

REPORTER'S RECORD
VOLUME 3 OF 4 VOLUMES
TRIAL COURT CAUSE NO. D-1-GN-23-003616
SUPREME COURT CASE NO. 23-0697

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LAZARO LOE, individually and) IN THE DISTRICT COURT
as parent and next friend of)
LUNA LOE, a minor; MARY MOE)
and MATTHEW, individually)
and as parent and next)
friends of MAEVE MOE, a)
minor; NORA NOE,)
individually and as parent)
and next friend of NATHAN)
NOE, a minor; SARAH SOE and)
STEVEN SOE, individually and)
as next friends of SAMANTHA)
SOE, a minor; GINA GOE,)
individually and as parent)
and next friend of GRAYSON)
GOE, a minor; PFLAG, INC.;)
RICHARD OGDEN ROBERTS III,)
M.D., on behalf of himself)
and his patients; DAVID L.)
PAUL, M.D., on behalf of) TRAVIS COUNTY, TEXAS
himself and his patients;)
PATRICK W. O'MALLEY, M.D.,)
on behalf of himself and his)
patients; and AMERICAN)
ASSOCIATION OF PHYSICIANS)
FOR HUMAN RIGHTS, INC. d/b/a)
GLMA; HEALTH PROFESSIONALS)
ADVANCING LGBTQ+ EQUALITY,)
))
v.)
))
THE STATE OF TEXAS; OFFICE)
OF THE ATTORNEY GENERAL OF)
TEXAS; JOHN SCOTT, in his)
official capacity as)
Provisional Attorney)
General; TEXAS MEDICAL)
BOARD; and TEXAS HEALTH AND)
HUMAN SERVICES COMMISSION) 201ST JUDICIAL DISTRICT

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25

HEARING ON APPLICATION FOR TEMPORARY INJUNCTION
AND PLEA TO THE JURISDICTION

1 On the 16th day of August, 2023, the following
2 proceedings came on to be heard in the above-entitled
3 and numbered cause before the Honorable Maria Cantú
4 Hexsel, Judge presiding, held in Austin, Travis County,
5 Texas;

6 Proceedings reported by machine shorthand.

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HEARING ON APPLICATION FOR TEMPORARY INJUNCTION
AND PLEA TO THE JURISDICTION

AUGUST 16, 2023

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1 Q. Good morning, Nathan.

2 A. Good morning.

3 Q. Are you Nathan Noe?

4 A. Yes, I am.

5 Q. Is that your legal name?

6 A. No, it is not.

7 Q. Why are you using a pseudonym in this case?

8 A. Today I'm using a pseudonym because we think
9 that it would be safer for me and my family to not be
10 publicly identified as a transgender person and the
11 family of a transgender person. And I also would like
12 to continue to be able to not have to disclose the fact
13 that I'm transgender publicly, to everybody I mean.

14 Q. And do you live in Texas?

15 A. I do.

16 Q. What county do you live in?

17 A. We live in Williamson County.

18 Q. And who do you live with?

19 A. Currently I live with my mother and my father,
20 my two younger siblings, and my elderly grandmother.

21 Q. Do you have pets?

22 A. I do. I have seven pets.

23 Q. We won't make you name them all. Does your
24 family belong to PFLAG?

25 A. Yes.

1 Q. And how old are you?

2 A. I'm 16 years old.

3 Q. And what grade are you in?

4 A. This year I'm a junior.

5 Q. And where are you supposed to be today?

6 A. Today is supposed to be my second day of
7 high school.

8 Q. And what do you do when you're not in school?

9 A. I like writing a lot. I like gardening. I
10 participated in choir, and I swim.

11 Q. And when you were born, what sex were you
12 assigned at birth?

13 A. I was assigned female at birth.

14 Q. And growing up, how did it feel for -- well,
15 let me take a step back. How would you describe your
16 gender identity today?

17 A. I'm male.

18 Q. And growing up, how did it feel for you when
19 people saw you as a girl?

20 A. When I was a very young child, gender didn't
21 really have much bearing in my life and my identity. I
22 was kind of just a child rather than a girl child or a
23 boy child. When I got a bit older, like 10, 11, that's
24 when I started puberty, and gender became, like, a part
25 of my life. It was -- it felt jarring to be perceived

1 as a female, and I couldn't necessarily describe why at
2 the beginning. It felt like something was wrong with me
3 or, you know, wrong with -- something wrong was
4 happening to me, and I couldn't describe that.

5 Q. And how did that feeling that you couldn't
6 describe -- how did that manifest for you in your life?

7 A. I isolated myself a lot. I didn't like,
8 you know, being seen by people because I knew that they
9 would see me as a girl, and so I sort of -- I didn't
10 really participate in events with my family. I kept to
11 myself, and I kind of -- I just -- I felt really badly
12 about myself. And I didn't, like, really enjoy doing
13 the activities I enjoyed before.

14 Q. It sounds like it was hard.

15 A. Yes, it was.

16 Q. Did there come a time when you began to figure
17 out where maybe that discomfort came from?

18 A. Yes. I realized that I might not be a girl
19 when I was about 11 or 12. I had sort of always known
20 that transgender people existed, but I didn't really
21 ever, you know, connect that idea to myself until at
22 that point in time. Once I did realize, it kind of
23 clicked. You know, it made a lot of sense what the
24 feelings that I had been experiencing -- you know, what
25 that meant, and it made everything sort of like, oh,

1 this is, you know, what's going on with me right now.

2 Q. And did there come a time when you told anyone
3 that you thought you might be a boy?

4 A. Yes. A few months after I, you know, made that
5 realization, I talked to my mom about it. I told her
6 that I think that I might, you know, not be a girl and I
7 might want to try using a different name, different
8 pronouns, stuff like that.

9 Q. And what was her reaction?

10 A. Her first reaction was, you know, wanting to
11 obviously do the best thing for me, make sure that,
12 you know, everything -- that I was safe. She knew that
13 transgender people faced a lot more issues, you know,
14 discrimination as well as mental health issues, that she
15 wanted to help me deal with the best that I could, so we
16 signed up for like a mental health counselor as well as
17 talking to my primary care doctor. But she also just --
18 you know, we made sure to have a lot more conversations
19 so that we could figure out what the best thing was.

20 Q. And after that first conversation --

21 THE COURT: One second, sir. Yes?

22 MR. STONE: Your Honor, we have two people
23 in the waiting room on Zoom, and I think they're our
24 experts. I know the rule's been invoked, but they are
25 expert witnesses, and we're wondering if they could be

1 let in so that they could watch this testimony since it
2 might be relevant to some of their testimony later.

3 THE COURT: Okay. Let's just make sure.
4 Grossman MD and -- okay.

5 MR. SELDIN: Your Honor, if I may, we
6 don't object to having them be admitted, but if we could
7 just confirm on the record that they don't have anyone
8 in the room with them given --

9 THE COURT: Sure. Yeah. I guess go ahead
10 and let them in and I'll just talk to them for a second.
11 Excuse us. Let me do this.

12 Good morning, Dr. Laidlaw. I'm waiting
13 for Dr. Grossman's audio to connect so I can speak with
14 both of you at the same time. One second.

15 DR. LAIDLAW: Thank you.

16 THE COURT: I don't know if she's just not
17 paying attention. Yeah. Of course, she's not going to
18 hear me. I don't know if you can text her, Mr. Stone.
19 It may just be a matter of -- yeah, if you can message
20 her maybe.

21 Dr. Laidlaw, I guess I can start with you.
22 I need to confirm that you don't have anyone else in the
23 room with you at this time.

24 DR. LAIDLAW: That is correct.

25 THE COURT: And sir, just a reminder that

1 there's no -- no recording or broadcasting or any
2 photography of our proceedings. Understood?

3 DR. LAIDLAW: Understood.

4 THE COURT: All right. Thank you.

5 MR. STONE: Your Honor, I sent
6 Dr. Grossman -- I sent Dr. Grossman an email, and I'm
7 trying to find her cell phone number. I'll text her.

8 THE COURT: Oh, sure. Sure. I guess -- I
9 just don't want to interrupt you again.

10 MR. STONE: Your Honor, maybe we can just
11 remove her from the room.

12 THE COURT: Sure.

13 MR. STONE: And once I'm able to reach out
14 to her and get ahold of her, we can revisit it.

15 THE COURT: That's fine.

16 MR. STONE: I apologize.

17 THE COURT: Can you go ahead and move her
18 back?

19 Okay. All right. And let me do one more
20 thing because I don't like that. Okay. Go ahead.

21 Q. (BY MR. SELDIN) Nathan, we were just chatting
22 a minute ago before we were interrupted. After you
23 first told your mom that you were a boy, were there
24 steps that you and your family took to affirm your
25 gender identity?

1 A. The first steps that we took were, you know, as
2 well as, you know, more conversations with the rest of
3 my family, to just talk about what this meant. What
4 those first steps looked like was just, you know,
5 getting a haircut. I wore different clothes. The name
6 that I was using, I changed that to be the name that I
7 currently use and is my legal name, you know, using
8 different pronouns. At this time it was during
9 quarantine, so the only people that I was pretty much
10 consistently in contact with were my family, so
11 everybody in my family started using my new name and
12 pronouns.

13 THE COURT: Nathan, can you scoot up just
14 a little bit?

15 THE WITNESS: Oh, sorry.

16 THE COURT: No, that's okay. Just a
17 little bit closer.

18 THE WITNESS: Is that good?

19 THE COURT: Yeah, I think so.

20 Q. (BY MR. SELDIN) And how did it feel to have
21 your family see you and treat you like the boy that you
22 are?

23 A. I would say that it was an immediate positive
24 shift. I -- if I had been, you know, reserved and
25 isolated before, I was able to, you know, really again

1 participate and, you know, talk with people I cared
2 about. I felt more comfortable just doing the things I
3 like doing because I didn't have to focus on this,
4 you know, issue that was going, you know, unrecognized.
5 I -- it felt really positive, and it was I think -- I
6 felt like I lit up whenever somebody would use my name
7 or the correct pronouns. Or, you know, if we went to a
8 restaurant and someone called me "sir," I would just
9 have the best day ever.

10 Q. And did there come a time when you sought
11 medical care related to your gender?

12 A. Yeah. In those conversations, like I said
13 before, that I had with my family, we talked about what
14 the right steps would be. When I first realized I was
15 transgender, I knew that I would eventually want to
16 pursue, you know, medical care, be that in the form of
17 surgeries or taking hormones. The decision that we had
18 to make was when it would be appropriate to start that.
19 Like I said, we talked to my primary care doctor, and I
20 received a gender -- a diagnosis of gender dysphoria
21 from him. And he referred us after a while to a
22 specialist who specialized in gender-affirming care,
23 hormone replacement therapy, and that was when I was
24 about 14.

25 We talked with her, had appointments where

1 we discussed, you know, what starting these hormones
2 would look like physically as well as making sure that I
3 was ready to do that. And I believe it was
4 November 16th of 2021 when I was 14 when I started
5 taking testosterone.

6 Q. You remember the exact date that you started?

7 A. Yes, I do. It was a very big day for me.

8 Q. How did it feel?

9 A. If socially transitioning was a big change,
10 then being on testosterone just really improved my life
11 to a point where gender dysphoria almost doesn't bother
12 me as much as it did at this point in my life. That was
13 during about my freshman year, halfway through. And
14 everyone around me could tell there was a shift from the
15 beginning of the year to the end of the year. I felt
16 like people were really able to see me as the me that I
17 saw myself as. And having a body that aligned with that
18 was -- it felt like a weight being lifted almost.
19 You know, my voice changed and I was able to sound the
20 way I wanted to sound, and I -- a lot of -- I just -- I
21 felt better about myself. I was more able to do the
22 things I loved again.

23 Q. And so how would you compare, you know, how you
24 felt about yourself and your mental health before and
25 after you started testosterone?

1 A. Well, before I started testosterone I -- I
2 struggled a lot. I still had to -- gender dysphoria
3 took up a lot of my time that I would have otherwise
4 been able to do other things. I struggled to focus on
5 my schoolwork. You know, everything that I did felt
6 like it was a little bit off even when I was being
7 referred to with my correct name and pronouns, just
8 because I knew that some people wouldn't see me as my
9 correct gender.

10 After starting testosterone, I just didn't
11 have to deal with that burden as much anymore,
12 especially, you know, publicly. The people around me
13 just knew me as a boy, and that was all I wanted. I
14 started my sophomore year having been on testosterone
15 and having transitioned, and it felt like I was less
16 stressed about everything else. I was able to just go
17 about my life as a teenage boy the way that I had really
18 wanted to.

19 Q. So for how long have you been on testosterone
20 at this point?

21 A. At this point, it has almost been two years.

22 Q. How would you feel if you had to stop taking
23 that medication?

24 A. Well, unfortunately, my -- the specialist who I
25 referred to earlier, her practice was shut down this

1 May -- or this last May because of the threat of,
2 you know, what was going on. And so I still had some of
3 my medicine from, you know, previous refills, but the
4 prescription is no longer, you know -- I don't have that
5 anymore. And we weren't -- we didn't -- weren't able to
6 communicate with her because, you know, she was no
7 longer working there. We set up another appointment in
8 Houston that just recently happened, but they were also
9 not able to fill my prescription because of, you know,
10 what was happening.

11 And it feels -- I feel very helpless, and
12 it makes me feel like I am going to have to go back into
13 a place mentally speaking that I was really
14 uncomfortable in, and I don't want to do that. I want
15 to be able to, you know, continue to focus on my
16 high school and eventually graduate and not have to deal
17 with not being on this medicine that's just really saved
18 my life, I would say.

19 Q. What would it mean for your family if you
20 couldn't access the medical care that you need in Texas?

21 A. That would mean that we would have to travel
22 out of state to get the care that I need, which would be
23 very difficult for a lot of reasons. Like I said
24 before, my parents care for my littler siblings and my
25 grandmother, so leaving periodically to go get a

1 prescription and then do the blood work that is
2 associated with it would leave them to have to deal with
3 that, as well as it would be disruptive to my life and
4 my parents' life. I would have to miss school and work
5 to go get this work done.

6 Q. Nathan, do you like living in Texas?

7 A. I do like living in Texas. I've lived here
8 since I was like one or two. I love the weather here.
9 I like the wildflowers. I love -- I love living in
10 Texas. I really don't want to have to leave my home
11 because of this.

12 Q. If you could describe the impact that this
13 medical treatment has had on your life in one word, what
14 would it be?

15 A. I'd say freedom. I feel free to live my life
16 without having gender dysphoria as a heavy weight on me.
17 And I also feel free to, you know, be perceived the way
18 I want to without people, you know, questioning me or
19 asking to hear my story. I'm able to just -- I'm free
20 to do the things I like doing without having to focus on
21 other things. I just have that freedom. I have that
22 ability now.

23 Q. Thank you, Nathan.

24 MR. SELDIN: We will pass the witness.

25 THE COURT: Thank you. Cross-examination?

1 MR. ELDRED: No questions, Your Honor.

2 THE COURT: All right. Thank you, sir.

3 Thank you, Nathan. You're done on the
4 witness stand. You can circle back around and head to
5 the door that you came in. Thank you.

6 Next witness?

7 MS. WOOTEN: Your Honor, we have no other
8 witnesses.

9 THE COURT: Okay. Thank you. Do you rest
10 at this time?

11 MS. WOOTEN: Yes, we do, Your Honor.

12 THE COURT: Thank you. All right.

13 Mr. Stone, let's try, I guess, dealing with having
14 Dr. Grossman back in and check on that, and then we'll
15 have you call your first witness.

16 MS. POLLARD: Your Honor?

17 THE COURT: Yes.

18 MS. POLLARD: Can we get access to the
19 back room while you're doing that?

20 THE COURT: Sure. It looks like she might
21 be away from her computer. Were you going to call
22 Laidlaw first?

23 MR. STONE: Yes.

24 THE COURT: Okay. Well, I'll be on the
25 lookout to see once she gets back. And we can

1 probably -- I guess we can -- do you want to pin
2 Dr. Laidlaw, Ms. Gould, and see if -- or actually, if
3 you'll unmute, sir, and see if once you talk if that
4 puts you -- should we do that?

5 DR. LAIDLAW: Okay. I just turned off
6 mute.

7 THE COURT: Okay. Yeah, I'd rather it pin
8 to him, or even that's better than the other. That
9 works, Tiffaney. That's okay.

10 All right. So Mr. Stone, who would you
11 like to call as your first witness?

12 MR. STONE: Yes, Your Honor. Our first
13 witness is Michael Laidlaw.

14 THE COURT: Okay. Make sure you've got
15 the mic or whoever's going to question the witness has
16 the mic so that -- all right. Dr. Laidlaw, if you'll
17 please raise your right hand. I'm going to switch this
18 to me so you know who's talking. If you'll raise your
19 right hand for me.

20 *(Witness sworn)*

21 THE COURT: You can put your hand down.
22 And I'm going to put this camera on the attorneys and
23 maybe -- let me try and Zoom in just a little bit so
24 that hopefully that helps. Okay. All right. Hold on.
25 What happened? There. Okay. All right. Go ahead.

1 MR. STONE: Thank you, Your Honor.

2 **MICHAEL K. LAIDLAW, M.D.**

3 having been first duly sworn, testified as follows:

4 **DIRECT EXAMINATION**

5 BY MR. STONE:

6 Q. What is your name?

7 A. Michael Laidlaw.

8 Q. What degrees do you hold?

9 A. I have a bachelor's degree in biology, a
10 concentration in molecular cell biology, a medical
11 doctor degree. I've completed residencies in internal
12 medicine and endocrinology and have taken board
13 certifications for both.

