've had some  
17 patients who really have dramatic improvements where, for  
18 example, treatment with an antidepressant has not really done  
19 very much for them.

20 Q And how do you know the benefits experienced by your  
21 patients isn't the result of therapy you're providing as  
22 opposed to the medical interventions?

23 A Well, there are kind of two sides of that. One is I have  
24 patients who benefit who are not in psychotherapy, although  
25 must of my adolescents that I see as a psychiatrist are also

1 seeing a therapist. But then I see the distress that people  
2 have had before they started treatment with gender-affirming  
3 medical care versus after treatment has been initiated, and  
4 then I've had patients for whom treatment has been halted where  
5 they've continued to get -- where gender-affirming medical care  
6 has been halted, but they've continued to get mental health  
7 care who have had a large increase in their symptoms.

8 Q So you've described a number of benefits experienced by  
9 your patients while you're treating them, but do you know how  
10 these patients do over the long term over the years?

11 A So I worked the last two, just over two years, I've been  
12 mostly in private practice, but for 29 years, I was employed by  
13 UCSF, and I was a psychiatrist in clinics providing care for  
14 transgender people. I was a psychiatrist for the Dimensions  
15 Clinic for trans youth from 2003 to 2020, so I have a number of  
16 patients I've seen for a number of years, and along with  
17 Dimensions, that clinic had a transgender life care program  
18 where even if people aged out of Dimensions, they could  
19 continue getting mental healthcare. So both adolescents and  
20 adults, I've had patients that I saw for many years.

21 And in my faculty practice which was kind of like a  
22 private practice while I was at UCSF and my current private  
23 practice, I've also had patients who have come in and out of  
24 treatment over many years or have consistently been in  
25 treatment over many years, so I think I have kind of a life

1 span approach just by kind of being so old and being in this  
2 field for so long.

3 Q When you say you've seen patients over many years, can  
4 you give us an idea of how many you're talking about?

5 A Yeah, I just had a patient kind of who had -- I had been  
6 treating for a really kind of chronic and persistent mental  
7 health, some mental health symptoms aside from the person's  
8 gender dysphoria and but because of that, they remained engaged  
9 in treatment and I started seeing that person in 2003 and they  
10 just notified me I think last week that they really feel  
11 they've kind of graduated and are just kind of going to have  
12 their primary care continue their medications. And that's an  
13 indication that was somebody for 19 years, but I've also had a  
14 number of patients where -- I have patients where I've seen  
15 them at age 19 and they've come back at age 32, for example, so  
16 I have both patients that over the course of those 30 years, I  
17 saw for many years and then I've also had patients that I saw  
18 and then they went away and they came back and I saw them again  
19 years later.

20 Q And the fact that these patients were either coming back  
21 to you again many years later or seeing you for long periods of  
22 time, is that necessarily because they were struggling with  
23 gender dysphoria?

24 A So some of them were struggling with gender dysphoria and  
25 were in different stages. I had a patient who had had

1 masculinizing chest surgery as a young adult, but then felt he  
2 couldn't come out to his father and many years ended up passing  
3 until the father died and then he felt he could start  
4 testosterone and then eventually had phalloplasty.

5 Q Are any of the patients you've seen over these many years  
6 for reasons unrelated to their gender dysphoria that you  
7 continued to see them?

8 A Yes. For example, I have transgender patients with ADHD  
9 and they're very stable, but they need refills on their ADHD  
10 medicine so I have people that have been pretty mentally  
11 stable, but I also -- they continue to need medication so I see  
12 them over long periods of time.

13 Q You mentioned your interactions with many other  
14 clinicians in the field given various professional activities  
15 you're engaged in. Is sharing clinical experience among these  
16 professionals part of what you do?

17 A Yes.

18 Q Do you have a sense from those other clinicians the kind  
19 of impact they're seeing on their patients when they get  
20 gender-affirming medical care? I'm specifically referring to  
21 adolescents.

22 A Yes. First of all, in addition to the other things I  
23 said, starting in the late '90s, I joined a peer supervision  
24 group of therapists working with transgender people and I  
25 continued with meeting monthly with that same group of

1 therapists from probably 1999 or late '90s until 2016 or 2017  
2 when the group finally dissolved. And so I had regular  
3 meetings there with a group of therapists and who were sharing  
4 their clinical experience. But I've also had, for example, at  
5 Dimensions over periods of time or at Alliance Health Projects  
6 supervise therapists who were providing care for transgender  
7 patients.

8 Q What have you learned from those interactions with these  
9 other clinicians about the impact of these treatments on  
10 adolescent patients with gender dysphoria?

11 A It's very clear that many patients get great benefit from  
12 gender-affirming medical care.

13 Q Switching gears from clinical practice, I want to ask a  
14 few questions about research. Are you familiar with any  
15 research assessing the effectiveness of hormone therapy or  
16 pubertal suppression for the treatment of gender dysphoria in  
17 adolescents?

18 A Yes.

19 Q Another witness for Plaintiffs, expert witness will be  
20 focusing on the details of the scientific research but I just  
21 want to ask you two or three questions about it. First what is  
22 your understanding of the types of studies that have been done  
23 on the effectiveness of gender-affirming medical interventions  
24 for gender dysphoria in adolescents, and could you summarize  
25 what they have found?

1 A Sure. So many of the studies are observational studies  
2 over time. It isn't practical or ethical to do randomized  
3 controlled trials of providing gender-affirming medical care or  
4 not providing it to someone. There aren't randomized  
5 controlled clinical trials for gender-affirming medical care  
6 but there are observational studies, those are longitudinal.  
7 There are those that are cross-sectional, looking at people  
8 over kind of moment of time. There are also the observational  
9 ones where they follow people who are patients in a clinic over  
10 time. And then there are analyses of large databases of  
11 questionnaires that are provided to trans people. There are  
12 also some large population-based surveys that are primarily to  
13 get an idea of kind of how many trans people there are, what  
14 share of the population has transgender identity.

15 Q Focusing on the studies that looked at the evaluation of  
16 the medical interventions, how do the findings of those  
17 studies -- well, strike that. I may ask it differently. Can  
18 you summarize the conclusions or findings of those studies?

19 A Sure. There are a number of studies that have shown  
20 improvement in mental health, decreases in depression or  
21 anxiety scores, decreases in suicidal ideation with  
22 gender-affirming medical care.

23 Q Are there any limitations on the research we have in this  
24 area?

25 A Yeah, so there's the absence of randomized clinical

1 trials. Most of the observational studies are pretty small.  
2 There are some larger ones that we're just getting more data  
3 from. There's a multicenter study that NIH is funding that  
4 just released some data on around 315 young people or  
5 adolescents in the case of the study I saw reported at the  
6 recent WPATH conference in Montreal. So we're getting more.  
7 Some of the other studies are smaller than that.

8 And the size -- certainly not being randomized controlled  
9 trials and some of the series are small are limitations where  
10 one wouldn't make a decision to treat based on any one study,  
11 but you look collectively at the studies along with the  
12 clinical experience I have and all the people that I  
13 collaborate with and all of that, I think, supports the idea of  
14 benefits from gender-affirming medical care.

15 Q Does the Standards of Care 8 discuss the limitations of  
16 the research?

17 A Yes, I think maybe -- trying to think if we actually even  
18 had a talk about that a bit, but they do say in that as part of  
19 the informed consent process, there should be some discussion  
20 about that, the limitations of what we know.

21 Q I'd like to show pages S-45 to 46 and Standards of Care 8  
22 adolescent chapter.

23 THE COURT: When you say S-45, are you talking  
24 about --

25 MS. COOPER: It's up on the screen and it's been

1 provided in hard copy.

2 THE COURT: My problem is I can barely read it on my  
3 screen and so I was looking and trying to find printed copies  
4 and S-45 isn't --

5 MS. COOPER: You're not finding that in your  
6 collection? Up at the top corner, it looks like a 5. It says  
7 S-45, top right corner.

8 THE COURT: Okay. I see. I thought that was a 5.

9 MS. COOPER: I just want to read a passage that  
10 begins on S-45 and carries over to S-46.

11 THE COURT: I'm on the page.

12 BY MS. COOPER:

13 Q Dr. Karasic, are you on the page S-45?

14 A S-45.

15 Q If you scroll down to the very bottom with the heading  
16 Research Evidence of Gender-affirming Medical Treatment for  
17 Transgender Adolescents, I will read the first sentence below  
18 that and continue over to the next page. It says "A key  
19 challenge in adolescent transgender care is the quality of  
20 evidence evaluating the effectiveness of medically necessary  
21 gender-affirming medical and surgical treatments, paren GAMSTS,  
22 closed parens, see medically necessary statement in the global  
23 chapter statement 2.1, closed parens, over time.

24 Given the lifelong implications of medical treatment and  
25 the young age at which treatments may be started, adolescents,

1 their parents, and care providers should be informed about the  
2 nature of the evidence base."

3 Again, so is this part of the guidance and  
4 recommendations in Standards of Care 8 in the adolescents  
5 chapter?

6 A Yes.

7 Q Does that mean we don't know if treatment is effective?

8 A No, it just means that we need to be cognizant of the  
9 limits of our knowledge and that we don't have randomized  
10 clinical trials and we're unlikely to get them and so we  
11 develop our kind of collective knowledge base based on the  
12 evidence that we have in the trials that we do have, the  
13 studies that we do have along with kind of the collective  
14 clinical experience of experts and people in the field.

15 Q I'm going to move to a new topic. Some of the State's  
16 expert witnesses oppose all medical interventions for  
17 adolescents with gender dysphoria, gender-affirming medical  
18 interventions because of a risk they say that they will come to  
19 identify as their natal sex and regret irreversible changes to  
20 their bodies. So I want to ask you some questions about that  
21 topic. First, are you familiar with the term "detransition"?

22 A Yes. It's certainly something discussed in our field. I  
23 helped organize at the USPATH conference in 2017 a panel of  
24 therapists who also had detransitioned and we had lively  
25 discussion and so it's something that we talk about and the

1 Standards of Care talks about particularly in the adolescent  
2 chapter.

3 Q Does that term have a particular meaning in your field,  
4 detransition?

5 A It can be used differently, I think, by different people.  
6 But I take it to mean someone who has medically or socially  
7 transitioned to a gender other than the sex assigned at birth  
8 and then has transitioned again medically or socially generally  
9 either to the sex assigned at birth or to a different gender  
10 identity like a nonbinary gender identity.

11 Q In your clinical experience with more than I think you  
12 said thousands of patients with gender dysphoria, have any of  
13 your patients who have medically transitioned detransitioned in  
14 the sense of coming to identify as the sex they were assigned  
15 at birth?

16 A None of my patients that I've taken care of personally  
17 have detransitioned in that manner of saying that they again  
18 identify with the sex assigned at birth.

19 Q Have you had patients who halted their medical transition  
20 for other reasons?

21 A Yes.

22 Q Can you give an example or two?

23 A Sure. So I had a patient who was nonbinary identified  
24 who had dysphoria about their high-pitched voice and they  
25 started on testosterone and they had a lowering of voice, but

1 they were nonbinary identified and they didn't want other  
2 changes like increased body hair, for example, and so they  
3 stopped testosterone and they were -- in that case, the person  
4 was satisfied with the changes that they had had. I also had  
5 people who, for family or social reasons, have stopped care  
6 for -- have stopped hormones for a period of time and then  
7 resumed them at some other period of time.

8 Q Are there ever people who halt for financial reasons?

9 A Yes. So fortunately we have a pretty good safety net for  
10 that in San Francisco, but I have had -- because in other parts  
11 of my practice, I take care of people from elsewhere as well,  
12 but I have had people who have lost insurance and couldn't get  
13 back to their doctor for a refill on medications.

14 Q But just to be clear, of your patients who stopped or  
15 paused medical transition, in none of those cases it was  
16 because they came to identify as their sex assigned at birth?

17 A Correct.

18 Q Now, some of the State's experts assert that there is a  
19 rise in detransition, again in the sense of using that word to  
20 mean identifying, coming to identify with one's natal sex, and  
21 a rise in detransition and regret about care among adolescents  
22 who are treated with gender-affirming medical care, is there  
23 any evidence to support this rise in detransition and regret  
24 among adolescents?

25 A So there certainly has been an increase in people

1 transitioning, and so, you know, the possibility even if the  
2 percentage remains very low that there could be more  
3 detransitioners, but when I look at my clinical practice and I  
4 work with the UCF Child and Adolescent Gender Center which  
5 includes pediatric endocrinologists, pediatricians, mental  
6 health providers, we're not seeing a big increase in  
7 detransitioners, and other data from my area from northern  
8 California from -- there was a Kaiser Permanente study on  
9 adolescents, trans male adolescents who had gender-affirming  
10 chest surgery from 2013 to 2020, I believe, so pretty recent  
11 group of folks and they identified regret, and presumably  
12 detransition related in two out of over 200. So it hasn't been  
13 my experience that there is this, you know, incredible  
14 explosion of detransitioners that I sometimes heard  
15 characterized in the media.

16 Q Is there any research evidence demonstrating a rise in  
17 detransitioners?

18 A The reports of detransitioners that I'm aware of are  
19 interviewing detransitioners and having -- for example, asking  
20 them why they detransitioned, there isn't -- so there isn't,  
21 for example, for -- we really didn't get a good idea of the  
22 number of transgender people until it was asked --

23 Q Can I go back? I think maybe my question wasn't clear.  
24 Is there any research documenting a rise in rates of  
25 detransition?

1 A No. Just to explain the answer. To actually determine  
2 the rates of detransition, you can either do something like,  
3 you know, observational studies like the Kaiser did in my area  
4 or you can ask a population-based survey which is just in  
5 recent years how we learn even how many transgender people  
6 there might be in the population, and nothing like that has  
7 been determined for detransitioners that any information that's  
8 out there has been interviewing detransitioners from kind of a  
9 wide net of the internet.

10 Q So not quantifying but just telling stories?

11 A I think they've been interested in like asking people why  
12 they detransitioned, for example.

13 Q Some of the State's experts have said detransition is  
14 being ignored by those in the field of providing  
15 gender-affirming medical care. Do you have a response to that?

16 A Yes. So I don't believe that it's being ignored.  
17 Detransition has -- well, first of all, I was involved in 2017  
18 in putting together a session at USPATH on detransition that  
19 was well attended. There have been other sessions since then  
20 in other transgender health conferences that I participated in.  
21 And WPATH has done all-day training that people can do on line  
22 on how to better care for people who detransition, and then  
23 Standards of Care 8 talks about a detransition, so I don't  
24 think it's true that it's been ignored.

25 Q Can you please say what Standards of Care 8 says about

1 detransition?

2 A Yeah. I mean, SOC 8 says some people detransition and  
3 that there's still a paucity of information on detransition or  
4 studies related to it. But people who detransition deserve the  
5 same thoughtful kind of care that people who are transitioning  
6 initially get.

7 Q Does --

8 A Like I think it talks about somewhere in detransition, in  
9 Standards of Care 8 they talk about again interdisciplinary  
10 team or multidisciplinary approach to working with  
11 detransitioners.

12 Q Do they indicate that it's common for people to  
13 detransition in the Standards of Care 8?

14 A No, the Standards of Care 8 says that the phenomenon is  
15 rare.

16 Q I'm sorry, is?

17 A Rare.

18 Q Do you agree there are some people who after undergoing  
19 gender-affirming medical care might come to identify with their  
20 sex assigned at birth or regret treatment?

21 A Yes. Well, I organized -- helped organize a session that  
22 had three or four therapists, people who are either therapists  
23 or therapists in training themselves who also had  
24 detransitioned, so it's clear that those folks exist. It's an  
25 open question of how many of them are out there.

1 Q Given that there are some people who may ultimately come  
2 to identify with their assigned sex and possibly regret  
3 receiving treatment, does that give you pause about supporting  
4 gender-affirming medical interventions in adolescents?

5 A No. You have to realize if -- I mean, I'm a medical  
6 doctor and any treatment that people get has some potential for  
7 them not to fully appreciate the outcome, and regret seems  
8 quite uncommon and maybe less common than other areas of  
9 healthcare. And so I think where there's importance is that  
10 when one is giving informed consent that one include as part of  
11 the discussion that, you know, there is a possibility or there  
12 are some people who have detransitioned or whose gender  
13 identity or treatment goals have varied over time and that that  
14 is, you know, a risk that you could take particular treatment  
15 that you might later not agree that you should have taken but  
16 that that is an uncommon phenomenon.

17 Q Some of the State's experts have asserted that teenagers  
18 are adopting a trans identity because of social influence of  
19 peers and social media, what they have called social contagion.  
20 And then they say these youth will undergo irreversible medical  
21 treatments they will come to regret. I have a few questions  
22 about that topic. First, the experts from the State, some of  
23 them point to a rise in recent years of the number of  
24 adolescents who are referred to gender clinics and suggest  
25 that's evidence that social contagion is at play. First of

1 all, has there been a rise in referrals to gender clinics in  
2 recent years?

3 A Yes.

4 Q Is there an understanding of the reason for this rise?

5 A Yes. Certainly in the United States, one reason is that  
6 there generally wasn't insurance coverage for the care until in  
7 California it was 2013 when that became required. And so when  
8 you have funding and you have programs, people who might have  
9 gotten care from a private practitioner or otherwise not be  
10 measured, now you have kind of insurance information that  
11 they've received care for gender dysphoria and they're being  
12 counted in centers that are providing care so we have a better  
13 sense of the people who are actually getting care, but then  
14 also if care is not available, people don't have anywhere to go  
15 if they need care.

16 I remember as someone who was providing care early  
17 probably in the late '90s, I got a call from a man in Florida  
18 who was apparently well off and had a private jet and said that  
19 he could -- he had this transgender child who was in extreme  
20 distress and he didn't know who he could safely take the child  
21 to and he could fly anywhere. And in that case, I said to him,  
22 well, you know, you could fly long distances, but I did know a  
23 child psychiatrist in Atlanta and I recommended that he go  
24 there, but it just kind of speaks to if you didn't have a  
25 private jet and you weren't able to figure out to call me, how

1 would people, before there were clinics established, how would  
2 they even get care if they were having the symptoms.

3 So that's part of it. I think certainly when there's  
4 more awareness in society of the possibility of getting care,  
5 the people who are, you know, suffering from gender dysphoria  
6 might be more likely to receive care.

7 Q Just to be clear, were you suggesting there were fewer  
8 clinics available to provide care in the past than there are  
9 now?

10 A Yes.

11 Q Does the Standards of Care 8 acknowledge the increase in  
12 referrals in recent years?

13 A Yes.

14 Q I want to read you a statement made by one of the State's  
15 experts, Dr. Hruz, in I believe it was paragraph 76 of his  
16 report. I'm not going to put it up, but it's in the report of  
17 your expert, it's just a sentence. It has been reported that  
18 in --

19 MR. CANTRELL: Your Honor, I would just ask if you  
20 could give me a reference and page number.

21 MS. COOPER: Yeah, it's Dr. Hruz's report, paragraph  
22 76.

23 MR. CANTRELL: You said Hruz?

24 MS. COOPER: Hruz.

25 MR. CANTRELL: Was there a paragraph number?

1 MS. COOPER: 76.

2 MR. CANTRELL: I believe we've pulled up the copy.

3 MS. COOPER: If you can look where it says it has  
4 been reported that in 2018.

5 MR. CANTRELL: I see it.

6 MS. COOPER: Thank you. It says "It has been  
7 reported that in 2018, 2 percent, paren, two in 100, closed  
8 paren, of high school students identified on surveys as  
9 transgender, this is 200 times greater response, a  
10 20,000 percent increase over reports during past decades which  
11 showed a rate of only .01 percent, one in 10,000 people."

12 Do you remember reading that in Dr. Hruz's report?

13 A Yes.

14 Q Is this statement accurate that there's been a 20,000  
15 percent increase in trans-identified high school students in  
16 recent years?

17 A No. So I think he's comparing, I think, the numbers in  
18 the DSM that came -- that were in adults and came from the  
19 Netherlands in 1990 where less than one in 10,000 people in the  
20 Netherlands adults had attended the centralized gender clinic  
21 in Amsterdam so that was data derived before there were surveys  
22 and back in 1990 where they took how many people had been seen  
23 by this gender clinic in The Netherlands basically divided by  
24 the population of the Netherlands, and to say that there was  
25 between 1 and 11,000, 1 in 30,000 were transgender people who

1 had received a gender identity disorder diagnosis from this  
2 clinic. So that on the one hand is a very low number. We did  
3 not have surveys until the late 2000s.

4 No one -- I don't know whether no one thought to do it or  
5 no one was able to do it where they started asking gender  
6 identity on these large population-based surveys in the United  
7 States and elsewhere. And that's how you figure out what share  
8 of the population are transgender. So the first ran in 2012,  
9 published in 2012, but it was in data from the late 2000s, and  
10 since then, there have been a number of reports based on asking  
11 a question on a large health survey that's done -- it's done --  
12 the surveys are actually done in individual states but done in  
13 most or all states where they collect data on prevalence of  
14 various conditions. And when they started doing that, they  
15 found that .5 to .6 percent of adults, .7 percent of  
16 adolescents identified as transgender.

17 The higher number that gets closer to 2 percent is from  
18 the YRBS. There's a different survey that's done of high  
19 school students that in particular includes large urban high  
20 schools like the San Francisco Unified School District and the  
21 LA Unified School District. And they have a question of: Do  
22 you identify as transgender? And that's always shown higher  
23 numbers than this broad population survey. And then lastly,  
24 there have been some surveys where they've asked the question:  
25 Do you identify as transgender or something other than your sex

1 assigned at birth or are you unsure? And those are the  
2 possible choices. And there you get the highest number because  
3 you're asking the question differently.

4 So you're incorporating other people other than just  
5 transgender people. So the numbers really just depend on where  
6 you get them from, but it's a mistake to compare, you know, the  
7 fraction of the adults in the Netherlands who received a gender  
8 dysphoria diagnosis in their clinic in 1990 with a survey in  
9 San Francisco and LA and other places of high school youth in,  
10 you know, in 2017 or whatever years they've done those surveys.

11 Q Just to be clear, the Netherlands data from the 1990s is  
12 clinic participants who had gender identity disorder diagnosis,  
13 and the --

14 A And adults actually too.

15 Q And the higher number is people who identified as  
16 transgender on surveys, it was not clinic referral or clinic  
17 data --

18 A I'm sorry. Yeah, they were not people who had received a  
19 gender identity disorder diagnosis or later starting in 2013,  
20 it was a gender dysphoria diagnosis. So there were -- the  
21 surveys are not people who received a diagnosis, but someone  
22 who answers on the phone or to a written survey do you identify  
23 as transgender or do you identify as a, and then providing a  
24 list of options.

25 Q Is there data that indicates whether the number of people

1 who seek treatment for gender dysphoria is similar to or  
2 different than the number of people who identify as transgender  
3 on a survey?

4 A Yes. There have been a few publications on that and the  
5 fraction of people who seek care is under one in a thousand  
6 whereas the number of youth on one survey is 7 percent, others  
7 are up close to 2 percent depending on how you ask the  
8 question. So it's very different numbers, so it's clear that  
9 there are people who might answer that they are transgender or  
10 have another gender identity or unsure of their gender identity  
11 on a survey, but they're not people who have gone and received  
12 gender dysphoria diagnosis from a clinician.

13 Q The state's experts also talk about what they refer to as  
14 sex ratio changes in clinics. They say that in the past, there  
15 were more assigned males at birth being seen by gender clinics  
16 and now there's more assigned female patients being seen at  
17 clinics, and they point to that and say that supports their  
18 argument about social contagion being at play. So just a  
19 couple questions about this. Has there been a shift in the sex  
20 ratios in gender clinics over time?

21 A So a number of clinics have reported a shift toward more  
22 people assigned female at birth. The clinic that -- the  
23 Dimensions Clinic I worked at had long had a preponderance of  
24 people assigned female at birth, but other clinics had had a  
25 preponderance of people assigned male at birth, and some

1 clinics had reported a shift toward people assigned female at  
2 birth over time.

3 Q Does the Standards of Care 8 note this shift?

4 A Yes, it's noted in the adolescent chapter.

5 Q Is there an understanding of what accounts for this shift  
6 in gender ratios seen in some clinics?

7 A No. And there's still an active discussion. When I was  
8 just at the WPATH conference in Montreal and heard Thomas  
9 Steensma from the Dutch group reporting their data and they had  
10 reported both in youth and adults more people assigned female  
11 at birth, so it didn't seem in their setting to be just  
12 restricted to youth. And then in the questions, there was  
13 someone who was a leader of the Belgian gender dysphoria gender  
14 incongruence program who said that in their experience in  
15 Belgium that there may be similar numbers of assigned male and  
16 assigned female at birth, but more people -- there's a trend  
17 toward more assigned female people seeking care, and so when  
18 you look at care settings, you're seeing more people assigned  
19 female at birth.

20 Q Is there an understanding why in the past in decades past  
21 there were more assigned males at birth brought into gender  
22 clinics?

23 A Yes. If you look in the past, you see that there were --  
24 some of the studies were really just of feminine boys and some  
25 of those studies from UCLA and from Toronto started recruiting

1 patients or including patients in their studies starting --  
2 well, for UCLA I think it was 1960s and for Toronto I think it  
3 was the 1970s, and there was a time where the -- well, some of  
4 those were like UCLA was before there was even a GID of  
5 children diagnosis, but there was a time where those studies of  
6 the GID of children diagnosis reflected parents who were  
7 concerned that their feminine boys would grow up to be gay and  
8 so there was that whole parental concern and maybe clinical  
9 concern about feminine boys.

10 And I think meanwhile at the same time that tomboys, that  
11 people assigned female at birth who had masculine  
12 characteristics did not elicit that same degree of attention.  
13 And I think there maybe has been some societal change where  
14 feminine boys who were never transgender identified to begin  
15 with are maybe more societally accepted or accepted by families  
16 or at least less likely to be brought in for clinical care.

17 Q So the boys who were brought in by parents because they  
18 were feminine and their parents had concern they might grow up  
19 to be gay, is that something that affects the number of boys  
20 that you were seeing compared to girls in the past and how  
21 would that apply now?

22 A Yeah. So if you were looking at gender ratios, the very  
23 earliest studies only were about feminine boys. And but then  
24 over time, I think feminine boys are less likely to be brought  
25 in, and we're talking prepubescent people who are assigned male

1 at birth who where there is not an indication that they're  
2 transgender prepubertally, so they're sometimes described as  
3 feminine boys, that was the description in Richard Green's  
4 feminine boy study at UCLA which was the first longitudinal  
5 study to kind of look at this.

6 Q So do I understand correctly that the significant numbers  
7 of assigned males at birth that were brought in the past for  
8 concerns they might be gay, you don't see those boys brought in  
9 today like you did before?

10 A Right, you wouldn't see them. And more often, the people  
11 that you're -- now that there are places for providing medical  
12 care, you're seeing more of a preponderance of people who are  
13 seeking medical care and it appears more people assigned female  
14 at birth are seeking gender-affirming medical care than people  
15 assigned male at birth.

16 Q So is this shift in ratios partially about not just more  
17 girls but fewer boys because of that phenomenon you described  
18 of feminine boys being brought in in the past?

19 A Yes.

20 Q So some of the State's experts say that youth who  
21 identify as transgender have lots of transgender peers and  
22 consume a lot of social media featuring transgender people and  
23 this supports their social contagion theory. Can you respond  
24 to that or do you have a response to that?

25 A Sure. I think that that is mistaken perspective on what

1 is a common experience in my patients which is that as they  
2 grow to have an awareness of being transgender or having gender  
3 dysphoric symptoms, that they seek out peers who might have a  
4 shared experience and they seek out media to gain more  
5 information and to gain social support.

6 Q If there were adolescents who were asserting transgender  
7 identity because their friends or YouTubers they like are  
8 transgender, would those individuals be given the medical  
9 interventions at issue in this case?

10 A No. So we've been talking about the adolescent chapter  
11 and what the recommended practice is, and the adolescent  
12 chapter talks about people having gender diversity that's  
13 lasted for years. They talk about having long-standing  
14 symptoms and a diagnosis which in the U.S. is the DSM gender  
15 dysphoria diagnosis which has six months of clinically  
16 significant distress which is distress that's severe enough  
17 that you'd go to the doctor about it or social or occupational  
18 impairment.

19 So it's a very different thing than watching a YouTube  
20 video and having some idea that you might want to talk with  
21 peers or others about on social media about your gender  
22 identity. It's a very different thing than going to a  
23 clinician and meeting Standards of Care 8 criteria and DSM  
24 criteria for gender dysphoria and that there's an indication  
25 that that might be treated and that the family is on board to

1 support such treatment.

2 Q Some of the State's experts say that adolescents with  
3 gender dysphoria should not be provided medical interventions  
4 to treat gender dysphoria because many will outgrow it or,  
5 quote, desist in having a trans identity. Do you have a  
6 reaction to that?

7 A Yes. So I think that's based on a mistaken understanding  
8 of what we know about desistence. So first of all, there are  
9 these numbers, these very high numbers of desistence that came  
10 from these early studies that talked about at UCLA and in  
11 Toronto. And so in those studies of -- studies of feminine  
12 boys, you had populations that were recruited, in the case of  
13 UCLA's study, entirely before there was a GID diagnosis and in  
14 Toronto, some of them were before there was a GID diagnosis.  
15 And where descriptions, you know, include sub-syndromal people  
16 for the idea of diagnosis, but even though those who received a  
17 gender identity disorder diagnosis for children, the criteria  
18 then allowed for that diagnosis just based on strong  
19 cross-gender behavior without a transgender identity, and that  
20 was recognized as catching this larger population particularly  
21 of pre-gay feminine boys, and this was understood to be a  
22 concern by the very people involved in making the diagnoses.

23 And Ken Zucker who was leading efforts for both the GID  
24 of children and DSM-IV and then Ken Zucker along with Peggy  
25 Cohen-Kettenis who was in the Dutch group led the effort for

1 the gender dysphoria and childhood diagnosis for DSM-5, and  
2 they recognized that the criteria included too many people who  
3 did not have a transgender identity so they changed the  
4 criteria to add this requirement for this A1 criterion and had  
5 to be present to make the diagnosis. And that was a criterion  
6 for the center for transgender identity.

7 THE COURT: Ms. Cooper, I'm going to interrupt you  
8 before we get into another question. We're going to take a  
9 break for about an hour for lunch. We'll be back at 1:00. If  
10 y'all can discuss y'all's thoughts on how long we're going to  
11 go this evening and following evenings, it would be handy. You  
12 can step down, sir.

13 (Recess at 11:59 AM.)

14 REPORTER'S CERTIFICATE

15 I certify that the foregoing is a correct transcript of  
16 proceedings in the above-entitled matter.

17  
18  
19 /s/ Karen Dellinger, RDR, CRR, CCR  
20 -----  
United States Court Reporter

Date: October 24, 2022

1 (Proceedings resumed at 1:02 p.m.)

2 THE COURT: Be seated, please.

3 MR. STRANGIO: We also wanted to discuss the  
4 scheduling order as well if --

5 THE COURT: Doesn't matter one way or another.  
6 I don't know that he's going to --

7 MR. STRANGIO: I think in principle for today,  
8 if it's okay with the Court, we have agreed to go until 8  
9 p.m. or -- if that works on your end.

10 THE COURT: I'm going to have to discuss that  
11 with grounds maintenance, so to speak, with regard to the  
12 CSO's and what not and what that means for overtime, but I  
13 don't have a problem with that in principle.

14 MR. STRANGIO: From plaintiffs' perspective in  
15 the general scheduling of the trial, we are able to check  
16 the Court's availability, go from 8 to 8. We can  
17 finish --

18 THE COURT: You talking about starting at 8?

19 MR. STRANGIO: Starting at 8, going to 8. We  
20 can finish our case in chief Wednesday afternoon - the  
21 afternoon, early evening, which would then give  
22 defendants, understanding that their scheduling concerns,  
23 Thursday and Friday of this week. We're also available  
24 over the weekend and into the evenings next week and able  
25 to accommodate remote testimony to the extent that would

1 help with any of the scheduling concerns for defendants'  
2 witnesses.

3 THE COURT: If we're going 12 hours a day, I'm  
4 not going to extend my staff into the weekend and after  
5 hours next week. So we'll just have to, if we don't  
6 finish up, reconvene sometime in December.

7 MR. STRANGIO: If we are able to -- if we are  
8 able to get through the majority of the case this week on  
9 that schedule, would you have any availability in November  
10 if it was just a day or two left?