14 Q. And are you actually board certified?

15 A. Board certified endocrinologist, correct.

16 Q. Are you currently licensed to practice
17 medicine?

18 A. Yes, in the state of California.

19 Q. How long have you been practicing medicine as
20 an endocrinologist?

21 A. As an endocrinologist, I started in private
22 practice in 2006 through current, so about 17 years.

23 Q. Do you hold any privileges at any hospitals?

24 A. I'm on staff here at the Sutter Roseville
25 Medical Center.

1 Q. What academic appointments have you held?

2 A. I trained in an academic institution, but I
3 have not held any academic seats or anything of the
4 sort.

5 Q. Have you published at all in the area of
6 endocrinology?

7 A. Yes, I have.

8 Q. Just generally, what have you published in the
9 field of endocrinology?

10 A. I published an article in the *American Journal*
11 *of Bioethics* about puberty blockers, cross-sex hormones
12 for treatment of gender dysphoria. I've had a couple of
13 letters to the editor accepted in our main endocrinology
14 journal regarding similar topics. And I've written
15 other articles for the lay public.

16 Q. Have you ever testified before as an expert in
17 the subject of endocrinology?

18 A. Yes.

19 Q. Approximately how many times?

20 A. I want to say three. I can't think offhand,
21 something like that.

22 Q. How many times have you testified as an expert
23 in endocrinology on the subject of gender dysphoria
24 treatments in minors -- for minors?

25 A. Yeah. Testifying in court or by Zoom, two

1 times, I believe.

2 THE COURT: Hold on, Dr. Laidlaw. Just
3 hold on for me for a second.

4 Dr. Grossman, if you can hear us.

5 It's like she's in court, so I need her to
6 sit down.

7 MR. STONE: Yes, Your Honor.

8 THE COURT: If you can hear us, I need you
9 to stay put. It's distracting to have you walking
10 around. And I also want to make sure there's nobody
11 else in the room with you. Is that correct? Okay.
12 You're on mute, but I think I read your lips to say
13 that's correct. Okay. It just needs to be like you're
14 in the courtroom. So if you're here, I need you to stay
15 put, okay? Thank you.

16 Sorry about that. Go ahead.

17 MR. STONE: No problem. Your Honor,
18 Dr. Laidlaw's CV has been previously admitted as
19 Defendants' Exhibit 1. And at this time defendants
20 proffer Dr. Laidlaw as an expert on research, study, and
21 practice of endocrinology.

22 THE COURT: Any objection?

23 MR. SELDIN: Your Honor, can we do a brief
24 voir dire?

25 THE COURT: Briefly.

1 MR. STONE: Your Honor, will this count
2 against their time?

3 THE COURT: Yeah, it counts against them.

4 MR. STONE: Okay.

5 **VOIR DIRE EXAMINATION**

6 BY MR. SELDIN:

7 Q. Dr. Laidlaw, you have not performed any primary
8 research regarding gender dysphoria; correct?

9 A. That's correct.

10 Q. You have not performed any primary research
11 regarding transgender people; correct?

12 A. That's correct.

13 Q. You have not performed any primary research
14 regarding gender identity; correct?

15 A. That's correct.

16 Q. And none of your publications pertaining to
17 gender dysphoria are based on original research;
18 correct?

19 A. If you're talking about using human subjects in
20 research, that's correct.

21 Q. And you're not a member of WPATH; correct?

22 A. Correct.

23 Q. And you don't participate in WPATH conferences?

24 A. Correct.

25 Q. And you are not a surgeon; correct?

1 A. Correct.

2 Q. And you're not a mental health provider?

3 A. Correct.

4 MR. SELDIN: Your Honor, we would ask that
5 Dr. Laidlaw's testimony be limited to endocrinology.

6 THE COURT: As I understand it, the
7 request is research, study, and practice of
8 endocrinology; correct?

9 MR. STONE: That is correct, Your Honor.
10 So what they're asking for is already what we're --

11 THE COURT: Right.

12 MR. STONE: It sounds like we're in
13 agreement.

14 THE COURT: So I'll go ahead and designate
15 Dr. Laidlaw as an expert in research, study, and
16 practice of endocrinology. Okay.

17 MR. STONE: Thank you, Your Honor.

18 THE COURT: Go ahead, Mr. Stone.

19 **CONTINUED DIRECT EXAMINATION**

20 BY MR. STONE:

21 Q. Dr. Laidlaw, what is endocrinology?

22 A. Endocrinology is the study of glands and
23 hormones, diagnosing disorders with those, looking at
24 hormone imbalances or structural problems with glands.

25 Q. How do you diagnose endocrine disorders?

1 A. Endocrine disorders are diagnosed, if we're
2 talking about hormone imbalances, primarily through
3 laboratory tests, blood tests, urine tests, so forth.
4 Structural problems with glands are tested through
5 imaging generally, such as ultrasound or MRI. Tissue
6 can be sampled using biopsy techniques.

7 Q. Is gender dysphoria an endocrine disorder?

8 A. Gender dysphoria is not an endocrine disorder.
9 It is a psychological disorder found in the *Diagnostic*
10 *and Statistical Manual of Mental Health Disorders V*.

11 MR. SELDIN: Your Honor, we would object.
12 We just asked to limit his testimony to endocrinology,
13 which they agreed to.

14 MR. STONE: Your Honor, I just asked him
15 if it was an endocrine disorder.

16 THE COURT: Yeah. Overruled. I think
17 he's answered. Next question.

18 Q. (BY MR. STONE) Is gender dysphoria a condition
19 that can be treated by endocrinologists?

20 A. Gender dysphoria is -- currently has different
21 sets of recommendations throughout the world. Some
22 places in Europe favor psychological treatment. Some
23 advocacy --

24 THE COURT: Hold on. Now we're getting --

25 A. -- organizations such as WPATH --

1 THE COURT: Hold on, Dr. Laidlaw. Now
2 we're getting past. You asked him the question if it
3 was related to, but I don't think it's within his area
4 of expertise to talk about how it's treated around the
5 world.

6 MR. STONE: Understood, Your Honor.

7 THE COURT: Okay.

8 MR. STONE: I'm just trying to lay a
9 predicate --

10 THE COURT: Sure.

11 MR. STONE: -- that gender dysphoria is --
12 right. Thank you, Your Honor.

13 THE COURT: All right.

14 Q. (BY MR. STONE) Okay. Dr. Laidlaw --

15 A. Yeah.

16 Q. -- is -- is gender dysphoria a condition that
17 is treated within the field of endocrinology?

18 A. It is not an endocrine condition per se. There
19 are endocrinologists who use hormones to treat this
20 condition.

21 Q. How is gender dysphoria different from an
22 endocrine disorder?

23 A. Gender dysphoria is elicited, the diagnosis,
24 through psychological methods --

25 MR. SELDIN: Your Honor, the witness is

1 talking --

2 A. -- whereas endocrine conditions --

3 THE COURT: Hold on, Dr. Laidlaw.

4 A. -- are --

5 THE COURT: Hold on, Dr. Laidlaw. I have
6 to deal with an objection. State your objection for the
7 record, please.

8 MR. SELDIN: Objection, Your Honor. The
9 witness is being offered for endocrinology. He's been
10 talking about gender dysphoria, which he's already
11 established is a psychiatric diagnosis outside of his
12 field.

13 THE COURT: So I'm willing to let him
14 answer this specific question. What happens is he then
15 continues on to areas that I think go outside of what we
16 designated him for.

17 MR. STONE: Well, Your Honor, he just
18 testified that gender dysphoria is a condition that
19 endocrinol- -- some endocrinologists treat using
20 endocrinology. So I think this falls within the
21 practice of endocrinology if it's a condition that
22 endocrinologists treat.

23 THE COURT: Sure. But I think the
24 question is does he do it, does he treat gender
25 dysphoria as an endocrinologist. And if he doesn't, I

1 don't know -- well --

2 MR. STONE: He's an expert, Your Honor.
3 We're not asking about what he does. We're asking
4 about -- he's testifying as an expert in the field of
5 endocrinology.

6 THE COURT: Okay. Understood. But I
7 think that we're getting a little far afield when we
8 start talking -- well, let's go ahead and start again
9 and begin with a new question. I understand his
10 designation, and I'm willing to let him testify. I'm
11 the one that gets to decide the weight and the
12 credibility of the evidence, so I'd rather get through
13 it, okay? So go ahead.

14 Q. (BY MR. STONE) Doctor, can you describe to me
15 the endocrine treatments that are -- that some providers
16 provide -- some endocrinologists provide for the
17 treatment of gender dysphoria in minors?

18 A. Sure. Some endocrinologists are providing
19 hormones referred to as puberty blockers and other
20 hormones referred to as cross-sex hormones, meaning
21 testosterone for natal females and estrogen or similar
22 for natal males.

23 Q. What are puberty blockers?

24 A. Puberty blockers are medications which affect a
25 gland in the brain called the pituitary. They block the

1 normal signaling of the pituitary to the gonads, be it
2 testicles of natal males or ovaries of natal females,
3 such that those organs are unable to produce their
4 hormones, estrogen for the female ovary or testosterone
5 for the male gonad, testicle. And such as it is, if
6 this occurs during the time of normal pubertal
7 development, it will halt the progression of puberty.

8 Q. How old are minors -- well, at what stage
9 during puberty would an endocrinologist prescribe --
10 would some endocrinologists prescribe puberty blockers
11 to a minor for the treatment of gender dysphoria?

12 A. In the Endocrine Society Guidelines, they
13 recommend beginning at Tanner stage 2, which is a stage
14 of pubertal development. It's divided into five, with 1
15 being pre-pubertal and 5 being full adulthood. So
16 Tanner stage 2 is the earliest stage of puberty this can
17 occur, as early as age eight for girls or age nine for
18 boys.

19 Q. How long are puberty blockers prescribed to
20 minors for the treatment of gender dysphoria generally?

21 A. I've seen it can be for a few months to several
22 years.

23 Q. What is the goal of prescribing puberty
24 blockers to minors for the treatment of gender
25 dysphoria?

1 A. The goals have shifted over time. Initially it
2 was a time to help -- the thought was to help alleviate
3 the distress from gender dysphoria and give the child
4 time to fully recognize their gender identity. I think
5 it's become over time a method to prevent normal
6 pubertal development and the prevention of both
7 secondary and primary sex characteristic development
8 during puberty.

9 Q. Are you familiar with the Endocrine Society?

10 A. Yes. I am a member.

11 Q. What is the Endocrine Society?

12 A. The Endocrine Society is a group of
13 professionals, medical doctors, scientists, and so forth
14 who hold conferences, have journals, and contribute to
15 the field of medical endocrinology and basic science of
16 endocrinology.

17 Q. Has the Endocrine Society published guidelines
18 for endocrinologists on the treatment of gender
19 dysphoria in minors?

20 A. Yes, two that I'm aware of, in 2009 and 2017.

21 Q. Are you familiar with those guidelines?

22 A. Yes.

23 Q. What are the potential benefits of providing
24 puberty blockers to minors for the treatment of gender
25 dysphoria?

1 A. Potential benefits are allegedly to alleviate
2 gender dysphoria to give a patient time to recognize
3 their maybe true gender identity.

4 Q. Have you -- have you evaluated the scientific
5 research and literature on the effectiveness of puberty
6 blockers for the treatment of gender dysphoria in
7 minors?

8 A. Yes. I've spent the last several years looking
9 into this.

10 Q. What does the scientific literature and
11 research say about the effectiveness of puberty blockers
12 for the treatment of gender dysphoria in minors?

13 A. There's limited data on this, which is
14 low-quality evidence. Systematic reviews have shown
15 that there's limited evidence in the short or long term
16 for efficacy or safety.

17 Q. What are the risks of providing puberty
18 blockers to minors for the treatment of gender
19 dysphoria?

20 A. There's multiple risks for providing puberty
21 blockers to halt normal puberty, one being that puberty
22 is the time of rapid development of bone and increased
23 bone density. What happens is that bone density,
24 instead of increasing rapidly, will flatline. That
25 leaves a person at future risk for osteoporosis,

1 fractures of the hip, and so forth. There are changes
2 to the brain which happen under the influence of the sex
3 hormones which will be blocked.

4 There are -- most concerningly I feel is
5 that stopping normal puberty at an early Tanner stage as
6 recommended by the Endocrine Society, Tanner stage 2,
7 will be before fertility is established, before
8 menstrual cycle function and ovulation in female and
9 sperm development of male, which means that continuing
10 on to cross-sex hormones will lock this person in an
11 undeveloped state and will remain infertile.

12 Most of the patients in studies from
13 de Vries and the Dutch have shown that patients who
14 start on puberty-blocking medications, the overwhelming
15 majority go on to cross-sex hormones and then surgeries,
16 which are permanently sterilizing procedures of the
17 gonads.

18 Q. Are puberty blockers reversible?

19 A. Some aspects of puberty blockers are
20 reversible; some aspects are not reversible.

21 Q. What aspects of puberty blockers are not
22 reversible?

23 A. The effects that I described on bone are not
24 immediately reversible. In other words, if medication
25 is stopped and the person is allowed to progress through

1 puberty, they've lost time for bone development. I
2 would add that the development with relationship to
3 their peers is time lost that can't be gained. And then
4 there are unknown effects on brain development.

5 Q. Have you evaluated the scientific literature
6 and research on the safety of puberty blockers for the
7 treatment of gender dysphoria in minors?

8 A. I have. One thing to recognize is that these
9 medications are not FDA approved specifically for gender
10 dysphoria, so there are no FDA type of safety studies
11 that have ever been done. Again, the evidence that has
12 been presented is low-quality evidence. Systematic
13 reviews have not been able to establish safety in the
14 short or long term for these medications specifically
15 for gender dysphoria.

16 Q. Are you aware of any ongoing FDA safety studies
17 on the -- on puberty blockers for the treatment of
18 gender dysphoria in minors?

19 A. I am not aware.

20 Q. Are you aware if any of the manufacturers of
21 puberty blockers that are used for the treatment of
22 gender dysphoria in minors have requested FDA approval?

23 A. Not that I'm aware of.

24 Q. In your opinion, do the potential benefits
25 outweigh the risks of providing puberty blockers to

1 minors for the treatment of gender dysphoria?

2 A. No. The potential benefits do not outweigh the
3 risks.

4 Q. What is the likelihood that a minor taking
5 puberty blockers for gender dysphoria will be harmed?

6 A. The likelihood depends on the length of time
7 that they've taken the medication and whether or not
8 they continue to cross-sex hormones. If they take it
9 for a limited period of time, the harm will be minimal.
10 The longer they take the medications, the greater the
11 harm that's produced.

12 Q. I want to go back to the last question. I
13 skipped -- I skipped a question. Why do you think that
14 the -- that the risks of providing puberty blockers to
15 minors for the treatment of gender dysphoria outweighs
16 any potential benefits?

17 A. I think you have a group of medications which
18 hasn't been -- for this particular condition hasn't been
19 researched properly. There's lack of controlled
20 studies, for example. There is -- the evidence base is
21 poor in terms of quality of existing studies.
22 Therefore, one can see that the risks -- and there are
23 numerous risks already on the labeling for this
24 medication and risks that we know, as I've said, for
25 brain, bone development, and other unknown risks,

1 certainly fertility, that we know simply from endocrine
2 practice, that the risks, both known and unknown, exceed
3 the benefits.

4 Q. In your opinion, are puberty blockers a safe
5 and effective treatment for gender dysphoria?

6 A. No.

7 Q. Why not?

8 MR. SELDIN: Objection, Your Honor.

9 THE COURT: Yeah, sustained. Treatment of
10 gender dysphoria, he doesn't treat it.

11 MR. STONE: Your Honor, I --

12 THE COURT: Next question, Mr. Stone. I'm
13 happy to read it back to you.

14 MR. STONE: Then, Your Honor, I would like
15 to take this witness on -- I would like to --

16 THE COURT: Offer of proof?

17 MR. STONE: -- make an offer of proof,
18 Your Honor.

19 THE COURT: All right.

20 MR. STONE: Sorry.

21 THE COURT: That's okay. Go ahead.

22 MR. STONE: Okay.

23 **OFFER OF PROOF**

24 BY MR. STONE:

25 Q. Doctor, why do you believe puberty blockers are

1 not a safe and effective treatment for gender dysphoria?

2 A. This is through my examination of the medical
3 literature and my knowledge and experience as an
4 endocrinologist dealing with conditions produced by
5 these medications called hypogonadotropic hypogonadism.

6 Q. And Doctor, what is the basis for your
7 opinions --

8 MR. STONE: That's the end of my offer of
9 proof.

10 THE COURT: Understood. Thank you.

11 MR. STONE: Thank you, Your Honor.

12 **CONTINUED DIRECT EXAMINATION**

13 BY MR. STONE:

14 Q. Doctor, what is --

15 MR. SELDIN: Your Honor --

16 THE COURT: Hold on.

17 MR. SELDIN: We would object, Your Honor.
18 We don't believe that proffer is sufficient. The
19 question was whether he treats gender dysphoria.

20 THE COURT: Well, it's just an offer of
21 proof, so it's sort of outside of this. So go ahead.

22 Q. (BY MR. STONE) Doctor, what is the basis for
23 your -- the expert opinions that you've given about the
24 risks and potential benefits of puberty blockers for
25 minors today in the treatment of gender dysphoria?

1 A. They're based on my knowledge of endocrinology,
2 of endocrine conditions, through training, through
3 experience, and also a review of the literature and
4 systematic evidence-based reviews.

5 Q. Dr. Laidlaw, what are cross-sex hormones?

6 A. Cross-sex hormones are hormones given in high
7 dosages to -- which are higher than what's expected for
8 the natal sex. For example, a female would be given --
9 a natal female given testosterone as a cross-sex
10 hormone, a natal male given estrogen or similar as a
11 cross-sex hormone.