11 THE COURT: I don't know. I mean, I can't tell  
12 you I do now. What I generally call Mack truck is set for  
13 two weeks. If they end in eight, then I've got two days,  
14 but I'm not going to know that until day seven or eight.  
15 And that's a jury trial, and then I have to divine how  
16 long the deliberation is even if the lawyers are on track  
17 with what they think.

18 So if we're talking about flying people in, like  
19 Mr. Jacobs says, I can't give you a date certain until  
20 December because these are civil jury trials that build in  
21 an unknown for me that I can't control. I know that makes  
22 all us lawyers uncomfortable, but it's a situation that I  
23 absolutely can't control.

24 MR. STRANGIO: One other possibility, if we go  
25 regular business hours this week, would evenings next week

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1 Be a possibility in order to --

2 THE COURT: I can't. I can't make that happen.

3 MR. STRANGIO: Understood.

4 THE COURT: I don't even know about the -- we  
5 don't necessarily have to be on the record for this.

6 (A discussion was held off the record.)

7 THE COURT: Go ahead.

8 MS. COOPER: Thank you, Your Honor.

9 BY MS. COOPER:

10 Q. Good afternoon, Dr. Karasic. When we left off before  
11 lunch, just to remind you where we were, I had asked a  
12 question. Specifically, I asked what -- that some of the  
13 state's experts say that adolescents with gender dysphoria  
14 should not be provided medical interventions as treatment  
15 because many will outgrow it or desist in having a trans  
16 identity.

17 I asked you your reaction and you -- please correct  
18 me if I'm not summarizing right. I'm trying to save the  
19 court time and from having you repeat your answers, but I  
20 understood you had said that the desistance literature  
21 that has the high desistance rate was referring to youth  
22 before there was a gender dysphoria diagnosis and that  
23 many of those youth did have -- have a trans identity.

24 Did I summarize that accurately?

25 A. That's correct.

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1 Q. Thank you.

2 So I want to also ask you whether those desistance  
3 studies that showed high rates of desistance, whether --  
4 at what age group did they look at patients?

5 A. So the desistance literature refers to prepubertal  
6 desistance. The data that we have even from the same  
7 group, that Dutch group that reported on prepubertal  
8 desistance showed very different information for people  
9 who -- adolescents who received not the gender identity  
10 disorder in childhood, but the child identity disorder of  
11 adult -- adolescents in adulthood diagnosis; in other  
12 words, those diagnoses after the onset of puberty, and  
13 desistance was very low.

14 Q. So in the desistance studies that showed the high  
15 rate, these were prepubertal children who desisted by  
16 adolescence. Is that what you said?

17 A. Who desisted before the onset of adolescence.

18 Q. And going back to your first point you made about the  
19 studies looking at youth prior to the current gender  
20 dysphoria diagnosis using an older diagnosis that did not  
21 required a transgender identity, just to be clear, I'm not  
22 sure you addressed this.

23 Under the current diagnosis of gender dysphoria in  
24 childhood, would all children who meet the diagnostic  
25 criteria have a gender identity that differs from their

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1 assigned sex at birth?

2 A. So the current -- I'm sorry. You're talking about  
3 the gender dysphoria of children --

4 Q. Yes.

5 A. -- diagnosis.

6 So the current gender dysphoria of children diagnosis  
7 has a requirement for this A1 criterion which is a strong  
8 desire or insistence that they are the other sex.

9 Q. Thank you. Now, has there been any research looking  
10 at desistance rates of prepubertal children since the  
11 gender dysphoria diagnosis has been in place?

12 A. Since the gender dysphoria diagnosis has been in  
13 place?

14 Q. Yes.

15 A. Yes. The one study using a contemporary population  
16 was from Christina Olson and her group. They showed very  
17 low desistance rates in their particular population from  
18 starting -- they started following this group of kids  
19 before the onset of puberty, and they found that those who  
20 -- those who had socially transitioned prior to the onset  
21 of puberty and thus had a transgender identity prior to  
22 the onset of puberty, that it was very uncommon for them  
23 to desist with puberty.

24 Q. You talked about the early desistance literature that  
25 had the high rates. In the clinics that generated that

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1 literature, how did they treat youths who had gender  
2 dysphoria that persisted after the onset of adolescence?  
3 A. So in -- so I mentioned three different studies. One  
4 was very early on and was not treatment study, the one at  
5 UCLA recruiting feminine boys in the 1960s and 70s. The  
6 other two longitudinal studies reporting -- before the  
7 contemporary one that reported higher numbers of  
8 desistance were the Toronto and Amsterdam groups. And  
9 both of those groups, if gender dysphoria persisted into  
10 adolescence, if they had a gender identity of adolescence  
11 or gender dysphoria of adolescence and adulthood, after  
12 the onset of puberty, they were treated with puberty  
13 blockers and hormones.

14 So they recognized that there were pre-pubescent  
15 people who desisted, and yet for those who persisted,  
16 those who had gender dysphoria in adolescence, that they  
17 needed medical treatment -- that they might need medical  
18 treatment.

19 Q. You've been treating patients with gender dysphoria  
20 for over 30 years you said. Did you have adolescent  
21 patients in your care before there were gender-affirming  
22 medical treatments available to those patients?

23 A. Yes.

24 Q. Did those patients who were adolescents and not  
25 receiving blockers or hormone therapy tend to desist after

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1 the onset of puberty?

2 A. No. I had -- before the start of using puberty  
3 blockers, I -- where I worked, adolescents sometimes were  
4 just treated. Hormones were started later in adolescence,  
5 skipping the puberty blocker part but still providing  
6 cross-sex hormones later in adolescence for gender  
7 dysphoria that was -- that was present, but I did take  
8 care of people who actually lacked treatment.

9 Q. Any of --

10 A. Of any treatment and also those who just got  
11 cross-sex hormones but never had the period with puberty  
12 blocker.

13 Q. The patients who had neither type of treatment, did  
14 they tend to persist after onset of puberty if they --  
15 sorry. I guess let me ask again.

16 For your patients who received no blockers or hormone  
17 therapy, if they had gender dysphoria after the onset of  
18 pubertal, did they tend to desist?

19 A. No. They tended to -- those who had gender dysphoria  
20 after the onset of puberty, it tended to persist.

21 Q. The state's experts refer to watchful waiting as an  
22 alternative approach to treating adolescents with gender  
23 dysphoria.

24 Are you familiar with the concept of watchful  
25 waiting?

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1 A. Yes.

2 Q. Who coined that term in this context?

3 A. That was the Dutch group. So the Dutch group had  
4 published data about desistance prepubertally, but they  
5 also published really the seminal studies on using puberty  
6 blockers. So the coin "watchful waiting" about what you  
7 did with prepubertal children where you weren't taking an  
8 active intervention, you weren't treating them medically,  
9 they didn't encourage social transition, although some of  
10 them did and -- but they just followed these kids. And if  
11 gender dysphoria persisted after Tanner stage 2, after the  
12 start of puberty, then they would treat. And that's when  
13 they refer to "watchful waiting," they talked about what  
14 they did with prepubertal children, not what they did in  
15 adolescence where they treated them medically.

16 Q. So is watchful waiting an approach recognized for  
17 treatment for adolescents with gender dysphoria?

18 A. No, not by people in the --

19 Q. In the field?

20 A. No. It's a prepubertal. It's one of the approaches  
21 when people discuss approaches prepubertally.

22 Q. Now, you mentioned Dr. Ken Zucker. Dr. Zucker is a  
23 clinician who the state's experts brought up a number of  
24 times as a supporter of watchful waiting.

25 Did Dr. Zucker's clinic use watchful waiting with

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1 adolescents?

2 A. No. So Dr. Zucker really followed the Dutch model,  
3 and so he was not a supporter of early social transition  
4 for prepubertal kids. But when youth in his clinic  
5 continued to have gender dysphoria in adolescence, they  
6 got treatment with puberty blockers and hormones.

7 Q. Some of the state's experts assert that providing  
8 gender-affirming medical care to adolescents will cause  
9 them to persist in their gender identity; whereas, if you  
10 don't provide treatment, they say they would be more  
11 likely to desist.

12 Do you have a response to that?

13 A. Yeah. I mean, I don't agree with it, primarily  
14 because of my own clinical experience that -- that people  
15 who have gender dysphoria that persist into adolescence  
16 that is unlikely to desist even if people don't have  
17 access to treatment; for example, parents don't agree.

18 There is maybe little bit of data from Christina  
19 Olson's group of -- say, we're looking kind of the  
20 psychological state of pre-pubescent gender diverse  
21 children into adolescence and found that they could  
22 predict the ones that -- that would socially transition or  
23 have a transgender identity based on some psychological  
24 attributes that were more like those of children who were  
25 assigned the other sex at birth.

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1           So there's a little bit of evidence, but I base my  
2 opinion primarily on my experience and experience of  
3 peers.

4 Q.    Are you aware of any evidence that the treatment  
5 causes persistence?

6 A.    No.

7 Q.    Now, the state's experts point to studies showing  
8 that most adolescents who start on blockers, puberty  
9 blockers to treat gender dysphoria, ultimately go on to  
10 hormone therapy as opposed to just going off blockers.  
11 They say that shows that treatment causes persistence.

12       Do you have a reaction to that or response to that?

13 A.    Yes.  So in these studies, they carefully evaluated  
14 the youth who had longstanding gender diversity and had  
15 been followed over a period of time and -- and -- I mean,  
16 my belief and what they put forward, like the Dutch group,  
17 for example, puts forward is that those youth -- it wasn't  
18 that they persisted because of -- of the treatment they  
19 received, but that they received the treatment they did  
20 because they were persisting; that they were adolescents  
21 with, you know, firmly established transgender identity.

22 Q.    Some of the state's experts have taken the position  
23 that gender dysphoria should be treated with psychotherapy  
24 alone and no medical interventions.  Are there any  
25 psychotherapeutic treatments that are have been

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1 demonstrated to be effective at alleviating gender  
2 dysphoria?

3 A. No.

4 Q. Some of the state's experts also suggest that gender  
5 dysphoria can be the result of dysfunctional family, abuse  
6 or other trauma, and if you get to the bottom of that,  
7 that will resolve the gender dysphoria.

8 Do you have a response to that?

9 A. Yes. I mean, I certainly see many youth who come  
10 from dysfunctional families, but there's no evidence that  
11 somehow getting to the root of their dysfunctional family  
12 will relieve their gender dysphoria.

13 Q. Have you had trans adolescent patients who have had  
14 no history of family abuse or trauma?

15 A. Yes. I have many patients who come from very healthy  
16 -- healthy, supportive families who are transgender. And  
17 certainly seems like Christina Olson's co-worker, for  
18 example, has a lot of kids who seem to come from healthy,  
19 supportive families.

20 Q. Is there an understanding of what causes someone to  
21 have a particular gender identity or to experience gender  
22 incongruence?

23 A. So there is some evidence of biological bases. If  
24 you have an identical twin who is trans, you're more  
25 likely to be trans yourself. There are certain hormonal

1 or hormone receptor conditions that affect the hormonal  
2 milieu in utero or afterwards that change the ratio of  
3 people who are transgender.

4 So there are some biological basis, but we really  
5 don't know. I mean, there are also identical twins where  
6 one is transgender and one isn't. So we really don't know  
7 the totality of why some people are trans or not.

8 Q. Some of the state's experts have asserted that gender  
9 dysphoria is a type of body dysmorphic disorder or body  
10 integrity identity disorder, and they thus suggest it  
11 should be treated with psychotherapy like those  
12 conditions.

13 Do you have a response to that?

14 A. Yes. So body dysmorphic disorder is -- is an  
15 entirely different disorder that's more like OCD than  
16 gender dysphoria. And body -- body identity integral  
17 disorder, however it -- however it's called, it's not a  
18 DSM or ICD diagnosis. It's an extremely rare disorder and  
19 comparisons are hard to make because it's something that's  
20 just very rare and there is no evidence that it's, you  
21 know -- that one should treat one the way one treats the  
22 other.

23 Q. To be clear, body integrity identity disorder is not  
24 a recognized DSM diagnosis, but is that the one that has  
25 to do with people feeling they shouldn't have limbs and

1 want to remove limbs?

2 A. Yes.

3 Q. I want to switch gears and talk about another  
4 argument we've heard from the state's experts. Some of  
5 them have asserted that WPATH and the Endocrine Society,  
6 as well as the other medical and mental health  
7 professional organization that support the guidelines of  
8 those two groups are supporting medical interventions for  
9 adolescents with gender dysphoria based on ideology as  
10 opposed to science.

11 What is your understanding of the basis or foundation  
12 of these organization's support for gender-affirming  
13 medical care for adolescents?

14 A. Sure. It's not only WPATH and the Endocrine Society  
15 which, first of all, WPATH's Standards of Care 8 was --  
16 it's not an ideological document. They selected experts  
17 on transgender care from around the world and a lot of  
18 very experienced clinicians and academics who've, you  
19 know, published in the field were -- were part of that.  
20 You just have to look at the chapter that we were just  
21 talking about, the adolescence chapter, and, you know,  
22 some of the other chapters certainly as well, to see that  
23 there is a -- like, a serious effort to review, you know,  
24 the literature in its totality. I view it even, you know,  
25 so WPATH and Standards of Care 8 as really a serious

1 effort by clinicians and health academics to try to  
2 delineate kind of the best care for trans people.

3 And the Endocrine Society or endocrinologists who  
4 have experience working with trans people, and many of  
5 them are very well, if not all of them, are very well  
6 published academicians at various medical universities.  
7 And then you look at the other organizations that support  
8 gender-affirming care, like the American Academy of  
9 Pediatrics, the American Academy of Child and Adolescents  
10 Psychiatry, the American Psychological Association,  
11 American Psychiatric Association, the American Medical  
12 Association.

13 So to, essentially, label almost all the people who  
14 are actually providing care for trans people as ideologues  
15 to me just seems kind of, I don't know, silly or  
16 meaningless to try to throw that label at the people who  
17 are actually trying to care for trans people.

18 Q. Some of the state's experts point to the fact that  
19 WPATH's membership includes nonprofessional members of the  
20 community, and they say this shows that the standards of  
21 care are ideologically driven.

22 Do you have a reaction to that?

23 A. First of all, it's the World Professional Association  
24 for Transgender Health. So one has to be a professional  
25 to be a full member. There are a few -- there are a few

1 lawyers who are involved in health care who are members,  
2 but, overwhelmingly, they are licensed health clinicians.

3 Beyond that to be -- so you can be a supporting  
4 member, for example, if you support the organization. You  
5 don't have voting rights and you don't have to be a health  
6 professional. But the full members are supposed to be  
7 health professionals.

8 The Standards of Care though is not just something  
9 you could sign up for. It was an application process that  
10 was taken very seriously and the editors are all very  
11 distinguished leaders in the field and they picked people  
12 to -- to lead the chapters and then they worked with the  
13 chapter leads from the CDs that were submitted for people  
14 who wanted to be authors on the various chapters to  
15 participate. So there was a -- quite a serious effort to  
16 -- to put the kind of top experts in the field.

17 There were a few community representatives who were  
18 members, like maybe one parent of a trans child. There  
19 were a few people who maybe weren't, but, overwhelmingly,  
20 the members -- the people on Standards of Care 8 were --  
21 were people who were publishing in trans health or had  
22 reputations for the clinical programs that they led in  
23 trans health. So you couldn't just sign up to be an  
24 author of WPATH Standards of Care.

25 Q. Another argument made by some of the state's experts

1 is that they say that WPATH advocates on behalf of its  
2 patient population and, therefore, that means it's an  
3 advocacy group and not a medical group.

4 Do you have a response to that?

5 A. So I belong to the American Psychiatric Association  
6 as well and -- and to my understanding, all of the large  
7 medical and mental health organizations do put out policy  
8 statements that they feel are relevant to the health of --  
9 of the people that they serve, population they serve. So  
10 the American Psychiatric Association puts out policy  
11 papers about the care of given groups of individuals and  
12 what policies should be.

13 The American Psychiatric Association has, you know,  
14 come out against discrimination against transgender people  
15 and conversion therapy, those kind of -- so, you know, all  
16 kind of areas. That's what one of the aspects of what  
17 professional organizations do.

18 Q. So not limited to transgender health care?

19 A. Not limited to transgender health. There are  
20 policies statements on all kind of different populations  
21 and issues.

22 Q. Some of the state's experts argue that the medical  
23 and mental health professional groups are acting based on  
24 ideology and not science and the groups that -- let me ask  
25 that differently.

1           The state's experts that are making that argument  
2 that the groups are acting based on ideology and not  
3 science assert that in these organizations, dissenting  
4 views are censored.

5           Do you have a response to that?

6 A.    So I don't think that's true. And I think of the two  
7 professional organizations that I'm involved in, WPATH and  
8 the American Psychiatric Association. And in each,  
9 certainly a wide variety of views -- spectrum of views  
10 have been presented over the many years I've been involved  
11 with each organization.

12 Q.    You've mentioned -- you talk about Dr. Zucker before.  
13 Do I understand correctly he is someone whose views, at  
14 least in some ways, depart from the main stream views  
15 within WPATH?

16 A.    In some ways, yes.

17 Q.    And has Dr. Zucker presented his views about  
18 treatment of gender dysphoria at WPATH and other  
19 professional conferences in your field?

20 A.    Yes. He's frequently presented at WPATH.

21 Q.    Are you aware of a planned presentation at a  
22 WPATH-related conference by Dr. Zucker that was cancelled?

23 A.    Yes. I was the --

24 Q.    Sorry.

25 A.    Yes. I was of the conference chair and the chair of

1 the scientific committee for the first USPATH, United  
2 States Professional Association for Transgender Health,  
3 conference, the American chapter of WPATH.

4 Q. Did WPATH or the USPATH I guess cancel Dr. Zucker's  
5 presentation because of its disagreement with Dr. Zucker's  
6 view?

7 A. No. Dr. Zucker had two scheduled presentations. One  
8 was on a panel with me, a panel presentation put together  
9 by a long time expert on intersex people. I know -- there  
10 was a panel presentation that was put together by an  
11 expert in -- working with intersex people whose name is  
12 Heino Meyer Bahlburg. H-e-i-n-o. Meyer is M-e-y-e-r.  
13 Bahlburg, B-a-h-l-b-u-r-g. I believe that's how it's  
14 spelled.

15 So Heino put together a panel, invited both Dr.  
16 Zucker and I to be on the panel together. I was the chair  
17 of the conference. I felt it was important to provide  
18 adverse views. I had invited Dr. Zucker to be on panels  
19 before when he was working on the DSM-IV and DSM-5  
20 diagnoses for gender identity disorder and gender  
21 dysphoria. And we did our presentation. And Dr. Zucker  
22 presented his desistance data from his clinic, and -- but  
23 it turned out to be -- I think to raise some strong  
24 emotions.

25 There had been a BBC documentary just before the

1 conference where Dr. Zucker had compared transgender  
2 children to dogs saying, if your child says he's a dog,  
3 would you bring him dog food, or something like that. And  
4 there were some parents of transgender kids who were very  
5 upset and transgender folks and other people who were  
6 upset. And -- and I think maybe felt my being on panel or  
7 his just being at the conference was somehow endorsing  
8 what were maybe some increasing society anti-trans kind of  
9 statements and actions that had been happening around  
10 2017. And so --

11 Q. Can I direct you? You mentioned that he presented at  
12 a panel. I was asking about a panel where his  
13 presentation was cancelled. Can explain what happened  
14 with the presentation that was cancelled?

15 A. Yes. So he had two presentations. He was supposed  
16 to present again the next day. And the president of WPATH  
17 had received something that she interpreted as a threat,  
18 which was that that presentation was not going to happen.  
19 I don't know who -- how that was communicated to her, but  
20 she felt that WPATH couldn't provide adequate security to  
21 have that session go on. And so that session that had  
22 Dr. Zucker and three other presenters, a panel with the  
23 four of them, that was cancelled.

24 Q. Has Dr. Zucker been invited to participate at WPATH  
25 or other professional conferences on gender dysphoria

1 since that incident?

2 A. Yes. So that year -- so WPATH presents one  
3 international conference every other year. And in the off  
4 years, there is a separate USPATH and EPATH, the European  
5 Professional Association for Transgender Health  
6 conference, each of which are put on by WPATH and -- for  
7 those chapters. And so the -- there was -- early in the  
8 year there was the WPATH -- the USPATH conference.  
9 Several months later in Belgrade, there was the EPATH  
10 conference, and Dr. Zucker presented at EPATH.

11 Q. Okay. I want to switch gears now and ask, given your  
12 decades of experience treating adolescents with gender  
13 dysphoria, in your expert opinion, how would it affect  
14 these patients if Act 626 were to take effect and these  
15 youths are unable to receive gender-affirming medical  
16 interventions in Arkansas?

17 A. Sure. I think that one can think about it in a  
18 couple of ways. One is that you have people -- for  
19 example, you have youth who are already on hormones and  
20 have already had social transition and have already  
21 adjusted to being on hormones. So taking that treatment  
22 away -- aside from taking away treatment from people who  
23 haven't received it yet, but taking away the treatment of  
24 people who are already on hormones is, from my experience,  
25 something that's likely to cause harm to the youth. And

1 you potentially can have people who at least medically are  
2 being forced to detransition because of a state law, not  
3 because -- not for any volitional reason. And, again,  
4 from my clinical experience from other circumstances, I  
5 believe that would cause harm to them.

6 Q. Can you describe the ways in which in your clinical  
7 experience it had caused harm to patients?

8 A. Yeah. So what -- I've had a number of patients who  
9 who've had to stop treatment because of various  
10 circumstances, most commonly family circumstances. In the  
11 case where --

12 Q. You've described that.

13 A. -- parents changed their mind. So, you know, there  
14 are different -- people have spouses. There are different  
15 family circumstances where people have had to not receive  
16 or stopped receiving treatment without -- even though they  
17 want to. And then there are --

18 Q. What is the impact when that happens on those  
19 patients?

20 A. So, yeah, those circumstances -- there are other  
21 circumstances as well. And I've seen people have to stop  
22 their treatment. And I've seen people experience great  
23 distress and sometimes suicidal or self-harm behavior  
24 around not having access to hormones or other  
25 gender-affirming care when they have had access.

1 Q. So what about patients who haven't started treatment  
2 but for whom it has been deemed medically indicated, how  
3 -- do you have concerns about how Act 626 would affect  
4 them?

5 A. Yes. So -- so remember that the people who are  
6 getting gender-affirming medical care are the people who  
7 clinicians have determined are having clinically -- by DSM  
8 criteria, at least six months of clinically significant  
9 distress or social or occupational impairments. By  
10 definition those folks are people who are really suffering  
11 because of gender dysphoria. And when a treatment team  
12 has decided that, with the adolescent and parents, that  
13 the best approach is to try to relieve that suffering with  
14 gender-affirming medical care, if -- you know, there's  
15 some factor that says, you know, no, you can't, even  
16 though, you know, that the experts feel that this is the  
17 best way to relieve that treatment [sic], that one would  
18 imagine that that would cause for suffering.

19 Q. And have you had experience with patients who have  
20 had to delay -- I think you talked earlier about patients  
21 had to delay care that they needed. What is the impact on  
22 those patients?

23 A. For the people for whom gender-affirming medical care  
24 is indicated, they can really have severe suffering. And  
25 I've -- so I've had patients who've self harmed, cut

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1 breasts or genitals or patients who made suicide attempts.  
2 I've had patients who've reacted very badly to lack of  
3 access to care.

4 MS. COOPER: Thank you. I have no further  
5 questions.

6 MR. CANTRELL: Your Honor, could we have a very  
7 brief break before beginning cross?

8 THE COURT: How long?

9 MR. CANTRELL: I would say a restroom break.

10 THE COURT: Sure. Court will be in recess for  
11 ten minutes.

12 (A recess was taken at 1:45 p.m. Until 1:55 p.m.)

13 THE COURT: We're back on the record. Go ahead,  
14 Mr. Cantrell.

15 MR. CANTRELL: May I proceed?

16 THE COURT: I said go ahead. I mumbled though,  
17 but, yes, you may proceed.

18 MR. CANTRELL: Thank you, Your Honor.

19 CROSS-EXAMINATION

20 BY MR. CANTRELL:

21 Q. Dr. Karasic, good afternoon.

22 A. Good afternoon.

23 Q. My name is Michael Cantrell. We met before. I  
24 believe it was virtually.

25 A. Yes, in deposition.

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1 Q. So I work for the Attorney General's office and I  
2 represent the defense in this case. Got some questions  
3 for you.

4 Would you agree that there are developmental factors  
5 beyond biology that influence whether a person experiences  
6 gender incongruence? Isn't that right?

7 A. What I would say is that the --

8 THE COURT: Let me interrupt you real quick.

9 (Off the record.)

10 THE COURT: Do you mind repeating your last  
11 question?

12 MR. CANTRELL: I will, Your Honor.

13 BY MR. CANTRELL:

14 Q. Dr. Karasic --

15 THE COURT: You may want to speak into your mic  
16 as well.

17 MR. CANTRELL: For sure.

18 THE COURT: The whole podium will come up if you  
19 would like.

20 BY MR. CANTRELL:

21 Q. Dr. Karasic, me re-ask my question.

22 You would agree that there are developmental factors  
23 beyond biology that influence whether a person experiences  
24 gender incongruence. Isn't that right?

25 A. The way I would say it is that the biological factors

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1 that we know only partially account for people's gender  
2 identity, and so there are other factors that -- that we  
3 don't know and biological, developmental, and -- you know,  
4 that -- where we can't necessarily, you know, attribute it  
5 to any one thing. Maybe in the future we'll know more,  
6 but we don't.

7 Q. But you would agree that people -- as a psychiatrist,  
8 you would agree that people make sense of who they are  
9 within their own culture, correct?

10 A. People do make sense of who they are within their own  
11 culture, but there's also psychiatric symptoms that are  
12 present across cultures.

13 Q. You would agree that different cultures provide  
14 people with different social roles that they can identify  
15 with or not identify with. Isn't that right?

16 A. I would agree with that.

17 Q. And you would agree that social expectations  
18 concerning how, for example, a boy should behave or dress  
19 can play a role in whether a person experiences gender  
20 incongruence, correct?

21 A. So I would try to distinguish between a child's  
22 understanding of gender roles or gender expectations and  
23 then the physical -- the physical symptoms of gender  
24 dysphoria that -- the symptoms particularly around the  
25 body, the stressor on the body that an adolescent

## Cross - Karasic

1 experiences. And so there are -- there are both, you  
2 know, society -- societal or individual conceptions of  
3 gender and then there are the symptoms that we make  
4 diagnoses based upon.

5 Q. So those -- those societal understandings can play a  
6 role in whether a person experiences incongruence with  
7 their gender, correct?

8 MS. COOPER: Objection. Mischaracterizes  
9 testimony.

10 THE COURT: Were you going to repeat your  
11 objection?

12 MS. COOPER: Objection. Mischaracterizes the  
13 testimony.

14 THE COURT: Overruled. Answer the question if  
15 you can, Doctor.

16 THE WITNESS: Can you restate the question --  
17 the question?

18 BY MR. CANTRELL:

19 Q. I believe I asked if those social expectations  
20 concerning social roles can play a role in whether a  
21 person experiences gender incongruence, correct?

22 A. So there can be aspects of one's gender dysphoria  
23 around expected social roles, but those -- the whole kind  
24 of syndrome of gender dysphoria to me lacks an easy  
25 explanation of a particular culture because I see it

1 across different cultures, different immigrant cultures,  
2 people from, you know, different religious, political  
3 backgrounds, et cetera.

4 Q. So you would agree that all of those different social  
5 factors can play a role in gender incongruence. Am I  
6 understanding you correctly?

7 A. I think I'm saying the opposite, that I see people  
8 from all kinds of backgrounds who have some symptoms in  
9 common. And so I would hesitate to attribute their gender  
10 incongruence to, let's say, the social expectations of  
11 their parents, for example.

12 Q. So can you -- you cannot provide a set list of, for  
13 example, gender identities, correct?

14 THE COURT: I'm not sure I even understand your  
15 question, Mr. Cantrell. A set list of gender identities?

16 MR. CANTRELL: Yes. So let me think about --

17 THE COURT: Just rephrase your question because,  
18 I mean -- I think he's enumerated some: Male, female,  
19 nonbinary. And I'm not sure where you go from there, but  
20 those are three that are a set list that we discussed  
21 already, if that's what you're asking. If that's not what  
22 you're asking, I need you to clarify.

23 BY MR. CANTRELL:

24 Q. Let me ask you this.

25 Dr. Karasic, you would agree that are gender

## Cross - Karasic

1 identities that go beyond male, female, and nonbinary,  
2 correct?

3 A. So people can have different identities and different  
4 labels for their identity, but we really just have one --  
5 well, two really gender dysphoria diagnoses, gender  
6 dysphoria of childhood and gender dysphoria of adolescence  
7 and adulthood, that set forth what kinds of treatment may  
8 or may not be provided.

9 Q. And I'm not asking about the treatment. I'm asking  
10 about the gender identity. So --

11 A. Well, I just say that because it's important to  
12 recognize that people can state, like, on a survey  
13 whatever their identity may be, but that is a different  
14 thing from the clinical care we provide.

15 Q. Okay. So you -- can you provide a list of all the  
16 different gender identities that there are?

17 A. No.

18 Q. Do you -- so let me -- let me move on and I'll come  
19 back to this in a moment.

20 So health collection data in the United States is  
21 much more variable and fragmented than in the Scandinavian  
22 countries, for example. Isn't that right?

23 A. Certain health collection data, certainly from one  
24 clinical system to another in -- in some European  
25 countries, they have more centralized data that -- because

## Cross - Karasic

1 they have national health services that we don't have.  
2 There's other data, for example, like the -- there are  
3 these population-base national health surveys that are  
4 done in the US that don't have that problem because  
5 they're based on calling people on the phone and  
6 interviewing them based on -- on where they live,  
7 basically, not what health care they receive.

8 But within health care systems -- our health care  
9 systems are fragmented so we don't have the same common  
10 database within a health system.

11 Q. And, specifically, if we're talking about the country  
12 of Sweden, Sweden has a national health system with  
13 centralized data collection, correct?

14 A. Yes.

15 MR. CANTRELL: Your Honor, may I approach the  
16 witness?

17 THE COURT: Certainly.

18 BY MR. CANTRELL:

19 Q. Dr. Karasic, if you would, I've handed you a binder.  
20 If you would, open that to tab number 4.

21 THE COURT: Is this Exhibit 17?

22 MR. CANTRELL: Yes, Your Honor.

23 THE COURT: Are you going to offer it because it  
24 hadn't been received into evidence? It's not been  
25 stipulated to at least based on the form I looked at so --

## Cross - Karasic

1 MR. CANTRELL: That's correct, Your Honor.

2 THE COURT: We need to address that before we go  
3 forward, I guess.

4 MR. CANTRELL: Okay. Your Honor, I intended to  
5 do something similar to what plaintiffs' counsel did with  
6 the WPATH Standards of Care 8 and read some of the  
7 excerpts into the record.

8 THE COURT: I guess what I'm saying is, is that  
9 I know that this is a exhibit that's in controversy.  
10 Before we go there, since it wasn't stipulated and that  
11 was brought to my attention, I need to deal with that,  
12 whether or not there is an objection to that. No  
13 objection was raised when we were going into what I will  
14 call protocol 8 or Standard of Care 8, but I'm on alert  
15 for this one. So I need to know how you plan to address  
16 it as far as an exhibit before we just talk about it in  
17 court.

18 Do you have somebody that's going to offer it or?

19 MR. CANTRELL: I was hoping that Dr. Karasic  
20 could testify to the basis for this exhibit.

21 MS. COOPER: We would object to that as hearsay.

22 MR. CANTRELL: Your Honor, this is not hearsay.  
23 It is -- it is a public record. It sets out the --

24 THE COURT: It's not a public record,  
25 Mr. Cantrell. I mean, he can -- if it's filed in some

## Cross - Karasic

1 court or some courthouse somewhere like a property record  
2 or something like that. The fact that it's available to  
3 the public doesn't make it a public record as defined by  
4 the hearsay rules. Are you saying that it's filed  
5 somewhere of record that I can, say, go to the courthouse  
6 or something and receive it as a public record as opposed  
7 to it's out there generally available to the public?

8 MR. CANTRELL: No, Your Honor. It's a public  
9 record in the sense of it's published by the National  
10 Board of Sweden, which is a public entity and, Your Honor,  
11 there is a --

12 THE COURT: I'm not sure that qualifies it as a  
13 public record. Now, you might be able to impeach him with  
14 it, but it doesn't pass muster that some society that's a  
15 public association or something has filed a report. What  
16 it looks like to me, the National Board of Health and  
17 Welfare doesn't make it a public record.

18 MR. CANTRELL: Your Honor, it is a publication  
19 of --

20 THE COURT: I agree with you there --

21 MR. CANTRELL: -- of an entity that is a public  
22 entity of the country of Sweden. Your Honor, I do have  
23 authority where these sorts of records have been accepted  
24 under Federal Rules of Evidence 803(8), the public records  
25 exception.

## Cross - Karasic

1 THE COURT: Okay. Can I see that?

2 MR. CANTRELL: Give me one moment, Your Honor.

3 THE COURT: You want this witness to testify  
4 whether or not it's a public record under the government  
5 of Sweden? How is he going to do that?

6 MR. CANTRELL: Your Honor, Mr. Karasic has  
7 knowledge -- I believe his testimony will show he has  
8 knowledge of the summary of guidelines. We went through  
9 it in his deposition and he's familiar with it.

10 MS. COOPER: Objection, Your Honor. The fact  
11 that he was shown it and asked about it in his deposition  
12 doesn't mean he can --

13 THE COURT: I understand. I'm going to let him  
14 try, but first I need to see your authority that I can  
15 accept some public record from Sweden as a public record  
16 under the Federal Rules of Evidence.

17 MR. CANTRELL: Yes, Your Honor. So there is a  
18 Second Circuit case, *US versus Gahloub*, G-a-h-l-o-u-b.  
19 It's 385 F.2d 567. In that case, the Second Circuit ruled  
20 that the district court properly admitted into evidence a  
21 summary of Syrian census records as being within the  
22 official records exception to the hearsay rule.

23 There are other cases. For example, *Glowczenski*  
24 *versus Taser International Incorporated*, 928 F.Supp 2d  
25 564. In that case there was a Canadian -- excuse me.

## Cross - Karasic

1 Nonpeer reviewed British Columbia report, so it was from  
2 Canada, that the plaintiffs argued the report was  
3 inadmissible but the --

4 THE COURT: Census records are one thing. Some  
5 summary that has opinions regarding medical treatment is a  
6 whole other thing, Mr. Cantrell. I mean, do you have --

7 MR. CANTRELL: Your Honor, I believe the same --  
8 the same analysis would apply being a publication of a  
9 public entity of a foreign country, but still being  
10 something that -- that is on its face --

11 THE COURT: Can I see your cases because I'm not  
12 drawing -- can I see --

13 MR. CANTRELL: This is my four cases, Your  
14 Honor.

15 THE COURT: Mr. Cantrell, I'm going to let you  
16 try to lay a foundation for this document while I'm  
17 looking over these case. Two are district court cases,  
18 one from New York and one from Utah. They're not even  
19 circuit court cases, much less Eighth Circuit case.

20 The other one I'm not sure that I -- based on what  
21 you have highlighted, that I can understand what that one  
22 is about because all it says is the objection that the  
23 documents constituted inadmissible hearsay and that the  
24 records were admissible under the public records  
25 exception, but doesn't tell me anything about what they

## Cross - Karasic

1 were. I can read the case while you're doing that, but  
2 why don't you go ahead and see if you can establish  
3 through this witness that it's a public record and I'll  
4 see where we are after that.

5 MS. COOPER: Your Honor, if I may, the public  
6 records exception to the hearsay rule, it has to be a  
7 reporting of something under legal duty to report.

8 THE COURT: I understand that in the rule. I'm  
9 looking at that. Here's some case law that argues that,  
10 if it would have been a public record in the United  
11 States, it's admissible at least past the hearsay rule,  
12 but I'm not sure that any report from the American Medical  
13 Association or otherwise would qualify as public record  
14 under the United States rules. That's the bar you're  
15 going to have to chin, Mr. Cantrell, but I'll let you try.

16 MS. COOPER: I was suggesting, I think, that  
17 given there is a legal duty to report that, I think those  
18 types of documents are --

19 THE COURT: I'm going to give him a shot.

20 MR. CANTRELL: Your Honor, if I may address.  
21 The legal duty to report does not apply in this case.  
22 It's a disjunctive test. So all that's required is that  
23 it sets out the office's activity and that the -- part (b)  
24 of Rule 803(8) provides that the opponent does not show  
25 the source of information or other circumstances indicate

## Cross - Karasic

1 a lack of trustworthiness.

2 THE COURT: That's kind of the catch-all. If  
3 they can show it's not trustworthy, it doesn't get in no  
4 matter what angle, but --

5 MR. CANTRELL: In any case, that's the  
6 plaintiffs' burden, Your Honor.

7 So I just will also add, Your Honor, the residual  
8 exception also applies and -- anyway, so let me -- let me  
9 lay a foundation.

10 BY MR. CANTRELL:

11 Q. Dr. Karasic, you're familiar with the summary of new  
12 guidelines published by the Swedish National Board of  
13 Health and Welfare correct?

14 A. No, not in that I don't use it in my regular  
15 practice. I'm familiar with it because you brought it up  
16 in deposition and so we went through it in deposition, but  
17 I don't really have a sense of how it was constructed and,  
18 you know, what was behind it.

19 In fact, since I've -- I was a keynote speaker at the  
20 Scandinavian Transgender Conference --

21 Q. Let me ask you not to go into extraneous matters.

22 A. I'm just saying why I don't know what -- where this  
23 falls within the spectrum of documents that come out of  
24 Sweden, but I did go through it with you in deposition.

25 Q. So, Dr. Karasic, you were aware of this document

## Cross - Karasic

1 prior to the deposition, correct?

2 A. I had seen it and it may have been from a prior  
3 deposition because I've been an expert in a few cases. I  
4 don't recall the context in which I had seen it or if I'd  
5 seen it first with you or perhaps in a deposition in  
6 another case, but I had seen it. I have seen it before  
7 seeing it right now.

8 Q. So in any case, you do recognize it as a summary of  
9 new guidelines from Sweden, correct?

10 A. I recognize it as a statement from the from the  
11 National Board of Health and Welfare Socialstyrelsen.  
12 It's their Care of Children and Adolescents with Gender  
13 Dysphoria Summary. That's what it says on it. I don't  
14 know that, you know, kind of where it falls within kind of  
15 the health care provision in Sweden.

16 I've been there and I've spoken to people, but I  
17 don't -- to Sweden, but I have not -- I have no -- I don't  
18 know that was before this. I have no idea what the  
19 process was behind this.

20 Q. Dr. Karasic, you -- you testified in deposition in  
21 this case previously. Is that correct?

22 A. I'm sorry?

23 Q. You testified in a deposition in this case  
24 previously?

25 A. Yeah, with you.

## Cross - Karasic

1 Q. And you were under oath during that deposition,  
2 correct?

3 A. Yes. Yes.

4 Q. You swore to tell the truth, correct?

5 A. Yes.

6 Q. Did you tell the truth during your deposition?

7 A. I tried to.

8 Q. And plaintiffs' counsel was present, correct?

9 A. Yes.

10 Q. I'll show this is the videotaped deposition of Dan  
11 Karasic, Palo Alto, California -- this was done remotely  
12 -- Friday, May 20, 2022.

13 Turning to Page 87. So looking at -- we looked at an  
14 exhibit. I asked, all right. I've marked as Exhibit 7  
15 and tell me if you recognize this exhibit.

16 Yes, I recognize it.

17 Question: Okay. You recognize this as a summary of  
18 new guidelines from Sweden from earlier this year?

19 Answer: Yes.

20 Is that your testimony?

21 A. Yeah, I assumed so. I mean, I -- I recognize it as  
22 what it is and I'm may have seen it before in the prior  
23 deposition, but I don't recall.

24 MR. CANTRELL: Your Honor, with that basis, we  
25 move to admit Defendants' Exhibit 18 into evidence.

## Cross - Karasic

1 MS. COOPER: Objection, Your Honor. Maintain  
2 our objection that it's hearsay and is not subject to the  
3 business records exception and that the -- there is no  
4 support for a report from a government.

5 THE COURT: I think he's offering it under the  
6 public records, to the extent there is a difference  
7 between (6) and (8) of 803.

8 MS. COOPER: I'm sorry. I meant public record.  
9 Your Honor, none of the elements in (a) -- (8)(a) that are  
10 required to be set out office activities -- none of the  
11 requirements set out under (8)(a), which are -- that's a  
12 record is a -- or a statement of a public office sets out  
13 the office's activities, a matter observed while under  
14 legal duty to report, or in a civil case or against the  
15 government in a criminal case, factual findings of a legal  
16 authority.

17 MR. CANTRELL: Your Honor, that is apparent from  
18 the face of the document itself. It sets out those  
19 activities.

20 MS. COOPER: I'm sorry. Which one -- the  
21 section? I didn't understand which was apparent from its  
22 face, which one of those prongs.

23 THE COURT: I think he's referring to page 2  
24 under the bold face summary that says, the National Board  
25 of Health has been commissioned by the Swedish government

## Cross - Karasic

1 to update the national guidelines on care of children, et  
2 cetera, et cetera, is where I think he says that it sets  
3 forth the activities -- the office's activities.

4 I'm assuming that that's what you're referring to,  
5 Mr. Cantrell.

6 MR. CANTRELL: Yes, Your Honor.

7 THE COURT: I'm going to let you ask questions  
8 about it. I'm going to decide later whether or not to  
9 admit it as an exhibit, but you can certainly impeach him  
10 with it for now.

11 MS. COOPER: Your Honor, if I may just add, in  
12 the case I cited, it specifically says that, whereas here  
13 the foreign census books are kept on a village-by-village  
14 basis by a centralized census bureau. The probable  
15 objectivity of the records accurately indicating national  
16 origin, a distinguishing fact possibly subject to a  
17 greater recording error such as person's exact age,  
18 significantly overshadow the hearsay risk alluded to by  
19 the appellate.

20 So there's nothing on here, no foundation to say that  
21 this is objective. And in addition, there is also hearsay  
22 within hearsay within this document. So I continue to  
23 object to its admissibility.

24 THE COURT: I haven't gotten into those hearsay  
25 with hearsay or opinion issues yet. I'm going let him

## Cross - Karasic

1    impeach, which I feel like I'm on pretty firm ground on  
2    any.  In any event, I'm going to let him go there and I  
3    can always -- the luxury of this being a bench trial and  
4    can work my way backward if I need to.

5            So go ahead, Mr. Cantrell.

6            MR. CANTRELL:  Thank you, Your Honor.

7    BY MR. CANTRELL:

8    Q.    So Dr. Karasic, the Swedish National Board was  
9    commissioned by the Swedish government to update the  
10   national guidelines on care of children and adolescents  
11   with gender dysphoria.  Is that correct?

12   A.    Yes.  Now, I'm reading the first sentence of the  
13   summary, and that's what it states.  Yes.

14   Q.    And the Swedish National Board deemed that, for  
15   adolescents with gender incongruence, the risk of puberty  
16   blocker and cross-sex hormones outweigh the possible  
17   benefits, correct?

18   A.    I'm assuming that it says that in somewhere.  I know  
19   we --

20           THE COURT:  I need you to point him to it.  You  
21   can't just tell him to agree to an article that he claims  
22   he may not have ever have read, plus I need to follow  
23   along.  Where are you?

24           Hang on a second, Doctor.  He's going to get me to  
25   where he is in the document.

## Cross - Karasic

1 MR. CANTRELL: Yes, Your Honor. If you would  
2 turn to Page 3 of the document.

3 THE COURT: We're jumping forward. You had him  
4 on the summary and that's where I was. Now we're on Page  
5 3. I'm there.

6 MR. CANTRELL: There is a heading,  
7 "Recommendations and Criteria For Hormonal Treatment."

8 THE COURT: I'm there.

9 MR. CANTRELL: Your Honor, I will -- I'll just  
10 read the portions into the record if that is --

11 THE COURT: You can't just do that. This is  
12 impeachment. You get to ask him about whether or not he  
13 agrees with this or not, but I'm not going to allow you to  
14 read it into the record when I haven't made a  
15 determination about whether or not it's admissible. I  
16 told you I was going let you impeach on it, but you can't  
17 just read to me. I can do that.

18 MR. CANTRELL: Understood, Your Honor.

19 THE COURT: Okay. Go ahead.

20 BY MR. CANTRELL:

21 Q. So the question again is, Dr. Karasic, the Swedish  
22 National Board deemed that, for adolescents with gender  
23 incongruence, the risk of puberty blockers and cross-sex  
24 hormones outweigh the possible benefits, correct?

25 THE COURT: Are you asking him if that's what it

## Cross - Karasic

1 says? Because that's what you just did to me. You read  
2 it into the record. You didn't ask him a question. You  
3 said, is that what it says.

4 Mr. Cantrell, ask him a question that has to do with  
5 the substance. I told you not to just read it into the  
6 record. And you asked him, is that what it says. That's  
7 not really a question. You just read it into the record.

8 MR. CANTRELL: Your Honor, I was reading from my  
9 outline which I --

10 THE COURT: Be flexible enough to move off of it  
11 and work with what I'm asking you to do. Okay? Ask him a  
12 question.

13 MR. CANTRELL: I'm endeavoring to follow Your  
14 Honor's instructions.

15 THE COURT: Thank you. What's your question of  
16 this witness with regard to Page 3?

17 BY MR. CANTRELL:

18 Q. So the question is whether Sweden determined that the  
19 risk of puberty blockers outweigh the possible benefits.

20 MS. COOPER: Objection. Outside the scope of  
21 direct and expertise.

22 THE COURT: Unless we want to take the time of  
23 him recalling this witness in his case in chief, I'm going  
24 to let him go well without the scope of direct. This is  
25 cross-examination and I'm going to give him as much leeway

1 as I can.

2 But are you asking him if he agrees with that or  
3 disagrees with that? I can read here that that's what  
4 they said.

5 MR. CANTRELL: I'm asking him if in fact that  
6 was what he understood Sweden to have found.

7 THE COURT: Answer the question, Doctor.

8 THE WITNESS: Sure. So first of all, one has to  
9 distinguish between Sweden and the NBHW. On my -- the  
10 chapter I worked on on Standards of Care 8, one of the  
11 members of the chapter was the founder and director of the  
12 Swedish general clinic at Karolinska Institute who does  
13 not agree with this.

14 So I agree that this -- that there is this NBHW that  
15 put out this statement because I'm - I'm reading it.

16 Q. I'm sorry. I could not -- you agree that --

17 A. I agree that the statement is here, but I don't agree  
18 that that's the equivalent of saying Sweden, as in all of  
19 Sweden, because I -- I mean, maybe -- I don't know if this  
20 is admissible, but, you know, because I've worked with  
21 people from Sweden who don't agree with this. So I  
22 wouldn't call it Sweden. I would say the NBHW has written  
23 this.

24 Q. I may have spoken loosely a minute ago when I asked  
25 the question. I intended to refer to the Swedish National

1 Board in that case.

2 So is it your understanding that the Swedish National  
3 Board has determined that for adolescents, the risk of  
4 puberty blockers outweigh the possible benefits?

5 A. So I see that they wrote that -- that they wrote that  
6 the risk currently outweighs the benefits and treatment  
7 should be offered only in exceptional cases. So I'm  
8 reading that, but I'm also reading the part that says  
9 they're continuing to provide treatment in exceptional  
10 cases.

11 So they do have a recognition about concerns about  
12 risk versus benefits and they're also making the judgment  
13 to continue providing the treatment under exceptional  
14 cases.

15 I make that not under a great understanding of the  
16 whole document, but just the part that you've had me look  
17 at just now.

18 Q. And so I asked about puberty blockers. The same  
19 would apply to cross-sex hormones, correct?

20 THE COURT: You mean whether or not --

21 MS. COOPER: -- point him to a particular part  
22 of the document you're asking him to look at.

23 MR. CANTRELL: It's the same part of the  
24 document.

25 BY MR. CANTRELL:

## Cross - Karasic

1 Q. The sentence says, GnRH analogues and  
2 gender-affirming hormone treatment. So they are --it  
3 looks like the NBHW is writing here that the risks  
4 currently outweigh the possible benefits and, therefore,  
5 the treatment should only be offered in exceptional cases.

6 THE COURT: For both puberty blockers and  
7 hormones? I think that was his question.

8 THE WITNESS: Well, yeah. It says that the  
9 treatments, within an S on the end. So I assume that  
10 they're referring to both treatments, both GnRH analogue  
11 and gender-affirming treatment.

12 BY MR. CANTRELL:

13 Q. One of the reasons the Swedish National Board came to  
14 this determination was the lack of scientific evidence  
15 supporting those treatments, correct?

16 MS. COOPER: Objection, Your Honor. This  
17 doesn't sound like impeachment. This sounds like trying  
18 to elicit testimony to make his case from Dr. Karasic.

19 MR. CANTRELL: Your Honor, Dr. Karasic testified  
20 to studies --

21 THE COURT: If you can tell me where it is that  
22 it says it in this report and ask him if he agrees with  
23 that. I'm still not following along with the leap you  
24 made from point one to the one you're about to make.  
25 Where is it that --

## Cross - Karasic

1 MR. CANTRELL: If you look in that -- or the --  
2 that same paragraph, the second sentence beginning, this  
3 judgment is based --

4 THE COURT: On Page 3?

5 MR. CANTRELL: On Page 3, yes, Your Honor.

6 THE COURT: So I'm there. Three factors. What  
7 is your question about that -- that portion of the first  
8 paragraph?

9 MR. CANTRELL: So the question is, is whether  
10 Dr. Karasic would agree that Sweden made that  
11 determination based on a lack of reliable evidence.

12 THE COURT: Or this --

13 MS. COOPER: Objection.

14 THE COURT: -- this national board as opposed to  
15 Sweden. Either way.

16 Answer the question if you can, Doctor.

17 THE WITNESS: Sure. Well --

18 THE COURT: Do you know the line and sentence  
19 that we're on within Page 3?

20 THE WITNESS: I do see this next sentence that  
21 says -- well, I don't know if I should be reading into the  
22 record, but that -- that says that they made this judgment  
23 and the reasons that they made this -- this judgment. I  
24 also -- I mean, if you're asking my opinion, I would say  
25 I --

## Cross - Karasic

1 THE COURT: I'm not sure he is. I need to find  
2 out what his question is now that we're on the right line.

3 What is your question, Mr. Cantrell?

4 MR. CANTRELL: My question is whether Dr. Karasic  
5 understands that one of the factors that the Swedish  
6 National Board based this determination on was the lack of  
7 scientific evidence supporting the treatments.

8 THE COURT: Are you asking him does he  
9 understand what the sentence reads?

10 MR. CANTRELL: I'm asking him for his  
11 understanding.

12 THE COURT: He's not going to know. He might --  
13 unless he was on the board, he's not going to know. You  
14 can ask him, is that what it says on the paper there. But  
15 what you're asking him is their state of mind, not what  
16 the report says. So you need so develop whether or not he  
17 was in on these conversations or what, but it's one thing  
18 to ask him, is that what it says.

19 MR. CANTRELL: Will Your Honor permit that line  
20 of questioning?

21 THE COURT: Sure. Perhaps even suggesting it.

22 BY MR. CANTRELL:

23 Q. Okay. So Dr. Karasic, isn't it true that the Swedish  
24 National Board's judgment was based on the lack of  
25 scientific evidence concerning those treatments?

## Cross - Karasic

1 THE COURT: Sounds a lot like the same question,  
2 Mr. Cantrell.

3 MR. CANTRELL: I'm sorry, Your Honor. I --

4 BY MR. CANTRELL:

5 Q. Is it your understanding, Dr. Karasic, that based on  
6 the -- this document, that based on the summary  
7 guidelines, that Sweden based its determination in part on  
8 the lack of reliable scientific evidence concerning the  
9 treatments?

10 MS. COOPER: Same objection, Your Honor. We've  
11 not established that Dr. Karasic knows anything about the  
12 process that this board engaged in or its thinking.

13 MR. CANTRELL: Your Honor, I don't think that is  
14 necessary for this line of questioning.

15 THE COURT: It is for the question you asked,  
16 whether or not he has personal knowledge as to what they  
17 did. You've showed him this report in an improper  
18 impeachment. I'm not holding a trial ed class here, but  
19 you can say, I want you to assume for a moment that what  
20 is read on this paper is what they found. Do you agree  
21 with that or not, would be an appropriate line of  
22 questioning. Asking him whether or not that's what they  
23 thought and did when he wasn't part of that board, he  
24 doesn't have any way to answer that unless he was part of  
25 the board or has spoken with people who were part of the

## Cross - Karasic

1 board or something like that.

2 But the way you're phrasing your questions asks him  
3 to pretend he was part of the board and ask what their  
4 findings were.

5 I can read what they say they were and you can ask  
6 him whether or not he agrees with that, but you can't ask  
7 him to confirm that that's what they found because he --  
8 all he can say is, I can read like everyone else in the  
9 room that that's what they said they did, but we can all  
10 do that. We can all read the report and assume that  
11 that's what they wrote down, but to ask him if that's why  
12 they did it, he doesn't know. He can either agree or  
13 disagree with what they found.

14 MR. CANTRELL: Your Honor, let me ask if we  
15 might proceed in a different way. Under Federal Rules of  
16 Evidence 803(18), statements in learned treatises,  
17 periodicals, or pamphlets can be used as long as they're  
18 called to the attention of an expert and the publication  
19 is a reliable authority. So I would propose to proceed in  
20 that way by -- by, essentially, using this document as a  
21 learned treatise, periodical, or pamphlet.

22 MS. COOPER: Your Honor, if I may, we would  
23 object to that because there is -- it's not been  
24 established that this is the type of document that would  
25 -- that Dr. Karasic would ordinarily rely on in his

## Cross - Karasic

1 professional work.

2 THE COURT: Mr. Cantrell, why are you using this  
3 -- if you're going under 18, why are you using this  
4 witness to do it?

5 MR. CANTRELL: Your Honor --

6 THE COURT: I mean, I don't know that he can.  
7 You're saying I guess -- I'm allowing you to go into it  
8 despite the fact it may or may not be hearsay to impeach  
9 him, but what is the purpose of you bringing this up with  
10 this witness? We're wasting a lot of time swimming around  
11 in circles about whether or not you can ask him, do you  
12 agree with it or not. And we're all aware that this is  
13 what the board says.

14 What is it you're trying to accomplish with this  
15 witness?

16 MR. CANTRELL: Your Honor, the Swedish  
17 guidelines -- the Swedish guidelines demonstrate that,  
18 according to their judgment, the -- these treatments --  
19 the harms outweigh benefits.

20 THE COURT: First of all, on 18 the statement  
21 was not called to the attention of this witness. Well, it  
22 was on cross-examination, but it wasn't relied upon him.  
23 The publication is established as reliable authority.  
24 I'll give you a maybe on that. By the expert's admission  
25 or testimony, he hasn't done that. Or by other expert

1 testimony or by judicial notice. I don't know enough to  
2 judicially notice this.

3 So it looks like you may have to wait for another  
4 expert who can testify that they considered this valid  
5 science.

6 MR. CANTRELL: Understood, Your Honor.

7 THE COURT: So I'm still trying to figure out  
8 what you're trying to accomplish with this witness through  
9 this document other than whether or not he agrees with it.

10 MR. CANTRELL: Your Honor, I'll move on and we  
11 will have an opportunity at a later time as Your Honor has  
12 suggested.

13 THE COURT: Okay.

14 BY MR. CANTRELL:

15 Q. Let me just ask on -- on these guidelines,  
16 Dr. Karasic, Sweden -- the Swedish National Board has  
17 recently adopted guidelines that are more cautious than  
18 what WPATH allows, correct?

19 A. So that's my understanding from when I think it was  
20 the -- or not the -- deposition that we did that we went  
21 through this document, and I agreed that it's more  
22 cautious from that -- from -- you know, from having read  
23 it that time, that that is more cautious than Standards of  
24 Care 8 that we've been talking about or Standards of Care  
25 7 was still in effect at that time.

## Cross - Karasic

1 Q. Just to be clear, your understanding is that the  
2 Swedish National Board's guidelines are more cautious than  
3 WPATH's correct?

4 A. Yes. It says only in exceptional cases, and I think  
5 that's more cautious than --

6 THE COURT: Are we on a different set of  
7 guidelines?

8 MR. CANTRELL: No, Your Honor. That was just a  
9 final question concerning this, not -- not trying to bring  
10 in the document.

11 Okay. One moment, Your Honor. May I approach, Your  
12 Honor?

13 THE COURT: Sure.

14 BY MR. CANTRELL:

15 Q. Dr. Karasic, if you would please turn to Exhibit 13.  
16 I'm sorry. Exhibit 13, which is behind tab 1.

17 A. Behind tab 1?

18 Q. Yes.

19 THE COURT: Before we go down that same rabbit  
20 hole, can the plaintiffs stipulate to Exhibit 13 which is  
21 the DSM-5?

22 MS. COOPER: I'm sorry. We did not stipulate.

23 THE COURT: Why not?

24 MS. COOPER: Same. Hearsay.

25 THE COURT: Go ahead and ask whatever questions

## Cross - Karasic

1 you have, Mr. Cantrell. I'm not going admit it at this  
2 time, but I'm not sure why not.

3 BY MR. CANTRELL:

4 Q. Dr. Karasic, you're familiar with the Diagnostic and  
5 Statistical Manual based on your previous testimony today,  
6 correct?

7 A. Yes.

8 Q. And this is commonly called the DSM-5?

9 A. Yes.

10 Q. It is a compilation of criteria, psychiatric  
11 diagnoses, correct?

12 A. Yes.

13 Q. And the DSM-5 is generally relied on by practitioners  
14 in the psychiatric profession, correct?

15 A. Yes.

16 Q. You consider the DSM to be a reliable authority?

17 A. Yes.

18 Q. The DSM includes a chapter on gender dysphoria,  
19 correct?

20 A. Yes.

21 Q. Do you recognize Defendants' Exhibit 13 as the  
22 DSM-5's chapter on gender dysphoria?

23 A. Yes.

24 Q. And you submitted a report in this litigation,  
25 correct?

## Cross - Karasic

1 A. Yes.

2 Q. In that report you quoted from the DSM-5's chapter on  
3 gender dysphoria, correct?

4 A. Yes.

5 Q. You have used the DSM-5's chapter on gender dysphoria  
6 for making decisions concerning the treatment of patients  
7 with gender dysphoria, correct?

8 A. Yes.

9 MR. CANTRELL: Your Honor, I would move to admit  
10 Defendants' Exhibit 13 into evidence.

11 THE COURT: Under 18 -- let me finish.

12 Under 18, you can read portions of it into evidence,  
13 but it's not received as an exhibit, at least under 18.  
14 So since it's a nonjury trial, it's basically -- doesn't  
15 make any difference, but if you'll point to me in the  
16 portion of Exhibit 13 so I can highlight that so I can go  
17 back to it without referring to the record, I'll do so.  
18 Where are you?

19 MR. CANTRELL: Yes, Your Honor. I'm on Page 451  
20 at the bottom.

21 THE COURT: I'm there.

22 MR. CANTRELL: And there is -- there is a large  
23 center paragraph about --

24 THE COURT: The need to introduce?

25 MR. CANTRELL: Yes. If you would go one, two,

## Cross - Karasic

1 three, four, five lines up.

2 THE COURT: Up or down?

3 MR. CANTRELL: Up from the bottom, I'm sorry, of  
4 that paragraph starting, transgender refers to.

5 THE COURT: We're all trying to get there  
6 doctor. You can work your way like I can.

7 THE WITNESS: Yeah.

8 THE COURT: In this chapter. So you're talking  
9 about the first full paragraph that says, in this chapter?

10 MR. CANTRELL: No. The second paragraphs  
11 beginning, the need to introduce.

12 THE COURT: You told me to go up from there so I  
13 was --

14 MR. CANTRELL: Up from the bottom of that  
15 paragraph.

16 THE COURT: Up from the bottom. Okay. What are  
17 you -- gender identity as a category?

18 MR. CANTRELL: It begins, transgender refers to.  
19 It is one, two, three, four, five lines up from the bottom  
20 of that.

21 THE COURT: I'm there. And are you -- how far  
22 down are you asking to go?

23 MR. CANTRELL: Only that sentence, Your Honor.

24 THE COURT: Okay. I can read it. You don't  
25 have to read it into -- well, I'll read it into the

## Cross - Karasic

1 record.

2 Transgender refers to the broad spectrum of  
3 individuals who transiently or persistently identifies  
4 with a gender different from their natal gender, period.

5 MR. CANTRELL: Yes, Your Honor.

6 THE COURT: Keep going.

7 MR. CANTRELL: And the next statement is on Page  
8 453. There is a heading, diagnostic features. The second  
9 paragraph beginning, gender dysphoria manifests.

10 THE COURT: Yes. Manifests.

11 MR. CANTRELL: Only that sentence.

12 THE COURT: Gender dysphoria manifests itself  
13 differently in different age groups.

14 MR. CANTRELL: Yes, Your Honor.

15 THE COURT: Okay.

16 MR. CANTRELL: On Page 455, the bottom  
17 paragraph.

18 THE COURT: In both?

19 MR. CANTRELL: 455, the bottom paragraph. Yes,  
20 the second sentence beginning, early onset gender  
21 dysphoria.

22 THE COURT: Starts in childhood and continues  
23 into adolescence and adulthood. Continue?

24 MR. CANTRELL: Yes, and continuing on for the --

25 THE COURT: Or there is an intermittent period

## Cross - Karasic

1 in which gender dysphoria desist and these individuals  
2 self identify as gay, homosexual -- or homosexual followed  
3 by recurrence of gender dysphoria.

4 MR. CANTRELL: Then the next sentence as well.

5 THE COURT: Late onset gender dysphoria occurs  
6 around puberty or much later in life.

7 MR. CANTRELL: Yes, Your Honor. And two more  
8 sentences on Page 456, the last sentence of the first full  
9 paragraph and then the following -- I guess the following  
10 two sentences of the next paragraph.

11 THE COURT: The late onset group may have more  
12 fluctuations in degree of gender dysphoria and be more  
13 ambivalent about and less likely satisfied after gender  
14 reassignment surgery. Both adolescent and adult natal  
15 females, the most common -- in both adolescent and adult  
16 natal females, the most common course is the early onset  
17 form of gender dysphoria. Okay.

18 MR. CANTRELL: And the next sentence as well,  
19 Your Honor.

20 THE COURT: The late onset form is much less  
21 common in natal females compared with natal males.

22 MR. CANTRELL: And that is all for that exhibit,  
23 Your Honor.

24 THE COURT: Okay. Next question of this  
25 witness.

## Cross - Karasic

1 MR. CANTRELL: Thank you, Your Honor.

2 THE WITNESS: Are you asking me any questions  
3 about the DSM-5?

4 MR. CANTRELL: May I approach, Your Honor?

5 THE COURT: You can. Are you going to ask him  
6 anymore about the DSM-5?

7 MR. CANTRELL: No, Your Honor.

8 THE WITNESS: Can I comment? This is the  
9 outdated version of the text and there is now --

10 THE COURT: If the lawyer wants to ask you that  
11 question, you can, but you can't gratuitously offer  
12 information on cross.

13 THE WITNESS: Okay.

14 THE COURT: Thanks for offering.

15 THE WITNESS: Okay.

16 MR. CANTRELL: This is Defendants' Exhibit 14.

17 BY MR. CANTRELL:

18 Q. Dr. Karasic, if you would turn to tab 2, which should  
19 be Defendants' Exhibit 14.

20 THE COURT: Mr. Cantrell, this is version 7.  
21 We've been talking about 8. Why aren't we in 8?

22 MR. CANTRELL: Yes, Your Honor. Version 8 only  
23 came out a month or so ago. When the SAFE Act was passed,  
24 version 7 was in effect.

25 THE COURT: Okay. Continue.

## Cross - Karasic

1 THE WITNESS: So I'm sorry. Where are you  
2 asking me to look at?

3 THE COURT: He's about to ask you about WPATH 7.

4 THE WITNESS: Okay. From the report you're just  
5 asking me questions?

6 MR. CANTRELL: Tab 2 of your binder.

7 THE WITNESS: Thank you.

8 MR. CANTRELL: Your Honor, I would ask how you  
9 would like to handle the --

10 THE COURT: Depends on your question,  
11 Mr. Cantrell. I can't tell you that just yet. You tell  
12 me what you're trying to accomplish with this witness with  
13 this document, and I'll see if we can accelerate the pace  
14 in which that happens.