12 Q. Dr. Laidlaw, how are cross-sex hormones used in
13 the treatment of gender dysphoria by endocrinologists,
14 some endocrinologists?

15 A. These hormones are used by some
16 endocrinologists to -- in place of the hormone that is
17 produced natively. In other words, a testicle will
18 produce testosterone unless inhibited. In this case,
19 estrogen would be given to help produce what we call
20 secondary sex characteristics in a natal male, for
21 example, gynecomastia or to develop breast tissue,
22 changes that may be feminizing to the skin, for example,
23 or a change in body habitus, fat distribution due to
24 estrogen. If we're talking about testosterone effects,
25 secondary sex characteristic effects may include growth

1 of hair on the face or chest or back, which we call
2 hirsutism, deepening of the voice, change in musculature
3 as examples.

4 Q. What age does the Endocrine Society recommend
5 prescribe -- endocrinologists prescribe cross-sex
6 hormones to minors for the treatment of gender
7 dysphoria?

8 A. They have a general recommendation of around
9 age 16, though it may be lower in certain circumstances.

10 Q. How long -- how long would a minor be
11 prescribed cross-sex hormones by some endocrinologists
12 for the treatment of gender dysphoria?

13 MR. SELDIN: Objection, Your Honor.

14 A. The potential is for it to be indefinite.

15 THE COURT: Hold on, Dr. Laidlaw.

16 A. Lifelong.

17 THE COURT: Hold on. Sorry. Do you want
18 to state your objection?

19 MR. SELDIN: Your Honor, he's speaking to
20 the practices of others in the field he said he doesn't
21 practice in.

22 THE COURT: I think the way the question
23 is worded is fine, so I'm going to overrule the
24 objection.

25 I'm sorry, Dr. Laidlaw, if you'll

1 continue.

2 A. Yeah. I was saying that the potential is for
3 this to be a lifelong or near lifelong treatment.

4 Q. (BY MR. STONE) What are the potential benefits
5 of prescribing cross-sex hormones to minors for the
6 treatment of gender dysphoria according to the endocrine
7 society?

8 A. Stated potential benefits are allowing a person
9 to have an appearance congruence or a similarity in
10 appearance that's opposite to their natal sex with the
11 goal of helping to alleviate psychosocial stress that
12 occurs with gender incongruence.

13 Q. Have you reviewed the scientific research and
14 what it says about the effectiveness of cross-sex
15 hormones for the treatment of gender dysphoria in
16 minors?

17 A. Yes.

18 Q. What does the scientific literature and
19 research say about the effectiveness of cross-sex
20 hormones for the treatment of gender dysphoria in
21 minors?

22 A. There have been a number of systematic reviews
23 on this topic, the NICE systematic reviews, McMaster's,
24 which have shown that there is limited evidence for
25 safety and effectiveness in the short or long term for

1 adolescents. WPATH said they could not do a systematic
2 evidence review and so has no comprehensive data on
3 this.

4 Q. How much -- well, let me stop. What is the --
5 what is the goal of prescribing cross-sex hormones to
6 minors for the treatment of gender dysphoria?

7 A. The goal is to provide appearance congruence or
8 try to provide some physical changes which allow the
9 natal male, for example, to have an appearance that is
10 congruent with a natal female and vice versa and such as
11 it is to make the person feel comfortable in their -- in
12 their body and within society.

13 Q. Would it be helpful to the Court to
14 illustrate -- to illustrate the difference here in terms
15 of hormones between those naturally occurring and those
16 prescribed?

17 A. I believe it would be.

18 Q. Have you -- in your declaration, did you create
19 or provide an illustration that showed the difference
20 between naturally occurring hormones and those
21 prescribed for the treatment of gender dysphoria in
22 minors?

23 A. Yes, I did.

24 MR. SELDIN: Your Honor, we would just ask
25 that we be directed to the page --

1 THE COURT: Sure.

2 MR. SELDIN: -- and just be allowed the
3 opportunity to look at it before it's displayed.

4 MR. STONE: It's D-10.

5 THE COURT: Okay.

6 MS. WOOTEN: Your Honor, it's not a marked
7 exhibit, so we're hunting.

8 THE COURT: It is in the Box in case that
9 helps. Is it just that one page, Mr. Stone?

10 MR. STONE: Yeah, it's just -- it's just
11 this one page.

12 THE COURT: Let me --

13 MR. STONE: Do you want me to find it in
14 the expert report?

15 MR. SELDIN: Yes.

16 MR. STONE: Okay.

17 MR. SELDIN: That'll be sufficient.

18 THE COURT: It says Figure 4, so Figure 4
19 in the expert report.

20 THE WITNESS: It's Page 48.

21 MR. SELDIN: Your Honor, it's fine. Thank
22 you. We appreciate your patience.

23 THE COURT: Thank you. No worries.

24 Okay. Go ahead, Mr. Stone.

25 Q. (BY MR. STONE) Dr. Laidlaw, do you recognize

1 the image that we're displaying on the screen?

2 A. Yes, I do. This is a chart that I produced.

3 Q. What is this chart of?

4 A. So what I'm showing here is levels of natal
5 female testosterone. You can see across the bottom,
6 zero being the lowest, 1,000 being the highest. And at
7 the -- on the left-hand side there are three different
8 conditions, endocrine conditions, and also the reference
9 range for normal females, normal meaning not having any
10 endocrine condition.

11 Q. What is PCOS?

12 A. PCOS is polycystic ovarian syndrome. It's a
13 condition of natal females where there are higher than
14 normal levels of testosterone.

15 Q. And how do you treat PCOS?

16 A. So PCOS can lead to things such as hirsutism,
17 problems with fertility. It's treated by different
18 methods. Some are hormonal. Some are metabolic such as
19 treatment with Metformin.

20 Q. What is an -- I see endo -- endo tumor. What
21 is an endo tumor?

22 A. So tumors can develop either -- in the
23 endocrine glands primarily that produce -- overproduce
24 testosterone or similar androgens. So what I'm showing
25 here is that the normal -- normal range for adult female

1 testosterone, depending on the lab, is somewhere between
2 10 and 50. That's in blue. Polycystic ovarian syndrome
3 may be somewhere between, say, 50 and 150. You can see
4 with endocrine tumors, the levels can be much higher, on
5 the order of 150 to 1,000, and these are serious
6 conditions that often require -- always require
7 treatment and sometimes surgeries.

8 Q. And last, I see female to male transition, but
9 where -- let me start over. Where are you getting that
10 figure for the FtM transition from?

11 A. This is from the Endocrine Society Guidelines
12 2017.

13 Q. And what -- what are you showing in this
14 illustration of female to male transition testosterone
15 levels?

16 A. So you can see here that the levels are
17 somewhere recommended to be between 300 and 1,000, which
18 is calculated about six to 100 times higher than natal
19 female levels and on the order of endocrine tumors.

20 Q. Why is that significant?

21 A. It's significant because we recognize that high
22 levels of testosterone is a unique endocrine disorder,
23 which we call hyperandrogenism, and there are multiple
24 health effects that occur because of hyperandrogenism.
25 And this is a condition that endocrinologists would

1 diagnose and treat, but what strikes me is that this
2 condition is being deliberately generated through
3 endocrine treatment of gender dysphoria.

4 Q. Dr. Laidlaw, what are the potential risks of
5 providing puberty blockers to minors for the treatment
6 of gender dysphoria? I'm sorry. Strike that. Strike
7 that. We're not talking about puberty blockers.

8 Let me start again. Dr. Laidlaw, what are
9 the potential risks of providing cross-sex hormones to
10 minors for the treatment of gender dysphoria?

11 A. Sure. There's cardiovascular risk.
12 Dr. Irwig's review has shown increased risk of
13 myocardial infarction and death due to cardiovascular
14 disease in both sexes from cross-sex hormones. If we
15 stick with natal females using testosterone, there is
16 changes that can occur in the labeling of testosterone
17 such as blood clots, which can be deadly, changes in
18 cholesterol such as lowered HDL.

19 There are permanent changes of hair
20 growth, which we call hirsutism, permanent deepening of
21 the voice, changes -- direct changes to reproductive
22 organs such as atrophy of the vagina, of the uterus,
23 polycystic ovaries. If testosterone is given,
24 testosterone I would add also given to natal females
25 during normal pubertal development will stop native

1 pubertal development, so it will lead to infertility.
2 If the pelvis hasn't developed fully under the influence
3 of estrogen, it will halt pelvic development causing it
4 to be -- decrease the size -- the ultimate size of the
5 inlet -- pelvic inlet and outlet and could eventually
6 cause obstruction or it's a risk for obstruction of
7 labor.

8 In the male, there is increased risk of
9 thromboembolism or blood clots, which could be deadly,
10 five times increase in the Irwig paper. Gynecomastia or
11 abnormal production of breast tissue, they found in one
12 study 46 times increased risk of breast cancer of the
13 male, which is ordinarily -- or natal male, which is
14 ordinarily a rare condition. Sexual dysfunction,
15 impotence, infertility. And again, if this is given
16 during normal pubertal development, you will have a
17 halting of penile growth, testicular development,
18 infertility.

19 Q. Thank you, Doctor. And a slightly different
20 question: Other than what you've already covered, what
21 other -- are there any other potential risks to taking
22 testosterone on a long-term or lifelong basis?

23 A. Other risks -- and I've written about this in
24 my declaration -- is that with the ordinarily high doses
25 of testosterone being recommended, the closest example

1 in the literature is anabolic steroid use. They found
2 changes such as hyperactivity, aggressiveness, reckless
3 behavior. 23 percent or so had met DSM criteria for
4 major depression, mood disorders, mania. Something like
5 8 percent had psychosis. So there are physical effects,
6 which are concerning, lifelong cardiovascular, as well
7 as mental health side effects.

8 Q. Doctor, you mentioned sterilization a moment
9 ago; right?

10 A. I believe I said infertility.

11 Q. Infertility. Sorry.

12 A. I may have said leading to sterilization. I
13 don't recall.

14 Q. How -- how does -- how can potential -- how can
15 cross-sex hormones potentially lead to infertility?

16 A. Sure. So infertility of the female, if there's
17 disruption of normal menstruation and ovulation, the
18 person will be infertile. If there's -- and I don't
19 think this is known yet, but puberty blockers followed
20 by cross-sex hormones could permanently damage the
21 ovaries from what is known from pathology studies of
22 patients who had their ovaries removed and there's
23 polycystic changes and other changes. Same thing with a
24 male. Puberty blockers stopping progression of normal
25 testicular development and adding on cross-sex hormones,

1 it causes infertility in the short term. In the long
2 term there's potential for sterility. And then, as I
3 said, the studies starting with puberty blockers to
4 cross-sex hormones to surgeries, which the majority in
5 the de Vries series had gone on to do, led to ultimate
6 sterilization by removal of gonads.

7 Q. Have you reviewed the scientific literature and
8 research about the safety of cross-sex hormones for the
9 treatment of gender dysphoria in minors?

10 A. Yes.

11 Q. What does the scientific literature and
12 research say about the safety of providing cross-sex
13 hormones to minors for the treatment of gender
14 dysphoria?

15 A. Similarly, systematic reviews of the evidence
16 such as the NICE review and other similar reviews have
17 shown poor-quality evidence, lack of controlled studies,
18 lack of long-term studies establishing safety of
19 cross-sex hormones for the treatment of gender dysphoria
20 for adolescents.

21 Q. In your opinion, do the potential benefits
22 outweigh the risks of providing cross-sex hormones to
23 minors for the treatment of gender dysphoria?

24 MR. SELDIN: Objection, Your Honor. It's
25 outside the scope.

1 THE COURT: Well, he does say in his
2 opinion, which I understand to be in this area. So I'm
3 going to overrule the objection and let him answer the
4 question.

5 A. In my opinion, based on my experience,
6 training, and review of the literature, the benefits do
7 not outweigh the risks for cross-sex hormones for
8 adolescents.

9 Q. (BY MR. STONE) Are cross-sex hormones
10 reversible?

11 A. Some aspects are; some are not. Some are
12 unknown. For example, permanent side effects of
13 testosterone, if a person decides to detransition or
14 regrets their decision, they're left with some degree of
15 beard growth on the face or hair on other parts of the
16 body that aren't easily changed, permanent changes in
17 deepening of the voice that to my knowledge has -- there
18 are no treatments or it's very limited. For males, it
19 can be very discomfoting if they regret their decision
20 to have gynecomastia or increased breast tissue that can
21 be either uncomfortable or particularly having to be
22 reversed by breast reduction surgery, which can be
23 painful and costly and difficult.

24 Q. Doctor, are you familiar with the WPATH?

25 A. Yes.

1 Q. Have you reviewed the WPATH Standard of Care
2 Version 8?

3 A. Yes.

4 Q. Doctor, what is informed consent in the
5 practice of endocrinology?

6 A. In the practice of endocrinology, particularly
7 if we're giving -- prescribing medications, which is
8 what we would most often do, it's the practice of
9 informing the patient about risks and benefits of the
10 medication side effects, risks and benefits of not
11 taking the medication, risks and benefits of not -- of
12 the alternatives to not taking the medication, and also
13 understanding the capacity of a person -- a patient to
14 provide informed consent.

15 Q. Doctor, have you reviewed the WPATH guidelines
16 about obtaining informed consent or assent from a minor
17 for the treatment -- for the use of puberty blockers or
18 cross-sex hormones?

19 A. Yes.

20 Q. Would it assist you if we -- if I showed you to
21 refresh your recollection a copy of the WPATH's
22 guidelines on obtaining informed consent or assent from
23 a minor for the use of puberty blockers or cross-sex
24 hormones?

25 A. That would be helpful.

1 MR. STONE: Your Honor, at this time we'd
2 like to display on the screen Plaintiffs' Exhibit 26.

3 THE COURT: Okay.

4 MR. STONE: Page 63.

5 THE COURT: Which is not in evidence --

6 MR. STONE: It's not in evidence.

7 THE COURT: -- but just as a
8 demonstrative.

9 MR. STONE: But it's in the Box.

10 THE COURT: Okay. Give me one second.
11 All right. Go ahead.

12 MR. STONE: Thank you, Your Honor.

13 Q. (BY MR. STONE) Doctor, do you see the first
14 sentence at the very bottom of the right hand? I think
15 we're zooming in on it.

16 THE COURT: What page are you on,
17 Mr. Stone?

18 MR. STONE: I'm on Page 63.

19 THE COURT: Okay. Thank you.

20 Q. (BY MR. STONE) The very first sentence at the
21 bottom on the right-hand column, "The following
22 questions may be useful." Do you see it on the screen?
23 Okay.

24 A. Yes.

25 Q. Doctor, do you see the sentence on the screen

1 "The following questions may be useful to consider in
2 assessing a young person's emotional and" -- it
3 continues on -- "cognitive readiness to assent or
4 consent to specific gender-affirming treatment"?

5 A. Yes.

6 Q. I want to ask you about each of these four
7 questions. The first, do you see it on the screen? Can
8 the young person think carefully into the future and
9 consider the implications of a partially or fully
10 irreversible intervention? Do you see that on the
11 screen?

12 A. Yes, I do.

13 Q. Doctor, in your opinion, can a minor think
14 carefully and -- into the future and consider the
15 implications of taking puberty blockers and cross-sex
16 hormones?

17 A. Given the long-term limited data on this and
18 certainty of certain types of risks, especially that are
19 lifelong, such as fertility complications, sexual
20 dysfunction, cardiovascular function, I would say no.

21 Q. Second question: Does the young person have --
22 do you see on the screen where it says: Does the young
23 person have sufficient self-reflective capacity to
24 consider the possibility that gender-related needs and
25 priorities can develop over time and gender-related

1 priorities at a certain point in time might change?

2 A. I think that a young person would have limited
3 capacity to do so. They tend to, because of their age
4 of development, prefer immediate gratification and can't
5 perceive the long-term consequences or the possibility
6 that their gender identity might change over time, so I
7 would say they don't have that capacity.

8 Q. For the third question: In your opinion, do
9 young people to some extent -- have they thought
10 through --

11 MS. DYER: Sorry.

12 Q. (BY MR. STONE) Sorry. Let me -- okay. Let me
13 just read it. Do you see on the screen where it says:
14 Has the young person to some extent thought through the
15 implications of what they might do if their priorities
16 around gender do change in the future? Do you see that
17 on the screen?

18 A. I do. I think it's again going to be very
19 limited. You know, a 13-year-old may not be thinking
20 about breastfeeding at age 28 or, you know, a
21 12-year-old, 11-year-old male may not be thinking about
22 what it's like to be the father of a child. They simply
23 don't have the experience, maturity, or development to
24 comprehend those big changes that occur in adult life.

25 Q. All right. Last question on this.

1 MR. STONE: And I think we're almost done,
2 Your Honor.

3 Q. (BY MR. STONE) Do you see on the screen where
4 it says: Is the young person able to understand and
5 manage the day-to-day short- and long-term aspects of a
6 specific medical treatment? Do you see that on the
7 screen?

8 A. Yes.

9 Q. What is your opinion about minors and their
10 capacity to provide this informed consent or assent to
11 the specific topic with respect to puberty blockers and
12 cross-sex hormones?

13 A. It's difficult for -- medication adherence is a
14 difficult general problem even for adults. But my
15 experience with, say, even young people who have
16 diabetes, adhering to taking insulin every day and on a
17 regular basis can be quite difficult. And so I presume
18 this type of treatment, which can involve regular
19 injections, daily medications, would be difficult for
20 the young person to appreciate how to stay on a regimen
21 and continue their course.

22 Q. Dr. Laidlaw, did you have an oppor- -- have you
23 had an opportunity to review the declarations submitted
24 in this case?

25 A. Yes.

1 Q. Have you had an opportunity to review the
2 declaration submitted by Dr. Shumer?

3 A. Yes.

4 Q. What -- what opinions, if any, do you have
5 about the declaration submitted by Dr. Shumer?

6 A. I disagree with him on a number of key issues.
7 I believe I pointed those out in my declaration.

8 Q. Okay.

9 MR. STONE: Okay. Your Honor, we pass the
10 witness.

11 THE COURT: All right. Thank you,
12 Mr. Stone. Let's go ahead and take our morning break.
13 It's 10:15. We'll try and resume back at 10:30. And
14 we're in recess until 10:30, and we'll continue with
15 you, Dr. Laidlaw, as soon as we're back. But you're
16 welcome to turn off your microphones and videos on our
17 Zoom and be back at 10:30, which -- I don't know exactly
18 where you are. I think you're in California, so it's
19 still early, but 10:30 Texas time. Thank you.

20 THE WITNESS: Okay. Thank you.

21 *(Recess taken)*

22 THE COURT: Just for any new visitors, a
23 quick reminder, there's no recording, broadcasting, or
24 any photography inside the courtroom. Thank you very
25 much. I think we are ready to proceed.

1 Dr. Laidlaw, are you ready to proceed?

2 Oh, if you'll unmute yourself, sir.

3 THE WITNESS: Yes.

4 THE COURT: Okay. Perfect. Thank you.

5 **CROSS-EXAMINATION**

6 BY MR. SELDIN:

7 Q. Dr. Laidlaw, good morning.

8 A. Good morning.

9 Q. Less than 5 percent of your endocrinology
10 practice is treating patients under 18; correct?

11 A. Correct.

12 Q. And puberty blockers, testosterone, and
13 estrogen are all prescribed by endocrinologists to
14 adolescents to treat other endocrine conditions;
15 correct?

16 A. Yes.

17 Q. And in those cases, endocrinologists will
18 review the risks and benefits of those medications for
19 those conditions with their patients; correct?

20 A. Yes, they should.

21 Q. Earlier you referenced Figure 4 in your
22 testimony from your declaration; is that right?

23 A. Yes.

24 Q. And this is a chart that you created; correct?

25 A. Correct.

1 Q. And Figure 4 doesn't include -- well, Figure 4
2 includes what you refer to as the normal female range of
3 testosterone; is that correct?

4 A. It's, to be clear, the reference range for
5 females without an endocrine condition affecting their
6 testosterone.

7 Q. And Figure 4 doesn't include the normal male
8 range for testosterone; correct?

9 A. That's correct. They have not indicated that.

10 Q. And you testified earlier that you reviewed
11 Dr. Shumer's report; correct?

12 A. Yes.

13 Q. And Dr. Shumer in his report testified that the
14 goal of treatment of gender dysphoria in adolescents is
15 to raise testosterone levels to the range appropriate
16 for their age and stage of development as compared to
17 males who are not transgender; correct?

18 A. That's their goal, but they don't have evidence
19 to support those numbers.

20 Q. What is the normal male range for testosterone?

21 A. Roughly 300 to 1,000 based -- depending on the
22 lab.

23 Q. And your chart includes what you would call the
24 FtM transition range from, it looks like, to about 300
25 to 1,000; is that correct?

1 A. Yes.

2 Q. So would you say then that also corresponds to
3 what you would call the normal male range for
4 testosterone?

5 A. Normal natal male reference range.

6 Q. Earlier you testified about a concern about
7 abuse of testosterone and you compared it to the use of
8 anabolic steroids in athletes; correct?

9 A. Yes.

10 Q. And so that concern would not apply to raising
11 testosterone levels in accordance with Endocrine Society
12 Guidelines to what you call the normal male natal range;
13 correct?

14 A. Are you saying specifically raising natal
15 female levels to 300 to 1,000?

16 Q. Let me rephrase. Earlier you talked about a
17 concern about testosterone being overprescribed and
18 compared it to the use of anabolic steroids in athletes;
19 correct?

20 MR. STONE: Objection, Your Honor. This
21 misstates prior testimony. Specifically, the question
22 was about the long-term use, and he said it was
23 analogous to -- the closest analogy in the literature
24 was to anabolic steroids. He didn't say
25 overprescribing, any of like the loaded language they're

1 using.

2 THE COURT: If you can rephrase. I don't
3 know that he said it was over- -- well, I don't -- if
4 you'll rephrase.

5 Q. (BY MR. SELDIN) Dr. Laidlaw, earlier you
6 testified about a concern about the use of testosterone
7 over time being comparable to the use of anabolic
8 steroids by athletes; correct?

9 A. High dose testosterone.

10 Q. And when you say high dose testosterone, you
11 meant in excess of the normal female range of
12 testosterone as indicated by your chart; correct?

13 A. That's correct.

14 Q. Not in excess of the levels indicated by the
15 FtM transition level on your chart; correct?

16 A. That could be in addition to it. In other
17 words, levels could be potentially higher than 1,000,
18 depending on how it's given, but that's the
19 recommendation of the Endocrine Society is the range I
20 have there.

21 Q. When you treat natal males, or as you call
22 them, as the term that you're using, what is the goal
23 reference range that you use for a normal testosterone
24 level?

25 A. Typically, again, depending on the lab,

1 somewhere between 300 and 1,000, taking into account age
2 and risks of treatment.

3 Q. And Dr. Laidlaw, you testified earlier you
4 don't treat gender dysphoria in adolescents; correct?

5 A. That's correct.

6 Q. Dr. Laidlaw, you believe that minors who
7 experience gender dysphoria have a false belief that
8 they are the opposite sex; correct?

9 A. They may have a false belief that they're -- or
10 that they could become the opposite sex.

11 Q. And you believe that minors with gender
12 dysphoria have a delusion and are part of a charade when
13 they live in accordance with their gender identity;
14 correct?

15 A. If they live in accordance with their gender
16 identity, they may be convinced that they can become the
17 opposite sex, which is not medically possible.

18 Q. You believe that minors with gender dysphoria
19 who live in accordance with their gender identity are
20 engaged in a form of impersonation or play acting;
21 correct?

22 A. They may be influenced to it by adults through
23 social transition or hormones to acquire stereotypical
24 mannerisms of the opposite sex, but they can't truly
25 become the opposite sex.

1 MR. SELDIN: Your Honor, if I could just
2 have a brief moment.

3 THE COURT: Uh-huh.

4 MR. SELDIN: Your Honor, we have no
5 further questions. We pass the witness.

6 THE COURT: All right. Any redirect,
7 Mr. Stone?

8 MR. STONE: Yes, just a little bit,
9 Your Honor.

10 THE COURT: Okay.

11 **REDIRECT EXAMINATION**

12 BY MR. STONE:

13 Q. Going back to Figure No. 4, Dr. Laidlaw, what
14 is the significance of a biological female receiving
15 testosterone at the levels that you indicated in the
16 figure?

17 A. There's a reason we have established laboratory
18 what I'm calling reference ranges, so say a normal
19 minimum and a normal maximum. In this case we're
20 talking about testosterone. For some types of things,
21 let's say sodium, to my knowledge you can check that in
22 the lab, and the reference range is similar or nearly
23 identical for males and females, as far as I know. But
24 when you're talking about sex-specific hormones, the
25 ranges are very different, and there's a reason for

1 that, because that person's body is meant to have a
2 certain level of hormone to continue normal function, to
3 develop normally through puberty, and excesses or very
4 low levels of hormones will lead to medical conditions.
5 And so in the female, high levels of testosterone beyond
6 the normal reference range cause a medical condition,
7 endocrine condition, we call hyperandrogenism. And this
8 is being deliberately induced iatrogenically, is the
9 term I would use, through medical treatments for gender
10 dysphoria.

11 Q. Doctor, what is gender identity?

12 MR. SELDIN: Objection, Your Honor.

13 MR. STONE: Your Honor, they opened the
14 door to this with their cross-examination. They
15 specifically read him statements. They asked him about
16 gender identity and his thoughts on --

17 THE COURT: All right, all right,
18 all right.

19 MR. STONE: Okay.

20 THE COURT: Let's just ask him what his
21 opinion is about what gender identity means.

22 MR. STONE: Thank you, Your Honor.

23 Q. (BY MR. STONE) What is your opinion --

24 A. Sure.

25 Q. Go ahead.

1 A. In the DSM-V, which I referenced earlier,
2 gender identity is a social psychological concept
3 distinct from biologic sex, which has to do with a
4 person's internal feeling of being male or female or on
5 a spectrum of male to female or some other gender
6 identity.

7 Q. What is your opinion on whether there's a
8 biological basis for gender identity?

9 MR. SELDIN: Objection, Your Honor.

10 MR. STONE: Your --

11 THE COURT: Hold on. I'll overrule the
12 objection and let him answer if he can.

13 A. The problem with saying there's a biological
14 basis, this is an ongoing area of investigation.
15 They've done some limited studies, for example
16 autopsies, of brains to look for evidence of a gender
17 identity caused by biology that had some limited studies
18 on genetics to look for this. But importantly, there is
19 no brain study, there is no imaging, there is no blood
20 test, there is no chromosome test, there is no genetic
21 test which can definitively show diagnostically the
22 gender identity of a given person. So there is no
23 biological physical method to confirm the gender
24 identity.

25 Q. And I just have I think two more questions.

1 What is -- in your opinion, can biological sex change
2 over time?

3 A. When we say biological sex change over time,
4 what I would say is that, one, there are two -- sex is
5 binary. Physical sex is binary, male and female. A
6 male cannot change into a female or female into a male
7 by current medical technology.

8 Q. And last question: Do you believe that in your
9 opinion that gender identity can change over time?

10 A. Yes, gender identity can change over time.

11 MR. SELDIN: Your Honor --

12 A. This is --

13 MR. SELDIN: -- we would object.

14 THE COURT: Hold on. Let's let the
15 objection get on the record.

16 MR. SELDIN: Your Honor, we would object.
17 This is outside the scope of his testimony on cross and
18 redirect.

19 THE COURT: I'll overrule the objection.
20 Finish your answer, Dr. Laidlaw.

21 A. There's a couple of ways of knowing this. One
22 is what we call the desistance rate. In other words,
23 most --

24 THE COURT: Well, hold on.

25 A. -- children 12 --

1 THE COURT: Hold on. I think you've
2 answered the question. Is there a -- is there a next
3 question?

4 MR. STONE: Sure.

5 Q. (BY MR. STONE) What is the -- why is that your
6 opinion?

7 A. My opinion has to do with the desistant rate
8 and the people who exist who are called detransitioners
9 who once identified with one gender identity and have
10 changed to another.

11 MR. STONE: Pass the witness, Your Honor.

12 THE COURT: All right. Anything further?

13 MR. SELDIN: Your Honor, we have no
14 further questions, but we would move at this time to
15 admit P-26 into evidence.

16 THE COURT: Okay. P-26 was the WPATH
17 society No. 8?

18 MR. SELDIN: Yes.

19 MR. STONE: Your Honor, we object. This
20 is hearsay, and it's not admissible, under 803, I
21 believe, 15.

22 THE COURT: Did you -- but you used it
23 with this witness, Mr. Stone.

24 MR. STONE: I only used it, Your Honor, to
25 refresh his recollection and to show it to him. And

1 it's a -- or a learned treatise or guideline. Under
2 803.15 we can show it to a testifying person, but it
3 doesn't make it admissible. Specifically the rule
4 says -- 803.15 says -- I'm sorry. It's not 15. It's
5 18. 803.18, Statement in a Learned Treatise, Periodical
6 or Pamphlet: A statement in a treatise, periodical, or
7 pamphlet if the statement is called to the attention of
8 an expert witness on cross-examination or relied on by
9 the expert on direct examination and the publication is
10 established as a reliable authority by the expert's
11 admission or testimony, by another expert's testimony,
12 or by judicial notice, then, if admitted, the statement
13 may be read into evidence but is not received as an
14 exhibit.

15 That's what we did. We read portions of
16 it, but that doesn't make the document itself
17 admissible. It's still inadmissible hearsay. It's just
18 that we can read and ask questions from it.

19 THE COURT: A response?

20 MR. SELDIN: Your Honor, he didn't --
21 Mr. Stone did not lay the predicate for 803.15. He may
22 have used the words "refresh your recollection," but
23 there was no forgetting by Dr. Laidlaw in this respect.
24 Further, Dr. Laidlaw has relied upon it. He has
25 authenticated it. He's used it here today.

1 THE COURT: Right. So -- and there's not
2 a jury, so I'm going to overrule the objection and admit
3 P-26.

4 *(Plaintiffs' Exhibit 26 admitted)*

5 THE COURT: Okay. So Mr. Stone, your next
6 witness?

7 MR. ELDRED: It's Dr. Cantor. And we're
8 trying to get him to check in to Zoom.

9 THE COURT: Okay. We'll be on the lookout
10 for that. Dr. Laidlaw, you're welcome to stay put as
11 long as you turn off your microphone. You can also turn
12 off your video if you'd like. It's up to you.

13 MR. STONE: He just emailed us and said he
14 was getting on.

15 THE COURT: Okay. Perfect. I don't know
16 how long you're going to be with this witness or the
17 next one, but I do probably need to break about five
18 minutes to 12:00 just to get downstairs for a meeting.

19 MR. ELDRED: Yes, Your Honor.

20 MS. WOOTEN: Your Honor, while we're
21 waiting, if it's possible to confirm that the people
22 participating via Zoom, in addition to having no one in
23 the room, are not communicating with others via text or
24 otherwise.

25 THE COURT: Sure. I can do that. I don't

1 know -- did Grossman specifically leave us or was
2 that --

3 MS. DYER: Yes, Your Honor. Sorry. I
4 meant to explain. She had a conflict right at 11:00.
5 We thought we were going to get through the prior
6 witness a little bit faster, and so she cannot testify
7 any longer. We informed the plaintiffs.

8 THE COURT: Okay. Thank you very much,
9 Ms. Dyer. Is there anybody in? Oh, there they are.
10 There's Dr. Cantor. Yeah, it looks like Laidlaw is not
11 with us anymore.

12 Good morning, Dr. Cantor. This is the
13 judge. Can you hear me okay?

14 DR. CANTOR: Yes, I can. Thank you.

15 THE COURT: All right.

16 DR. CANTOR: Can you hear me?

17 THE COURT: Yes, I can, very well. Let me
18 just confirm with you that there's no one else present
19 in your room right now. Is that correct?

20 DR. CANTOR: That's correct.

21 THE COURT: And to the extent I guess --
22 the rule's been invoked. You have not communicated with
23 any of the other witnesses in this proceeding, have you?

24 DR. CANTOR: That is correct. I have not.

25 THE COURT: All right. Thank you, sir.

1 All right. Please go ahead.

2 MR. ELDRED: Thank you, Your Honor.

3 Dr. Cantor, I'm Charles Eldred.

4 THE REPORTER: Did you swear him in?

5 THE COURT: Oh, I didn't. I'm so sorry.

6 Dr. Cantor, I need to swear you in, if you'll please
7 raise your right hand.

8 *(Witness sworn)*

9 THE COURT: Thank you. And thank you,
10 Ms. Crain.

11 **JAMES CANTOR,**

12 having been first duly sworn, testified as follows:

13 **DIRECT EXAMINATION**

14 BY MR. ELDRED:

15 Q. All right. Dr. Cantor, I'm Charles Eldred with
16 the Attorney General's Office. I'll be questioning you
17 today on direct examination. Can you please state and
18 spell your name?

19 A. Dr. James, J-a-m-e-s, Cantor, C-a-n-t-o-r.

20 Q. What degrees do you hold?

21 A. I have a bachelor's degree in interdisciplinary
22 science concentrating in mathematics and physics, a
23 master's degree in psychology, and my doctoral degree in
24 clinical psychology with a dissertation in the
25 neurobiology of sexual function.

1 Q. And do you have any postdoctoral follow -- I'm
2 sorry. Do you have any postdoctoral fellowships?

3 A. Yes. I completed a postdoctoral fellowship
4 again in the development of human sexuality at the
5 Center for Addiction and Mental Health here in Canada.

6 Q. Where do you currently work?

7 A. I am currently the director of the Toronto
8 Sexuality Center.

9 Q. What academic appointments have you held?

10 A. I was first appointed as a postdoctoral fellow,
11 then assist professor, then associate professor of
12 medicine at the University of Toronto Medical School.

13 Q. And have you published peer-reviewed articles?

14 A. Yes, I have, somewhat over 50.

15 Q. And what kind of things have they been about?

16 A. Again, primarily the development of human
17 sexuality, concentrating really in the atypical
18 sexualities. They've spanned gender identity, sexual
19 orientation, and a group of atypical sexualities called
20 the paraphilias, which refer to highly atypical
21 interests that pertain to people who are sexually
22 aroused by things that are not just male or female.

23 Q. Okay. Have you ever testified as an expert
24 witness?

25 A. Yes, I have.

1 Q. About how many times and what about?

2 A. Oh, goodness. I've been involved one way or
3 another in about 35 cases. The majority of those have
4 been expert reports. Testimony has been in about half
5 of those. The questions are one way or another about
6 what is known about the science and the development of
7 usually -- of some atypical sexuality of question -- of
8 interest to the Court. Some of those have been about
9 pedophilia, some of those have been about other sexual
10 interests that can motivate sex offenses, and in the
11 past two years or so about the development of gender
12 identity and how to distinguish it from other atypical
13 sexualities.

14 Q. All right. Do you have clinical and scientific
15 expertise?

16 A. Yes, I do. Usually in forensic settings, the
17 typical question is related to malpractice, whether a
18 specific clinician correctly implemented a
19 well-established procedure in clinical science. So in
20 those types of expertise, it's very useful to have
21 somebody else who engages in a similar activity.