15 MR. CANTRELL: Yes, Your Honor.

16 Let me -- let me jump in and we'll do it as  
17 expeditiously as we can.

18 BY MR. CANTRELL:

19 Q. Dr. Karasic, you're familiar with version 7 of the  
20 guidelines published by the World Professional Association  
21 for Transgender Health, correct?

22 A. Yes.

23 Q. That organization is commonly called WPATH, correct?

24 A. Yes.

25 Q. Those guidelines are entitled, Standards of Care for

## Cross - Karasic

1 the Health of Trans-sexual, Transgender, and Gender  
2 Nonconforming People, correct?

3 A. Yes.

4 Q. And the authors of WPATH 7 guidelines intended for it  
5 to provide the gold standard of care, correct?

6 A. Well, I can't speak to how -- I mean, I was one of  
7 the authors, but I think it was an attempt to provide  
8 practice guidelines to provide the best care, and so that  
9 counts as the gold standard.

10 Q. Okay. Those guidelines were in effect when the law  
11 that's the subject of this litigation was enacted,  
12 correct?

13 A. Yes.

14 Q. And the WPATH guidelines do not attempt to grade the  
15 quality of the evidence for their recommendations,  
16 correct?

17 THE COURT: I didn't hear that. It says, they  
18 don't attempt to grade the quality of the evidence for  
19 their recommendations?

20 MR. CANTRELL: That's correct.

21 THE COURT: I don't understand the question.

22 BY MR. CANTRELL:

23 Q. Okay. Dr. Karasic, the WPATH guidelines do not try  
24 to evaluate how high quality or low quality of the  
25 evidence for the recommendations are, correct?

## Cross - Karasic

1 A. So those grade recommendations came into common usage  
2 after Standards of Care 7 were -- version 7 were written.  
3 This was released in 2011. Standards of Care 8, which was  
4 after the grade came into common usage, did utilize a  
5 modified grade criteria.

6 Q. Okay. So your answer is no I take it then.

7 THE COURT: I think what he's saying was they  
8 weren't grading evidence at the time 7 was published.

9 THE WITNESS: Right. You asked the standards of  
10 care in your question, and there's Standards of Care 7 and  
11 8. And 7 did not attempt to grade because it wasn't in  
12 common usage when the process went about of creating 7.  
13 It did become common usage for practice guidelines in  
14 between 7 and 8, and so for 8 there was an attempt to use  
15 a modified grade criteria.

16 BY MR. CANTRELL:

17 Q. So I understand you to say that it is correct that  
18 the WPATH 7 guidelines do not grade the quality of the  
19 evidence, correct?

20 A. Yes.

21 Q. Okay. Thank you. Do you recognize Defendants'  
22 Exhibit 14 as the WPATH version 7 guidelines?

23 A. Yes. Under section 2, yes.

24 Q. I'm sorry. Yes?

25 A. What's under section 2, yes, is Standards of Care 7.

## Cross - Karasic

1 Q. That has a sticker on it that says, Defendants'  
2 Exhibit 14, correct, on the front page behind that tab?

3 A. It says 2 on the tab and there is -- I don't see a  
4 sticker on the exhibit but --

5 THE COURT: Mine does.

6 THE WITNESS: Okay. I think mine may not.

7 MS. COOPER: Your Honor, if I may clarify. No  
8 objection to reading excerpts in under the learned  
9 treatise exception, but I object to admitting into  
10 evidence, just to be clear on the record.

11 THE COURT: We're not there yet, but go ahead.

12 BY MR. CANTRELL:

13 Q. Dr. Karasic, you've discussed the WPATH version 7  
14 guidelines in a report you submitted in this litigation  
15 correct?

16 A. Yes.

17 Q. And you've used the WPATH 7 guidelines for making  
18 decisions concerning the treatment of patients with gender  
19 dysphoria. Is that right?

20 A. Yes.

21 Q. And a psychiatric diagnosis related to gender  
22 identity is necessary to receive cross-sex hormones under  
23 the WPATH version 7 guidelines, correct?

24 A. So the Standards of Care 8 does have a requirement  
25 for a diagnosis. Standards of Care 7 did not list a

## Cross - Karasic

1 diagnosis because we were in between DSM-IV-TR and DSM-5,  
2 which was GID, gender identity disorder, and gender  
3 dysphoria. And so Standards of Care 7 talks about gender  
4 dysphoria, kind of small letter G and D, as a symptom but  
5 not as a diagnosis because that diagnosis had not been  
6 established by the APA yet.

7 THE COURT: Just so I'm clear, Doctor, same  
8 requirement, just different terminology as to 7 and 8?

9 THE WITNESS: No. Standards of Care 7 -- well,  
10 Standards of Care 7 and 8 are different documents, but  
11 there are many principles that carry through. 7 was the--

12 THE COURT: Mr. Cantrell was asking you whether  
13 or not it was a requirement that a diagnosis of gender  
14 dysphoria be made.

15 THE WITNESS: Right.

16 THE COURT: You said no because gender dysphoria  
17 wasn't called that under DSM-IV, not until DSM-5. So my  
18 question was, except for the terminology used in 7 and 8,  
19 was the requirement the same?

20 THE WITNESS: The requirement of a diagnosis was  
21 -- it's clearly one of the -- it's kind of one of the  
22 bold-faced recommendations in Standards of Care 8. The  
23 Standards of Care 7, there is talk of diagnosis I believe,  
24 but not a specific diagnosis.

25 So there isn't a requirement of a specific diagnosis

1 just because there was the knowledge that gender identity  
2 sort of -- that that diagnosis was being discarded and  
3 gender dysphoria was going to replace it. There was also  
4 the knowledge that in that ICD-10 was going to be  
5 transitioning to ICD-11. So it was written with a sense --  
6 an understanding of that the specific diagnoses were in  
7 flux, but it certainly establishes kind of an equivalent  
8 that the person has persistent gender dysphoria in order  
9 to receive treatment. It just isn't saying they should  
10 get -- have a specific diagnosis because of the knowledge  
11 that those diagnoses were about to change.

12 And then by Standards of Care 8, the international  
13 community had adopted ICD-11, and the United States and  
14 other places that use the DSM were already on DSM-5 and  
15 actually DSM-5-TR, the updated DSM-5, by the time  
16 Standards of Care 8 came out.

17 So they -- so Standards of Care 8 has this  
18 requirement of gender incongruence except in countries  
19 that are using a different diagnosis referring to the  
20 United States, which is gender dysphoria.

21 BY MR. CANTRELL:

22 Q. So regardless of whether we call it gender identity  
23 disorder or gender dysphoria, a psychiatric diagnosis  
24 related to gender identity was necessary to receive  
25 cross-sex hormones under the WPATH 7 guidelines, correct?

1 A. I think -- I'm trying to think of how it was phrased  
2 because of the flux in diagnoses, but it was -- there was  
3 an establishment that the person had what was really the  
4 equivalent of a gender dysphoria diagnoses; that they had,  
5 you know, strong and persistent gender dysphoria in order  
6 to get treatment.

7 So I think, in essence, there was an idea that people  
8 should have the diagnosis, whatever the diagnosis was to  
9 come, even in this state of flux of what the diagnosis  
10 was, and then once when there was the update in Standards  
11 of Care 8 and those diagnoses were well established, they  
12 could kind of list those as requirements.

13 Q. So I understand you to say that it's correct that a  
14 psychiatric diagnosis was required under the WPATH 7  
15 guidelines, correct?

16 A. I'm just sure --

17 MS. COOPER: Objection. Confusing.

18 THE WITNESS: I'm not sure it phrases that way.  
19 You know, I can look through the whole document, but just  
20 because -- so the international community was moving  
21 toward ICD-11 where gender incongruence is not a  
22 psychiatric diagnosis and the United States with DSM-5 was  
23 continuing to have a psychiatric diagnosis with gender  
24 dysphoria.

25 So because WPATH is -- also is our international

1 guidelines, I think they're trying to accommodate everyone  
2 by talking about the gender dysphoria that's treated  
3 should be something that would today get one of those  
4 diagnoses of internationally a gender incongruence or in  
5 the United States gender dysphoria, but without listing a  
6 specific diagnosis because of that uncertainty. That's my  
7 sense even from being part of a of the process.

8 Did they ever say psychiatric diagnosis in the text?  
9 I don't recall. But that was the -- the intent was  
10 something kind of akin to a gender dysphoria diagnosis in  
11 order to get care.

12 Q. That was my question. Yes.

13 A. The gender dysphoria diagnosis didn't exist yet, but  
14 something akin to what would be the gender dysphoria. I  
15 think there was intent that that was part of the  
16 requirement in order to get care.

17 Q. Right. Okay. Thank you.

18 I believe your testimony was that both the WPATH and  
19 Endocrine Society Guidelines require comprehensive mental  
20 health assessment before an adolescent is provided with  
21 cross-sex hormones, correct?

22 A. Yes.

23 Q. And evaluation of a mental health -- excuse me. Let  
24 me start over.

25 Evaluation of mental health for minors must be done

1 by a mental health professional as opposed to a primary  
2 care physician, correct?

3 A. From minors in the Endocrine Society Guidelines and  
4 in Standards of Care 7. In Standards of Care 8 more  
5 generally, especially when they're talking about adults,  
6 they use the word "health professional" because there are  
7 some countries that don't have robust mental health  
8 professionals. Not the United States. But in the  
9 adolescent chapter, it specifically says -- recommends  
10 that that individual should be a mental health  
11 professional.

12 Q. What is the youngest age at which a provider may  
13 prescribe puberty blockers for gender dysphoria?

14 A. So the youngest age is not a specific age, but it's  
15 the onset of puberty or as recognized by Tanner stage 2.

16 THE COURT: What stage 2? Just what was the  
17 word.

18 THE WITNESS: Tanner, T-a-n-n-e-r.

19 THE COURT: I didn't hear the Tanner part.  
20 Thank you.

21 BY MR. CANTRELL:

22 Q. What is the youngest age at which a provider may  
23 prescribe cross-sex hormones for gender dysphoria?

24 MS. COOPER: Objection. Confusing.

25 THE COURT: Do you understand the question,

## Cross - Karasic

1 Doctor?

2 MS. COOPER: Didn't know which standards were  
3 being referred to.

4 THE WITNESS: I mean, I can --

5 THE COURT: Well, make your clarification. Are  
6 we talking about under 7, 8, or the endocrine guidelines?

7 BY MR. CANTRELL:

8 Q. If Dr. Karasic is aware of the standards under all  
9 three, I would be happy for him to testify.

10 A. The Endocrine Society talks both about the age of  
11 majority being 16, but also that there's some evidence for  
12 using it in young -- using gender-affirming hormones in  
13 younger adolescents age 13 and a half to 14. So that's  
14 the Endocrine Society.

15 In Standards of Care 7, there is mention that the age  
16 of majority in some countries is 16, but it does not set a  
17 minimum age for gender-affirming hormones.

18 In Standards of Care 8, there is not a minimum age  
19 for gender-affirming hormones but there is a lot of  
20 discussion about minors having had years of gender  
21 diversity and having the cognitive maturity to understand  
22 risk/benefits, future consequences before starting, and  
23 that that might set an age floor of sorts.

24 Q. Let me ask you about three surgeries. Okay. So  
25 first of all, what is the youngest age at which a provider

## Cross - Karasic

1 may perform a mastectomy for gender dysphoria?

2 A. So if we -- first of all, we're talking about  
3 Standards of Care 7 was released in 2011 and then the  
4 Endocrine Society in 2012, Standards of Care 8 in 2022.  
5 And so Standards of Care 7 did not provide a minimum age,  
6 although there's some confusion because there's some text  
7 about that in Standards of Care 8. But when you look at  
8 Standards of Care 7, it says preferably with a year of  
9 being on testosterone before chest surgery that it can be  
10 provided under the age of 18.

11 In the Endocrine Society Guidelines, it does not --  
12 it does not set an actual minimum age in the updated  
13 Endocrine Society Guidelines of 2017.

14 In Standards of Care 8, I guess I said that it talks  
15 about cognitive maturity, but doesn't set a specific age.

16 Q. So WPATH version 8 does not have a minimum age for  
17 mastectomy?

18 A. Right. We talked about the -- I talked about this  
19 earlier in my testimony, that Standards of Care 8 sets 18  
20 for phalloplasty but for other surgeries, in lieu of  
21 setting a minimum age, it goes into length of cognitive  
22 maturity and ability to understand the consequences in a  
23 way that they can assent along with parental consent.

24 Q. Okay. So I asked you about mastectomies. I want to  
25 ask you about vaginoplasty and phalloplasty as well. If

## Cross - Karasic

1 you could tell us -- first of all, I guess let me just  
2 ask.

3 So the -- I understand your testimony to be that the  
4 WPATH version 8 standards do not set a lower age for  
5 vaginoplasty, correct?

6 A. Yes. So from my testimony earlier, the Standards of  
7 Care 8 does not -- sets an age for phalloplasty, but for  
8 other surgeries, including vaginoplasty, it does not set a  
9 specific age. It instead talks about the maturity of the  
10 minor and the cognitive maturity and the stability and  
11 longevity of the gender dysphoria.

12 Q. And that's a departure from version 7 of the WPATH  
13 guidelines, correct?

14 A. Yes.

15 Q. And WPATH 7 guidelines, what was -- was there a lower  
16 age limit for vaginoplasties?

17 A. So Standards of Care 7 recommends a minimum age of  
18 the age of majority, in the United States that would be  
19 18, for genital surgery.

20 MR. CANTRELL: Your Honor, I want to ask  
21 Dr. Karasic about some of the statements in the WPATH 7  
22 guidelines. Would you permit me to read those or how  
23 would you like me to proceed?

24 THE COURT: Ask the question and I'll see if  
25 you're on solid ground, Mr. Cantrell. I'm going to see

## Cross - Karasic

1 how you do and we'll go from there. I'm not going to  
2 prejudge your questions. So go ahead and ask them.

3 BY MR. CANTRELL:

4 Q. Dr. Karasic, please turn to Page 8 of the WPATH  
5 version 7 guidelines.

6 THE COURT: Which is your Defendants' 14,  
7 correct?

8 MR. CANTRELL: That is correct.

9 THE COURT: All right.

10 BY MR. CANTRELL:

11 Q. If you look down the very bottom of Page 8, there are  
12 -- three lines up from the bottom.

13 THE COURT: Let me know when you're there  
14 doctor.

15 THE WITNESS: Page 8.

16 BY MR. CANTRELL:

17 Q. Page 8 very bottom, three lines up from the bottom.  
18 It says, often with the help of psychotherapy, some  
19 individuals integrate their trans or cross-gender feelings  
20 into the gender role they were assigned at birth and do  
21 not feel the need to feminize or masculinize their body.

22 Do you agree with that statement?

23 A. So what I would say is that it's useful to think  
24 about the people in whom gender-affirming medical care is  
25 indicated as opposed to all people who might be

1 questioning their gender identity. So we know that the  
2 percentage of people who are -- who actually seek medical  
3 care is much lower. And so there may be people who have  
4 gender dysphoria but milder symptoms around their body who  
5 might decide with their health care providers not to make  
6 intervention with their body because they're not having  
7 severe symptoms, and then there are others who go to their  
8 health care professionals with very severe gender  
9 dysphoria and really do need medical or surgical  
10 intervention.

11 THE COURT: That was -- Mr. Cantrell, I only had  
12 one criticism. When you read, make a conscious effort to  
13 read more slowly for the benefit of my court reporter.

14 MR. CANTRELL: Yes, Your Honor.

15 THE COURT: Thank you.

16 BY MR. CANTRELL:

17 Q. Dr. Karasic, if you would, look at the bottom of Page  
18 10. And two lines up from the bottom over on the  
19 right-hand column or the right-hand side, the line  
20 beginning, in children and adolescents. Do you see that?

21 A. I'm sorry. On Page 10?

22 Q. Yes. The very bottom.

23 A. That's assessment and treatment of children with  
24 adolescence gender dysphoria?

25 Q. Yes.

## Cross - Karasic

1 A. Okay.

2 Q. Second line up over on the right, in children and  
3 adolescents. Do you see that?

4 A. Maybe I'm looking at another page. Is there two?

5 THE COURT: Right here, Doctor. Look down that  
6 same page right in that area, you'll see section --

7 THE WITNESS: In children and adolescents,  
8 you're saying the sentence that starts, in children and  
9 adolescents, a rapid and dramatic --

10 BY MR. CANTRELL:

11 Q. Yes. It says, in children and adolescent, a rapid  
12 and dramatic developmental process, physical,  
13 psychological, and sexual, is involved and there is  
14 greater fluidity and variability in outcomes, particularly  
15 in prepubertal children.

16 So, Dr. Karasic, you would agree that in children and  
17 adolescents, there is this rapid and dramatic  
18 developmental process, correct?

19 A. Well, first of all, I'm -- I do want to note that  
20 this is the 2011 version of the guidelines. And since  
21 then, there has been, you know, a new kind of set of  
22 texts.

23 Q. Would that have changed since 2011, Dr. Karasic?

24 A. Rapid and dramatic developmental process is involved  
25 and greatly -- yeah. I'm not quite -- I'm actually not

## Cross - Karasic

1 quite sure what that sentence means in kind of a broader  
2 context. Do you have a particular question about that  
3 sentence for me?

4 Q. Well, you're a psychiatrist, correct?

5 A. Yes.

6 Q. And you've dealt with children and adolescents  
7 extensively, correct?

8 A. Yes.

9 Q. And you've dealt with adolescents with gender  
10 dysphoria, correct?

11 A. Yes.

12 Q. Is it -- is it your experience that adolescents are  
13 undergoing a rapid and dramatic developmental process that  
14 is physical, psychological, and sexual?

15 A. So, yeah, that's what I was just trying to kind of  
16 understand what they were saying. This is -- this is  
17 referring to a rapid and dramatic developmental process  
18 overall for adolescents because there are aspects in  
19 adolescents where there is a rapid development  
20 neurocognitively more generally.

21 In terms of -- in terms of gender dysphoria, there is  
22 a belief that -- that for many youth who become trans  
23 adolescents, that there is evidence of gender diversity  
24 that precedes that, prior to kind of a recognition of that  
25 person that they are trans.

1           And so anyway so just trying to understand the  
2 sentence within the kind of current context of Standards  
3 of Care 8.

4 Q.   And none of that would have changed since 2011,  
5 correct?

6           MS. COOPER:   Object to form.

7           MR. CANTRELL:   Let me ask a better question.

8 BY MR. CANTRELL:

9 Q.   So if -- if it were the fact that adolescents undergo  
10 a rapid and dramatic developmental process in terms of  
11 their physical, psychological, and sexual aspects, that  
12 would not have changed since 2011, correct?

13 A.   Yeah.   If we're talking about adolescents in general  
14 and that they -- you have a rapid developmental process in  
15 adolescents, and the adolescents in 2011 and adolescents  
16 in 2022 has aspects of rapid developmental process.

17 Q.   And if you would turn to Page 12.   There is a  
18 heading, phenomenology in adolescents.   Do you see that  
19 heading?

20 A.   Yes.

21 Q.   And the first line under that reads, in most  
22 children, gender dysphoria will disappear before or early  
23 in puberty.

24           So is it -- let me ask you this.   Is it your  
25 understanding that the WPATH 7 guidelines acknowledge that

1 -- that children who have prepubertal gender dysphoria  
2 will in most cases desist before they reach puberty?

3 A. So Standards of Care 7 I think made these statements  
4 in using the data that they had at the time, which were  
5 these older studies primarily with feminine boys. There  
6 were some studies out of -- out of Amsterdam. The modern  
7 American study had not yet happened, so that Standards of  
8 Care 8, 11 years later based on current information, might  
9 phrase it a little bit differently. This is referring to  
10 though those older studies. Many of them were just with  
11 feminine boys where there were high desistance rates.

12 Either way, it's a prepubertal phenomenon. It's just  
13 the discussion has gotten broader as new data has emerged.

14 Q. So am I correct that your answer is, yes, that the  
15 authors of WPATH 7 acknowledge that gender dysphoria will  
16 disappear before early puberty?

17 MS. COOPER: Objection. Mischaracterizing  
18 testimony.

19 THE WITNESS: I think I testified how I  
20 believed. The sentence is what the sentence is. And I  
21 would say that, when with the same head editor, Eli  
22 Coleman, the Standards of Care had an opportunity to kind  
23 of update their discussion of this, that it was a broader  
24 discussion based on evidence that has come out since 2011.

25 MR. CANTRELL: Your Honor, at this time. I move

## Cross - Karasic

1 to admit Defendants' Exhibit 14 into evidence.

2 MS. COOPER: Objection. Again, the learned  
3 treatise exception allows excerpts to be read in, but does  
4 not allow admissibility. It is hearsay.

5 THE COURT: You read those portions into the  
6 record that you wanted. The document itself isn't  
7 admissible unless you're offering it under some other --

8 MR. CANTRELL: Yes, Your Honor. I would like to  
9 offer the entire document, but other than the --

10 THE COURT: For what purpose?

11 MR. CANTRELL: -- other than the portion -- I'm  
12 sorry.

13 THE COURT: It's --

14 MR. CANTRELL: Your Honor, this --

15 THE COURT: -- 90 pages or 102-some-odd pages  
16 long including funding and other things. What portions do  
17 you find relevant that you didn't read into the record?  
18 I'm assuming you read me everything you found relevant,  
19 but I don't necessarily assume that.

20 MR. CANTRELL: This document is the -- these are  
21 the Standards of Care that were -- the Standards of Care  
22 that were current when the SAFE Act was passed. We're not  
23 even offering them for the -- entire document to prove --

24 THE COURT: If you'll winnow down what you  
25 consider relevant, I'll consider your offer, but I'm not

## Cross - Karasic

1 going let you put 102 pages in of things that are clearly  
2 not relevant to our discussion from my reading enjoyment.

3 If you find something that you weren't -- that you  
4 didn't just read into the record under 803(18) and you'll  
5 winnow down your Exhibit 14 to what really matters, I'll  
6 consider that exhibit. But I think it's overly broad as  
7 presented to me in this block of paper.

8 MS. COOPER: Your Honor, I emphasize that that  
9 document addresses much more than care of adolescents and  
10 is not relevant in -- many portions of that document in  
11 addition to the hearsay issue.

12 THE COURT: I'll take your 14 under advisement,  
13 pending it being thinned down to what actually matters to  
14 this case.

15 MR. CANTRELL: Can I have an opportunity to  
16 bring that back to the Court at a later time?

17 THE COURT: Absolutely.

18 MR. CANTRELL: Your Honor, I do want to make  
19 clear --

20 THE COURT: You'll have until 8:00 Friday night.

21 MR. CANTRELL: If it makes any difference, I  
22 would not offer it at this point to prove the truth of the  
23 matter asserted. So it wouldn't be hearsay. It would  
24 just be a statement of what the standards of care --  
25 excuse me -- what the guidelines were for proponents of

## Cross - Karasic

1 these medical procedures.

2 THE COURT: It's still got to be relevant,  
3 Mr. Cantrell, before we even get to hearsay. So if you'll  
4 show me what you thinned down to relevance, I'll have a  
5 much smaller scope to deal with.

6 MR. CANTRELL: Okay. I will do that, Your  
7 Honor.

8 MS. COOPER: Your Honor, I would add I don't  
9 understand how that's not being represented for the truth  
10 of the matter asserted if these were the guidelines.

11 THE COURT: I don't even know what I'm  
12 considering yet, Ms. Cooper, so we're going to wait until  
13 I have a document in hand before we argue further about  
14 it.

15 MR. CANTRELL: May I continue?

16 THE COURT: Sure.

17 MR. CANTRELL: Thank you.

18 BY MR. CANTRELL:

19 Q. So, Dr. Karasic, you -- you testified concerning I  
20 believe what you called desistance studies earlier?

21 A. Yes.

22 Q. And you talked about potential differences between  
23 the DSM-IV and DSM-5.

24 THE COURT: Are we talking about persistent or  
25 desistent? I'm asking Mr. Cantrell what his question was

## Cross - Karasic

1 because I didn't hear.

2 MR. CANTRELL: Desistance.

3 THE COURT: Thank you. Continue.

4 BY MR. CANTRELL:

5 Q. So, Dr. Karasic, the DSM-IV did require a strong,  
6 persistent cross-gender identification, correct?

7 MS. COOPER: Objection. Confusing.

8 THE COURT: He can answer it if he can.

9 THE WITNESS: Yes. So the DSM-IV and the GID of  
10 children did say that, but it said "as evidenced by." And  
11 the evidence of that cross-gender behavior could all be  
12 behavioral things. It did not have to include the A1  
13 criteria of identity. So it had a list of symptoms but  
14 somebody with very strong cross-gender behavior could get  
15 the diagnosis under DSM-IV. It wasn't -- that was what  
16 was recognized by the author, by Ken Zucker and Peggy  
17 Cohen-Kettenis, the head of the Dutch program, when they  
18 revised the GID of children diagnosis into the gender  
19 dysphoria diagnosis of DSM-5 and they made that A1  
20 criteria required with -- out of recognition that not  
21 including that criteria -- that criterion could allow  
22 mostly feminine boys with very feminine behavior but no  
23 transgender identity to be given a GID of children  
24 diagnosis when they really never had a transgender  
25 identity to begin with.

1 Q. Isn't it true though that in the DSM-IV, the DSM-IV  
2 provided that behavior that nearly does not fit the  
3 cultural stereotype should not be given a diagnosis?

4 A. Well, they said that, but at the same time the  
5 criteria listed those behaviors. And when asked -- so I  
6 chaired a conference at an APA meeting in 2003 where this  
7 was discussed. When asked about how that these -- just  
8 these behaviors could be a disorder, they were saying,  
9 well -- they preface it that they're strong behaviors, but  
10 they're still behaviors. It's not -- it's not including a  
11 transgender identity.

12 And it's evidence that they recognized that that was  
13 a problem. When they revised the DSM for DSM-5, they took  
14 that into account and they changed the criteria to make  
15 the gender dysphoria of children diagnosis to include that  
16 A1 criteria, not just as a criteria, but as a -- that that  
17 had to be -- was required in addition to other criteria.

18 Q. Are you aware that the Dutch researchers Annelou de  
19 Vries, et al, have found no practical difference in  
20 children who were diagnosed using the DSM-IV and the  
21 DSM-5?

22 A. So it's hard to say to me what that means. So  
23 whether they said that in a paper that -- oh, you know, I  
24 think I know what you're referring to.

25 Are you referring to the ICD-11 field test study

1 where they were trying -- they -- it was just this kind of  
2 small group of people where they -- they gave it a set of  
3 clinical criteria and asked them to make a diagnosis to  
4 see if they would concur. It was part of a validity study  
5 for ICD-11 gender incongruence that somebody might still  
6 have the diagnosis under the different diagnoses. I'm not  
7 sure if that's what you're referring to, but there was a  
8 study and Anna Louise Debrees was one of the leaders of  
9 the validation studies of ICD-11.

10 So they tried to show that under -- in the small  
11 number of people under these -- in these case  
12 presentations the people would give a similar rating to  
13 these kind of hypothetical cases. That's a very different  
14 thing to -- than saying that gender dysphoria -- GID of  
15 childhood is the same thing as gender dysphoria of  
16 childhood. If they were the same thing, they wouldn't  
17 have gone through this years-long process to revise it and  
18 tighten up the criteria.

19 Q. But is it your understanding that the researchers  
20 there found there was no practical difference in  
21 diagnosing the children?

22 MS. COOPER: Objection. Confusing.

23 THE WITNESS: No. I mean, I think you can say,  
24 well, there was what was intended not as a comparison of  
25 GID of in children and gender dysphoria of children, but

1 as it was a validation study for gender incongruence in  
2 children, and that they found that you could validate  
3 gender incongruence in children in that -- in these like  
4 vignettes or case presentations someone would -- who would  
5 get a GID of children diagnosis and a gender dysphoria of  
6 children diagnosis would also get an ICD-11 diagnosis. It  
7 Was part of a process to validate ICD-11. It wasn't  
8 intended to say that they were the same thing because they  
9 obviously --

10 Q. So let me -- let me ask you this. If -- are you  
11 aware of what version of the DSM was used in the early  
12 Dutch studies?

13 A. So the -- the Dutch studies --

14 Q. It was the DSM-IV, wasn't it?

15 A. The DSM-IV predominantly. There may have been some  
16 DSM-III-R used because the very first use of puberty  
17 blockers went back into the '80s. DSM-IV was 1994. So  
18 they may have also used DSM-II or DSM-III-R. So prior --  
19 the version before --

20 Q. So --

21 A. -- DSM-IV in some of the Dutch studies.

22 Q. -- if we can't trust research done under -- research  
23 done using the DSM-IV, we can't trust those early Dutch  
24 studies either, correct?

25 MS. COOPER: Objection. Mischaracterizing

1 testimony.

2 THE WITNESS: I wouldn't draw that conclusion.  
3 I think that one can understand that there are -- that  
4 there can be weaknesses in some regards, but the -- those  
5 weaknesses have to do with prepubertal desistance. When  
6 you're talking about persistence of gender dysphoria -- in  
7 other words, in adolescents post -- after the start of  
8 puberty, that however you diagnosis people, desistance  
9 appears to be very uncommon.

10 BY MR. CANTRELL:

11 Q. So your testimony is that we can trust research done  
12 under the DSM-IV for persistence but not for desistance?

13 MS. COOPER: Objection. Mischaracterizes  
14 testimony.

15 THE COURT: I'm allowing him to answer it, but  
16 if that mischaracterizes what he says, he can let  
17 Mr. Cantrell know it.

18 THE WITNESS: That mischaracterizes what I said.  
19 So what I'm saying is, whenever you look at research,  
20 you -- you have to look at all kind of factors when that  
21 research was done and try to decide what is relevant as a  
22 result. Some of that has to do with data that came --  
23 that comes out later. In this case specifically for  
24 desistance, that there -- you know, that there was  
25 acknowledgement even by the people who were behind the

## Cross - Karasic

1 diagnosis that the criteria needed to be changed because  
2 there were too many people kind of taken into studies and  
3 given a GID diagnosis in these prior versions, three to  
4 four of the DSM, who never had a transgender identity.  
5 They largely were pregay boys whose feminine behavior  
6 bothered their parents and society and school.

7 MR. CANTRELL: Your Honor, may I approach?

8 THE COURT: Sure. Thank you.

9 BY MR. CANTRELL:

10 Q. Dr. Karasic, if you would please turn to tab 3 to  
11 Defendants' Exhibit 40.

12 A. Okay. That American Psychological Association 2015.

13 Q. Yes. You're familiar with the American Psychological  
14 Association's guidelines for psychological practice with  
15 transgender and gender nonconforming people, correct?

16 A. I haven't read them, no. I'm a member of the member  
17 American Psychiatric Association and participated in our  
18 research -- resource document for the other APA in terms  
19 of the care of --

20 THE COURT: Are you familiar with this document  
21 that's in front of you?

22 THE WITNESS: What I would say is, I have some  
23 familiarity with it, but you would have to point out a  
24 particular part as opposed to ask me right now to comment  
25 on it as a whole.

## Cross - Karasic

1 BY MR. CANTRELL:

2 Q. I'll call these the APA guidelines, just for ease of  
3 reference.

4 A. Can you call it the American Psychological  
5 Association guidelines just as a member of the American  
6 Psychiatric Association.

7 Q. We don't have any American Psychiatric Association  
8 documents here that.

9 THE COURT: Just for clarity, just go ahead and  
10 say it out loud so we're clear on what we got, APA  
11 whatever. It will help me in all the acronyms if we  
12 actually say it out loud every now and then.

13 MR. CANTRELL: So refer to it as American  
14 Psychological Association?

15 THE COURT: Yes, sir, thank you. That will help  
16 me.

17 MR. CANTRELL: Okay. Yes, Your Honor.

18 BY MR. CANTRELL:

19 Q. So, Dr. Karasic, are you -- you're aware that the  
20 authors of the American Psychological Association  
21 guidelines intended for them to be relied upon by those in  
22 the mental health professions, correct?

23 A. I assume that's why they put out guidelines, is that  
24 people -- that mental health professionals would use these  
25 recommendations, yes.

## Cross - Karasic

1 Q. And, in fact, are the American Psychological  
2 guidelines relied upon by those who provide what you might  
3 call gender-affirming treatment patients with gender  
4 dysphoria?