22 That's very different, however, from
23 today's proceedings and similar proceedings in other
24 jurisdictions where the question is not whether a
25 specific clinician correctly implemented a policy or

1 procedure. The question is over the validity of that
2 procedure itself that requires a very different kind of
3 expertise where you cannot use other people who engage
4 in that activity because it represents a conflict of
5 interest.

6 Q. All right.

7 A. To use a metaphor, you can't find out if
8 fortunetelling is accurate only by asking other
9 fortunetellers. You need people --

10 Q. Sir --

11 A. -- with expertise --

12 THE COURT: All right. Mr. Cantor, hold
13 on. Your attorney has another question. Hold on.

14 Q. (BY MR. STONE) I'm sorry. We're getting a
15 little bit into the substance of what you're going to
16 talk about, and I'm just trying to get your
17 qualifications right now.

18 A. Oh, sorry.

19 Q. That's okay. I probably asked you a bad
20 question. I meant to ask you this. Have you ever
21 personally treated patients with gender dysphoria?

22 A. Yes, I have.

23 Q. And can you talk about that just a little bit?

24 A. My license spans treating people ages 16 and
25 up, and these have -- such cases have varied between

1 people who have questions about their own gender
2 identity, what their decision is, whether medical
3 transition would be best for them, and people for whom
4 it's already clear and they're undergoing the transition
5 process and need support while doing.

6 Q. And do you have training and experience in
7 evaluating research methodologies?

8 A. Yes, quite a bit.

9 Q. What are the research methodologies and what is
10 your training and experience?

11 MR. GONZALEZ-PAGAN: Objection, compound.

12 A. Well --

13 THE COURT: Hold on, Dr. Cantor. I just
14 want the record to be clear. Do you have an objection?

15 MR. GONZALEZ-PAGAN: Objection, compound.

16 MR. ELDRED: I'll try again then.

17 THE COURT: Sure.

18 Q. (BY MR. ELDRED) Just briefly, generally what
19 are research methodologies?

20 A. Research methods are systematic procedures that
21 we use in order to answer specific questions, such as
22 whether certain features or characteristics cluster
23 together or how to predict outcomes given different
24 types of treatments that we might apply.

25 Q. And do you have training with evaluating

1 research methodologies?

2 A. Yes, I do, quite a bit.

3 Q. What is that training?

4 A. In most of the training programs I've been in,
5 it's actually been integrated into the rest of the
6 training programs, so understanding the full range of
7 what -- of the scientific methods that we can apply in
8 science to answer different kinds of questions. My
9 experience then includes applying that in many different
10 circumstances, for example, evaluating other researchers
11 who submit various manuscripts for publication in
12 peer-reviewed journals and evaluating the proposed
13 methods that a scientist would use when they, for
14 example, apply for granting for the funding in order to
15 perform a series of experiments.

16 Q. Have you ever served on the editorial board of
17 any peer-reviewed journals?

18 A. Yes, several. The most relevant ones are the
19 *Archives of Sexual Behavior* and the *Journal of Sex*
20 *Research*. Oh, I'm sorry. And I've also served as
21 editor-in-chief of *Sexual Abuse*, so I was in charge of
22 the peer-review system for that journal.

23 Q. That's the name of a journal?

24 A. Yes, it is. Actually, the full name of it when
25 I was editor was *Sexual Abuse: A Journal of Research and*

1 *Treatment.* It's since shortened its name. Now it's
2 just called *Sexual Abuse.*

3 Q. Thank you. And you said before you have
4 testified -- have you ever testified as an expert on
5 scientific research relating to the treatment of gender
6 dysphoria in minors?

7 A. Yes, I have.

8 Q. Can you list some of those cases?

9 A. The most recent one was last week in Georgia.
10 The name slips my mind. *Koe vs. Noggle.* The others are
11 listed on my CV.

12 MR. ELDRED: And Your Honor, his CV has
13 been previously admitted as Defendants' Exhibit 5.

14 THE COURT: Thank you.

15 MR. ELDRED: And at this time defendants
16 proffer Dr. Cantor as an expert on the scientific
17 research related to the treatment of gender dysphoria in
18 minors.

19 MR. GONZALEZ-PAGAN: A brief voir dire if
20 I can, Your Honor.

21 THE COURT: Sure. Mr. -- and I'm sorry.

22 MR. GONZALEZ-PAGAN: Gonzalez-Pagan.

23 THE COURT: -- Gonzalez-Pagan is going to
24 have a few questions for you, Dr. Cantor.

25 THE WITNESS: I understand.

VOIR DIRE EXAMINATION

1
2 MR. GONZALEZ-PAGAN:

3 Q. Dr. Cantor, you previously testified in the --
4 here in Texas last year in the *PFLAG v. Abbott* case; is
5 that correct?

6 A. Yes, it is.

7 Q. And in that case you testified that you have
8 not conducted any original scientific research on the
9 efficacy or safety on the medical treatment of gender
10 dysphoria; is that correct?

11 A. I haven't collected data specifically on such a
12 sample, that is correct.

13 Q. And you yourself have not conducted any
14 original scientific research on the safety and efficacy
15 of medical treatment of gender dysphoria in adolescents;
16 is that correct?

17 A. Mostly correct. The data that I have collected
18 myself would be indirectly relevant such as the
19 development of the brain, the development of various
20 facial features over the course of puberty, and the
21 development of sexual orientation, which is highly
22 integrated into the development of gender identity.

23 Q. But my question is: Have you conducted any
24 research regarding the treatment of gender dysphoria in
25 adolescents? Have you?

1 A. Not directly, no.

2 MR. GONZALEZ-PAGAN: Your Honor, we would
3 object to the expert being proffered on the evidence of
4 safety and efficacy provided by the research, but he can
5 speak to research methodologies, which clearly has been
6 established through the voir dire.

7 THE COURT: All right. Mr. Eldred, what I
8 have noted is scientific research related to treatment
9 of gender dysphoria of minors. Is that the subject
10 area?

11 MR. ELDRED: Yes, Your Honor, that's what
12 we offer -- that's what we are proffering him for.

13 THE COURT: And tell me again exactly what
14 you think he can testify about.

15 MR. GONZALEZ-PAGAN: Research
16 methodologies. If he wants to speak to the
17 methodologies used by any study, that would be certainly
18 within the -- we would concede that that would be
19 something within what's been established within the
20 voir dire.

21 THE COURT: As opposed to?

22 MR. GONZALEZ-PAGAN: To what the actual
23 research speaks to with regards to safety and efficacy
24 of treatment of gender dysphoria in minors.

25 THE COURT: Okay. So I understand the

1 distinction. Is there anything further you want to add
2 to that, Mr. Eldred?

3 MR. ELDRED: I don't think the distinction
4 has a difference because he's testifying about what the
5 research says about such things. He's an expert on that
6 kind of a topic.

7 THE COURT: All right. So I'm clear on
8 what I think -- I'm clear, so I'm going to go ahead and
9 allow the designation under the topics as you've stated,
10 Mr. Eldred, and so you can continue your examination.

11 MR. ELDRED: Thank you, Judge.

12 **CONTINUED DIRECT EXAMINATION**

13 BY MR. ELDRED:

14 Q. I want to start by just defining some terms. I
15 want to start with safe and effective. What is safe in
16 a clinical research context?

17 A. Within clinical research, we simultaneous -- to
18 answer any decision-making question, we need to -- we
19 need to assess the risk-to-benefit ratio of any given
20 treatment. We need to know -- or the decision-makers
21 need to know are the risks posed by any particular
22 treatment worth the potential benefits that might come
23 out of that treatment. So we assess safety relative to
24 potential benefit, and we assess benefit relative to the
25 potential safety.

1 So when we discuss safety, we discuss the
2 probable, the necessary, or the potential downsides that
3 would apply either to a person's physical health and
4 well-being or mental health and well-being. The flip
5 side to benefits are how it might improve a person's
6 physical objective functioning or how it might improve a
7 person's subjective account of their own mental health
8 status.

9 Q. And same question for effective. What is
10 effective in a clinical research context?

11 A. Effective would be if we have a reliable
12 indication of improvement in a person's either physical
13 or mental well-being. So there can sometimes be
14 disagreement over what counts as a benefit according to
15 an individual -- individual person's values, but in
16 order to demonstrate that something is effective, we
17 need to be able to show it in some reliable way. That
18 is, we need to be able to know that another treatment
19 provider or policymaker engaging in the same procedures
20 should be able to expect or should reliably expect to
21 get the same outcomes.

22 Q. Okay. I'm going to ask you about something
23 called the pyramid of evidence. Have you ever heard of
24 that?

25 A. Yes, I have.

1 Q. What is that?

2 A. It's ubiquitous really in clinical science and
3 in outcomes research. Not all research studies have the
4 same value. Some are more reliable than others. Some
5 provide results that are more ambiguous than others. So
6 the pyramid of evidence is a hierarchy describing the
7 various levels of evidence going from low-quality
8 evidence that are relatively uncertain or ambiguous up
9 through high-quality evidence that is highly reliable
10 and worth generalizing to other people.

11 MR. ELDRED: Judge, this is Defendants'
12 Exhibit 11. We would like to offer that in evidence,
13 the pyramid. It's a one-page diagram called Pyramid of
14 Standards of Evidence.

15 THE COURT: Any objection?

16 MR. GONZALEZ-PAGAN: Yes, Your Honor.
17 This is a graphic obtained from a random website called
18 OpenMD.com. It is hearsay. It is not authenticated.
19 We would object to it being entered into evidence.

20 THE COURT: Any response, Mr. Eldred?

21 MR. ELDRED: May I ask the doctor one more
22 question about it in response to that?

23 THE COURT: Sure.

24 Q. (BY MR. ELDRED) Doctor, you just heard
25 plaintiffs' counsel object to it that it comes from

1 OpenMD.com. I think I heard you say it's ubiquitous.

2 Can you explain? Go ahead.

3 A. That is correct. It is a standard hierarchy
4 that is ubiquitous throughout clinical science. I
5 picked this particular copy from this particular website
6 because it's not copyrighted. Exactly the same setup is
7 identifiable in any standard research textbook, and I
8 found the same hierarchy on the NIH websites.

9 MR. ELDRED: With that clarification, I'd
10 like to reoffer D-11 into evidence.

11 THE COURT: Any other --

12 MR. GONZALEZ-PAGAN: Your Honor, that
13 offer of proof does not attend to either of the
14 objections. It's both hearsay and it's not
15 authenticated.

16 MR. ELDRED: It's a learned treatise at
17 the very least. We can at least use it as a learned
18 treatise.

19 THE COURT: Well, I think we can use it as
20 a demonstrative.

21 MR. ELDRED: That's -- that -- I'm sorry.
22 That's fine too, Judge.

23 THE COURT: All right. D-11 is not --

24 MR. ELDRED: Do you have a copy of it?

25 THE COURT: It is not admitted. It is a

1 demonstrative.

2 Q. (BY MR. ELDRED) Do you see it on the screen?

3 A. I do see it, but now it started an echo on the
4 audio system.

5 Q. I think we fixed it. I'll try again. Do you
6 see it on the screen now?

7 A. Yes, I do.

8 Q. Great. And is that the pyramid of evidence you
9 were talking about?

10 A. Yes, it is.

11 Q. Okay. So there's a diagonal line on the left
12 side called quality. What is meant by that? Actually,
13 no --

14 A. It --

15 Q. Let me cut you off there. I'm sorry. Let me
16 try this again. Just give us a general picture of what
17 it is we're looking at right now, a big picture.

18 A. These, as I described, are the different types
19 of research methodologies that are available in
20 performing different kinds of systematic studies. The
21 general idea of quality is the reliability of the study;
22 that is, how well can we expect to be able to take the
23 results of the study and expect that somebody else
24 performing the same study would get the same results
25 because, of course, especially within clinical science,

1 the whole point is to be able to take a treatment that
2 was studied by one person and to be able to use that
3 with other people in order to have a good idea of what
4 kind of outcomes to expect.

5 The pyramid shape was chosen for this in
6 order to describe the number of studies that come out.
7 The lower-level studies are very, very common because
8 they are fast to perform and they are inexpensive to
9 perform. So the low-quality studies are very numerous
10 in the research literature exactly because or as a side
11 effect of their being easy to perform, but they're less
12 reliable. The more systematic and the more reliable
13 studies are harder to perform, take more time to
14 perform, and take much more thorough analysis, so there
15 are fewer of them.

16 So again, the shape of the pyramid is
17 meant as a reminder that you can't just take a vote of
18 studies. The high-quality studies are almost by
19 definition rarer than the easier studies which are
20 almost necessarily more numerous. Then at the top of
21 the pyramid are the systematic reviews which review all
22 the other studies beneath it assessing them according to
23 their relative qualities.

24 Q. Okay. And I see on the bottom there's another
25 arrow called information volume. Can you explain how

1 that relates to this diagram?

2 A. That again is a reference to the cheaper and
3 easier-to-conduct studies being more numerous. We can't
4 take a number of studies just as a vote and say
5 something along the lines of more studies show one thing
6 versus another thing because the studies vary in
7 quality, systematically vary in quality. We have to
8 assess them according to their research methods, not
9 according to how many studies found one thing versus how
10 many studies found another thing. As a metaphor, it
11 doesn't matter how many naked eye observations we have
12 once we have a high-powered telescope taking a
13 high-resolution picture.

14 Q. And I think I'm counting six different types of
15 studies in this pyramid. Do I have that right?

16 A. That's in this particular pyramid. Again, I
17 chose it because it didn't enumerate each of the
18 sublayers. There exist many, many more than just six
19 different types of studies. They tend to -- they tend
20 to cluster. And again, this one provided a sufficient
21 level of detail in order to understand the relative
22 qualities of the research studies that have been
23 conducted of the outcomes for transition of minors
24 without going into excessive detail talking about the
25 different kinds of other studies that could have been

1 done but have not been conducted.

2 Q. All right. Thank you. So I also see on the
3 right side of the pyramid is something called unfiltered
4 information and filtered information. Can you explain
5 those?

6 A. Certainly. Unfiltered information are the --
7 I'm sorry. I couldn't see if that meant an objection.
8 I just heard a voice.

9 Q. No. I'm sorry. I don't think there was one.

10 THE COURT: No. It must have just been a
11 little bit of an echo. Sorry about that. Go ahead.

12 A. No problem at all. The unfiltered information
13 are the original actual research studies. In some
14 fields, of course, you know, there are many, many
15 studies with many, many scientists working on them, and
16 they can be producing hundreds of studies, and it's not
17 realistic for somebody to be reading in detail every
18 single one of them. In other fields, they are slow
19 enough and small enough where that is possible.

20 The filtered information is then the
21 systematic method of making sure that somebody has
22 considered all of the relevant original studies. The
23 point of the apex, the systematic review, is to avoid
24 bias when somebody is trying to assess the other
25 studies. Especially in large fields when there are many

1 studies, there are opportunities for bias such as
2 cherry-picking, picking studies that come to one
3 conclusion but avoiding or ignoring the studies that
4 come -- that came to another conclusion. So the
5 filtered information are the systematic ways of making
6 sure that somebody has considered all of the relevant
7 original base unfiltered information.

8 Q. Okay. Let's start at the bottom. What is
9 background information and expert opinion?

10 A. Those would be the hunches that the experts have,
11 the ideas, the hypotheses that experts come up with as
12 we're beginning to ask a question about any particular
13 research program. They're valuable because a person can
14 consider other kinds of research, analogous research in
15 related fields that give us an idea of what questions to
16 ask and what we might expect. But that's not yet at all
17 reliable because they're still only hypotheses and
18 guesses. Nobody's yet tested that kind of information.
19 Nobody's yet tried to verify whether those hunches or
20 hypotheses, which are often contradictory -- nobody's
21 yet tried testing if they're correct.

22 Q. Just for clarification, the expert opinion on
23 this chart is different than the expert opinion you're
24 offering now; is that true?

25 A. That is correct. Expert opinion in the legal

1 context is different from expert opinion within the
2 specifically scientific context.

3 Q. All right. So moving up to the next level, I
4 see case series and reports. What are those?

5 A. The case series and reports are generally
6 retrospective. It's when somebody wants an idea of what
7 kind of treatments might produce what kind of outcomes,
8 but it's not yet systematic. These, as I say, are
9 generally retrospective studies where somebody would go
10 through hospital records, for example, pull out cases of
11 specific diagnoses and see what happened amongst those
12 people. It gives -- it can give some idea of what to
13 expect if nothing is done, but because these are not
14 systematic, they're not yet ready for any kind of
15 generalization to other cases. We can't yet know if
16 there's some systematic bias such as people who go to
17 the hospital versus don't go to the hospital, so we have
18 a record of them versus don't have a record of them.

19 Q. Okay. The next level up is called
20 case-controlled studies. What does that signify?

21 A. Case-controlled studies are another type of
22 observational study. It's not an experiment where the
23 scientist has systematically assigned people to groups
24 to see what would happen. These would be people where
25 we get somebody with a particular condition and want to

1 compare them to people without that condition. So we
2 wouldn't be randomly assigning them. We would just be
3 comparing, you know, people, for example, who had smoked
4 with a group of people who have not smoked, but we
5 didn't assign who the smokers were and not. We're just
6 looking for patterns of what happens in different groups
7 of people or what makes different groups of people
8 different from each other. So we would look for -- I
9 guess I'll say the reverse of my prior example, if we
10 looked at people who developed lung cancer and looked
11 for features that they had in common with each other and
12 compared them with people who didn't develop lung cancer
13 and see how they were different from the people who did.