5 A. I would assume that some, particularly psychologists,  
6 would refer to the American Psychological Association  
7 guidelines.

8 Q. That psychologists?

9 A. Psychologists, as the American Psychological  
10 Association, yes.

11 Q. Okay. This is a document that you relied on in your  
12 expert report in this case, correct?

13 A. I may have -- I may have cited it. I know I cited  
14 another American Psychological Association recommendation  
15 that was from a later year, but I may have cited this as  
16 well. I'm not dismissing its value. I'm just -- I'm just  
17 trying to answer your questions.

18 Q. Okay. So did I understand you earlier to say that  
19 you had never read these guidelines?

20 A. No. I said I have read them.

21 Q. You have read them?

22 A. I was just asking, if you're going ask my opinion  
23 about a section of it, to please point the section out  
24 because I'm just not as familiar with them as ones, for  
25 example, that I worked on.

## Cross - Karasic

1 Q. Okay. If you would turn to Page 843. Let me know  
2 when you get there.

3 A. I'm on Page 843.

4 Q. Okay. In the right column, the bottom paragraph,  
5 somewhere about maybe one-third of the way down, there is  
6 a sentence beginning, emphasizing to parents.

7 A. Okay.

8 Q. Emphasizing to parents the importance of allowing  
9 their child the freedom to return to a gender identity  
10 that aligns with sex assigned at birth or another gender  
11 identity at any point cannot be overstated, particularly  
12 given the research that suggests not all young gender  
13 nonconforming children will ultimately express a gender  
14 identity different from that assigned at birth.

15 Did I read that correctly?

16 A. Yes.

17 Q. And is that consistent with your understanding?

18 A. Yeah. I think that's consistent with, like, sentence  
19 from some of the Dutch desistance data that because from  
20 the data some -- some prepubertal children desist and  
21 don't have -- didn't have GID or gender dysphoria in  
22 adolescence, that parents should provide flexibility for  
23 the child to explore their gender wherever they land,  
24 whether they end up having a transgender identity or not.

25 Q. If you would, turn to Page 862. Let me know when

1 you're there.

2 A. 862. I'm sorry. Okay.

3 Q. Earlier we -- I was asking you about gender identity  
4 and the number of gender identities that there are. I'd  
5 like you to take a look at the entry, and this is sort of  
6 a glossary. The entry for genderqueer.

7 A. Okay.

8 Q. So it says, genderqueer: A term to describe a person  
9 whose gender identity does not align with a binary  
10 understanding of gender (i.e., a person who does not  
11 identify fully as either man or woman). People who  
12 identify as genderqueer may redefine gender or decline to  
13 define themselves as gendered altogether. For example,  
14 people who identify as genderqueer may think of themselves  
15 as both man and woman (bigender, pangender, adrogyne);  
16 neither man nor woman, (genderless, gender neutral,  
17 neutrois, agender); moving between genders, (genderfluid)  
18 or embodying a third gender.

19 Again, is that description consistent with your  
20 understanding of individuals who identify as transgender?

21 A. Well, terminology changes quickly, particularly  
22 within the transgender community and how people identify  
23 themselves. And genderqueer -- this is 2015. Genderqueer  
24 was already kind of an aging term in 2015. Even by 2015,  
25 nonbinary had really become the dominant descriptive word

1 instead of genderqueer, but there are still people who use  
2 that identification. The -- but the definition is  
3 basically about nonbinary people, a term to describe a  
4 person whose gender identity does not align with the  
5 binary understanding of gender.

6 I see, for example, in this list there is no  
7 definition for nonbinary, and I think it's just -- this is  
8 perhaps a little bit of an aging document. Although, as I  
9 said, even by 2015, the words people used to describe  
10 themselves were becoming more non -- using more nonbinary  
11 rather than genderqueer, which I remember as a term from  
12 the starting in early 2000s.

13 Q. I'm sorry. I didn't hear the last part?

14 A. I remember genderqueer as a term starting in the  
15 early 2000s. Even by 2015, I think people tended to use  
16 nonbinary rather than genderqueer. This uses this kind of  
17 older term.

18 Q. So if you will turn to the next page, Page 863. And  
19 the entry for transgender. Do you see that?

20 A. Yes.

21 Q. Transgender: An adjective that is an umbrella term  
22 used to describe the full range of people whose gender  
23 identity and/or gender role do not conform to what is  
24 typically associated with their sex assigned at birth.

25 Again, is that consistent with your understanding of

1 that term?

2 A. Yeah. I think using that umbrella terminology was  
3 something that back ten years ago or so you would kind of  
4 see that terminology used a little bit more, but I think  
5 it's trying to say -- it's trying to encompass a number of  
6 different identities within the umbrella of transgender.  
7 In SOC-8, they used transgender and gender diverse, with  
8 gender diverse being other identities of which some of  
9 those people might not identify as transgender, but are  
10 exhibiting gender diversity.

11 Q. Okay. Let me shift gears a little bit here and ask  
12 questions on a few different topics.

13 You're aware that in the country of Finland that the  
14 health authorities are moving to emphasize psychotherapy  
15 as a treatment for gender dysphoria, correct?

16 A. Are we kind of going down the same line we did with  
17 Sweden?

18 Q. No. I'm asking you about Finland and --

19 THE COURT: I think that's his point. Are we  
20 going down the same line of questioning that you did for  
21 Sweden -- or for Finland for Sweden now?

22 MR. CANTRELL: No, Your Honor.

23 THE COURT: I know you're switching countries.  
24 He was asking you if you were going down the same line of  
25 questioning, different countries.

## Cross - Karasic

1 MR. CANTRELL: I don't intend to introduce any  
2 exhibits --

3 THE COURT: I was just explaining what he was  
4 asking because I think y'all were on different pages  
5 there. So go ahead.

6 BY MR. CANTRELL:

7 Q. Would you like for me to ask the question again?

8 A. Yes.

9 Q. So you're aware that in Finland, the health  
10 authorities are moving to emphasize psychotherapy as a  
11 treatment for gender dysphoria, correct?

12 A. My understanding from Finland is that they're still  
13 providing gender-affirming medical care to adolescents,  
14 but -- but advising much caution that, from my  
15 understanding of -- because in depositions we've gone  
16 through Finnish guidelines as well.

17 My understanding was that within those guidelines  
18 they -- they say that both puberty blockers and  
19 gender-affirming hormones can be used, but they -- for  
20 severe cases of gender dysphoria. And I think they may be  
21 referring more to people meeting the Dutch -- the criteria  
22 in the Dutch research studies, but that that -- they were  
23 still allowing for gender-affirming medical care, not just  
24 psychotherapy as a treatment. I think they were  
25 encouraging psychotherapy with gender diverse or

## Cross - Karasic

1 transgendered youth, but they were also allowing for  
2 medical care. That's my recollection of the Finnish --

3 Q. So the country of Finland is now emphasizing  
4 psychotherapy, correct?

5 MS. COOPER: Objection. Mischaracterizes the  
6 testimony.

7 THE WITNESS: It's hard to -- that's why I was  
8 kind of comparing with Sweden. I don't know if it's the  
9 country of Finland, but some board -- some health board  
10 within Finland had recommended psychotherapy I think and a  
11 lot of caution, but also said, when really indicated, you  
12 can still provide puberty blockers and hormones. That's  
13 my recollection of what Finland said.

14 BY MR. CANTRELL:

15 Q. Okay. And you've not -- you've not provided  
16 treatment to any of the minor plaintiffs in this  
17 litigation, correct?

18 A. I have not.

19 Q. You've not evaluated any of them?

20 A. I have not.

21 Q. And as an expert witness, you are being compensated,  
22 correct?

23 A. Yes.

24 Q. By whom are you being compensated?

25 A. I have an agreement with the American Civil Liberties

## Cross - Karasic

1 Union.

2 Q. Okay. And how much are you being compensated for  
3 your testimony?

4 A. For my testimony today, \$3,200.

5 Q. Just a flat \$3,200?

6 A. Yeah.

7 Q. Just for today?

8 A. Yeah, assuming we don't go until tomorrow.

9 Q. If we do go to tomorrow, will it be a higher sum?

10 A. I would have to look at the contract, but it says  
11 \$3,200 for testimony.

12 Q. It's 3200 per day, correct?

13 A. It probably is 3200 per day, but I would have to -- I  
14 signed the contract a long time ago.

15 Q. You've never practiced in the State of Arkansas,  
16 correct?

17 A. I have not.

18 Q. You would agree that just because WPATH or the  
19 Endocrine Society Guidelines have certain recommendations,  
20 that doesn't tell us in any particular case whether a  
21 clinician is following those guidelines, correct?

22 A. Yes. I mean, I think that's true for any kind of --  
23 for any kind of guidelines. We don't -- we can't be sure  
24 that every provider is following those guidelines, but,  
25 certainly, they're well-accepted guidelines and they're

## Cross - Karasic

1 followed by people that I've been associated with,  
2 including I think a few from Arkansas.

3 I did a training in Springfield, Missouri, where  
4 there was some people from Arkansas. But, generally, I  
5 can't speak to the practice of, you know, each clinician  
6 in Arkansas.

7 Q. So you can't speak to the practices of providers of  
8 cross-sex hormones across the state of Arkansas, correct?

9 A. Yeah. I would say that I can only speak to what I  
10 feel are the generally-accepted -- generally-accepted  
11 treatments that I think most clinicians provide, but I  
12 can't tell you whether or not there are individual  
13 clinicians who are not practicing within kind of the  
14 mainstream of the profession.

15 Q. And the same would go for mental health professionals  
16 across the State of Arkansas; you can't testify to the  
17 actual practices of mental health professionals across the  
18 state, correct?

19 A. No. I mean, I assume that mental health is practiced  
20 similarly in Arkansas in many respects than in the other  
21 49 states, but beyond that, I can't tell you anything  
22 specific to Arkansas.

23 Q. You're aware that some medical providers in the  
24 United States have contravened the WPATH guidelines in  
25 performing genital surgeries on minors, correct?

## Cross - Karasic

1 A. Yeah. So I was a coauthor on a paper. We -- my  
2 coauthor, Dr. Milrod, and I understood that there had been  
3 a few cases of people under 18 who received vaginoplasty.  
4 We had not had patients -- I certainly had never had a  
5 patient where I recommended vaginoplasty under 18. But we  
6 wanted to gather more information about it.

7 Q. That article was titled, "Age is Just A Number"?

8 A. Yes.

9 Q. And it was subtitled, "WPATH-Affiliated Surgeons'  
10 Experiences and Attitudes Toward Vaginoplasty in  
11 Transgender Females Under 18 Years of Age in the United  
12 States"?

13 A. Yes.

14 Q. You published that article in 2017, correct?

15 A. Yes.

16 Q. It was actually submitted for publication in 2016,  
17 correct?

18 A. Yeah. That's my recollection.

19 Q. And the WPATH version 7 guidelines were in effect at  
20 that time, correct?

21 A. Yes.

22 Q. And, again, I think we established that the WPATH  
23 version 7 guidelines set a minimum age of 18 for  
24 vaginoplasty?

25 A. Yes.

## Cross - Karasic

1 Q. And I believe you testified you wrote that article in  
2 response to reports that vaginoplasties were being  
3 performed on minors. Is that right?

4 A. That --

5 MS. COOPER: Objection. Mischaracterizes the  
6 testimony.

7 THE COURT: Answer the question.

8 THE WITNESS: So we were aware this was --

9 THE COURT: I think that what was stated was  
10 that people were going off recommendation of WPATH 7.  
11 Specifically, it may have been in that form, but your  
12 initial question was whether or not doctors were -- have  
13 been rumored to not being in compliance. I guess it's not  
14 really in compliance, but not following WPATH 7. We may  
15 have discussed specifically whether or not they were doing  
16 vaginoplasty prior to age 18.

17 But, anyway, can you answer the question or can you  
18 restate your question?

19 BY MR. CANTRELL:

20 Q. I'll restate the question.

21 You wrote that article in response to reports that  
22 vaginoplasties were being performed on minors, correct?

23 A. Yes, that that was happening rarely we thought  
24 because it had not happened on patients that we knew of,  
25 but we had -- had heard that there had been minors in the

## Cross - Karasic

1 United States that had surgery. And so we decided to  
2 interview all of the surgeons -- at that time there were  
3 21 that we could identify -- who performed vaginoplasty in  
4 the United States, and see if that was happening.

5 So the -- you know, there's the wording of  
6 contravening Standards of Care 7's recommendation of 18,  
7 but also Standards of Care 7 and 8 say that in individual  
8 clinical circumstances, a practitioner might deviate from  
9 the standards of care; that ultimately the best care for  
10 the patient is what's most important. And so while the  
11 standards are -- including age numbers are things that  
12 generally should be followed, but there could be  
13 exceptions.

14 So we weren't surprised that there were exceptions.  
15 Part of -- we want to both know kind of if the -- if this  
16 was happening and, if so, what reasons the surgeon gave  
17 that vaginoplasty took place before the age of 18.

18 Q. So by saying that they contravened the guidelines,  
19 you mean that the surgeons went against those guidelines,  
20 correct?

21 A. Yeah. Yes, but I would -- I'd say they went against  
22 one part of the guidelines, but there was -- there is  
23 another part of the guidelines where they say that they  
24 are treatment recommendations, but individual -- in  
25 individual clinical circumstances, a provider might not

## Cross - Karasic

1 follow these recommendations when there is careful  
2 consideration that is in the best interest of that  
3 individual patient.

4 Q. So is it your testimony today that, in fact, those  
5 surgeons did not go against the guidelines?

6 A. Well, I suppose my testimony is they did and they  
7 didn't. They went against the recommendation of 18 as a  
8 minimum age, but -- but the guidelines also say that  
9 sometimes you can go against the guidelines if it's  
10 necessary to provide the best care for patients. That  
11 shouldn't be usual care but that there could be  
12 exceptional circumstances. And I think it was clear, at  
13 least in 2016 and 2017 when we did our research and paper,  
14 that vaginoplasty under 18 was kind of an exceptional  
15 circumstances, not uncommon -- not usual care.

16 THE COURT: Doctor, of the doctors you  
17 interviewed that were suspected of performing these  
18 procedures, were any of them in Arkansas?

19 THE WITNESS: No.

20 BY MR. CANTRELL:

21 Q. Dr. Karasic, you -- in the course of writing this  
22 article, you became concerned that some WPATH-affiliated  
23 surgeons had performed surgeries unethically, correct?

24 A. No. We weren't -- we were making a judgment of  
25 whether or not there were times when people weren't

## Cross - Karasic

1 following the recommendation of a minimum age of 18, but  
2 we weren't saying that to do so was necessarily unethical.  
3 The surgeons gave reasons of why they thought it was good  
4 care. The surgeons weren't coming out and saying, I was,  
5 you know, operating unethically. They were giving reasons  
6 of why -- why they might -- for example, one of the  
7 reasons that was given was that 17-year-olds are still in  
8 the home and under the care of their families; whereas, at  
9 18 they go off to college, and the family wanted -- you  
10 know, parents still have to consent for a surgery under  
11 the age of 18. And the parents wanted the surgery that  
12 was going to happen anyway to happen a little bit earlier  
13 so that they were still at home for the recovery period  
14 and then they could go off to college post-surgically and  
15 not have to deal with that in the middle of, say, their  
16 freshman year of college.

17 Q. So your article reported that a WPATH-affiliated  
18 surgeon had performed a vaginoplasty on a minor as young  
19 as 15 years old, correct?

20 A. Yes. That was the youngest that we had a report of.

21 Q. And you've previously testified that you're skeptical  
22 that vaginoplasty could be ethically performed on a  
23 15-year-old, correct?

24 A. Yes, but I also wouldn't label -- I don't know the  
25 circumstances. I wouldn't label that unethical. I just

1 would say, within my practice, I wouldn't see a  
2 circumstance where I would recommend that for a  
3 15-year-old, but I can recognize that other people might  
4 have other kind of calculations and -- but that I wasn't  
5 privy to.

6 And I wasn't doing the interviews. It was  
7 Dr. Milrod, so I don't know if there was more information  
8 that wasn't in the paper to explain the surgery on the  
9 15-year-old.

10 Q. In the course of writing the article, you learned  
11 that there was an increase in the number of minors being  
12 referred for vaginoplasty, correct?

13 A. At that time, it was 2016. And in 2013 and 2014 is  
14 when insurance started covering vaginoplasty more  
15 generally in the US. And so it was a time where there was  
16 an increase because more people could afford to get it and  
17 there were new surgeons who were entering practice at that  
18 time. And so -- so it was a time, whether people were  
19 minors or not, where more people were getting -- had  
20 access to vaginoplasty.

21 Q. There are more vaginoplasties being performed today  
22 than there were in 2016, correct?

23 A. Yes. I would believe that to be true.

24 Q. Also in the course of writing that article, you  
25 became aware of a polarization of long-term practitioners

## Cross - Karasic

1 against newer surgeons --

2 A. Yes.

3 Q. -- performing vaginoplasties, correct?

4 A. Yes. There were a set of -- remember, 2016 there  
5 were only 21 surgeons in the entire United States that we  
6 could identify performed vaginoplasty and were WPATH  
7 members, and -- but also at that time, there were the  
8 first surgical fellowship programs being set up. In the  
9 same places where people got trained in plastic surgery  
10 and hand surgery and facial surgery, people were starting  
11 to get trained in gender-affirming surgery. And there  
12 were other, you know, people who didn't go to those  
13 fellowships who were entering practice. And there was  
14 this suspicion from the old practitioners, the people who  
15 had been doing -- performing vaginoplasties for years and  
16 year, there was suspicion about new people who were  
17 entering the field.

18 Q. That suspicion was that the newer surgeons were  
19 motivated by profit, correct?

20 A. That was expressed by at least one surgeon, kind of  
21 expressed a lot of negative views about people coming into  
22 the field versus those who had been doing it for years and  
23 years, that some people were coming into the field now  
24 that there was insurance compensation.

25 MR. CANTRELL: Your Honor, if I can have a

## Cross - Karasic

1 moment.

2 BY MR. CANTRELL:

3 Q. Dr. Karasic, the Court asked you a question  
4 concerning the -- whether any of the surgeons that  
5 performed these vaginoplasties we've been discussing were  
6 in Arkansas. And I just want to follow up on that by  
7 asking, are you at all aware of whether or not any of the  
8 patients who underwent the vaginoplasties were from  
9 Arkansas?

10 A. So the interview was not with patients. It was with  
11 surgeons. So we did not -- we did not have a -- it was a  
12 like semi-structured interview, a qualitative interview,  
13 but there was no question about the state of origin of the  
14 patients.

15 Q. Would you be aware of the state of origin of the  
16 physicians, potentially an Arkansas physician traveling to  
17 do a surgery outside the state?

18 A. Well, there were only 21 surgeons, so we -- you know,  
19 we knew who they were and where they practiced. And I'm  
20 quite sure none of them practiced in -- practiced in  
21 Arkansas. I'm not sure if your question goes beyond that,  
22 if any of them were licensed in Arkansas or if that -- I  
23 couldn't tell you.

24 Q. Let me just ask this. Well, I guess I will follow up  
25 on that.

## Cross - Karasic

1 Are you aware if any of those surgeons were licensed  
2 in Arkansas?

3 THE COURT: I think he just said he wasn't.

4 THE WITNESS: I'm not aware of, right, if any of  
5 them were. They weren't practicing in Arkansas, but  
6 doctors can have licenses in multiple states potentially.

7 BY MR. CANTRELL:

8 Q. Are you aware of how many WPATH-affiliated surgeons  
9 there are today?

10 A. No. I couldn't give you a number, but I'm sure it's  
11 -- that it's substantially higher than in 2016 because  
12 since then we've had these fellowship programs where, just  
13 like surgeons who have already done a plastic surgery or  
14 urology fellowship and then they do an additional hand  
15 fellowship or, you know, some other subspecialty. Now  
16 surgeons can do at some centers gender-affirming surgery  
17 fellowship and get training, something that wasn't  
18 available before.

19 MR. CANTRELL: Nothing further at this time,  
20 Your Honor.

21 THE COURT: Redirect of this witness.

22 MS. COOPER: No redirect, Your Honor.

23 THE COURT: You needn't refer to your contract  
24 about tomorrow.

25 THE WITNESS: I don't get the other 3200

1 apparently.

2 THE COURT: We're going to break until about  
3 4:30 to give Valarie's hands a break.

4 Court will be in recess until 4:30.

5 (A recess was taken at 4:17 p.m.)

6 \* \* \* \* \*

7 REPORTER'S CERTIFICATE

8 I, Valarie D. Flora, FCRR, TX-CSR, AR-CCR, certify  
9 that the foregoing is a correct transcript of proceedings  
10 in the above-entitled matter.

11 Dated this the 24th day of October, 2022.

12 /s/ Valarie D. Flora, FCRR

13 -----

14 United States Court Reporter

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Valarie D. Flora, FCRR, TX-CSR, AR-CCR  
United States Court Reporter  
Valarie\_Flora@ared.uscourts.gov (501) 604-5105

1 (Proceedings continuing at 4:39 p.m.)

2 THE COURT: Next.

3 MR. STRANGIO: Thank you, Your Honor. Plaintiffs are  
4 going to call Dr. Deanna Adkins. I believe someone went to get  
5 her.

6 THE COURT: Okay.

7 **DEANNA ADKINS, M.D., PLAINTIFFS' WITNESS, DULY SWORN**

8 MR. STRANGIO: For the court reporter, I'm Chase  
9 Strangio from the ACLU.

10 DIRECT EXAMINATION

11 BY MR. STRANGIO:

12 Q. So good afternoon, Dr. Adkins. Thank you for being here.  
13 Thank you for your patience. Can you please state your name for  
14 the record and spell it for the court reporter.

15 A. Deanna Adkins. It's D-e-a-n-n-a, and last name is  
16 A-d-k-i-n-s.

17 Q. And what is your profession?

18 A. I'm a pediatric endocrinologist.

19 MR. STRANGIO: And, Your Honor, Dr. Adkins' CV is  
20 Plaintiffs' Stipulated Exhibit 3. So to spare everyone going  
21 through her extensive qualifications, I'm going to leave it at  
22 that for now.

23 THE COURT: Okay.

24 BY MR. STRANGIO:

25 Q. And how long have you been a pediatric endocrinologist?

1 A. Twenty-two years.

2 Q. And how many patients with gender dysphoria do you  
3 currently treat as a pediatric endocrinologist?

4 A. Currently I have approximately 400 patients.

5 Q. And how many adolescent patients with gender dysphoria have  
6 you treated in your career?

7 A. About 600.

8 Q. And how many patients with differences of sex development  
9 or intersex conditions have you treated in your career?

10 A. Over a hundred.

11 Q. And just in your general pediatric endocrinology practice,  
12 how many patients as a pediatric endocrinologist have you  
13 treated in your career?

14 A. Thousands.

15 Q. Have you taught any courses on the treatment of patients  
16 with gender dysphoria?

17 A. Yes, I have.

18 Q. And where have you taught those courses?

19 A. In a number of locations. At Arkansas Children's I did  
20 some teaching. I've done some teaching at University of  
21 Tennessee, at Mount Sinai, at UNC, Duke ECU.

22 Q. Thank you. I'm going to ask you some questions about the  
23 treatment of gender dysphoria in your capacity as a pediatric  
24 endocrinologist. What conditions do you treat at the Duke  
25 Gender Clinic, where you work?

1 A. At the gender clinic we take care of kids with -- children  
2 with intersex disorders and people with gender dysphoria.

3 Q. And are there endocrine treatments that are used to  
4 alleviate distress caused by gender dysphoria?

5 A. Yes.

6 Q. And what are those treatments?

7 A. For younger kids who have just begun puberty, we might use  
8 medications to pause their puberty if they are suffering from  
9 dysphoria caused by those pubertal changes. We also use  
10 hormones to more align their bodies with their gender identity,  
11 including testosterone, estrogen, progesterone and androgen  
12 blockers like spironolactone.

13 Q. And those treatments that you have just mentioned, are they  
14 used to treat adolescents with gender dysphoria?

15 A. Yes.

16 Q. What is the goal of endocrine treatments for gender  
17 dysphoria?

18 A. Well, the primary thing is to alleviate the dysphoria and  
19 doing that by aligning their bodies more with their gender  
20 identity to alleviate that distress.

21 Q. And when treating patients with gender dysphoria, do you  
22 follow any guidelines?

23 A. Yes.

24 Q. And which guidelines do you follow?

25 A. The Endocrine Society Guidelines as well as the WPATH

1 Standards of Care.

2 Q. And in your experience is the Endocrine Society Guidelines  
3 widely used by endocrinologists who treat patients with gender  
4 dysphoria?

5 A. Yes.

6 Q. And how do you know that?

7 A. We talk about them at meetings. We communicate with each  
8 other on LISTSERVs. There are, you know, presentations at  
9 meetings as well.

10 Q. And in your practice as a pediatric endocrinologist, how  
11 does the Endocrine Society Guideline on the treatment of gender  
12 dysphoria compare to other guidelines that you use in your  
13 practice?

14 A. They are very similar. You know, the Endocrine Society has  
15 a number of guidelines we use, and they are all very similarly  
16 written.

17 Q. And in your experience are the WPATH Standards of Care  
18 widely used by endocrinologists who treat patients with gender  
19 dysphoria?

20 A. Yes.

21 Q. I want to ask you some questions about the protocols for  
22 initiating these treatments we have been discussing. So under  
23 the Endocrine Society and WPATH guidelines, are any endocrine  
24 treatments recommended for patients to treat gender dysphoria  
25 prior to puberty?

1 A. No. There are no treatments that are endocrine prior to  
2 puberty.

3 Q. And at the Duke Gender Clinic, where you work, how do you  
4 assess whether endocrine treatments for gender dysphoria are  
5 appropriate?

6 A. Well, we have a really robust process. I have my own team  
7 of mental health providers that do an assessment with the  
8 family, the parents, separate from the children. And then I do  
9 an assessment myself of their past medical history and their  
10 family history and their physical exam. There is also an  
11 assessment prior to coming to our clinic by a mental health  
12 provider separate from our clinic as well.

13 Q. And you mentioned a mental health assessment as part of  
14 your clinic. What is that mental health assessment?

15 A. It starts with the basics of, you know, past mental health  
16 issues, if there are any; the dynamics within the family, how  
17 things are going in school, educational issues, if there are  
18 any; as well as some standard assessments that they use for  
19 anxiety, depression, gender dysphoria, eating disturbance and  
20 autism.

21 Q. And when undergoing this -- excuse me. When assessing a  
22 patient, does the clinic explore a patient's co-occurring mental  
23 health conditions?

24 A. Yes.

25 Q. And why is that?

1 A. It's very important to know if any of those issues are  
2 going to keep the patient from being able to follow along  
3 properly with their medical treatment or if there is any concern  
4 that there is another cause for what's going on with the  
5 patient.

6 Q. And, as part of that assessment, do the providers explore  
7 whether the patient has had a history of trauma?

8 A. Yes.

9 Q. And in the process of these assessments, are patients and  
10 their families steered toward any particular course of  
11 treatment?

12 A. No. You know, we are just there to hear what they have to  
13 say and help them answer questions about what they would like to  
14 do.

15 Q. And are all patients you see prescribed endocrine  
16 treatments for gender dysphoria?

17 A. No.

18 Q. Is it an individualized assessment for each patient?

19 A. Yes. Every patient has a very particular individualized  
20 care plan.

21 Q. And you have described your assessment process at Duke. Is  
22 this practice consistent with Endocrine Society Guidelines and  
23 the WPATH Standards of Care?

24 A. Yes, it is.

25 Q. And in your practice as the director of the Duke Gender

1 Clinic, are you aware of how other clinicians around the country  
2 conduct their practice?

3 A. Yes. We talk about it, like I said, at our meetings. We  
4 also discuss it on LISTSERVs. We also collaborate with  
5 databases at multicenter studies, so we are all aware of what  
6 we're all doing.

7 Q. And is the assessment process you've just discussed at Duke  
8 consistent with your understanding of what other providers do  
9 around the United States?

10 A. Yes.

11 Q. And when prescribing medications for your adolescent  
12 patients with gender dysphoria, do you discuss the potential  
13 risks and side effects of these treatments?

14 A. Yes.

15 Q. And who is involved in that discussion?

16 A. So we talk with the patient as well as their parent or  
17 guardian.

18 Q. And in that process, do you ensure that the adolescent  
19 patient and their parents are able to understand the risks and  
20 benefits of treatment?

21 MR. JACOBS: Objection. Leading.

22 THE COURT: Kind of. Do a better job.

23 But go ahead and answer the question, Doctor.

24 THE WITNESS: So we are -- I'm trying to think of the  
25 question now. I got sidetracked. We are very careful about

1 going through all of the effects and side effects. We do it  
2 with a written method. We do it with a verbal method. We also  
3 ask them what their preferred learning style is and try to do it  
4 in that way. That's a pretty standard thing in pediatrics.  
5 Actually all of our nurses standardly ask all of my patients,  
6 "What is your favorite learning style? Do you want to hear it?  
7 Do you want to see it? Do you want to touch it?" And so the  
8 family is allowed to read through, answer those questions. If  
9 we feel that there's something else that they need, then we also  
10 have visual presentations. And at the end, I also ask them, you  
11 know, how do you understand this? Tell me what you have heard  
12 today. And it's called a teach-back technique, which we use  
13 with a lot of our other, you know, skills that we're teaching  
14 patients.

15 BY MR. STRANGIO:

16 Q. And is this process consistent with the guidelines of the  
17 Endocrine Society and WPATH?

18 A. Yes.

19 Q. And based on your knowledge of other clinics, how does this  
20 process compare to the practices of other gender clinics in the  
21 United States?

22 A. It is consistent.

23 Q. So earlier we were talking about the particular endocrine  
24 treatments for adolescents with gender dysphoria. Can you just  
25 again tell us specifically what those treatments are?

1 A. Yes. First there are medications called GnRH analogs.  
2 That is sometimes called a puberty blocker. Those are  
3 medications that mimic the signal from the hypothalamus to the  
4 pituitary and sit in the pituitary on the receptor so that no  
5 signals can come through, so the pituitary can't tell the  
6 ovaries or the testicles to be active. That medication is used  
7 to pause puberty and is completely reversible once that  
8 medication is stopped.

9 We also use androgen blockers. Spironolactone is the  
10 primary one we use. It's a medication that was originally  
11 designed for blood pressure and heart failure, but it actually  
12 blocks the effects of the androgens as well as lowers the  
13 androgen levels. We use testosterone, which is male hormone, to  
14 enhance the masculine effects of our trans masculine patients.  
15 And then we use estrogen in our trans feminine patients to,  
16 again, increase their more feminine features.

17 Q. And do you personally prescribe all of these medications to  
18 patients?

19 A. Yes.

20 Q. And you prescribe these medications to your adolescent  
21 patients with gender dysphoria?

22 A. Yes.

23 Q. And do you prescribe these medications to patients with  
24 other conditions?

25 A. Yes.

1 Q. And how many adolescent patients have you treated with  
2 pubertal suppression for gender dysphoria in your career?

3 A. With gender dysphoria?

4 Q. Yes. Sorry. How many adolescent patients have you treated  
5 with puberty suppression for gender dysphoria in your career?

6 A. Only about 12.

7 Q. And how many adolescent patients have you treated with the  
8 other various cross-sex hormone therapies for gender dysphoria  
9 that you've mentioned in your career?

10 A. About 600.

11 Q. I want to ask about sort of a little more about each of  
12 these treatments, starting with the puberty blockers. What  
13 conditions are puberty blockers used to treat?

14 A. So GnRH analogs are used for precocious puberty, a puberty  
15 that starts too early. It's also used for gender dysphoria. It  
16 is used to treat endometriosis. It's used to treat  
17 hormone-sensitive cancers like prostate cancer and sometimes  
18 breast cancer.

19 Q. And you mentioned -- excuse me. You testified that you  
20 have used puberty blockers to treat gender dysphoria?

21 A. Yes.

22 Q. And have you used puberty blockers to treat central  
23 precocious puberty?

24 A. Yes.

25 Q. And how many patients with central precocious puberty have

1 you treated with puberty blockers in your career?

2 A. Over a hundred.

3 Q. And how are puberty blockers used specifically in patients  
4 with gender dysphoria?

5 A. So once a person gets to the second stage of puberty, first  
6 being no puberty at all, the very first signs would be Tanner  
7 II. Then III, IV and V are the full range of Tanner stages. So  
8 once they have seen some pubertal changes, we find, if they have  
9 distress from those pubertal changes, we will pause their  
10 puberty and use that medication to allow them some time to get a  
11 better understanding of their gender identity if there is a  
12 question, also to relieve the distress of the incongruence of  
13 their body to their gender identity. And we typically would use  
14 that in a time frame that's most consistent with, you know,  
15 keeping them within the normal pubertal time frame.

16 Q. And are there potential side effects of puberty blockers?

17 A. Yes.

18 Q. What are some of the potential side effects of puberty  
19 blockers?

20 A. So the most common one I see actually is a little bit of  
21 weight gain, so we do some counseling around that and keeping  
22 active and working with nutrition, but it's not that common.  
23 Then the second thing is that their growth rate slows down to  
24 the same rate that it was prior to starting the puberty, because  
25 puberty is a time of rapid linear growth. And before that, they

1 are growing at about 2-inches a year, and then then can grow 3  
2 to 4 inches a year during puberty, so we're just back at the  
3 2 inches a year. Then we also slow down their accumulation of  
4 calcium because there's a calcium-like growth spurt at the same  
5 time during puberty where you are loading up your bones. And  
6 those patients go back to the prepubertal rate, which is a  
7 little slower, until they have puberty, when all of that is  
8 regained and starts back up again.

9 Q. And the slowing of the growth rate and the slowing of this  
10 calcium accrual that is happening, is that an expected effect of  
11 the medication?

12 A. Yes.

13 Q. And among these side effects, do any remain when the  
14 patient's pubertal suppression is discontinued?

15 A. So if it's just stopped and no other medications are being  
16 used, then none of those continue. Puberty restarts and  
17 everything catches back up.

18 Q. And do these side effects that you've mentioned of puberty  
19 suppression or puberty blockers differ based on the condition  
20 that you are treating?

21 A. No.

22 Q. And how often do you observe side effects in your patients  
23 treated with puberty blockers?

24 A. I see the weight gain some, but not a lot. And, you know,  
25 we always see the slowdown in growth because that's an expected

1 effect and not really a side effect. I really don't see many  
2 side effects at all.

3 Q. And has the FDA flagged any potential new side effects of  
4 -- potential side effects related to puberty blockers?

5 A. Yes. There is recent notification that there has been an  
6 association between use of these medicines and increased  
7 intracranial pressure.

8 Q. And is that potential side effect or association, as you  
9 said, unique to a particular indication treated with puberty  
10 blockers?

11 A. No. Most of the patients who experienced it had central  
12 precocious puberty, but one did who had gender dysphoria.

13 Q. And has that particular association been identified in many  
14 patients?

15 A. Only about six.

16 Q. And have you personally observed that side effect in your  
17 clinical practice?

18 A. No.

19 Q. Have you changed your practice at all as a result of the  
20 recent notice from the FDA?

21 A. Well, I did add that particular potential side effect to  
22 our consent form, but I haven't changed anything else other  
23 than, you know, making sure that parents are aware when we walk  
24 through all of that too.

25 Q. And is that in your consent form -- and which consent form

1 is that?

2 A. It's the one that we use anytime we're using a GnRH  
3 medication for either central puberty or for gender dysphoria.

4 Q. Is it common for the FDA to publish notices of new data  
5 concerning potential side effects of medication?

6 A. Yes.

7 Q. And, generally speaking, when you obtain consent for  
8 treatment with puberty blockers, is the process different when  
9 treating a patient for gender dysphoria versus treating a  
10 patient for central precocious puberty?

11 A. So we're, you know, very careful with both of them. We do  
12 talk about, at the beginning, with our patients with gender  
13 dysphoria, that if they do continue using this medication and  
14 continue it after the time in which they are put on hormones,  
15 gender-affirming hormones, that there is a potential that they  
16 may not be able to have their own biological children, and they  
17 may not be fertile. And we talk about the ways to mitigate that  
18 either by waiting later to start the medication or stopping the  
19 medication and allowing them to go through puberty later before  
20 adding on the gender-affirming hormones.

21 Q. And you mentioned this counseling about fertility. Do  
22 puberty blockers on their own affect fertility?

23 A. During the time that you are on them, your testicles and  
24 ovaries aren't continuing to develop. So during that time, you  
25 wouldn't be fertile. But after coming off of those medications,

1 that fertility returns completely.

2 Q. And you also mentioned this delayed bone mineralization as  
3 an effect of treatment with pubertal suppression. Can you  
4 explain how bone density is affected by treatment with pubertal  
5 suppression?

6 A. So using the medication to pause puberty really puts you  
7 just basically in the same state that you were in before, so the  
8 same things that were happening to you as a child without  
9 puberty are still happening. You are still growing. You are  
10 still gaining calcium. You are still developing your brain and  
11 your skills, and the calcium part of it is just at the same rate  
12 as before. And then, once you stop that medication, that  
13 calcium accrual increases.

14 Q. And what happens to this bone mineralization or calcium  
15 accrual once puberty is initiated?

16 A. Once puberty is initiated, the calcium picks back up and is  
17 stored in the bones at the pubertal rate that it would have been  
18 for their puberty whether it had been suppressed or not. And  
19 down the road, those kids are having good bone mineral density,  
20 and they aren't having any fractures.

21 Q. And that bone accrual -- so that bone accrual happens when  
22 puberty begins from endogenous hormones?

23 A. Yes.

24 Q. And does that bone mineralization happen when puberty  
25 begins from gender-affirming hormones?

1 A. Yes.

2 Q. And generally how long, once a hormonal puberty is  
3 initiated, does one's bone density reach a normal range?

4 A. Well, the data that we have, and in my clinical practice,  
5 we see that happen about two to three years after they are on  
6 either gender-affirming hormones or go through their own  
7 puberty.

8 Q. And in the event that someone does not regain full bone  
9 density, what are some reasons that might be?

10 A. What I have seen is it tends to be the patients who had low  
11 bone density to start with, that they typically had risk factors  
12 for that to begin with. And those include things like a family  
13 history of osteoporosis or low vitamin D status or low physical  
14 activity, as physical activity actually stimulates, you know,  
15 calcium being accrued in the bones, or poor nutritional status.  
16 And that could be low weight for any reason, either poor eating  
17 habits or poor absorption from an inflammatory disease or other  
18 things.

19 Q. On average, for how many years do you keep patients with  
20 gender dysphoria on pubertal suppression before puberty is  
21 initiated?

22 A. Our goal is to keep them within the normal pubertal range,  
23 so it's not very long, anywhere from three years or so, maybe  
24 four.

25 Q. And on average, for how many years do you keep patients

1 with precocious puberty on pubertal suppression before puberty  
2 is initiated?

3 A. That can vary a lot depending on how early they start  
4 puberty. There's some kids who start into puberty precociously  
5 at like two or three, and they would be on until they are 11.  
6 So, you know, that's, what, nine years or so. The majority of  
7 them are starting at around four or five until about 11.

8 Q. Dr. Levine, one of defendants' experts, has said that there  
9 are psychosocial effects to the administration of puberty  
10 blockers because they keep young teens in a childlike physical  
11 prepubertal state while their peers are undergoing puberty. Do  
12 you have a response to that?

13 A. Well, you know, there's a really wide range of normal  
14 puberty in kids. So, you know, normal could be in assigned  
15 females at birth anywhere from eight to 14 for the start and  
16 then even 15, 16, 17 for the end of it. For kids who are --  
17 those who are assigned male at birth, it can be anywhere from  
18 nine to, you know, 14 to start and 17, 18, 19, 20 before they  
19 finish. And, you know, our treatments are designed to keep  
20 those kids within the normal framework of puberty and to match  
21 their peers as much as we can.

22 Q. Dr. Hruz, another one of defendants' experts, claims that  
23 there are cognitive and executive functioning risks associated  
24 with pubertal suppression. Do you have a response to that?

25 A. I haven't seen any issues with our patients having delay in

1 their cognitive development or their executive function. The  
2 data that's available doesn't show that that's occurring. We  
3 see, you know, kids who have delayed puberty who are still  
4 learning just fine and going to school, and they are making all  
5 As even though they are not in puberty and they might be a  
6 little late. So I would disagree with that.

7 Q. And does every person naturally undergo a hormonal puberty?

8 A. No.

9 Q. And what conditions may prevent someone from undergoing a  
10 hormonal puberty?

11 A. So there are cancer treatments that can cause people to  
12 have damage to their ovaries or testicles. There are autoimmune  
13 diseases that can cause that damage. There's brain tumors that  
14 can cause the signal to those ovaries and testicles not to work.  
15 There's congenital things like Turner syndrome, and Klinefelter  
16 sometimes may have a pause and not a complete puberty.

17 Q. In patients with those various conditions, have you seen  
18 cognitive impairments?

19 A. I haven't. In fact, I've had patients who went to law  
20 school and got their Ph.D., friends that are physicians with all  
21 of those different conditions.

22 Q. And are puberties [sic] safe in your opinion when used to  
23 treat central precocious puberty?

24 A. Yes.

25 Q. And are puberty blockers safe when used to treat gender

1 dysphoria?

2 A. Yes.

3 Q. I want to talk a little more about the gender-affirming  
4 hormones that you mentioned. I'm going to start with each of  
5 these medications in turn, and hopefully I've remembered them  
6 all correctly. I'm going to ask you -- sorry. Let me back up.  
7 Are all of the endocrine treatments -- are the endocrine  
8 treatments that you use to treat gender dysphoria used to treat  
9 other conditions?

10 A. Yes.

11 Q. Now I want to ask a little bit about each of them in turn.  
12 Other than gender dysphoria, what conditions do you treat with  
13 testosterone?

14 A. Delayed puberty, micropenis, hypogonadism, which I  
15 mentioned where the pituitary doesn't work, and if you had a  
16 cancer. That would be the main ones.

17 Q. And do you prescribe testosterone for any of these  
18 conditions to people assigned male at birth?

19 A. Yes.

20 Q. And what other conditions do you treat with testosterone  
21 suppression?

22 A. So polycystic ovary syndrome is one of the primary ones or  
23 PCOS. And if you have hirsutism for a reason other than PCOS  
24 and acne.

25 Q. Do you prescribe testosterone suppression for people

1 assigned female at birth?

2 A. Yes.

3 Q. What other conditions do you treat with estrogen?

4 A. Turner Syndrome is probably the most common thing that I  
5 treat with estrogen, also any of the conditions I mentioned  
6 before, like delayed puberty or if you've had cancer of some  
7 sort and you can't make your own estrogen. I think those are  
8 the big ones.

9 Q. And do you prescribe estrogen to people assigned female at  
10 birth?

11 A. Yes.

12 Q. What other conditions do you treat with progesterone?

13 A. Progesterone I use to manage heavy bleeding in people who  
14 have periods that are either irregular or very heavy, and then  
15 it has been used to actually treat early puberty. I don't use  
16 it that often for that. And I think those are the main ones  
17 outside of gender dysphoria.

18 Q. And why are these gender-affirming hormones used to treat  
19 gender dysphoria?

20 A. The hormones allow the body to align with the gender  
21 identity and relieve that distress and relieve that incongruence  
22 of those two things and allow for a decrease in anxiety and  
23 depression and the other associated challenges that our patients  
24 have.

25 Q. And when you prescribe testosterone to transgender boys,

1 are there physiological changes that happen as a result?

2 A. Yes.

3 Q. And what are those physiological changes?

4 A. So we can see desired effects that are, you know, facial  
5 hair, voice change, body hair, increased muscularization,  
6 ability to build muscle, decrease in fat mass or shifts in the  
7 fat mass locations, so more in the central area, not in the  
8 chest or hips. And those are the primary ones that we see that  
9 are the -- well and stopping their menstrual cycles as well.  
10 Those are the most desired ones.

11 Q. Are there physiological effects of estrogen and  
12 testosterone suppression when prescribed for transgender girls?

13 A. Yes. The desired effects are generally less facial hair or  
14 slowing down of facial hair growth, less acne, less hair loss,  
15 like male pattern hair loss. That stops. We also get skin  
16 softening, breast development, shifts in body fat. So it's  
17 distributed more to the chest and the hips. Those are the main  
18 ones that we're looking for.

19 Q. And are there potential side effects of the testosterone  
20 treatment used to treat transgender boys with gender dysphoria?

21 A. Yes.

22 Q. And what are some of those side effects?

23 A. So some of the things that we are watching out for that are  
24 not desired effects are potentially -- not a lot of them are  
25 excited if they have male pattern baldness. Some of them are.

1 There is acne, which can happen. We also see sometimes a shift  
2 in their blood findings, in particular cholesterol and  
3 hemoglobin to a more masculine pattern, similar to what we would  
4 see in a brother, say, in their family, which would be, you  
5 know, more total cholesterol, slightly more LDL and then lower  
6 HDL. The amount, the thickness of the blood, or the hemoglobin  
7 or hematocrit can go up. That's a function of testosterone.  
8 We're not seeing that go into ranges that are outside of the  
9 male normals. We're not seeing any consequences of that, but we  
10 watch for that. There has been a history of liver dysfunction  
11 with testosterone that was given orally in the past, but the  
12 formulations of testosterone we use now don't have those  
13 effects. But we certainly keep our eyes open for that.

14 And then, because they are not having periods, they may or  
15 may not be infertile. There are times when patients have  
16 inadvertently gotten pregnant while on testosterone, because  
17 it's not a reliable -- it doesn't reliably block ovulation. So,  
18 you know, we walk through, if you don't want to be pregnant,  
19 then you need to use another method, or, if you do want to be  
20 pregnant, then we need to pause your testosterone for a while.

21 Q. And related to the fertility, does testosterone treatment  
22 in adolescents with gender dysphoria potentially affect  
23 fertility?

24 A. Yes.

25 Q. And in what ways?

1 A. You know, it can cause irregular ovulation, and it can  
2 cause, you know, them to stop having their periods. And those  
3 are the primary ones.

4 Q. And other than the fertility that you just discussed, are  
5 these potential side effects of testosterone treatments  
6 comparable when used to treat gender dysphoria and when used to  
7 treat other conditions?

8 A. Yes. We see the same effects with the exception of the  
9 effects on the ovary and the testicle.

10 Q. And are there any side effects to testosterone suppression?

11 A. So the medication we use for testosterone suppression is  
12 spironolactone. It was designed as a medication for heart  
13 failure and high blood pressure, so it actually causes you to  
14 pee a lot more. It's a diuretic. So we talk about increasing  
15 hydration. And that effect actually wears off after a little  
16 bit. It can cause an increase in potassium levels, salt in the  
17 blood. So we check that very carefully every time the patient  
18 comes in and talk about what those symptoms might look like so  
19 they can call, and we can get those checked if they are seeing  
20 any of those. And then you can see -- I was trying to think.  
21 Those are the main ones we watch out for with that.

22 Q. Are these side effects that you've mentioned comparable  
23 when used to treat other conditions with the testosterone  
24 suppression?

25 A. Yes.

1 Q. And are there potential side effects of estrogen?

2 A. Yes.

3 Q. And what are some of those?

4 A. So the one that we are kind of keeping an eye out for the  
5 most is blood clots. And that can be a stroke or a clot  
6 somewhere else in the body. The, you know, newer estrogen  
7 medications have a much better profile and a lower risk of blood  
8 clots. You know, we talk with the patients about avoiding any  
9 other triggers, one being taking too much estrogen, because that  
10 was the most common reason that blood clots had been seen in  
11 transgender patients. Two, you know, we monitor that and check  
12 their levels and talk with them about it, you know. Avoid  
13 smoking. Stay a healthy weight. We work with them for exercise  
14 and nutrition with physical therapy if we need to and smoking  
15 cessation treatments if we need to. So that is the first one we  
16 watch out for.

17 And then, other than that, you know, liver dysfunction,  
18 again, if you are taking the medications unmonitored at higher  
19 levels. We're not really seeing that in the newer forms of  
20 estrogen in the normal physiologic female range. We watch for  
21 lower hemoglobin levels, and that is not really coming up in our  
22 patients. They may go into the upper end of the female range,  
23 which would flag in our computer system, but they are not  
24 symptomatic of anemia, not having any issues with it. And they  
25 are -- you know, they are not technically anemic.

1           What else do we watch for? The prolactin can go up.  
2 Naturally your body, when you have higher levels of estrogen,  
3 stimulates prolactin. Prolactin is a hormone that allows you to  
4 breastfeed babies. I haven't had any patients who have had that  
5 issue. There are some case reports, a handful of them, but we  
6 definitely follow that and make sure that our patients are aware  
7 that if they have any leakage of their breasts that they need to  
8 notify us right away. But, again, that is really rare.

9 Q. Can estrogen affect fertility in patients treated for  
10 gender dysphoria?

11 A. Yes. Estrogen can lower sperm counts and can change the  
12 motility of the sperm as well.

13 Q. And, other than fertility, are these potential side effects  
14 that you've mentioned from estrogen comparable for all the  
15 conditions that you treat with estrogen?

16 A. Yes.

17 Q. And are there potential side effects or risks of  
18 progesterone?

19 A. Yeah. For progesterone we're looking for -- occasionally  
20 we see some mood changes, so we talk with them about if there's  
21 any change in your mood to let us know. I'm not seeing that.  
22 Most of my patients are very excited to not have a period, so  
23 they are actually in a really good mood. There is some weight  
24 gain, and that's really it.

25 Q. Are these potential side effects comparable for all the

1 conditions that you treat with progesterone?

2 A. Yes.

3 Q. Do you discuss these potential side effects with patients  
4 and their families?

5 A. Yes.

6 Q. And do you monitor for these potential side effects in your  
7 patients?

8 A. Yes, we do. I counsel about ways to, you know, avoid any  
9 of the side effects. And, you know, specifically for the  
10 fertility, too, we offer counseling with our reproductive  
11 endocrinologist for preservation of sperm or eggs if they would  
12 like to.

13 Q. And are there things that you can do to minimize the risk  
14 of any of these side effects for your patients?

15 A. The biggest thing is continuing to be seen in our clinic  
16 and have their levels monitored and take their medication as  
17 directed. And then also, you know, for all of us, maintaining a  
18 healthy weight is going to reduce all of these things, you know.  
19 Just in the general population, you are less likely to have a  
20 stroke or a heart attack if you are a healthy weight and a  
21 healthy blood pressure, and then avoid smoking as well.

22 Q. And this counseling and monitoring that you've discussed,  
23 is that consistent with the Endocrine Society Guideline?

24 A. Yes.

25 Q. And some of the potential side effects that you mentioned

1 sound potentially serious like blood clots with respect to  
2 estrogen. Are these common side effects of treatment?

3 A. They are very rare.

4 Q. And would you have concerns about the potential risks of  
5 these endocrine treatments if the patients were not monitored by  
6 a doctor?

7 A. Yeah. That's where most of them that have been reported  
8 have occurred, when medications were used in excess in an  
9 unmonitored atmosphere.

10 Q. And in your clinical experience, how often are you  
11 generally observing side effects in your patients being treated  
12 for gender dysphoria?

13 A. I'm rarely seeing any side effects. The hemoglobin going  
14 up is probably the most common one I see. Again, we're not  
15 seeing any problems with that long term.

16 Q. What is the hemoglobin going up?

17 A. I'm sorry. The increased thickness of the blood.

18 Q. And that is in transgender boys treated with testosterone?

19 A. Yes.

20 Q. And is there increased thickness of their blood increasing  
21 beyond the typical male range, or can you explain a little more?

22 A. Sure. No. What we're seeing is it does go typically into  
23 the normal male range. I'm not seeing patients' hemoglobin  
24 levels go higher than that. You know, things -- times when that  
25 can happen naturally are if you are dehydrated, so we also talk

1 about making sure you are well hydrated to avoid that particular  
2 side effect.

3 Q. And just to summarize, do the gender-affirming hormone  
4 therapies that you use to treat gender dysphoria in your  
5 patients carry comparable side effects as when used to treat  
6 other conditions?

7 A. Yes. They are comparable, with the exception of the  
8 fertility that we discussed.

9 Q. And is testosterone safe when used to treat gender  
10 dysphoria?

11 A. Yes.

12 Q. Is estrogen safe when used to treat gender dysphoria?

13 A. Yes.

14 Q. Is testosterone suppression safe when used to treat gender  
15 dysphoria?

16 A. Yes.

17 Q. Is progesterone safe when used to treat gender dysphoria?

18 A. Yes.

19 Q. I want to ask you just a few more questions about fertility  
20 that we have been discussing. Are there pediatric treatments  
21 that you provide that can affect or that can have the effect of  
22 impairing fertility?

23 A. Yes. The cancer treatments are a common treatment that  
24 cause infertility in children.

25 Q. And do puberty blockers on their own impair fertility?

1 A. No.

2 Q. And does hormone therapy, testosterone for trans boys and  
3 estrogen and testosterone suppression for trans girls, on its  
4 own impair fertility?

5 A. So we're not seeing anything with regard to impaired  
6 fertility for our trans masculine patients from testosterone.  
7 More recent, like more recently, we're seeing folks choose to  
8 come off testosterone and have the same ability to get pregnant  
9 as those who have not been on testosterone. With regard to  
10 estrogen, some newer studies are showing that once you've been  
11 off estrogen for about 12 weeks a return of fertility is  
12 happening for our trans feminine patients in a large portion of  
13 the patients, so, you know, all good news.

14 Q. And just so I understand this, if someone goes off of  
15 testosterone or estrogen after getting treatment for some time,  
16 you know, sort of how does it affect their fertility in the  
17 permanent sense?

18 A. For some there is potentially a permanent effect, but we're  
19 not seeing that for a lot of our patients. Actually we're  
20 seeing they are fertile once they come off these medications.

21 THE COURT: I was waiting for it. Early on in your  
22 testimony you indicated that the primary irreversible issue  
23 about fertility was when you were combining puberty blockers  
24 with hormone treatment. If I misspoke, correct me. Since we're  
25 only dealing about minor treatment for gender dysphoria, is

1 there ever a situation where you are not combining the two in  
2 your treatment of dysphoria?

3 THE WITNESS: So we have about 12 patients where that  
4 would be combined. The other 600 --

5 THE COURT: All minors?

6 THE WITNESS: -- are not using any puberty blockers.

7 THE COURT: I guess what I'm saying is, of all your  
8 patients, I'm talking about just the minor patients.

9 THE WITNESS: They are all minors.

10 THE COURT: Okay. Fair enough. So it's only the  
11 combination that -- I don't want to say always -- but most of  
12 the time affects fertility. You've just told me what can happen  
13 within 12 weeks on estrogen and generally or immediately with  
14 testosterone only and what you've told me about puberty blockers  
15 only. Tell me again what subset of your patients is on both.

16 THE WITNESS: So I've only used puberty blockers in  
17 about 12 patients. Not all of them have gone on to add  
18 gender-affirming hormones. Some have come off and gone through  
19 their natural puberty. So the combination -- some are just  
20 still paused right now, right? So the combination of the two,  
21 maybe only four or five.

22 THE COURT: Out of a population of --

23 THE WITNESS: 600.

24 THE COURT: Thank you.

25 BY MR. STRANGIO:

1 Q. Just to follow up on that line of questioning, why is it  
2 that you have such a small number of patients that have gone  
3 from puberty blockers to hormone therapy?

4 A. You know, there are not as many patients who, you know,  
5 have sort of figured out that their gender identity is a  
6 transgender identity at that point in time. Puberty is a normal  
7 time for people to start to understand their gender identity and  
8 consolidate that, so many of them aren't really sort of at the  
9 point where they really are having enough dysphoria for that to  
10 be needed until after puberty has already kind of gotten further  
11 along.

12 Q. So returning to the questions about these medications in  
13 combination, what happens with a patient's fertility when they  
14 go from pubertal suppression to the gender-affirming hormone  
15 therapy?

16 A. I'm sorry. Could you repeat the question?

17 Q. Yeah. That was a terrible question. So with respect --  
18 how is fertility affected for patients who go from pubertal  
19 suppression to gender-affirming hormone therapy?

20 A. So, you know, it can vary. If you are stopping a kid at  
21 that very early stage that I mentioned, Tanner II or V, the  
22 ovaries and testicles are still very immature and aren't able to  
23 make functional sperm or eggs yet. So if you pause there and go  
24 directly on the gender-affirming hormones, those will not  
25 advance in their stages and produce those sperm or eggs. If you

1 wait until they are Tanner III or further along, at the time  
2 when kids are making sperm and eggs but haven't completed  
3 puberty yet, then they may not have that problem when you add  
4 the gender-affirming hormones to them.

5 Q. And do you counsel patients and their parents about this  
6 potential impact on fertility?

7 A. Yes. We counsel them at the very beginning when they start  
8 gender-affirming hormones, and we counsel them again when we add  
9 the puberty blockers. And then we counsel them again when we  
10 add gender-affirming hormones very carefully, because at that  
11 point they could stop the medication and gain full fertility if  
12 they just stopped the puberty blockers. And they have had time  
13 to kind of think that through, and parents have had time to  
14 process as well.

15 Q. For patients who are concerned about the potential impact  
16 on fertility, are there options for fertility preservation?

17 A. The main option for people on puberty blockers would be to  
18 go off of them and go through their own puberty and allow those  
19 ovaries and testicles to fully mature. You know, other options  
20 for other people who have infertility would work as well, so,  
21 you know, if they were to have a surrogate, a donor or those  
22 sorts of things.

23 Q. And is your process for counseling patients that you've  
24 just discussed, is that consistent with the protocols from the  
25 Endocrine Society and WPATH?

1 A. Yes.

2 Q. And are these discussions similar to the discussions you  
3 have with the, for example, cancer patients that you discussed  
4 who may have impaired fertility from treatments?

5 A. Yes. We are definitely counseling them about options.

6 Q. And just shifting gears a bit, in your practice do you  
7 discuss sexual health and satisfaction with your patients?

8 A. Yes.

9 Q. And in your experience, treating adolescents with gender  
10 dysphoria, how do endocrine treatments for gender dysphoria  
11 generally affect sexual satisfaction?

12 A. For testosterone, in my trans masculine patients it  
13 enhances libido and interest in sex and actually improves their  
14 sexual satisfaction, not just from the direct hormonal effects  
15 in the, you know, reproductive tract but also in the alignment  
16 of their body with their gender identity. And that alignment  
17 allows them to feel more comfortable in their body. And when  
18 you are comfortable in your body, you are much more likely to be  
19 able to enjoy the sexual activity.

20 Q. And is that true for both your trans masculine and your  
21 trans feminine patients?

22 A. So for trans feminine patients, the alignment part is  
23 absolutely true. They definitely are much more confident and  
24 much more interested in thinking about partners and those sorts  
25 of things when their body matches their gender identity. The

1 suppression of the androgens can sometimes lead to difficulty  
2 with arousal and those sorts of things, and so I talk with my  
3 patients about, you know, titrating their medication so that  
4 they are able to have appropriate sexual function that they  
5 would like to have.

6 Q. And the defendants' experts claim that gender-affirming  
7 treatment generally impairs sexual function and the ability to  
8 orgasm, so I want to ask some specific questions about that with  
9 respect to each of the medications. Starting with puberty  
10 blockers, does this medication on its own impair a patient's  
11 sexual function?

12 A. So at the time that you are on those medications, you are  
13 paused wherever you were in that pubertal advancement, so you  
14 don't normally see erections or -- well, you see erections, but  
15 you don't necessarily see orgasm until later on in puberty for  
16 the trans feminine patients. For the trans masculine patients,  
17 there's no effect with regard while you are on GnRH.

18 Q. For this particular side effect, with respect to the trans  
19 feminine patients, does it last beyond the duration of the  
20 treatment with puberty blockers?

21 A. If you come off of them and you are allowed to advance in  
22 your own puberty, we don't see that problem. Everything  
23 recovers as it would if you had just gone straight through your  
24 natal puberty for the trans feminine patients.

25 Q. Going to just hormone therapy, does hormone therapy, so

1 estrogen and testosterone suppression for trans girls and  
2 testosterone for trans boys --

3 THE COURT: Slow down a little. Start over.

4 BY MR. STRANGIO:

5 Q. And just on the hormone therapy, does hormone therapy,  
6 specifically estrogen and testosterone suppression for trans  
7 girls and testosterone for trans boys, does that have any effect  
8 on ability to orgasm?

9 A. So just the gender-affirming hormones, testosterone more  
10 likely would improve that. The estrogen and the hormone  
11 suppression, it's possible that you could see some decrease in  
12 orgasm, and we would titrate the medication so that that didn't  
13 happen if it was something that the patient desired. Some trans  
14 feminine patients do not want to have erections. They don't  
15 want to have any of that going on. So, you know, we work with  
16 each patient and tailor their care.

17 Q. Then, again, for the patients who go from pubertal  
18 suppression to the gender-affirming hormones, does that  
19 progression affect a patient's ability to orgasm?

20 A. So it depends on where they are when we stop, when we start  
21 the medication, and it depends on what treatments come later.  
22 You can add back, for a trans feminine patient, testosterone if  
23 they have been on blockers that's topical and local and can  
24 actually improve growth of the genitals if they have been paused  
25 and improve their ability to orgasm with regard to the hormones.

1 There's a lot of stuff we work, try very hard to make sure the  
2 patients are sexually healthy.

3 Q. And for trans masculine patients who go from suppression to  
4 testosterone, is there any impact on their ability to orgasm?

5 A. No.

6 Q. And so it's my understanding that the only group of people  
7 for whom there may be some longer term impact on ability to  
8 orgasm would be trans girls blocked in early puberty who then go  
9 on to estrogen?

10 A. Correct.

11 Q. And for this group of people, how is this side effect  
12 managed?

13 A. Well, like I said, it depends on whether that's a side  
14 effect for them or a desired effect. If it's a side effect and  
15 they want to have orgasm, then, you know, we can add  
16 testosterone or dihydrotestosterone later to improve that.

17 Q. I want to also talk a little bit about some other  
18 implications for trans girls within this category of girls that  
19 go from pubertal suppression to hormone therapy, because  
20 defendants' experts have also focused on some of the potential  
21 surgical implications. For patients who go from pubertal  
22 blockers to hormones, can that affect surgical outcomes if they  
23 have a medical need for surgery when they are older?

24 A. So for those that -- again, it kind of just depends on  
25 where you start them. The earlier you start the patient on the

1 medication, the less genital growth that they have. So you  
2 would change the particular method of surgery potentially based  
3 on what's available for that surgery. One of the options that  
4 people are working on are all kinds of different options for  
5 those patients, including giving testosterone to grow that area  
6 to have more tissue available later on. But we do talk with our  
7 patients specifically that if we stop you earlier rather than  
8 later it may just change the technique that's required for your  
9 procedure later on.

10 Q. And moving on to talk a little bit about surgery, does the  
11 Duke Gender Clinic, where you work, provide surgery to  
12 adolescents with gender dysphoria?

13 A. No.

14 Q. And in your practice do you refer adolescents for top  
15 surgery to treat gender dysphoria?

16 A. Yes.

17 Q. And do you ever refer adolescents for genital surgery to  
18 treat gender dysphoria?

19 A. No.

20 Q. And have you had any minor patients who have undergone  
21 gender-affirming top surgery?

22 A. Yes.

23 Q. And how has the top surgery impacted your patients?

24 A. When my patients come back after their top surgery, they  
25 are all over the moon. They are very happy to have their body

1 align with their gender identity. They are often coming off  
2 their antidepressants and their anti-anxiety medications because  
3 anxiety and depression has improved so much. It allows them to  
4 focus on the future. They are able to better participate in  
5 school and work, yeah.

6 Q. And how has it affected their dysphoria?

7 A. Their dysphoria is much relieved by the top surgery.

8 Q. And I want to ask about some potential side effects of top  
9 surgery. Are patients able to retain nipple sensation after top  
10 surgery?

11 A. So it depends on the technique of the surgeon. Most of my  
12 patients have had no issues with that.

13 Q. And are patients able to breastfeed after top surgery?

14 A. In general, they are not able to.

15 Q. And how has that impacted your patients?

16 A. Well, most of them, it wasn't something that they did  
17 desire to do, and so it's not something that they have concerns  
18 about.

19 Q. Are there options for patients for whom breastfeeding is  
20 important?

21 A. Certainly we would talk about that and have them either  
22 delay their procedure until after they had their children.

23 Q. And moving on a little, just to generally talk about the  
24 efficacy of this treatment, we talked earlier about the goal of  
25 treatment for gender -- excuse me. We talked earlier about how

1 the goal of endocrine treatment for gender dysphoria is to  
2 alleviate the distress experienced by the incongruence between a  
3 person's gender identity and assigned sex. Is that right?