14 Q. Okay. How about cohort studies, the next level
15 up? What are those?

16 A. In cohort studies, we're now checking on a
17 single group of people but over time. We're looking to
18 see what happened, for example, before or after they
19 were exposed to a treatment or exposed to some not just
20 substance. So instead of just taking a look at them at
21 one point in time, we're taking the same group of people
22 and looking at them over several groups of time. So
23 it's another type of observational study that also gives
24 us correlational data but gives us an idea of what
25 changes over whatever period of time the study was.

1 Q. And above that I see randomized controlled
2 tests. What is that?

3 A. The RCTs, that's now -- we've now graduated
4 above the observational studies and now we're talking
5 the actual experimental studies. The experimental
6 studies and the randomized controlled trials are the
7 ones where we take a group of people, randomly assign
8 which ones are going to receive the experimental
9 treatment and which ones are going to receive either no
10 treatment or some other comparison treatment such as
11 treatment as usual, a placebo treatment, or some
12 other -- some other intervention. It's because we have
13 randomly assigned people to which groups they are we are
14 now able to decide -- or now able to conclude whether
15 the treatment we're talking about has caused the actual
16 effect.

17 In observational studies we only get
18 correlational data. We know what clusters with what,
19 but interpreting observational studies is necessarily
20 ambiguous. There's always more than one thing that can
21 explain why a correlation happened.

22 When we're randomizing the groups that
23 people are in in these experimental studies, including
24 the RCTs, we can now conclude that the treatment that we
25 gave is what caused whatever treatments, positive or

1 negative, in those specific people. So this, as I say,
2 is what gives us experimental data. This is the actual
3 test that can tell us -- that can differentiate for us
4 when the treatment is still near the experimental or has
5 been successfully passed by the experimental process.

6 Q. And at the very top -- I think you may have
7 talked a little bit about this already. What are
8 systematic reviews and meta-an -- analys- --
9 meta-analyses?

10 A. Meta-analyses.

11 Q. Sorry.

12 A. No problem at all. That wouldn't be the first
13 time that I too trip over some of the technical words.

14 The systematic reviews are again a way to
15 analyze all of the studies and all of the layers that
16 were beneath it. Again, especially in large fields with
17 many people, there are many, many studies, and
18 especially for very busy clinicians, it's not possible
19 to read and integrate every single one. So the purpose
20 of systematic reviews is to get the big picture of what
21 all of the other studies have shown, but as I say, to do
22 it in a systematic way that removes the potential for
23 bias. The biggest bias, as I mentioned, was
24 cherry-picking where people pick out the positive
25 studies but don't mention the studies where the

1 experiment failed.

2 Similarly, the other big bias that can
3 happen is when somebody looks at only part of a study or
4 only mentions -- holds different studies to a different
5 standard according to whether a person likes the
6 results, that is, holding the bar higher or lower
7 according to whether the conclusion of that study agreed
8 or disagreed with the scientist. So the process of a
9 systematic review is to make sure that all studies are
10 included, not just cherry-picking, and to make sure that
11 all studies are assessed, you know, with the same
12 criteria rather than, as I described, raising and
13 lowering the bar according to whether one likes the
14 studies.

15 The only difference between a systematic
16 review and a meta-analysis is that we would use a
17 meta-analysis when we are looking for a particular
18 number as the outcome, for example, what the optimal
19 dose of a drug might be, and it could be high, it could
20 be low, it could be somewhere in between. And a
21 systematic review is the same basic process, but that's
22 what we use for yes and no kinds of questions, does the
23 treatment work at all or not.

24 Q. And just briefly summarizing this, a systematic
25 review is of higher quality than the studies below it on

1 the chart; is that correct?

2 A. That is correct. It's a study, again, that it
3 doesn't collect its own data; it summarizes and gives us
4 a big picture of what all of the data ever reported has
5 in as unbiased a means as we have available.

6 Q. All right. What are surveys?

7 A. A survey -- and these days surveys are very,
8 very common because it's so easy to conduct a survey,
9 for example, on the Internet. Surveys can, you know,
10 help us give, you know -- help us produce hypotheses,
11 can help give us ideas, but they don't represent
12 evidence at all. Surveys don't appear on the pyramid of
13 evidence at all. As I say, they can give us a good idea
14 of questions to look at, but they don't represent any
15 kind of outcomes evidence.

16 Q. And did you review the declarations submitted
17 by the plaintiffs' experts in this case?

18 A. Yes, I did.

19 Q. Where would you say they fall on the pyramid of
20 evidence?

21 A. There were some mentions of some of the cohort
22 studies that exist, but the great majority of the
23 studies that were referred to were surveys.

24 Q. And surveys are not on the pyramid of evidence;
25 is that true?

1 A. That is correct. They don't count as medical
2 evidence, they don't count as outcome evidence, but the
3 conclusions of the experts depended largely on what
4 doesn't count as evidence. Anybody can take a survey if
5 they want to or not. In many of these surveys, they can
6 take the same survey over and over again. The purpose
7 of everything that's on the pyramid of evidence is that
8 it's systematic. And just a general survey over the
9 Internet of anybody who wants to take it, they have no
10 regular diagnosis, none of the facts on it are checked,
11 just doesn't count as systematic evidence at all.

12 Q. So it has uses, but it's not evidence. Is that
13 a fair -- a fair summary of surveying?

14 A. Yes, it is.

15 Q. And are you aware -- have there been surveys
16 conducted on the safety and efficacy of medical
17 interventions used on minors for the treatment of gender
18 dysphoria?

19 A. There have been claims of safety and
20 effectiveness that are based on -- based on survey --
21 based on surveys, but again, I wouldn't exactly call
22 them evidence because it's so easy for advocates or
23 people with one or another political persuasion to be
24 able to affect a survey. If, for example, one
25 advertised a survey on an Internet site or website or a

1 listserv of people -- a discussion group of a particular
2 mindset or of a particular bent, well, then the results
3 of the survey are going to reflect the people, you know,
4 with that -- with that bias. So if somebody just says
5 that I drank this kind of tea and I felt better
6 afterwards, therefore this tea is the cure for whatever
7 it is the person thought was wrong with them, well,
8 that's good for that person, but that just doesn't count
9 as medical evidence.

10 Q. It could be the start of a process for getting
11 to medical evidence about that, but it's not medical
12 evidence itself; is that true?

13 A. That's correct. If there are large groups of
14 people claiming that a nutritional supplement or a tea
15 or anything else helps them, it's worth investigating.
16 If there are people who tried several different things
17 and started reporting an effect, it's worth then
18 subjecting to systematic scrutiny, but it by itself
19 doesn't consist of a systematic piece of evidence.

20 Q. Let's move up the pyramid. Have there been any
21 case series and reports conducted on the safety and
22 efficacy of medical interventions used on minors for the
23 treatment of gender dysphoria?

24 A. Yes, there have been a handful published over
25 the years. But again, they generally came out with

1 ambiguous -- with ambiguous results but results that,
2 again, suggested that it was at least worth looking at
3 more systematically.

4 Q. Okay. Same question for case-controlled
5 studies. Have there been any case-controlled studies
6 conducted on the safety and efficacy of medical
7 intervention used on minors for the treatment of gender
8 dysphoria?

9 A. I am aware of one where people undergoing
10 transition were compared to people who didn't qualify
11 undergoing medical transition. That was a particularly
12 low-quality study because we can't tell, you know, what
13 changes, you know, what improvements and, you know, what
14 got worse amongst these people. We can't tell what was
15 attributable to the treatment itself and what's
16 attributable to the fact that the comparison group were
17 people who didn't qualify for transition. They were in
18 a poor mental health status to begin with.

19 THE COURT: Ms. Dyer, can you stop your
20 share screen? I just want to be able to see it larger.
21 Thank you. Sorry about that.

22 MR. ELDRED: No problem, Judge.

23 Q. (BY MR. ELDRED) The next level up is cohort
24 studies. Have there been any cohort studies conducted
25 on the safety and efficacy of medical interventions to

1 minors for the treatment of gender dysphoria?

2 A. Yes. There have been exactly 13, and these are
3 the 13 that I summarize in my own report. This is the
4 highest level study that so far has been conducted at
5 all for the medical transition of minors.

6 Q. And what's your summary of the 13?

7 A. There have been --

8 MR. GONZALEZ-PAGAN: Objection, calls
9 for --

10 A. -- roughly three clusters --

11 THE COURT: Hold on.

12 A. -- of results.

13 THE COURT: Hold on, Dr. Cantor.

14 A. There have been roughly four studies --

15 THE COURT: Hold on, Dr. Cantor. Hold on.
16 Hold on. What's the objection for the record?

17 MR. GONZALEZ-PAGAN: Objection,
18 Your Honor, calls for a narrative.

19 THE COURT: Well, let's go to a question.
20 I guess it does call for a narrative, Mr. Eldred. If
21 you can just rephrase and have him break it down.

22 MR. ELDRED: Sure.

23 Q. (BY MR. ELDRED) Can you break down what the 13
24 cohort studies showed about the safety and efficacy of
25 medical interventions used on minors for the treatment

1 of gender dysphoria?

2 A. Certainly. I outline such a breakdown as I
3 describe them in my report. There were four of them
4 which showed essentially no improvement at all. The
5 medical transition did not demonstrate any benefits to
6 the mental health status of the kids.

7 In another group, roughly half of the
8 studies, roughly six of them, there were some
9 improvements in some mental health parameters, but we
10 can't conclude that it was the intervention, that it was
11 the medical interventions itself that caused the
12 improvement because the people were getting
13 psychotherapy at the same time. That's what we call a
14 confound, because they were getting two kinds of
15 treatments, both medical treatment and mental health
16 treatment, at the same time. For the people who showed
17 benefits, we don't know if it was the medicalized
18 transition that caused the benefit or if it was that
19 they were in psychotherapy that produced the mental
20 health benefit.

21 And then there were two studies which were
22 designed in a way that allowed more direct comparison
23 trying to allocate how much of the improvement was due
24 to the medical interventions versus how much of the
25 improvement was due to the mental health interventions.

1 And both of those demonstrate -- and both of those
2 failed to demonstrate that the medical interventions
3 produced any more benefit than did the mental health --
4 the psychotherapeutic interventions.

5 Q. And are there any randomized --

6 A. Oh, I'm sorry. I left one out. And there was
7 one other very recent study that just did not indicate
8 whether the people were in psychotherapy at the same
9 time, so the results -- we can't assess whether the
10 medical interventions were superior because we don't
11 know how many were getting psychotherapy at the same
12 time.

13 Q. Thank you. Are there any randomized controlled
14 trials -- I'm sorry -- randomized controlled studies
15 conducted on the safety and efficacy of medical
16 intervention used on minors for the treatment of gender
17 dysphoria?

18 A. No. It's never been tried yet.

19 Q. Same question for systematic reviews.

20 A. There have now been several systematic reviews,
21 none conducted in the U.S. They've all been conducted
22 by the national public healthcare systems in Europe.

23 Q. And what do those --

24 A. I'm sorry. Again --

25 Q. Go ahead.

1 A. They've all been conducted by the national
2 healthcare systems in Europe, but they have not yet been
3 conducted by any groups in the U.S.

4 Q. And what do they show?

5 A. They all showed exactly the same thing, which,
6 again, is the purpose of a systematic review. The idea
7 of doing it systematically is that anybody engaging in
8 such a review should come out with the same result, and
9 these did. And they said essentially what I just did,
10 that there is no evidence to suggest that medicalized
11 interventions provides any benefits superior to the
12 mental health interventions.

13 Q. All right. I want to switch topics a little
14 bit. Oh, sorry. So can you summarize what the studies
15 show about the safety and efficacy of medical
16 interventions used on minors for the treatment of gender
17 dysphoria?

18 A. The safety issues are the well-reported -- are
19 relatively well-reported because they're objective and
20 they're physical. For example, one of the largest
21 downsides, one of the largest risks of medical
22 intervention is the sterility of the child. When a
23 child is subjected to puberty-suppressing drugs, what we
24 used to call chemical castration, when they go from a
25 pre-pubescent physical state and are then exposed to

1 cross-sex hormones, they are sterilized. That is,
2 of course, you know, the -- I hate to call it a risk to
3 safety because the outcomes are so definite. And the
4 others include problems in bone development, bone
5 health, as well as --

6 MR. GONZALEZ-PAGAN: Your Honor --

7 A. -- there are some indications of --

8 MR. GONZALEZ-PAGAN: -- I'm going to
9 object at this point.

10 A. -- changes in development.

11 THE COURT: Okay. Hold on.

12 A. It's because we have --

13 THE COURT: Hold on, Dr. Cantor.

14 MR. GONZALEZ-PAGAN: This is beyond the
15 scope. He is now talking about risks and benefits of
16 treatment, and he's here to talk about just --

17 THE COURT: We need to --

18 MR. GONZALEZ-PAGAN: -- the research.

19 THE COURT: We need to stick to the
20 systematic review.

21 Q. (BY MR. ELDRED) And I may have asked the
22 question poorly, Your Honor -- Doctor. Based on the
23 research that you've looked at, can you summarize any
24 conclusions about the safety and efficacy of medical
25 interventions used on minors for the treatment of gender

1 dysphoria?

2 A. Each of the systematic reviews came to the same
3 conclusion, that the evidence for benefits are
4 outweighed by the evidence of the risks of harm.

5 Q. Did McMaster University in Canada do a
6 systematic review?

7 A. I'm aware of some people from McMaster
8 University having conducted one at the request of a
9 hearing in Florida. I was tangentially involved, and I
10 also submitted a report at that same hearing, but I
11 wasn't otherwise involved in the rest of the hearing or
12 in that review. McMaster University itself is
13 significant because it is essentially home to
14 evidence-based medicine and the process for conducting
15 systematic reviews.

16 Q. All right. I'd like to move on to another
17 topic. According to the research that you reviewed, are
18 there different types of gender dysphoria?

19 A. Yes, there are.

20 Q. What are those types?

21 A. It's been well known really for almost -- over
22 a century at this point that more than one thing can
23 lead a person to feeling gender dysphoric. It's not
24 simply a -- it's unlike sexual orientation where
25 somebody is just attracted to men or women and the

1 subtypes are just different ways in which a person likes
2 to have sex.

3 Gender dysphoria is a symptom, and it can
4 result from any -- more than one different situations.
5 The best metaphor I have would be if somebody comes
6 in -- a patient comes in complaining of a headache. We
7 don't immediately diagnose the person with headache
8 disorder and send them to headache treatment. We find
9 out what causes the headache. It could be a migraine.
10 It could be a head injury. It could be an aneurysm. It
11 could be a brain tumor. What we do is according to what
12 causes the symptom we're observing.

13 With gender dysphoria, the major types
14 that have been well known for decades are -- we nickname
15 according to -- we nickname them or we classify them
16 according to when in life they kick in, either a
17 childhood onset gender dysphoria or adult onset gender
18 dysphoria.

19 The adult onset gender dysphoria almost
20 always are in men. There are virtually no cases of
21 biological females reporting adult onset gender
22 dysphoria. These are men who are attracted to women.
23 They refer to themselves as heterosexual. They're
24 unremarkable and fade into the background. They seem
25 heterosexual. But usually by middle age, you know,

1 they've decided that they've lived a heterosexual life
2 and that it's just not working for them. They
3 experience a sexual interest pattern that we call
4 autoandrophilia where they actually experience sexual
5 arousal to the image of themselves as female. For some
6 people it's just a kink and part of their sex life and
7 they're perfectly happy and healthy that way, but for
8 some people, just cross-dressing, just looking female in
9 the mirror isn't enough and they actually want to live
10 their life 24/7 as female. And the research shows if
11 they're otherwise mentally healthy, they do perfectly
12 fine having transitioned.

13 Q. I'm going to cut you off because this case is
14 about minors. So can you talk about --

15 A. And that's -- yeah. That's the other type.

16 Q. Yes.

17 A. I detail the adults really in order to
18 demonstrate the level of contrast between the two.

19 Q. Okay.

20 A. The childhood onset are kids who feel like
21 they're the opposite sex pretty much from the get-go.
22 They start reporting it prepubertally really since
23 childhood. The majority are still biologically male,
24 roughly three-quartersish, but there is a substantial
25 portion of them who are biologically female.

1 In those cohort studies -- there have been
2 11 of them -- the majority of them, you know,
3 three-quarters of them, 80 percent of them, stop feeling
4 gender dysphoric by puberty. Instead, when puberty
5 kicks in and they start experiencing sexual arousal and
6 sexual interest patterns, they realize instead they were
7 gay or lesbian. They were either effeminate boys. They
8 were tomboyish girls. But when puberty hits and they
9 start developing attractions and developing crushes on
10 other people, they realize that what made them feel like
11 not a regular boy or not a regular girl was just an
12 early manifestation of what will be their sexual --
13 their sexual orientation. In a minority of them, as I
14 say, roughly 20 percent, the feeling of gender dysphoria
15 does not go away.

16 Since -- in the past ten years or so,
17 really coinciding almost identically with the advent of
18 social media, a third group has started coming to
19 clinics, and these are completely unlike either of the
20 first two clinics. They do not report childhood gender
21 dysphoria like the childhood onset types. They're
22 majority female, and they have a completely different
23 mental health pattern, again, unlike the other two
24 groups. This is the group who now is the large, large
25 majority of people coming into clinics saying that they

1 feel unhappy with their gender and want to live in some
2 other way. Also unlike the other two types, they're
3 very frequently picking some neologism or some ambiguous
4 status such as being fluid or non-binary, unlike the
5 other two groups.

6 So where we have outcome studies on the
7 childhood onset type and we have outcome studies on the
8 adult onset type, we have absolutely no data, we have no
9 outcome studies on this -- what I'll call the adolescent
10 onset type even though they are now suddenly the large
11 majority of people coming into clinics.

12 Q. All right. Thank you. What is -- what does
13 desist mean in this field?

14 A. We use that word to refer -- originally we used
15 that word to refer to the child onset cases who ceased
16 to feel gender dysphoric over the course of puberty. As
17 I said, the majority of them, 80 percentish, cease to
18 feel gender dysphoric. We refer to them as the
19 desisters. And the minority of them who continued to
20 feel gender dysphoric during and after puberty we refer
21 to as the persisters.

22 Q. Does desist have a meaning with adolescent
23 onset -- I'm trying to -- adolescent onset gender
24 dysphoria?

25 A. Gender dysphoria. It seems to, but it's much

1 more ambiguous. As I say, we don't have any systematic
2 studies following up the adolescent onset type, so it's
3 tough to tell.

4 The cases that have come to attention are
5 the people -- the adolescent onset cases who have
6 started medicalized transition realized or decided that
7 it was a mistake and so they stopped or tried to reverse
8 the medicalized procedures they underwent. It's
9 perfectly reasonable to refer to them as desisters
10 because they're reporting that they no longer feel
11 gender dysphoric. The other term that is used very
12 commonly with them are detransitioners. Some people,
13 you know, choose one term or the other because sometimes
14 it's just the feelings that change, and for some people
15 there's been a medical process that they're trying to
16 reverse. And people use those words sometimes very
17 ambiguously, and it's tough to tell who should really be
18 called a desister --

19 MR. GONZALEZ-PAGAN: Your Honor --

20 A. -- versus who should be called a
21 detransitioner, but both are definitely on the table and
22 both are in play.

23 MR. ELDRED: Stop for a second.

24 THE COURT: Hold on.

25 MR. GONZALEZ-PAGAN: Your Honor, at this

1 point I would object to this line of inquiry. It is
2 beyond the scope of what he was qualified for. He was
3 qualified to speak about the research regarding the
4 safety and efficacy of the treatment of gender
5 dysphoria.

6 THE COURT: Treatment of gender dysphoria
7 in minors. Scientific research related to treatment of
8 gender dysphoria of minors. And --

9 MR. GONZALEZ-PAGAN: He's now speaking
10 about different types of gender dysphoria, the
11 desistance and what is desistance. This is beyond
12 safety and efficacy of treatment.

13 THE COURT: Well, but safety and efficacy
14 wasn't the specific --

15 MR. GONZALEZ-PAGAN: It's beyond the word
16 treatment.

17 THE COURT: Well, I'm going to overrule
18 the objection. I think -- but ask him a next question,
19 Mr. Eldred.

20 MR. ELDRED: We're almost done with this
21 topic.

22 THE COURT: Okay.

23 MR. ELDRED: And I'll try to ask the
24 questions better.

25 Q. (BY MR. ELDRED) What's the scientific research

1 say about the predictability of who will detransition or
2 desist?

3 A. That we can't do it with any kind of accuracy.
4 Several studies have attempted to, but other than some
5 small correlations, nobody's yet been able to identify a
6 reliable method of which people will persist and which
7 people will desist.

8 Q. Okay. Some of these studies about gender
9 dysphoria, do any of them talk about suicide and
10 suicidality?

11 A. Yes. That's been attempted to be measured in
12 very many of these studies, again, primarily the survey
13 studies.

14 Q. What's the difference --

15 A. The --

16 Q. -- between the two --

17 THE REPORTER: I couldn't hear.

18 A. The common misunderstanding --

19 THE COURT: Hold on. Hold on. Hold on,
20 Dr. Cantor. We're talking over each other.

21 Mr. Eldred, if you'll go ahead and restate
22 your question.

23 Q. (BY MR. ELDRED) Yeah. I'm sorry. I tried to
24 cut you off on Zoom, which is sometimes hard to do.

25 What's the difference between --

1 A. I can see the waving, but the picture I'm
2 seeing everybody in is small.

3 Q. Yeah. I'm sorry. When I wave my hand, I'm
4 trying to get you to stop.

5 What's the difference between suicide and
6 suicidality?

7 MR. GONZALEZ-PAGAN: Objection,
8 Your Honor, beyond the scope.

9 THE COURT: Well, I think the question was
10 what the research indicated with respect to suicide and
11 suicidality, but I guess if you'll phrase a next
12 question.

13 MR. ELDRED: Sure.

14 Q. (BY MR. ELDRED) From your research of -- you
15 already said that some of the research discusses suicide
16 and suicidality. Is that true?

17 A. That is correct.

18 Q. And what does the research say about the
19 difference between those two terms?

20 A. They are independent phenomena. Suicidality
21 is -- suicide refers to actual death and an actual
22 intent to die. The great majority -- this is well known
23 in psychology. The great majority of suicides are
24 impulsive, mostly in biological males, and mostly
25 middle-aged. Suicidality --

1 MR. GONZALEZ-PAGAN: Your Honor --

2 A. -- refers to suicidal ideation --

3 MR. GONZALEZ-PAGAN: -- again, beyond the
4 scope.

5 THE COURT: Hold on. Hold on. State your
6 objection.

7 MR. GONZALEZ-PAGAN: He's speaking now
8 about research about middle-aged men and suicidality.

9 THE COURT: I agree, it's probably a
10 little bit more than we need, but I'm going to overrule
11 the objection. And just try and ask a more specific
12 question, Mr. Eldred.

13 Q. (BY MR. ELDRED) Okay. What is suicidality
14 related to gender dysphoria in minors?

15 A. Suicidality --

16 Q. According to scientific research -- I
17 apologize.

18 THE REPORTER: I didn't hear the end.

19 A. Suicidality, unlike suicide, is --

20 THE COURT: Hold on. Sorry, Dr. Cantor.

21 THE WITNESS: That's no problem.

22 THE REPORTER: Start over.

23 MR. ELDRED: It's my fault. I've been
24 stopping and starting. I will try to ask the question
25 again.

1 Q. (BY MR. ELDRED) The scientific research that
2 you've described and study about gender dysphoria, as
3 you stated, discusses suicidality. And what does it say
4 about suicidality, what it is, and what else does it say
5 about it?

6 A. The studies have pertained to suicidality and
7 not suicide. It would be a mistake to generalize the
8 studies that have been conducted to say something about
9 suicide. They don't. They refer to people with, for
10 example, suicide ide- -- suicidal ideation. Suicidality
11 is not just a -- is not a preliminary form of suicide.
12 It's generally a sign of psychological distress and a
13 cry for help. That's been widely studied and widely
14 reported amongst minors, especially the adolescent onset
15 gender dysphoria, but it does not pose the great
16 potential for death the way that it's often discussed in
17 the media. It's a serious condition and it merits
18 mental health treatment, but it is not the -- it does
19 not imply if you don't give the person what they're
20 asking for they will kill themselves. That's not shown
21 by the research. As I say, it's a sign and it's an
22 indicator of profound and substantial psychological
23 distress, but the -- but it indicates that the person is
24 in need of psychotherapy for dealing with that distress
25 itself.

1 MR. ELDRED: Judge, may I have one moment
2 to consult with my co-counsel?

3 THE COURT: Certainly.

4 MR. ELDRED: All right, Judge. We're
5 ready for some more questions.

6 THE COURT: Go ahead.

7 Q. (BY MR. ELDRED) I'm going to switch gears a
8 little bit. From your knowledge of studying standards
9 of evidence and methodologies, what is an established
10 treatment?

11 A. That's a good question. It's really -- that
12 would be more of a subjective account of the
13 particular --

14 MR. GONZALEZ-PAGAN: Objection,
15 Your Honor. Dr. Cantor --

16 A. -- scientists that --

17 THE COURT: Hold on. Hold on, Dr. Cantor.
18 What's the objection?

19 MR. GONZALEZ-PAGAN: Again, beyond the
20 scope. This is beyond the scope of speaking to
21 treatment of gender dysphoria in minors. He's now
22 speaking to standard of care and how to establish one.

23 THE COURT: If you can ask a more specific
24 question, Mr. Eldred.

25 MR. ELDRED: Sure. I'll try.

1 Q. (BY MR. ELDRED) In the research you've been
2 talking about, do they -- do the studies talk about
3 established treatment of gender dysphoria in minors?

4 A. The studies themselves don't determine what's
5 established versus not. Whether a study is established
6 usually would be handled subjectively by a committee
7 that's evaluating the entire body of research, including
8 its safety and its efficacy.

9 Q. And the same question: Do these studies talk
10 about experimental treatments of gender dysphoria in
11 minors?

12 A. They would if any existed, but there have not
13 yet been any studies of the RCT or at the experimental
14 level.

15 Q. Is medical intervention for the treatment of
16 dysphoria in minors an experimental treatment?

17 A. Yes, it is. It has not yet been tested with
18 experimental studies, so it's necessarily still within
19 the experimental status.

20 Q. All right. We're almost done. Have you
21 assessed the clinical guidelines put out by WPATH?

22 A. Yes, I have.

23 MR. GONZALEZ-PAGAN: Objection,
24 Your Honor. He's speaking to the research, not to the
25 standard of care guidelines.

1 THE COURT: A response?

2 MR. ELDRED: Judge, I'll try to ask a
3 better question.

4 THE COURT: Okay.

5 MR. ELDRED: One moment, please. Sorry.

6 THE COURT: No worries.

7 MR. ELDRED: Thank you.

8 Q. (BY MR. ELDRED) Do the research studies that
9 you have looked at and have been talking about, do they
10 study -- do they support the conclusions reached by
11 WPATH about the treatment of gender dysphoria in minors?

12 A. When taken as a whole, no, they do not. The
13 contents of the WPATH guidelines engaged very much in
14 the cherry-picking that the systematic review process
15 was designed to prevent.

16 Q. How about the same question for the Endocrine
17 Society?

18 A. Similarly. The Endocrine Society conducted --
19 I hesitate to call it a systematic review. The review
20 consisted of exactly one study, and the study that they
21 reviewed was not at all about the safety of puberty
22 blockers.

23 MR. ELDRED: And I will pass the witness.

24 THE COURT: All right. Given the time,
25 I'm going to go ahead and take our lunch break at this

1 point, and we can expect to return at 1:30. Dr. Cantor,
2 we'll be on break for about an hour and a half, just
3 over that, so you're welcome to -- I'd probably stay
4 signed into the Zoom, maybe just turn off your camera
5 and your microphone during our lunch break.

6 THE WITNESS: Oh, I'm sorry. I forgot the
7 time zone. You said 1:30, so to me that'll be 2:30.

8 THE COURT: I believe so. I'm not sure
9 exactly where you are.

10 THE WITNESS: I'm sorry. I'm in Toronto,
11 which is Eastern Standard Time.

12 THE COURT: So about an hour and a half.

13 THE WITNESS: Yep.

14 THE COURT: All right.

15 MR. STONE: I just wanted to check that
16 Dr. Cantor would be available. When we talked to him
17 earlier, we thought that we'd be done by lunch.
18 Dr. Cantor, will you still -- will you be able to come
19 back?

20 THE WITNESS: Yes.

21 MR. GONZALEZ-PAGAN: Well --

22 THE COURT: Yeah, he kind of has to.
23 Sorry. Sorry. So yes, so we'll be on break until 1:30.
24 And again, you're welcome to turn off your microphone
25 and your camera during that time, okay?

1 THE WITNESS: Understood.

2 THE COURT: Thank you. All right. We're
3 excused for lunch. I'll be back at 1:30. Thank you.

4 *(Lunch recess taken)*

5 THE COURT: Dr. Cantor, are you ready to
6 proceed?

7 THE WITNESS: Yes, I am.

8 THE COURT: All right. To the extent we
9 have anybody new in the gallery, just a reminder no
10 recording, broadcasting, or any photography.

11 And so, Mr. Gonzalez-Pagan, it's your
12 turn.

13 MR. GONZALEZ-PAGAN: Thank you,
14 Your Honor. And if it's okay, I'll move over there.

15 THE COURT: Yes. That'll be fine. And
16 actually, let me -- well, I think he can still see you
17 on that camera.

18 MR. GONZALEZ-PAGAN: I'm in the corner.

19 THE COURT: All right. Go ahead.

20 **CROSS-EXAMINATION**

21 BY MR. GONZALEZ-PAGAN:

22 Q. Good afternoon, Dr. Cantor.

23 A. Good afternoon.

24 Q. Dr. Cantor, you have never diagnosed a child or
25 adolescent with gender dysphoria; is that correct?

1 A. Not child, but adolescents, yes.

2 Q. You testified at a hearing in Alabama; is that
3 right?

4 A. That's correct.

5 Q. At that hearing you testified -- when asked
6 have you -- you have never diagnosed a child or an
7 adolescent with gender dysphoria, you said no.

8 A. I don't recall the question specifically, but
9 what I'm pointing out is the distinction between child,
10 meaning prepubescent, versus adolescent teenager,
11 teenagehood. As I said, my license permits a diagnosis
12 of ages 16 and up. I don't remember the context around
13 that particular question.

14 Q. That's all right.

15 A. If they --

16 Q. There's no need to -- I have limited time, so I
17 appreciate the answer.

18 So then you would -- you would agree then
19 that you have never treated or diagnosed a child or
20 adolescent under 16 for gender dysphoria?

21 A. Correct.

22 Q. In your testimony earlier today, you discuss
23 instances in which you have purportedly served as an
24 expert; is that right?

25 A. Correct.

1 Q. You have never testified in a trial relating to
2 the treatment of gender dysphoria in minors; is that
3 correct?

4 A. I don't believe any of those cases have yet
5 gotten to the trial phase. The most advanced would be
6 the --

7 Q. A simple no is fine. You have testified at
8 only three hearings, one in Alabama, one in Georgia last
9 week, and one in Texas last year; is that right?

10 A. I would have to check my notes to be sure, but
11 that sounds about right.

12 Q. And the Court in Alabama found that your
13 testimony should be given very little weight; is that
14 correct?

15 A. I don't remember the details of the finding. I
16 think I was the only expert actually mentioned at all.
17 I can't speak to the judge's frame of mind, but it was
18 essentially me versus the entire medical establishment,
19 and the judge's comments were why he -- he needed to say
20 something about me in order to say why he was finding
21 essentially for the medical establishment. I don't
22 believe he said anything specifically about my
23 credibility.

24 Q. Understood. Notwithstanding your interest and
25 concern relating to medical treatment for gender

1 dysphoria in minors, you have not sought to conduct any
2 original research in this area; is that correct?

3 A. I haven't -- not in the sense that I collected
4 data on them directly, that's correct.

5 Q. And you have not sought to conduct and publish
6 a systematic review of the evidence pertaining to the
7 treatment of gender dysphoria; is that right?

8 A. Almost. What I have done -- not systematically
9 in the sense of a systematic review, but what I have
10 done exhaustively is to evaluate, for example, the --

11 Q. I understand, Dr. Cantor.

12 A. -- American Academy --

13 Q. I just want to speak to the question that's
14 asked.

15 MR. ELDRED: Objection.

16 THE COURT: Yeah, hold on. Hold on.
17 First of all, let's not talk over each other. And so I
18 think that if you can finish -- I'm going to let him
19 finish this specific answer, Mr. Gonzalez-Pagan, and
20 then we'll go from there.

21 But you were -- finish, Dr. Cantor.

22 A. But I do compare the contents, for example, the
23 policy of the American Academy of Pediatrics conducting
24 a peer-reviewed facts check of its claims against the
25 scientific literature.

1 Q. (BY MR. GONZALEZ-PAGAN) But you have not
2 yourself published a systematic review of the evidence;
3 is that correct?

4 A. That's correct.

5 Q. You pointed to the limitations of some of the
6 studies pertaining to the treatment of gender dysphoria
7 in adolescents in your testimony. Do you recall that?

8 A. Yes, I do.

9 Q. You would agree that every study has
10 limitations; right?

11 A. That's correct.

12 Q. None of the studies you discussed concluded or
13 showed that the provision of puberty blockers or hormone
14 therapy to treat gender dysphoria in adolescents is
15 harmful; is that correct?

16 A. No, I couldn't say that's correct. Many of the
17 studies, as I said, do point out the downsides, the
18 changes in bone density and so on and other objective
19 variables. What's questionable or what's -- what's
20 usually in debate is whether there's sufficient
21 documentation or objective documentation of benefit in
22 order to make those objectively shown harms worth it.

23 Q. Understood. I'm asking about the studies'
24 conclusions. None of them concluded that the provision
25 of medical treatment for gender dysphoria in adolescents

1 is harmful. Yes or no?

2 A. No, they -- they did conclude -- the ones that
3 were investigating safety of such -- certain blood
4 parameters, bone density, did denote the changes
5 themselves -- did denote the changes. They tend not to
6 make the subjective assessment that the, you know,
7 decrease in bone density is itself harmful. You know,
8 that's usually done by the candidates which then
9 interpret the evidence. The job of the study itself is
10 just to document changes in -- the example I'm using is
11 bone density.

12 Q. Sure. Studies have a discussion and a
13 conclusion usually when they're in peer-reviewed
14 literature; is that right?

15 A. Yes. That's the standard format.

16 Q. Okay. So my question is about the conclusion.
17 Did any of them conclude that the provision of
18 gender-affirming medical treatment for gender dysphoria
19 in minors is harmful?

20 A. Yes, I would say that that's a fair assessment,
21 they do conclude that.

22 Q. Which study concluded that?

23 A. Oh, goodness. I couldn't give the names of the
24 studies offhand, but I did include in my report, as I
25 said, summaries of exactly what they did say, the

1 systematic reviews that covered them -- the systematic
2 reviews that covered them, which in turn cited them, but
3 I couldn't tell you by name. I couldn't cite the study
4 off the top of my head -- such studies off the top of my
5 head.

6 Q. Isn't it true actually that all of the studies
7 concluded in some form that the provision of
8 gender-affirming medical treatment showed beneficial or
9 positive effects for the adolescents treated?