4 A. Yes. The distress is what the dysphoria is, and that's  
5 what we're trying to alleviate.

6 Q. And in your clinical experience and expertise are puberty  
7 blockers effective at treating gender dysphoria in adolescents?

8 A. Yes.

9 Q. And how are they effective?

10 A. For my patients, they are distressed by the changes that  
11 are happening in their body that don't match their gender  
12 identity. And being able to pause those changes allows them to  
13 decrease that dysphoria. It allows them to have less anxiety  
14 and lowers their depression.

15 Q. And what have you observed clinically in patients treated  
16 with puberty blockers for gender dysphoria?

17 A. In general, my patients do quite well. They are able to  
18 really focus on the important parts of growing up and  
19 participating in school and being active and involved when we  
20 are able to pause their puberty, and it gives them time to  
21 really think about their next steps without having to worry  
22 about pubertal changes that will make them feel bad.

23 Q. Do puberty blockers have an impact -- actually, withdrawn.  
24 In your clinical experience and expertise is gender-affirming  
25 hormone therapy effective at treating gender dysphoria in

1 adolescents?

2 A. Yes.

3 Q. How is it effective?

4 A. Well, if you align the body with the identity, it decreases  
5 that distress, and it decreases the incongruence between their  
6 body and their identity, so it can decrease their depression,  
7 their anxiety, their dysphoria, a lot of the other challenges  
8 that they have.

9 Q. Based on your clinical expertise as an endocrinologist, how  
10 does the effectiveness of pubertal suppression and hormone  
11 therapy to treat gender dysphoria compare to the effectiveness  
12 of other treatments that you might use for other pediatric  
13 conditions?

14 A. In general, the efficacy rate is very high. You know,  
15 there are other things that certainly aren't as likely to help  
16 in another pediatric condition like antibiotics for an upper  
17 respiratory tract infection.

18 Q. I'm shifting gears just a bit to discuss some of the  
19 effects of denying or delaying care. For patients undergoing  
20 pubertal suppression treatment for gender dysphoria, what would  
21 be the physiological effects of stopping that treatment?

22 A. So for patients who were on those puberty blockers and were  
23 feeling relief from them and they restarted their puberty once  
24 that medication has started, the distress that they were feeling  
25 prior could recur. Their anxiety can get worse. Their

1 depression can get worse. Their dysphoria can get worse. Their  
2 risk of suicidality can increase.

3 Q. And would it affect their body physically?

4 A. They would continue to have pubertal changes that were  
5 congruent with their assigned sex at birth.

6 Q. And would those changes be permanent?

7 A. Yes.

8 Q. And what about for an adolescent patient being treated with  
9 testosterone for gender dysphoria? What would happen if he had  
10 to discontinue treatment?

11 A. So, you know, facial hair would not be growing great. Body  
12 hair, they might have trouble with loss of their body hair, and  
13 their body shape would return to a more feminine shape, lower  
14 muscle mass, a shifting of the body fat. And with all of those  
15 shifts, their body would be, again, not aligned well with their  
16 gender identity and kind of definitely could affect their mental  
17 health.

18 Q. And how might it affect their mental health?

19 A. Increase in anxiety and depression and dysphoria.

20 Q. And what about for trans girls having to discontinue  
21 testosterone suppression and estrogen as part of their treatment  
22 for gender dysphoria? What would happen?

23 A. Yes. For the androgen blockers, you know, their beard  
24 would come back. And that could be very distressing for someone  
25 whose body is feminine and has already been through this

1 process, whole process to align, or they may see shifts in the  
2 body fat again, you know, less of that hips and chest and more  
3 central fat distribution. And with the androgen blockers, you  
4 may see shifts in the blood pressure because, as I mentioned, it  
5 lowers blood pressure, and it may cause that blood pressure to  
6 rise.

7 Q. Would you expect mental health effects as well?

8 A. Yes. Anytime that a person's body is no longer aligning  
9 with their identity they would very commonly have an increase in  
10 depression and anxiety.

11 Q. And are there risks of not initiating a treatment in the  
12 first instance if it is deemed medically indicated for an  
13 adolescent with gender dysphoria?

14 A. So that is something we look at with every single patient.  
15 We look at their current risks for waiting. And those primarily  
16 are around deterioration and mental health and worsening  
17 anxiety, depression, hospitalization and suicidality. And so we  
18 try to balance that with how much of that is going on and, you  
19 know, what the risks and benefits are of using medication.

20 Q. And how do you know these risks exist?

21 A. Because I've seen it in my practice.

22 Q. In what context have you seen it?

23 A. So I lost a patient to suicide because they did not make it  
24 to their second visit, when, you know, we would have been able  
25 to potentially start gender-affirming hormones at that time.

1 Q. And is it possible to just wait until patients are 18  
2 before initiating these endocrine treatments for gender  
3 dysphoria where indicated?

4 A. Not for that patient. And for many of my patients, the  
5 risks are real.

6 Q. Thank you.

7 MR. STRANGIO: If I could have just one moment, Your  
8 Honor. Thank you.

9 BY MR. STRANGIO:

10 Q. Sorry. Just one clarifying question because I think you  
11 may have misspoke earlier. So if I could just ask the total  
12 number of patients that -- sorry. Withdrawn. I have no further  
13 questions.

14 MR. STRANGIO: I'll pass the witness.

15 MR. JACOBS: Is the Court planning on stopping at any  
16 particular time tonight?

17 THE COURT: Y'all asked me to stop at eight, so I was  
18 going to do that unless we either run out of energy or run out  
19 of witnesses, whatever the case. But we're going to do direct  
20 on this witness and redirect, if necessary. And then we'll  
21 evaluate further.

22 MR. JACOBS: Okay. Could we take a short, like five  
23 or ten-minute, restroom break before cross-examination?

24 THE COURT: Did y'all go last time?

25 MR. JACOBS: I don't remember.

1 THE COURT: Well, I mean, you asked for a restroom  
2 break, and I was wondering if that's really what it was for.  
3 We'll take a ten-minute break.

4 (Recess from 5:53 p.m. until 6:04 p.m.)

5 THE COURT: Go ahead, Mr. Jacobs.

6 MR. JACOBS: Thank you.

7 CROSS-EXAMINATION

8 BY MR. JACOBS:

9 Q. Good evening, Dr. Adkins. My name is Dylan Jacobs, one of  
10 the attorneys with the Attorney General's Office. I don't  
11 believe we have spoken before this evening. First off, though,  
12 I believe you testified that in your practice you follow the  
13 Endocrine Society Guidelines and WPATH Standards of Care.

14 A. Yes.

15 Q. So are the Endocrine Society Guidelines something that you  
16 regularly consult in your practice?

17 A. When a question comes up, I do.

18 MR. JACOBS: Your Honor, can I approach?

19 THE COURT: Sure.

20 BY MR. JACOBS:

21 Q. So this is the first five pages or so of Defendants'  
22 Exhibit 41. I'm not intending to have this admitted during this  
23 witness. Do you recognize this document?

24 A. Yes.

25 Q. Does this appear to be the Endocrine Society Guidelines

1 that you were referring to in your testimony earlier or the  
2 first few pages of those guidelines I should say?

3 A. It does appear to be that.

4 Q. Are you familiar with the Grading of Recommendations,  
5 Assessment, Development and Evaluation Group?

6 A. Yes.

7 Q. Is that commonly abbreviated as GRADE?

8 A. Yes.

9 Q. If you could, turn with me to page 3872. It's the  
10 second-to-last page on this document. So under the heading  
11 towards the end of the page, Method of Development of  
12 Evidence-Based Clinical Practice Guidelines, are you there?

13 A. Yes.

14 Q. Have you read this portion of the Endocrine Society  
15 Guidelines before today?

16 A. Yes. It's probably been a minute, but yes.

17 Q. And are you generally familiar with how GRADE grades  
18 evidence used in clinical practice guidelines?

19 A. Yes.

20 Q. And with its inclusion here, is it your understanding that  
21 the Endocrine Society has used the GRADE system to grade the  
22 evidence that it's citing for the practice guidelines here?

23 A. Yes.

24 Q. Is that unique to the Endocrine Society Guidelines, or is  
25 this used across other clinical practice guidelines in medicine?

1 A. Yes. It's used in other practice guidelines.

2 Q. Is that seen as a sort of standardized system for grading  
3 practice guidelines across specialties?

4 A. It has been used. There are some other systems that are  
5 also used, but this one has been used.

6 MR. JACOBS: So, Your Honor, per Rule 803(18), I guess  
7 under the learned treatise exception to hearsay, I was going to  
8 read a portion of this. I don't know whether you would like me  
9 to do that or if Your Honor wanted to look at it. How would you  
10 prefer we proceed on that?

11 THE COURT: If you can get me to the right place, I'll  
12 let you read it while I highlight it so I can go back without  
13 having to go to the transcript.

14 MR. JACOBS: So we're in the same place --

15 THE COURT: "(1) A detailed description," are we  
16 before or after that?

17 MR. JACOBS: So a couple of sentences after. I was  
18 going to start with "the task force."

19 THE COURT: I'm there. Just read slowly to my court  
20 reporter, and I'll follow along.

21 MR. JACOBS: It says: "The task force also used  
22 consistent language and graphical descriptions of both the  
23 strength of a recommendation and the quality of evidence. In  
24 terms of the strength of the recommendation, strong  
25 recommendations use the phrase, quote, we recommend, end quote,

1 and the number 1, and weak recommendations use the phrase,  
2 quote, we suggest, end quote, and the number 2. Cross-filled  
3 circles indicate the quality of the evidence, such that" -- and  
4 there's a graphical depiction of a cross-filled circle followed  
5 by three blank circles.

6 THE COURT: You don't have to describe it.

7 MR. JACOBS: -- "denotes very low quality evidence."  
8 The next graphic, "low quality"; the next graphic, "moderate  
9 quality"; and the last graphic, "high quality. The task force  
10 has confidence that persons who receive care according to the  
11 strong recommendations will derive, on average, more benefit  
12 than harm. Weak recommendations require more careful  
13 consideration of the person's circumstances, values and  
14 preferences to determine the best course of action. Linked to  
15 each recommendation is a description of the evidence and the  
16 values that the task force considered in making the  
17 recommendation. In some instances, there are remarks in which  
18 the task force offers technical suggestions for testing  
19 conditions, dosing and monitoring." Let me make sure that's  
20 all. "These technical comments reflect the best available  
21 evidence applied to a typical person being treated. Often this  
22 evidence comes from the unsystematic observations of the task  
23 force and their preferences; therefore, one should consider  
24 these remarks as suggestions."

25 Let me make sure I'm done with this.

1           Okay. So now we turn back to page 3871.

2           MR. STRANGIO: Objection. Is there a question related  
3 to that passage?

4           MR. JACOBS: I was going to get there.

5           THE COURT: Go ahead. We're on 3871.

6 BY MR. JACOBS:

7 Q. So do you see the Section 2.0, Treatment of adolescents?

8           THE COURT: No. Yes.

9 BY MR. JACOBS:

10 Q. Dr. Adkins, do you see that section?

11 A. Yes.

12 Q. And do you see under the various sort of bulleted  
13 suggestions that they are preceded by a number followed by a  
14 graphical picture? So do you understand each of those  
15 suggestions to be graded according to the metric that we were  
16 just talking through under the GRADE method?

17 A. Yes.

18 Q. So these recommendations for 2.1 through 2.6, are these  
19 recommendations that you follow in your practice?

20 A. Yes.

21 Q. So if we could go to 2.1, it reads: "We suggest that  
22 adolescents who meet diagnostic criteria for GD/gender  
23 incongruence, fulfill criteria for treatment, and are requesting  
24 treatment should initially undergo treatment to suppress  
25 pubertal development." So would you agree that under the

1 grading system the evidence for that statement was deemed low  
2 quality under the GRADE system?

3 A. That's what it's labeled. We have many clinical guidelines  
4 in pediatrics that are often low quality, including our  
5 guidelines for CAH, our guidelines for pediatric obesity. So  
6 it's not surprising to see that in any pediatric guideline.

7 Q. Sure. So the number that's right next to the graphic is a  
8 2. And you would agree that that classifies 2.1 as a weak  
9 recommendation under this GRADE metric?

10 A. I would have to look back. That's confusing.

11 THE COURT: So I'm a little confused. Let's just take  
12 2.1, for instance. It says that the guidelines suggest what  
13 they suggest, but they do so weakly? I'm not sure. It says  
14 they do suggest it, so I'm not sure how to match the grading  
15 system with what the language of the suggestion is telling me.

16 MR. JACOBS: So, Your Honor, if we go back to 3872  
17 under the long section --

18 THE COURT: And I read that part.

19 MR. JACOBS: -- that I read --

20 THE COURT: You mean the long section where you had me  
21 highlight?

22 MR. JACOBS: That's right, Your Honor.

23 BY MR. JACOBS:

24 Q. Dr. Adkins, reading back in that section, is it your  
25 understanding that where one of these standards uses the phrase

1 "we recommend" at the beginning and the number 1, that is what  
2 the grading system calls a strong recommendation? Is that your  
3 understanding of how that's denoted?

4 A. Yes. Based on that line, yes.

5 Q. So if a number 2 is used along with the language "we  
6 suggest," that is what the GRADE method calls a, quote, weak  
7 recommendation?

8 THE COURT: That explains it to me. You can inquire  
9 further for your record, but that answers my question.

10 THE WITNESS: Yes.

11 BY MR. JACOBS:

12 Q. So I think we were at 2.1. I'm not sure if we finished  
13 that question. So do you agree that under the grading method  
14 that is both a weak recommendation that, according to the GRADE  
15 method, is based on, quote, low quality evidence?

16 A. That's how it's labeled, and we also see that very commonly  
17 in pediatric clinical guidelines.

18 Q. So for 2.2, it says: "We suggest that clinicians begin  
19 pubertal hormone suppression after girls and boys first exhibit  
20 physical changes of puberty." The same question as to that.  
21 Does that grading metric deem that to be a weak recommendation  
22 based on, quote, low quality evidence?

23 A. That's how it's labeled.

24 Q. 2.3. "We recommend that, where indicated, GnRH analogs are  
25 used to suppress pubertal hormones." That one is also deemed

1 low quality evidence. Correct?

2 A. That's how it's labeled.

3 Q. So going down to 2.4: "In adolescents who request hormone  
4 treatment, given this is a partly irreversible treatment, we  
5 recommend initiating treatment using a gradually increasing dose  
6 schedule after a multidisciplinary team of medical and MHPs has  
7 confirmed the persistence of GD/gender incongruence and  
8 sufficient mental capacity to give informed consent, which most  
9 adolescents have by age 16 years." The same question about the  
10 quality of evidence. Is that, quote, low quality based on the  
11 GRADE method?

12 A. It is lettered low quality. They do also recommend, so a  
13 kind of mixture of the two. The previous ones said suggest  
14 versus recommend.

15 Q. Down at 2.5 -- we're almost done with this. 2.5. "We  
16 recognize that there may be compelling reasons to initiate sex  
17 hormone treatment prior to the age of 16 years in some  
18 adolescents with GD/gender incongruence even though there are  
19 minimal published studies of gender-affirming hormone treatments  
20 administered before age 13.5 to 14 years. As with the care of  
21 adolescents greater than or equal to 16 years of age, we  
22 recommend that an expert multidisciplinary team of medical and  
23 MHPs manage this treatment." So the grading evidence on this  
24 one is very low quality, right?

25 A. It's very low quality, but they are also making a

1 recommendation and not a suggestion in this particular passage,  
2 which would suggest it's not just based on the very low quality  
3 evidence, that they are making this particular recommendation,  
4 you know, based on the descriptor of the GRADE system.

5 Q. In general, under the GRADE system, whenever a point like  
6 this is assigned a low quality grade, do you agree that  
7 indicates a lack of confidence that patients will on average  
8 derive more benefit than harm?

9 A. Actually, in the statement before that we read, it said  
10 when they use the word "recommend," it actually doesn't apply in  
11 that way. Only in the ones where they use the phrase "suggest."

12 Q. So the ones where there is a 2 and the two filled circles  
13 for that one, for those statements it indicates a lack of  
14 confidence that patients will on average derive more benefit  
15 than harm?

16 A. That's what this statement says. And these guidelines are  
17 also five years old, and there's been a lot more evidence since  
18 the time of this publication that these don't reflect.

19 Q. But you follow these guidelines in your practice. Correct?

20 A. In addition to the newer research as well. You can't  
21 ignore new research just because it's not in a guideline at a  
22 particular point in time. You may miss something important and  
23 do something that might not be beneficial to the care of the  
24 patient.

25 Q. Would you agree generally that for any of these

1 recommendations to receive a higher grade evidence score, that's  
2 probably going to require controlled trials?

3 A. So the highest level is a randomized placebo-controlled  
4 trial. In pediatrics, we rarely have randomized  
5 placebo-controlled trials. It has to do with, in particular  
6 areas like this, where the particular entity that you are  
7 studying is a rare condition, that you will never be able to  
8 recruit enough patients, and there are difficulties in getting  
9 the proper control group. So it's really not uncommon for us to  
10 not have a high grade of evidence, especially in pediatrics.

11 Q. So my question was for these recommendations to receive a  
12 higher than low quality grade, is that typically going to  
13 require controlled trials?

14 A. Yes. And in this case it's highly unlikely in most  
15 pediatric research that you are going to reach that.

16 Q. So in the past five years, have there been any controlled  
17 trials that would lead you to believe that if this GRADE metric  
18 were redone today that they would receive higher than low  
19 quality?

20 A. I mean, you are asking me to comment broadly on a lot of  
21 literature, and I can't say that I've read all of the  
22 literature. The studies that I have looked at are better  
23 quality than the original research. As we progress in our  
24 medical research, we are improving our, you know, ability to do  
25 a better method. We're always trying to do that.

1 Q. Can you think of any controlled trials that have come up  
2 and published in the last five years that would apply to any of  
3 these recommendations that we discussed?

4 A. So, again, a controlled trial is kind of a nonspecific term  
5 in medicine. There's, you know, placebo-controlled trials.  
6 There is using a control group going forward that's not  
7 randomized. There's just too many variables there for me to  
8 make a comment.

9 Q. So would the answer be you don't know?

10 A. I would have to look at, you know, a lot of these things.  
11 There are some studies that are of good quality and have been  
12 done with some randomization, but you can't not treat the  
13 patients, which would be a placebo control. So it would have to  
14 be what we call compared to the next best treatment. So there  
15 have been some of those.

16 Q. But you can't testify, sitting here today, that if this  
17 were graded in 2022 based on new evidence available that you  
18 know any of these recommendations would receive something higher  
19 than a low quality grade. Correct?

20 MR. STRANGIO: Objection. Calls for speculation.

21 MR. JACOBS: She's an expert.

22 THE COURT: I don't know that that -- well, answer it  
23 if you can, Doctor.

24 THE WITNESS: So my expertise is not routinely grading  
25 studies for this kind of a clinical guideline. And the newer

1 publications that have been reviewed didn't use the GRADE  
2 system. They used something called the Delphi system to look at  
3 the newer research. So it would be difficult for me to kind of  
4 apply that spontaneously over five years of research.

5 BY MR. JACOBS:

6 Q. I want to go on to talk about puberty blockers for a little  
7 bit because I wasn't sure I heard this right earlier. How many  
8 patients do you think that you have treated with puberty  
9 blockers for gender dysphoria particularly?

10 A. I believe it's about 12.

11 Q. What year did you start treating adolescents for gender  
12 dysphoria?

13 A. Approximately 2013.

14 Q. How many patients would you say you currently have on  
15 puberty blockers for gender dysphoria?

16 A. Maybe nine.

17 Q. So of the 12 patients or so that you've treated across your  
18 career, nine of those patients are still on puberty blockers  
19 currently? Is that a fair summary?

20 A. I think that's right.

21 Q. Of the three patients who are no longer on puberty  
22 blockers, how many would you say moved on to hormone treatment  
23 versus did something else?

24 A. I think two of them went off, just went off -- no. One of  
25 them just went off. One went off after starting

1 gender-affirming hormones, and one transitioned to a different  
2 form of suppression of their puberty.

3 Q. What do you mean by different form of suppression?

4 A. So you can stop a gender-affirming hormone and put someone,  
5 for example, on spironolactone instead of the GnRH agonist.  
6 Testosterone itself actually will work as a puberty suppressant  
7 by itself, so you can stop those medications as well.

8 Q. So out of the three, I think you said you had one who  
9 stopped puberty blockers and went on to cross-sex hormones.  
10 Right? I could be getting this wrong.

11 A. No.

12 Q. No. So recap that for me. Out of the three, what happened  
13 to those three?

14 A. So one went off of the medication completely and went  
15 through their normal puberty. One did have added  
16 gender-affirming hormones but also decided to go off, and one  
17 went off and switched to different suppression. I guess those  
18 last two would be basically the same. There were just different  
19 methods of suppression.

20 Q. So in addition to the testosterone-blocking medications,  
21 that person would also have been prescribed estrogen or only the  
22 testosterone blocker?

23 A. Yes. They would have been treated with estrogen.

24 Q. Okay. So out of those three, do you recall what the natal  
25 sex breakdown was?

1 A. I think that two were assigned females at birth, and one  
2 was an assigned male at birth.

3 Q. So the male at birth, was that the one that went off  
4 completely or the one that moved to cross-sex hormones and then  
5 went off completely?

6 A. It was not the person who just went off and went through  
7 their own puberty. That person was on testosterone. Then they  
8 went off of their puberty suppressant.

9 Q. Okay. It's late, and I may not be following correctly. So  
10 you had one patient who went off puberty blockers and then did  
11 not receive any further medical interventions. Right? So that  
12 person, what was their natal sex?

13 A. They were assigned female at birth.

14 Q. Then the patient who proceeded to hormones, then ceased all  
15 medical interventions, that was male?

16 MR. STRANGIO: Objection. That's mischaracterization  
17 of the testimony.

18 MR. JACOBS: If that wasn't, please explain.

19 THE COURT: If he misstates your testimony, you can  
20 correct him on it.

21 THE WITNESS: Yeah. The person who went on to  
22 gender-affirming hormones after being on and continuing on  
23 puberty suppressants and then discontinued their medications,  
24 that was an assigned female at birth.

25 BY MR. JACOBS:

1 Q. Then the male at birth added in estrogen?

2 A. I'm sorry. I misspoke. Assigned male at birth. Sorry.  
3 I'm having -- it's late.

4 Q. I'm not trying to be difficult. But, like you said, it's  
5 late, so let me just recap. If I misstate this, please correct  
6 me. You had one patient who went off who was on puberty  
7 blockers, went off all medications. That person was female at  
8 birth?

9 A. Yes.

10 Q. Then you had one who added cross-sex hormones, added, I  
11 guess, estrogen and a testosterone blocker. And that person was  
12 male at birth?

13 A. Yes.

14 Q. Then the third person, is that something different, or is  
15 that the same as what we just did?

16 A. That was assigned a female at birth. I'm making sure I'm  
17 getting this right. Assigned female at birth, who went on  
18 estrogen, but then went off everything, yeah.

19 Q. Currently, since you've been providing care for gender  
20 dysphoria, it's fair to say you have had one patient who was a  
21 natal male, started puberty blockers and then moved to cross-sex  
22 hormones afterwards, out of all the patients you treated.

23 A. No. That's a different question. Those are the ones who  
24 went off treatment only. The ones who were on puberty blockers  
25 and went on to gender-affirming hormones were which assignment

1 at birth?

2 Q. So I think you testified that you've had three who aren't  
3 on puberty blockers anymore. I think you said one of the three  
4 was male at birth, two of the three were female. So my question  
5 was just you've had three total patients who started on puberty  
6 blockers and aren't on them anymore. Right? So one of them was  
7 male at birth, who eventually transitioned to cross-sex  
8 hormones. Is that correct?

9 A. Yes.

10 Q. So that's the only patient like that that you've treated in  
11 your career.

12 A. I have other patients who were on puberty blockers who went  
13 on gender-affirming hormones that are still on those. Those are  
14 just the patients who went off.

15 Q. Okay. So I thought your testimony was that you had treated  
16 12 patients, about, with puberty blockers ever.

17 A. That's about right, yes.

18 Q. So I thought your testimony was nine of them are still on  
19 puberty blockers --

20 A. Yes.

21 Q. -- today. So those nine are not taking cross-sex hormones?

22 A. Not all of them. Some are still just paused. Some of them  
23 are on gender-affirming hormones.

24 Q. So when you say -- let me maybe phrase my question a bit  
25 differently. When I say puberty blockers, assume that I mean

1 GnRH analogs and not spiro -- testosterone blockers.

2 A. Yes.

3 Q. So for limiting this to patients who are -- who you've  
4 prescribed GnRH analogs, the answer is still 12 or so?

5 A. Yes.

6 Q. So of the nine who are -- the nine that we were talking  
7 about, are all nine of those patients still taking GnRH analogs?

8 A. Yes.

9 Q. And some of them are taking a GnRH analog in addition to a  
10 cross-sex hormone?

11 A. Correct.

12 Q. So would that be someone who is taking testosterone or  
13 someone who is taking estrogen?

14 A. Both.

15 Q. Both?

16 A. They are each individual patient.

17 THE COURT: Some of each.

18 THE WITNESS: Yeah, some of each, yes. They wouldn't  
19 be taking estrogen and testosterone at the same time in the same  
20 patient, yeah.

21 BY MR. JACOBS:

22 Q. Right. Yeah. Okay. So for patients who start on puberty  
23 blockers and eventually go to cross-sex hormones, is it typical  
24 to keep the GnRH analogs going for the whole treatment, or do  
25 those stop at some point?

1 A. That is an individual patient decision. For the patients  
2 who are very concerned about any further of their endogenous  
3 puberty progressing, we would continue the GnRH medications.  
4 For those patients who either might have less concern or their  
5 hormone levels for estrogen and testosterone are high enough  
6 that they would suppress your own puberty from the pituitary and  
7 the hypothalamus, we can stop those medications. And if we need  
8 to add spironolactone for the trans feminine patients, it's a  
9 very individualized decision. And we talk about it with  
10 everybody because also sometimes the medication becomes  
11 unavailable as far as the GnRH agonist, so either not  
12 affordable, or lately there's been manufacturer issues with  
13 them, and so we have to make a different decision for those  
14 patients.

15 Q. So how many patients would you say -- so how many male boys  
16 who have started on puberty blockers and have proceeded to  
17 cross-sex hormones would you say you've treated, whether they  
18 maintain the GnRH analogs or cease?

19 A. Of those nine, I couldn't tell you the division of which  
20 were assigned males or females. I haven't dug into that.

21 Q. But you think it's probably five or fewer-ish or no?

22 A. That are assigned male at birth?

23 Q. Sure.

24 A. I mean, making an assumption that they match my -- I mean,  
25 I don't think that I can actually say that. I was going to say

1 making an assumption that matches the rest of all of my  
2 patients, but I can't tell you for sure that that's true.

3 Q. Okay. So assuming you get a patient who is sort of early  
4 Tanner Stage II, you diagnosed this person, or the person is  
5 diagnosed, I guess, with gender dysphoria and you prescribe  
6 puberty suppression as the treatment for this person, is there a  
7 sort of go-to medication that you generally choose for that?

8 A. So GnRH analogs, there are three injectable formulations  
9 and one implantable formulation available in the U.S. In  
10 general, the type of that medication is decided, honestly, by  
11 the insurance company.

12 Q. So there's no real, I guess, medical reason why you might  
13 pick one over the other. It's just sort of a convenience or  
14 price issue most of the time?

15 A. Well, I have a lot of patients who have needle phobia, so  
16 the injectables are not at all ideal. And I talk with their  
17 insurance companies about using the implant for those patients,  
18 so that would be the medical reason to choose one over the other  
19 that I can think of.

20 Q. Does the patient's sex have any impact on which GnRH analog  
21 that you would prescribe them?

22 A. I don't use their assigned sex at birth as any directive.

23 Q. So that's not relevant to your decision of which GnRH  
24 analog to prescribe?

25 A. Correct.

1 Q. Is it relevant for the dose you would prescribe?

2 A. The dose is either weight based or age based, so it  
3 wouldn't be directed by -- for gender dysphoria or for early  
4 puberty.

5 Q. So for precocious puberty, I think you testified that  
6 sometimes that can occur very early in childhood, as early as --  
7 I think at one point you said as early as two years old. Is  
8 that right?

9 A. Yes.

10 Q. So what age would you typically -- so I'll back up. So  
11 assume that you have a patient who you've been treating for  
12 precocious puberty with a GnRH agonist. At what age or what  
13 stage of development are you typically going to cease that  
14 medication?

15 A. Sorry. My allergies are really bad. So their stage of  
16 development should stay where it is, so it's not going to  
17 progress. And we're not going to make the decision to stop  
18 medication based on their pubertal development. The primary  
19 things that we look at are their bone age. So your hand has  
20 growth plates in all of your fingers and your wrists. And the  
21 different bones in your wrist actually calcify at a different  
22 age. So there's a bone age for every six to 12 months depending  
23 on how old you are, and it just is a way for us to see how much  
24 growth you have left.

25 So in precocious puberty patients, we are -- usually those

1 bones are older than the patient because of the exposure to the  
2 puberty hormones. So we're trying to pause any more effect of  
3 those puberty hormones on those growth plates because,  
4 otherwise, they would stop growing at an early age. And the  
5 goal is to have them continue to grow for a more appropriate  
6 time frame and reach an adult height that is appropriate for  
7 their sex assigned at birth. And so I tend to use bone age as  
8 well as depending on the patient, especially in the assigned  
9 females at birth if they are developmentally ready to handle  
10 menstrual cycles. So for a lot of patients who have central  
11 precocious puberty, it's because they have had some either brain  
12 malformation or brain injury, like cancer treatment or something  
13 along those lines, or a condition that has altered their brain.  
14 So they may also have cognitive issues, and they may also have  
15 physical issues like cerebral palsy. So we do a lot of  
16 individualization with the family and the patients with those  
17 kind of targets.

18 Q. Is there an age you would say it's typical where you would  
19 start having conversations with a patient and their family about  
20 ceasing puberty suppression or some age you have in mind where  
21 that ought to start occurring?

22 A. You know, we try to have it happen at a time that's typical  
23 for their peers. However, it really depends on how far advanced  
24 their bone age is when they first start treatment. If it's only  
25 advanced a little bit, then we can shorten the duration.

1 However, there are kids that come to us who have had this  
2 puberty going on and unrecognized for longer, and their bone  
3 ages are much further advanced. We would -- that would change  
4 the course of treatment.

5 THE COURT: Is this going to get me to our questioning  
6 that we have to decide pretty soon, because while it's all  
7 interesting, I'm not sure what it has to do with gender  
8 dysphoria issues.

9 MR. JACOBS: I hope it will.

10 THE COURT: I do too.

11 BY MR. JACOBS:

12 Q. So I guess what I'm sort of wondering, it may be hard to  
13 put an age on it for any given patient. But would it be typical  
14 to keep someone on puberty suppression for precocious puberty  
15 past 11 or 12, or is that something that frequently happens?

16 A. Well, it also depends on the sex assigned at birth. Most  
17 patients with central precocious puberty are female, about  
18 90 percent. However, so their puberty is going to be at a  
19 different time frame than those assigned male at birth. So  
20 someone who is assigned male at birth, if their puberty started  
21 at seven or eight, and their peers aren't going through puberty  
22 until 12 to start with, on average, you know, that's a different  
23 target and a different time. But most of it really is about  
24 targeting an appropriate height and trying to keep the patients  
25 within a relatively normal time frame.

1 Q. So I think my initial question was, you know, would it be  
2 typical for someone to come off of these medications by 11 or  
3 12? I think you said there might be differences between boys  
4 and girls. To ask it individually, would it be typical for a  
5 girl to come off puberty suppression by 11 or 12 or no?

6 A. No. Every patient is different. I've taken some off at  
7 nine. I've taken some off at 11, some at 12. It varies a lot.

8 Q. What about 13, 14? Is that typical or more rare?

9 A. So that, for kids with precocious puberty, would be for  
10 girls assigned female at birth, would not be likely because they  
11 would miss their growth spurt. So they do need to have that  
12 puberty happen at some point to allow them to get their growth  
13 spurt.

14 Q. So just to be clear, was the answer to my question that it  
15 would be atypical for a girl to be on pubertal suppression still  
16 at 13, 14, in your experience?

17 A. For central precocious puberty, yes.

18 Q. What about boys? Would it still be atypical by 13 or 14?

19 A. And because boys' averages shifted about three years later,  
20 they may not even be diagnosed until 11 or 12, so those patients  
21 may end up going past that by some.

22 Q. Okay. So you are familiar with the WPATH Standard of Care  
23 7 document that we've been discussing -- I guess maybe you  
24 weren't here for that discussion. But you are familiar with  
25 WPATH Standard of Care 7?

1 A. Yes.

2 Q. So what was the age on WPATH 7 for adolescents to start  
3 cross-sex hormones?

4 A. So for that recommendation, which has now been replaced by  
5 SOC 8, the recommendation was -- for gender-affirming hormones  
6 was the question? 16 and -- between the ages of 14 and 16 based  
7 on the individual patient.

8 Q. Have you ever prescribed hormonal treatment for gender  
9 dysphoria for an adolescent below the age of 16?

10 A. For patients who needed it, yes. That is at the discretion  
11 of the guidelines.

12 Q. Out of however many hundred adolescents that you prescribed  
13 cross-sex hormone, ballpark percent of how many were 16 or above  
14 or how many below 16?

15 A. The best I can do is most of my patients present to my  
16 clinic at 15 or 16, so it's not going to be a large percentage,  
17 but for those in that 14 to 16 window.

18 Q. What about of the patients who come to you who are on the  
19 younger end, 12, 13? The percentage is closer?

20 A. I'm sorry. I didn't understand the question.

21 Q. I think what you just told me was that most of the patients  
22 you get in are 15 or 16 already?

23 A. Yes.

24 Q. So I think necessarily most of them are going to be 16 and  
25 above anyway was what you were testifying?

1 A. Yes.

2 Q. But you do have patients come in who are on the younger end  
3 of the spectrum, say, 12, 13. Right?

4 A. Yes.

5 Q. So for those patients for whom, you know, hormonal  
6 treatment prior to 16 is more of a possibility, do you have an  
7 estimate of what percentage of them start hormones prior to 16?

8 A. You know, I haven't parsed that out. My general approach  
9 to those patients is, you know, really walking through,  
10 informing the patients and their parents that, you know, the  
11 data isn't as robust for kids 14 to 16 as it is for those who  
12 are 16 and up. And I talk about the guideline recommendations,  
13 that if that's important for someone 14 to 16, that it is  
14 something that can be pursued. We walk through with that  
15 patient and that parent or set of parents and weigh whether  
16 that's something that we want to do right now or if that's  
17 something we want to wait for. Is it safe for that patient to  
18 wait until they are 16? And every patient is a different  
19 calculation. I couldn't tell you honestly, other than to say  
20 that that's not a large portion of my patients.

21 Q. Setting aside treatments for gender dysphoria, is there a  
22 medical indication for natal boys to take estrogen?

23 A. Natal boys to take estrogen? So there have been some  
24 people who have given natal boys estrogen to slow down their  
25 growth for tall stature. That's the only thing I can think of.

1 Q. Aside from treatments for gender dysphoria, have you ever  
2 personally prescribed estrogen to a natal boy?

3 A. No.

4 Q. Same question for progesterone.

5 A. I'm sorry.

6 Q. Same question. Are there any medical indications to  
7 prescribe progesterone to a natal boy?

8 A. Oh, well, progesterone can be used to treat early puberty  
9 in assigned males at birth in patients who are either not  
10 responding to GnRH agonist or if there's some other issue.

11 Q. Have you ever prescribed progesterone to a boy for that  
12 purpose in lieu of a GnRH agonist -- I'm sorry -- excuse me.  
13 GnRH analog?

14 A. I have not, but my partners have.

15 Q. So similar question, is there ever a medical indication to  
16 prescribe testosterone to a natal female, an adolescent female,  
17 I should say?

18 A. So, you know, when you have hypopituitarism, the pituitary  
19 controls a lot of different things, including the adrenal  
20 glands. The adrenal glands also make male hormones. And so for  
21 some patients with hypopituitarism who are unable to make their  
22 own androgens, we would potentially prescribe for that. And for  
23 Turner syndrome patients, not testosterone, but a different  
24 androgen we sometimes provide for them as a growth accelerant  
25 without advancing their bone age.

1 Q. So a different androgen, but not testosterone.

2 A. Correct. The androgen has all the other effects that  
3 testosterone has with the exception of you can't convert it to  
4 estrogen, so you can't advance the growth plates.

5 Q. So would it be DHT, or what would the other androgen be?

6 A. Oxandrolone.

7 Q. Oxandrolone. Okay. So going back a step to the adrenal  
8 issue mentioned, so in that case, is it fair to say you would be  
9 prescribing testosterone to the female for a testosterone  
10 deficiency in trying to address that?

11 A. Yes.

12 Q. And prescribing oxandrolone wouldn't be to address a  
13 hormonal deficiency. Right?

14 A. Not for -- I mean, you could technically use it in the same  
15 situation for hypopituitarism. But what I've used it for with  
16 Turner syndrome is not for a deficiency.

17 Q. So if you are prescribing testosterone in a female for a  
18 deficiency as a result of some kind of adrenal issue, would  
19 you -- you would be prescribing a much lower dose than you might  
20 prescribe for gender dysphoria treatment. Correct?

21 A. Yeah. The goal for each of those is always to target where  
22 the normal physiologic level is for that particular gender  
23 identity. So female testosterone levels are lower than male  
24 testosterone levels.

25 Q. So the answer would be, yes, it would be a much lower dose

1 to treat the adrenal issue?

2 A. Yes.

3 Q. Have you ever prescribed testosterone to treat an adrenal  
4 issue in an adolescent female?

5 A. Once.

6 Q. And that's out of several thousand adolescent patients that  
7 you've treated?

8 A. Correct.

9 Q. So is it fair to say that, setting aside treatments for  
10 gender dysphoria, that it would be very rare for a medical  
11 provider to prescribe cross-sex hormones to adolescents?

12 A. Yeah. It's not very often that that happens.

13 Q. And for you it's been maybe two or three at most out of the  
14 thousands of patients that you've seen over the years?

15 A. Maybe at the most five, yes.

16 Q. I want to switch gears a little bit. So we've been talking  
17 about gender dysphoria treatments. I'll ask you a little bit  
18 more general questions about that. In your opinion, what is  
19 gender?

20 A. So gender is really the social construct that a person has  
21 about what their -- about, you know, usually typically related  
22 to their sex assigned at birth. And it's related to how their  
23 family, friends, etc., are, you know, socializing them, you  
24 know, whatever that particular culture does for assigned females  
25 at birth, whether that be clothes or hair or whatever. That

1 gender is that social construct typically related to your  
2 assigned sex at birth.

3 Q. So the term "gender" and the term "gender identity," do you  
4 see those two things as being the same concept or different?

5 A. I see them as different.

6 Q. Can you explain what the difference is?

7 A. So someone's core understanding of their gender is their  
8 gender identity. So, you know, gender can be relative to social  
9 and all of that with regard to, you know, how the community  
10 reacts around you. But your gender identity is something that's  
11 a core part of who you are.

12 Q. Is it accurate to say that someone can have an  
13 understanding of their gender identity?

14 A. Yes.

15 Q. You've used that -- I think you've used that phrase before  
16 in this case. Someone's understanding of their gender identity,  
17 is that a different idea from what their gender identity is?

18 A. So for most people their gender identity is something that  
19 is something they know right away, and they don't necessarily  
20 develop an understanding of that gender identity as they get  
21 older. You know, everyone has to kind of figure that out, what  
22 your gender identity is. A lot of that childhood development is  
23 in young kids, you know, two, three, four years old. And then  
24 some of that development and understanding of your gender  
25 identity happens as you progress and get older and go through

1 puberty.

2 Q. Is there a point in a person's life where you would expect  
3 their understanding of their gender identity to be complete, I  
4 guess for lack of a better word?

5 A. You know, for most people their, you know, consolidation of  
6 gender identity happens during puberty, but that's not to say  
7 that there aren't changes that can happen as they get older.

8 Q. Can changes in someone's understanding of their gender  
9 identity occur even into adulthood?

10 A. Yes.

11 Q. I think you've testified previously that your opinion is  
12 that someone's gender identity is fixed, meaning not subject to  
13 voluntary change or outside change. Is that an accurate  
14 statement of your opinion?

15 A. Yes.

16 Q. What about spontaneous change, involuntary changes to  
17 gender identity? Do you think that's possible?

18 A. I would need further clarification if you don't mind.

19 Q. Well, you've said that someone can't voluntarily change  
20 their own gender identity. Right? Do you agree with that?

21 A. Yes.

22 Q. And outside influences, your opinion is that that can't  
23 change a person's gender identity. Correct?

24 A. Yes.

25 Q. So there's sort of room in there for involuntary changes

1 that originate, say, within an individual. What about that? Is  
2 that something you think can happen? Can a change in gender  
3 identity do that?

4 A. So that can happen. In my clinical experience, I don't see  
5 that happen very often. In the medical literature there aren't  
6 a lot of reports of that happening very frequently after  
7 puberty.

8 Q. So typically when you have a child who identifies as, say,  
9 gender A early in their life and later at some point identifies  
10 as gender B, would you say that their gender identity is  
11 typically changed, or would you say that their understanding of  
12 their gender identity has changed?

13 A. Well, both can happen.

14 Q. I think you just said changes in gender identity were  
15 pretty rare. Right?

16 A. I did say it was rare, but I didn't say never.

17 Q. Would you say it's more typical for, say, a child who  
18 identifies with one gender but later identifies with a different  
19 gender to have reached a different understanding of their gender  
20 identity, or is it more common for their actual gender identity  
21 to have changed?

22 A. Well, I would say that, you know, there are variations  
23 here, there, you know, a lot to think about. So when you talk  
24 about gender identity, there are gender identities that are more  
25 than just male or female. There's, you know, nonbinary, for

1 example. For my patients, some identify as a transgender male  
2 at one point and then later identify as nonbinary. And that is  
3 also not common, but it does happen. Some of it may be their  
4 understanding of their gender identity and finding those words  
5 to describe what's going on with their identity, and some of it  
6 could be that that identity is different.

7 Q. But you don't know which one is which in any given patient?

8 A. The most important part of really taking care of these  
9 patients is that we are, you know, affirming their identity.  
10 We're providing the care that they need at that moment that's  
11 going to keep them safe and healthy, and we can change with each  
12 patient with their conversations. Every patient I see, every  
13 time I talk with them, whether it's gender dysphoria or  
14 hypothyroidism, we may change the treatment based on what's  
15 going on in front of us right then and there.

16 Q. So typically in your practice you get information about a  
17 person's gender identity directly from the patient. Right?

18 A. Well, we get information about their gender identity from  
19 the patient, their caregivers, including their parents, as well  
20 as from their mental health providers.

21 Q. Would you say that a person's or a patient's own statements  
22 about their gender identity is the most probative evidence of  
23 what their gender identity is?

24 A. I weigh a person's own statements fairly heavily, and I  
25 also take into account all of the perspectives, because when you

1 are working with children, you have to include everyone in the  
2 conversation to really get the full picture. It's part of  
3 pediatrics in general.

4 Q. I think you said you would weigh a patient's own statements  
5 more heavily than other sources of information. Right?

6 MR. STRANGIO: Objection. Mischaracterization of the  
7 testimony.

8 BY MR. JACOBS:

9 Q. Tell me if that's right or not.

10 A. I take it into consideration, and I find it very important.  
11 I also include everyone else's in that calculus. I don't  
12 necessarily think I can give you a which weighs heavier or the  
13 other.

14 THE COURT: It's also about the second time you've  
15 asked that question in about ten seconds, so let's move it  
16 along, please.

17 BY MR. JACOBS:

18 Q. So when a patient is self-reporting information about their  
19 gender identity, would you agree that what they are really  
20 communicating to you or other clinicians is their own  
21 understanding of their gender identity?

22 A. Their understanding of their gender identity at that  
23 moment, yes.

24 Q. And you would agree that that understanding can change over  
25 time?

1 A. Yes.

2 Q. You would also agree there's no set point in a person's  
3 life when they ought to completely know their gender identity?

4 A. You know, my clinical practice, most folks by puberty; and  
5 in our medical literature, by puberty, and yet it still happens  
6 in adulthood.

7 Q. And you can't know for any given patient whether their  
8 understanding of their gender identity at a given point in time  
9 is going to remain that for the rest of their life or change.  
10 Right?

11 A. We're not seeing a lot of individuals change, and I can't  
12 say that it won't change.

13 Q. So I think the answer to my question was, yes, you can't  
14 say that it won't change?

15 A. Correct.

16 Q. So are you familiar with the phenomenon of some people  
17 undergoing medical interventions for gender dysphoria treatment  
18 and quote/unquote detransitioning? If I say the word  
19 detransitioning, does that have a meaning to you?

20 A. Yes.

21 Q. So I guess I'll first ask, have you ever personally treated  
22 any patients who have underwent medical interventions and later  
23 detransitioned?

24 A. So I mentioned one already when we were talking about the  
25 puberty blockers. That patient went off puberty blockers and

1 went back to their assigned sex at birth for their identity and  
2 live their experience. And I have other patients who have  
3 decided to stop taking gender-affirming hormones and live in the  
4 identity of their sex assignment at birth. And there are  
5 various reasons that that might happen, one of which might be  
6 that their gender identity is different at that time. Others  
7 might be that it's not safe for them to live in that particular  
8 gender identity and continue to use gender-affirming hormones.  
9 Another might be they can't afford their medications.

10 Q. So I think you said the first one, that the reason they  
11 might have stopped the medical intervention could be that their  
12 gender identity was different at that time. Did I understand  
13 that right?

14 A. Yes.

15 Q. So you would agree that that patient or patient's gender  
16 identity changed during the course of treatment?

17 A. I've only had a very few of those. And, yes, their  
18 identity changed during their gender-affirming treatment for  
19 some of them, but not all of them.

20 Q. So for those patients, that's not something that you  
21 predicted on the front end of treatment would happen. Right?

22 A. You know, our goal is to really get all of the details and  
23 understand every person and their gender identity in their  
24 gender journey. And we would prefer that, you know, the  
25 treatment continues along that path. But everybody's journey is

1 different. Sometimes that's going to mean that they change the  
2 way they either identify or express. Our goal is to do  
3 everything we possibly can to make the individual safe and  
4 healthy.

5 Q. So going back a minute to the Endocrine Society Guidelines  
6 and the WPATH Standards of Care, you testified previously that  
7 you follow those in your own practice. Right?

8 A. Yes.

9 Q. So can you testify that all of the providers of -- the  
10 providers in Arkansas who treat adolescents with gender  
11 dysphoria follow those guidelines and standards of care?

12 A. Those were the standards of care that we reviewed when I  
13 taught the class there in 2018. I don't know that they are  
14 necessarily what they are using currently. They could have been  
15 using the SOC 7. They may be using the SOC 8. They may be, as  
16 I mentioned, using current changes in the literature to kind of  
17 help them provide the best care.

18 I do talk with people around the country regularly about  
19 what they are doing in their practice. Our Pediatric Endocrine  
20 Society meets. We have LISTSERVs that we're all on, and we ask  
21 questions and talk with each other about what our general  
22 practices are. And we also have multisite databases where we  
23 try to standardize care within the area of pediatric endocrine  
24 care for gender dysphoria.

25 Q. So specific to Arkansas, though, I think your answer was

1 that, no, you don't know if any of these, the current  
2 practitioners, are following the WPATH Standards of Care or  
3 Endocrine Society Guidelines in their practices.

4 A. I haven't heard anyone at any of our meetings say that they  
5 were not following them. I can't tell you about -- I haven't  
6 had a conversation with them.

7 Q. So I think you testified about your clinic's informed  
8 consent process earlier as various verbal/written components.  
9 Would you describe your informed consent process as pretty  
10 robust?

11 A. Yes.

12 Q. And you said that that was consistent with the Endocrine  
13 Society Guidelines and WPATH Standard of Care. Right?

14 A. Yes.

15 Q. But those guidelines don't necessarily require an informed  
16 consent process that is as robust as the one your clinic uses,  
17 do they?

18 A. So the current SOC guidelines actually specifically address  
19 a lot of the strategies that we use for our consenting process,  
20 so I don't think that the SOC 8 is inconsistent with the  
21 practice that we have with regard to consent.

22 Q. Do you think that SOC 8 requires providers to use as robust  
23 of an informed consent process as your clinic uses?

24 A. I would have to look at the guidelines to see if they use  
25 the word "required." I have read them. They strongly recommend

1 that all of these things be taken into context, as I remember  
2 it. But I don't recall if the word "required" was actually in  
3 the SOC 8.

4 Q. I think you've testified previously maybe in your  
5 deposition that when your clinic does informed consents you  
6 require either the patient or their parent or guardian to kind  
7 of initial line by line on most of the disclosures about  
8 unintended effects or side effects. Is that kind of an accurate  
9 description of the mechanics of that?

10 A. That's part of it, yes.

11 Q. And the guidelines don't require that anybody do that.  
12 Right?

13 A. The guidelines want you to and strongly recommend that you  
14 make sure in whatever way is needed that the patient understands  
15 the effects and side effects. One way is the way that we do it  
16 with the written consent process. One way is verbal. One way  
17 is with pictures. The guidelines want you to be very careful  
18 that you know that the patient understands in whatever method  
19 you use to consent the patient.

20 Q. I think, when you were talking about the side effects of  
21 some of these treatments, you mentioned development of bone  
22 mineral density. Do you remember that portion of your  
23 testimony?

24 A. I remember talking about bone mineral density.

25 Q. So I think you were talking about what happens to bone

1 mineral density based on the use of puberty suppression and  
2 maybe later when puberty is initiated. Does that sound  
3 familiar?

4 A. Yes.

5 Q. So you said that this development just sort of picks up as  
6 normal after withdrawing puberty suppression. Is that your  
7 opinion?

8 A. That's been my clinical experience.

9 Q. But you've had --

10 A. With the exception of a few patients who had low bone  
11 mineral density to begin with.

12 Q. So I think you've testified earlier, though, that you had  
13 maybe one or two patients who -- scratch that. I think you  
14 testified earlier that you've only had one patient who was  
15 prescribed puberty blockers and then came off and initiated  
16 their sort of normal hormonal puberty. Right?

17 A. Yes. But the puberty that we induced with the  
18 gender-affirming hormones does increase that bone mineral  
19 accrual just like it does for the patients whose own puberty is  
20 happening.

21 Q. I think you testified earlier that it was a very small  
22 number of patients that you've had who have actually started on  
23 puberty blockers and moved to cross-sex hormones. Is that  
24 right?

25 A. Yes. You know, we've also -- there's literature that is

1 available, and we talk about it amongst ourselves. And there  
2 are people who have presented at our meetings, so I'm not only  
3 relying on my patients' histories.

4 Q. But in terms of your clinical experience, you would agree  
5 with me that five or so is a very small number to make  
6 population-level decisions on?

7 A. That's why we are talking with one another and learning.  
8 And they have been using these medications and protocols for,  
9 you know, 30 years. So we have information that's not just my  
10 five patients to look at that's been going on for quite some  
11 time.

12 Q. So you were discussing the potential side effects of  
13 treating adolescents with testosterone earlier. So I have in my  
14 notes that you mentioned the side effects, the possible side  
15 effects, being male pattern baldness, acne, increased  
16 cholesterol, hemoglobin, hematocrit, fertility impacts. I think  
17 you said those side effects were comparable to treating other  
18 conditions. What I'm wondering is, if you are treating a natal  
19 boy for delayed puberty with testosterone, would you expect male  
20 pattern baldness as a side effect?

21 A. The duration of that treatment for delayed puberty is  
22 typically only six months, so it wouldn't be long enough for  
23 male pattern baldness to occur. But if you are treating  
24 something like hypogonadal -- hypogonadism, in other words, the  
25 brain is not working to tell your body to make your own puberty,

1 then you would definitely potentially see male pattern baldness  
2 if that happens to run in that patient's family.

3 Q. Would you see male pattern baldness arise during their  
4 adolescent years or later in adulthood if they continued  
5 treatment?

6 A. For all of the patients that I use that for, the male  
7 pattern baldness is later on and not in their adolescence.

8 Q. What about increased levels of hematocrit? Is that  
9 something that you typically see in boys being treated with  
10 testosterone for delayed puberty?

11 A. Yes. That's a normal effect of testosterone is to raise  
12 your hematocrit.

13 Q. I think you talked about treating with estrogen and the  
14 risk of blood clots and stroke. Is that a risk that you are  
15 worried about with your adolescent patients on estrogen?

16 A. It is something that we counsel them about. We don't see  
17 it in adolescent patients. It tends to be something that, if it  
18 does occur, it occurs later in life and in patients who are  
19 using excess amounts, unmonitored amounts, of estrogen. And we  
20 want to be very clear with our patients what they need to do to  
21 be safe using these medications, as safe as possible.

22 Q. So you would agree that the blood clot and stroke risk from  
23 using estrogen is higher later in a person's life than it is in  
24 adolescence?

25 A. In the case where you are using the medication

1 appropriately, as part of normal aging, your risk of clots  
2 increase for all sex assigned at birth and for people who are on  
3 estrogen, both cisgender and transgender patients who are on  
4 estrogen. That does increase with age. It's part of the aging  
5 process. It usually has to do with kind of the other things in  
6 life that are contributing, more likely to be smoking, more  
7 likely to be overweight, more likely to have high blood  
8 pressure, more likely overweight, yes.

9 Q. Are you aware of statistics, what percent of the adult  
10 population in the United States are overweight?

11 A. Wow. I know that in some states, especially in the South,  
12 for children and adolescents, it's around 30 percent, 25 to  
13 30 percent, depending on the state. I can't remember the number  
14 for adults, but I do know that it's higher than that.

15 Q. Do you recall that it's higher in Arkansas than a lot of  
16 other places?

17 A. I wouldn't be surprised given that it is a southern state,  
18 but I don't recall the number in Arkansas.

19 Q. So you testified that being overweight increases the risks  
20 of developing blood clots and strokes for someone who is on  
21 estrogen?

22 A. Yes. And we do everything we can to mitigate those factors  
23 in our patients. We have physical therapy that we refer them  
24 to. We encourage them to increase their activity. We encourage  
25 them not to smoke. We have nutrition counseling. So our

1 patients are actually likely getting an earlier preventive  
2 intervention because they are in our clinic and being seen by a  
3 healthcare provider than those patients who are not coming into  
4 clinic very often, because most adolescents rarely come to the  
5 doctor in my clinical experience.

6 Q. So there was discussion about treatments impairing sexual  
7 function. I think your testimony was that puberty blockers --  
8 excuse me. So if you have a natal boy who is starting on  
9 puberty blockers around Tanner II, you would expect a pause in  
10 the development of any sexual function, right, any further  
11 development, I should say?

12 A. Yes.

13 Q. Would that include like inability to orgasm, for instance?

14 A. It depends on if they were orgasming before. In Tanner II  
15 you are not going to have an orgasm most likely. Those tend to  
16 show up in Tanner III or later.

17 Q. So for natal males who start puberty blockers around Tanner  
18 II and then proceed to hormone treatment, say, with estrogen and  
19 androgen blockers, those patients wouldn't be able to orgasm  
20 even then. Right? They would never develop that capacity?

21 A. So if they are at Tanner II and they go on those hormones,  
22 they are -- during that period, they may not. There are  
23 treatments that are available to add back testosterone, for  
24 example, so that there is more development of their sexual parts  
25 and allow them to orgasm. And we talk about those things with

1 our patients.

2 Q. So, to go back, I think you said that maybe you could add  
3 in more medication to address that issue. What was your  
4 response to that?

5 A. Yes. That is one option is to add testosterone back later  
6 to change that if the patient desires that later in life.

7 Q. Other than adding testosterone, is there any other  
8 treatment that would allow that sexual function to develop?

9 A. You know, every patient is different. You know, we talk  
10 about it with our patients. They could go off of their blocker  
11 if they have been on estrogen for a while. That might not help,  
12 but it might if they haven't been on estrogen. And, you know,  
13 again, this group of patients doesn't always want to orgasm. A  
14 lot of them don't even want to have erections because they don't  
15 want to look at their genitals or have much to do with it. So  
16 it's not every patient -- not every patient wants to orgasm.

17 Q. Do you think, say, a natal boy who is Tanner II, has never  
18 had an orgasm, can make an informed decision about whether they  
19 want to have one in the future?

20 A. So, you know, Tanner II is the sexual development. It's  
21 not where necessarily your cognitive development is at that  
22 time, right? If we're pausing puberty, they may be older than  
23 the average age of 12 or puberty. The goal is to give them time  
24 to develop that cognitive and executive function to be able to  
25 make that decision, and it's also something that we talk about

1 with the parents who have those experiences. And they can talk  
2 with their kids about that, and they can talk with their  
3 therapist about that. Their mental health providers also help  
4 walk through all of these decisions, you know, yeah.

5 Q. So was your answer to that, yes, you think someone at  
6 Tanner II can make an important decision about that?

7 A. I mean, I have patients who were Tanner II, and they are  
8 24, because they have been on puberty blockers. I think they  
9 are making their own decisions just fine.

10 Q. I hesitate to ask because I don't know if it's relevant.  
11 But why would you have someone on puberty blockers at 24?

12 A. As I mentioned in my prior testimony, there are patients  
13 who are very bothered by any possible ongoing development of  
14 their genitalia, and they do not want to have any of that  
15 change. And they still have their testicles. They haven't gone  
16 on to have any gender surgical procedures to remove those. So  
17 if you want to control those hormones and not have those effects  
18 on your body, then the best way -- you know, the best way is  
19 GnRH agonist. So you can swap them out for spironolactone, and  
20 sometimes that works. And some patients choose not to take the  
21 chance that coming off of GnRH their own body may start puberty  
22 again. Also, sometimes spironolactone isn't strong enough.

23 MR. JACOBS: I think we're nearly done. Could I have  
24 a moment, Your Honor?

25 THE COURT: Yes.

1 MR. JACOBS: I think I'll pass the witness, Your  
2 Honor.

3 THE COURT: Any redirect?

4 MR. STRANGIO: Just one question.

5 REDIRECT EXAMINATION

6 BY MR. STRANGIO:

7 Q. Just to clarify something that we were talking about just  
8 now, so can a patient be on both puberty blockers and  
9 gender-affirming hormones?

10 A. Yes.

11 Q. And so for a patient who, say, is continuing on the GnRH  
12 agonist until 24, are they receiving other medications as well?

13 A. They are on gender-affirming hormones, absolutely. They  
14 would never be on those by themselves at that age.

15 Q. Thank you. No further questions.

16 THE COURT: Any follow-up question, Mr. Jacobs, on  
17 that particular question?

18 RECROSS-EXAMINATION

19 BY MR. JACOBS:

20 Q. I guess it would just be -- so when we're talking about the  
21 patients who are on both GnRH analogs and --

22 THE COURT: No. We're talking about this 24-year-old  
23 patient that you discussed. That's all we're talking about.

24 MR. JACOBS: Okay. I don't have any questions about  
25 that.

1 THE COURT: Can we excuse this witness?

2 MR. STRANGIO: Yes, we can. Thank you.

3 THE COURT: All right. So what I need for the parties  
4 to do is, Mr. Jacobs, I need for you to confirm that you can get  
5 your people in this week. If you can't and we're going to have  
6 to come back anyway, there's no point in us killing ourselves  
7 until eight o'clock every night. So if you could check on that,  
8 tomorrow I'll make a decision whether or not we will work until  
9 six every night instead of eight o'clock every night. But if  
10 we're not going to finish this week and we're coming back  
11 anyway, there's no point in going to eight every night.

12 MR. JACOBS: So I can say at this point, Your Honor,  
13 we have confirmed with more than one witness that they are not  
14 available next week. We haven't confirmed that with all.

15 THE COURT: It doesn't matter. As long as we're going  
16 to have to come back, we're not going to work from eight until  
17 eight because there's no point.

18 MR. JACOBS: Based on the conversations we've had with  
19 witnesses thus far, we don't see a way that all of the  
20 witnesses' testimony on our end can happen this week.

21 THE COURT: That's fair too. I'm not being critical  
22 of that. I'm just saying, if we're going to come back, there's  
23 no point in us going until eight o'clock and us having the  
24 mental lapses and having the breakdowns in concentration that is  
25 not beneficial to this case from either side. Everyone is

1 tired.

2 MR. JACOBS: I would agree with that, Your Honor. And  
3 I think our position would be that there's not at this point a  
4 need to go late in the evening. We don't think there's a  
5 prospect of the entire case finishing by the end of the week  
6 based on witness availability.

7 THE COURT: And I think that's a different way of  
8 answering the question. I was going to say if they couldn't fly  
9 in then they weren't going to make it. But even if you could  
10 get everybody in, we couldn't finish this week.

11 MR. JACOBS: I think, based on the limited  
12 conversations we've had so far, that's true even without  
13 contacting the other two-thirds.

14 THE COURT: You can confirm that now, you mean. You  
15 don't even need for me to wait until tomorrow to confirm that.

16 MR. JACOBS: I don't think there's a reason for us to  
17 contact the other six or seven of our ten scheduled witnesses at  
18 this point.

19 THE COURT: All right.

20 MR. STRANGIO: The one other thing, Your Honor, I  
21 would like to point out, even finishing the two witnesses today,  
22 I do think there's a chance, even going regular business hours,  
23 that there will be time on Friday for them to at least begin to  
24 put on their case. So, if there's any witnesses that can be  
25 available that we can take the full week this week, I would ask

1 you -- I think it would help the development of the case, and  
2 maybe we all don't have to come back for a full week the next  
3 time.

4 THE COURT: Well, we're not going to do the eight to  
5 eight. We're going to see how far we get tomorrow. It is what  
6 it is. So tomorrow morning we're going to start at 8:30. We're  
7 going to go to six. We're going to see what we do, and we'll  
8 reevaluate, but we're not going to do the eight to eight. That  
9 will relieve pressure on my infrastructure.

10 MR. STRANGIO: I understand that. I was saying, even  
11 going nine to six, I do think there's a chance we will finish  
12 our presentation of our case by early Friday, so I just wanted  
13 to -- or even Thursday. I was just wondering if there could be  
14 any witnesses available. That was my only clarification.

15 THE COURT: I know they have some witnesses that are  
16 local. You need to work on the stipulations, too, because  
17 either people are going to need to be stipulated that their  
18 testimony was a certain way at the legislature, or they need to  
19 be here to say it did or didn't. I mean, it's up to them. I  
20 don't care if you stipulate to those particular bullet points in  
21 the stipulations and there's a witness here to either admit or  
22 deny. But they will be subject to testimony if you are not  
23 willing to stipulate to their testimony otherwise.

24 MR. JACOBS: So we're going to review the  
25 stipulations. On the point about the end of the week, since

1 we're going to be reconvening trial at some later point, whether  
2 that's sometime in December, as the Court indicated, does the  
3 Court have a preference between, if there's space for our  
4 witnesses to start on Friday, for that to go ahead and happen?  
5 Would you rather all of the witnesses go at one point? I don't  
6 think we have a particular preference subject to witness  
7 availability.

8 THE COURT: I can answer that question better when I  
9 know when the plaintiffs are done. If we're talking about them  
10 finishing Wednesday night or early Thursday morning, then I  
11 would have a preference to continue using some of that time to  
12 take some of your witnesses. If they finish Friday at lunch,  
13 no. I can't answer your question until I know a lot closer.

14 MR. JACOBS: I think, as a general matter, other than  
15 Hutchison and Stambough, who plaintiffs are planning to call in  
16 their case in chief, all of our other witnesses are traveling  
17 from I think out of the central Arkansas area. I think our plan  
18 is to call them again in our case in chief. I think we could  
19 potentially do that on Thursday or Friday, and that would be the  
20 cleanest way to do it. I think anyone else is going to require  
21 scheduling travel. If we don't know until Wednesday or  
22 Thursday --

23 THE COURT: No. I understand what you are saying.

24 MR. JACOBS: I just wanted to be transparent about  
25 that.

1 THE COURT: Thank you. Is there anything I need to  
2 resolve?

3 MR. STRANGIO: I don't think anything else at this  
4 time. I appreciate it.

5 (Overnight recess at 7:50 p.m.)

6 REPORTER'S CERTIFICATE

7 I certify that the foregoing is a correct transcript from  
8 the record of proceedings in the above-entitled matter.

9 /s/Elaine Hinson, RMR, CRR, CCR Date: October 24, 2022.  
United States Court Reporter

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