10 A. Those were different studies. Some of the
11 studies, as I say, were investigating the harms with
12 regard to specific physical parameters, and other
13 studies -- other studies tried looking at the benefits,
14 usually the mental health benefits. And the ones that
15 looked at harms, again, the objective physiological
16 parameters were indeed able to document the decreases in
17 physical health, and it's the studies that were trying
18 to look for potential benefits that were looking -- the
19 mental health parameters, which some claimed and some
20 did not claim that there were benefits. So I'm not --
21 as I say, I'm not exactly sure which study you're
22 referring to. The studies of harms are usually distinct
23 from the studies of benefits.

24 Q. Sure. Dr. Cantor, I'm asking about what
25 studies you're referring to because you never mentioned

1 any particular study, so I'm asking.

2 A. No, I cited the studies quite thoroughly in my
3 report. I'm just pointing out that I can't recall their
4 names off the top of my head. If you're asking me to
5 refer to my report to name them, I can do that.

6 Q. Sure. The cohort studies that you discussed
7 pertaining to the mental health benefits for seeking to
8 assess mental health benefits or efficacy of the
9 provision of medical treatment for gender dysphoria in
10 adolescents, these studies fall within the middle of the
11 so-called ubiquitous pyramid of evidence that you
12 discussed; is that right?

13 A. Yes. They're cohort studies.

14 Q. Is it your testimony that cross-sectional
15 peer-reviewed studies based on survey data are not valid
16 forms of evidence?

17 A. Not for outcomes of interventions, no.

18 Q. Dr. Cantor, you support the provision of
19 medical treatment for gender dysphoria in adults; is
20 that correct?

21 A. That is correct.

22 Q. The evidence pertaining to the provision of
23 medical treatment for gender dysphoria in adults is of
24 the same kind and level of evidence pertaining to the
25 provision of medical treatment for gender dysphoria in

1 adolescents; is that right?

2 A. It's of the same kind, but when the
3 interventions are aimed at an adult body, the risks are
4 lower.

5 Q. You do not dispute that there are medical
6 treatments that are provided to adolescents for which
7 there are no randomized controlled trials?

8 A. Such -- such interventions exist, yes. Again,
9 the basic decision-making process is risk to benefit.
10 So when there is a low-risk intervention, then we --
11 then it's permissible or it's legitimate to employ only
12 low-quality evidence of benefit. But when it's a high
13 risk of harm, such as sterilizing --

14 Q. Dr. Cantor --

15 A. -- a child --

16 THE COURT: Hold on.

17 MR. GONZALEZ-PAGAN: I'm on limited time.
18 I'm going to object --

19 THE COURT: Yeah. So Dr. Cantor, your
20 attorney will have a chance to ask things in more
21 detail, so if you could just stick to what
22 Mr. Gonzalez-Pagan -- they're worried about time. They
23 only have a certain amount of time, each side. So if
24 you can concentrate on just his question and answer
25 that.

1 THE WITNESS: I understand.

2 Q. (BY MR. GONZALEZ-PAGAN) Dr. Cantor, you have
3 testified that there is no study showing that
4 psychotherapy alone can resolve an adolescent's gender
5 dysphoria; is that right?

6 A. It depends on what somebody means by resolve.

7 Q. You testified here in Texas last year on this
8 very question I asked of you -- you have testified that
9 there is no -- I asked you: Are there any studies
10 showing that psychotherapy alone can resolve an
11 adolescent's gender dysphoria? Is that correct? And
12 you said that's correct. Do you recall that?

13 A. I can't say that I do in the sense that --
14 again, I'd need to know the context of the questions
15 around it. It's true in the sense that the person
16 doesn't -- a person who is genuinely gender dysphoric
17 doesn't cease to feel dysphoric. What usually can
18 happen is the person's distress which they are mistaking
19 to be gender dysphoria a person can come to realize
20 wasn't gender dysphoria to begin with.

21 Q. Dr. Cantor, you would agree that the
22 peer-reviewed process is an integral part of scientific
23 research; right?

24 A. Yes, that's fair.

25 Q. You discussed some purported systematic reviews

1 earlier today. Do you recall that?

2 A. Yes, I do.

3 Q. With the exception of a paper from Finland,
4 none of the purported systematic reviews that you
5 discussed have been subjected to the readers of external
6 peer review or been published in a peer-reviewed
7 scientific journal; is that right?

8 A. A systematic review conducted by the healthcare
9 system of a government typically does not. It's a
10 different means of assessing -- of assessing the
11 literature. For example, if the --

12 Q. So is that a no?

13 A. -- NIH was to --

14 Q. Dr. Cantor, were they --

15 A. Understood.

16 Q. Were they submitted to external peer review?
17 Yes or no?

18 A. So far as I know, it was the Swedish study that
19 was, the Ludvigsson.

20 Q. So just the Swedish study?

21 A. That's my recollection, yes.

22 Q. Counsel for defendants made reference to a
23 purported systematic review from McMaster University in
24 Canada. Do you recall that?

25 A. Yes, I do.

1 Q. This review was commissioned by the
2 administration of Governor DeSantis in Florida in
3 support of the rule prohibiting coverage for medical
4 treatment --

5 THE REPORTER: Can you start over, please?

6 THE COURT: Whoa, too fast.

7 MR. GONZALEZ-PAGAN: I apologize. That
8 was very fast.

9 THE COURT: Slow down.

10 MR. GONZALEZ-PAGAN: That's on me.

11 Q. (BY MR. GONZALEZ-PAGAN) Dr. Cantor, I'm going
12 to slow down for the court reporter before I get thrown
13 out of here.

14 A. I'm from New York. I have the same problem.

15 Q. This review was commissioned by the
16 administration of Governor DeSantis in Florida in
17 support of their rule prohibiting coverage for medical
18 treatment for gender dysphoria. Is that correct?

19 A. That's my understanding of it, yes.

20 Q. And you testified that you submitted a
21 declaration in relation to this matter?

22 A. To the general matter, not to that specific
23 review, yes.

24 Q. That rule was recently found to be
25 unconstitutional; is that right?

1 A. I -- that's a good question. I don't follow
2 each state's individual policy, but I seem to recall
3 such a thing being reported in the media.

4 Q. That review has never been submitted to
5 external peer review; is that right?

6 A. Not that I know of, no.

7 Q. And it has never been published in a scientific
8 or medical journal; is that right?

9 A. So far as I know, it hasn't.

10 Q. You said that systematic reviews account for
11 all the evidence. Do you recall that?

12 A. When properly conducted, that's their purpose,
13 yes.

14 Q. But systematic reviews are conducted and
15 authored by people who establish criteria of what
16 studies qualify for the review or not. Is that not
17 correct?

18 A. That is correct. The proper procedure would be
19 to register what those criteria are before conducting
20 the review itself.

21 Q. So none of the systematic reviews that you
22 discussed actually account for all the peer-reviewed
23 studies regardless of design pertaining to the medical
24 treatment for gender dysphoria. Would you agree with
25 that?

1 A. Sort of. Again, the criteria were to select
2 the best and most relevant ones and to take out the ones
3 that were irrelevant because, following the metaphor I
4 used before, once you have the results of the telescope,
5 there is no point to including the naked eye
6 observations.

7 Q. Understood. You mentioned that gender
8 dysphoria is a symptom. Do you recall that?

9 A. Yes.

10 Q. Gender dysphoria is a diagnosis under the
11 DSM-V; is that correct?

12 A. That's correct.

13 Q. There are two and only two diagnoses for gender
14 dysphoria under the DSM-V, gender dysphoria in children
15 and gender dysphoria in adolescents and adults; is that
16 right?

17 A. Yes, that's correct.

18 Q. In discussing the alleged types of gender
19 dysphoria, you mentioned adolescent onset gender
20 dysphoria as a third type; is that right?

21 A. That is correct.

22 Q. In support for your opinion in your
23 declaration, you have cited to an article by Lisa
24 Littman based on survey data; is that correct?

25 A. That is correct.

1 Q. This is the same kind of survey data that you
2 said earlier is not evidence; is that correct?

3 A. Not evidence of medical outcomes. It's
4 evidence of what features cluster together with what
5 features.

6 Q. Is there any case-controlled study, cohort
7 study, randomized controlled study, or systematic review
8 that you can cite as evidence for this so-called third
9 type of gender dysphoria?

10 A. There's -- there can't be. Again, for
11 diagnosis, that's about clustering, what features go
12 together with what features. The randomized clinical
13 trials and so on are to test the outcomes of a
14 particular intervention. We would use one set of
15 methodology to answer one kind of question and the other
16 set of methodology to answer the other kind of question.

17 Q. Dr. Cantor, you discussed some studies
18 pertaining to desistance. Do you recall that?

19 A. Yes, I do.

20 Q. In these studies that followed prepubertal
21 children that you discussed in relation to desistance
22 rates, none of the subjects of those studies were
23 diagnosed with gender dysphoria under the DSM-V; is that
24 right?

25 A. Correct. They were conducted before the DSM-V,

1 and they are part of the data on which the DSM-V was
2 based. It's -- the research literature is necessarily
3 one step ahead of the DSM-V.

4 Q. The subjects of those studies were diagnosed
5 with gender identity disorder under prior versions of
6 the DSM; is that right?

7 A. Yes, that's correct.

8 Q. And the diagnosis criteria for gender dysphoria
9 under the DSM-V differ from the diagnostic criteria for
10 gender identity disorder under those prior DSM versions;
11 is that right?

12 A. Right. That's the nature of how the system
13 works. The scientists publish the studies, and then the
14 committees that form the DSM form their decisions on the
15 basis of those studies, and then the studies going
16 forward use the DSM-V. And then the results of those
17 studies will be used to form the DSM-VI. As I say, the
18 results of the studies are necessarily one step ahead of
19 the DSM.

20 Q. Well, these studies are actually steps behind
21 the current DSM; is that right?

22 A. No. The DSM only knows what to do on the basis
23 of the studies that already exist, and so they form the
24 DSM criteria on the basis of the existing studies as a
25 suggestion for what to do in the next generation of

1 studies.

2 Q. The DSM-V criteria were changed to actually
3 make it stricter in order to avoid false-positives. Do
4 you know that?

5 A. Yes. That was part of the intent, yes, but the
6 DSM-V criteria -- all diagnostic criteria are a
7 committee decision in order to compromise together
8 several competing principles, and one of them is to
9 simultaneously create as many hits as possible, that is
10 to diagnose as many people as appropriate, without
11 overdiagnosing or underdiagnosing.

12 Q. Thank you, Dr. Cantor.

13 MR. GONZALEZ-PAGAN: No further questions
14 at this time, Your Honor.

15 THE COURT: All right. Thank you.

16 Mr. Eldred, some redirect?

17 MR. ELDRED: No, Your Honor.

18 THE COURT: All right. Thank you,
19 Dr. Cantor. We are done with you on the witness stand.
20 You may stay in the proceeding if you'd like and just
21 make sure and turn off your microphone, but you are also
22 welcome to leave.

23 THE WITNESS: Thank you very much.

24 THE COURT: Thank you. All right. Your
25 next witness?

1 MS. DYER: Defendants now call Katrina
2 Taylor to the stand.

3 THE COURT: And I'm sorry. Katrina?

4 MS. DYER: Katrina Taylor.

5 THE COURT: Taylor. Okay. Please step
6 forward, ma'am. You can step right up here and I'll
7 swear you in.

8 MS. TAYLOR: Okay.

9 THE COURT: If you'll raise your right
10 hand.

11 *(Witness sworn)*

12 THE COURT: You can make your way around
13 there up to this chair here. There should still be some
14 water if you need it.

15 **KATRINA TAYLOR,**
16 having been first duly sworn, testified as follows:

17 **DIRECT EXAMINATION**

18 BY MS. DYER:

19 Q. Good afternoon, Ms. Taylor. Could you state
20 your name and spell it for the record, please?

21 A. Yes. My name is Katrina Taylor. So my legal
22 name is Y-e-k-a-t-e-r-i-n-a, last name T-a-y-l-o-r. I
23 do go by Katrina colloquially.

24 Q. Perfect. And what degrees do you hold?

25 A. Yes. So I have a master's in counseling

1 psychology from St. Edward's University.

2 Q. And when did you obtain your master's?

3 A. I graduated in 2014.

4 Q. Perfect. And what type of clinical training
5 have you done?

6 A. I have done quite a bit of clinical training.
7 After graduation I completed a two-year integrative
8 training program focused on working with families and
9 couples, children, adolescents, family systems. And I
10 also have completed six years of psychoanalytic training
11 to be able to conduct psychoanalysis and intensive
12 psychoanalytic psychotherapy.

13 Q. And are you licensed in anything specifically?

14 A. Well, I am a licensed marriage and family
15 therapist in the state of Texas.

16 Q. Is Texas the only state you're currently
17 licensed in?

18 A. Yes.

19 Q. And what year did you receive that license?

20 A. I received my provisional license in 2015, and
21 I received my full license in 2017.

22 Q. Okay. And then you just testified that the
23 psychoanalytic psychotherapy -- would you consider that
24 your specialty inside the practice of family and
25 marriage therapy?

1 A. Yes. Yes, absolutely. That's the main lens
2 through which I view people and families and
3 development, correct.

4 Q. Okay. And do you teach anything related to the
5 field that you practice?

6 A. Yes. So I teach for my institute, which is the
7 Center for Psychoanalytic Studies in Houston. I
8 typically teach one class per year. I've done it the
9 last two years, and I have a class coming up this
10 academic year that I'll be teaching.

11 Q. Okay. And how many years would you say you've
12 been working as a psychoanalytic therapist? I guess we
13 can do the math with your licensure, but it's a little
14 easier just to ask you.

15 A. I would say psychoanalytically since 2017, but
16 I've been working clinically since 2014 in my pre-grad
17 internship. All together I have over 10,000 clinical
18 direct hours, clinical contact hours.

19 Q. Okay. And within those 10,000 hours, what
20 experience do you have treating patients with gender
21 dysphoria, both adolescent and/or adult?

22 A. I would say some experience, but it's not the
23 majority of my practice.

24 Q. In terms of treating adolescents, what
25 majority -- what portion of your practice is that?

1 A. Well, currently -- so there were not -- there
2 were no children or adolescents with gender dysphoria
3 for a long time. And it's only recently that we have
4 seen an influx of patients coming in with this
5 diagnosis. You know, I would say in the last few years
6 I've probably worked with about 30 children and
7 adolescents and their families.

8 Q. Specifically with --

9 A. With the gender dysphoria, yes.

10 Q. And just generally, what experience do you have
11 treating minors for psychological conditions generally,
12 not just gender dysphoria?

13 A. I have experience going all the way back to my
14 pre-grad internship working with minors, working with
15 their families.

16 Q. Okay. And have you done any research with
17 regards to this subject?

18 A. I have not myself conducted research, no.

19 Q. What research have you done, not yourself, but
20 have you looked into with regards to the topic?

21 A. I've done extensive research on this topic.
22 I've done a lot of reading. I'm a member of the Gender
23 Exploratory Therapy Association, and they have a lot of
24 research, webinars, resources, you know, on their
25 website in the private community that we have for the

1 therapists. So I've really delved into the writings on
2 the topic as well as psychoanalytic writings, which tend
3 to be not official research but more so clinical
4 writings, expanded case studies of working with gender
5 confusion in minors as well as adults.

6 MS. DYER: Your Honor, Ms. Taylor's CV is
7 Defendants' Exhibit 7. And at this time defendants
8 would proffer Ms. Katrina Taylor as an expert in
9 clinical psychotherapy and the diagnosis, treatment, and
10 care of gender dysphoria and other psychological
11 conditions.

12 MR. SELDIN: Your Honor, can I do a brief
13 voir dire?

14 THE COURT: Sure.

15 **VOIR DIRE EXAMINATION**

16 BY MR. SELDIN:

17 Q. Good morning. So you have not conducted any
18 original research on the treatment of gender dysphoria
19 in adolescents; is that correct?

20 A. That's correct.

21 Q. You haven't published any research on that
22 topic either?

23 A. That's correct.

24 Q. Has any of your training taken place in a
25 multidisciplinary clinic for the treatment of gender

1 dysphoria?

2 A. Specifically for the treatment of gender
3 dysphoria, no.

4 Q. And do you have any specialized training in
5 adolescent mental health?

6 A. Yes.

7 Q. What training is that?

8 A. That's the training through the Center for
9 Psychoanalytic Studies in Houston.

10 Q. And --

11 A. As well as in my master's program.

12 Q. Of the 30 children and adolescents that you say
13 you've treated in this area, how many of them -- or do
14 those children or adolescents have a gender dysphoria
15 diagnosis?

16 A. Some of them, yes. I have diagnosed them with
17 gender dysphoria. I have given them that diagnosis.
18 Some I have not.

19 Q. About how many of the 30?

20 A. That I have given a diagnosis to, I would say
21 about five.

22 MR. SELDIN: Your Honor, we would object
23 to the extent that this witness intends to offer expert
24 testimony on the treatment of gender and diagnosis --
25 diagnosis of gender dysphoria given that it's a very

1 small number and limited. Her clinical experience seems
2 to be mostly focused on psychoanalysis in adults.

3 THE COURT: Ms. Dyer, do you have any
4 other response or follow-up with this witness?

5 MS. DYER: Your Honor, I mean, she's a
6 qualified therapist who does treat these children,
7 including adolescents of all different types of
8 psychological conditions. And to the extent it could
9 help the Court in any capacity, I think she should be
10 designated as an expert.

11 MR. SELDIN: Your Honor, we would ask that
12 it be limited then to psychoanalysis and not the medical
13 treatment.

14 THE COURT: All right. So I'll accept the
15 designation with the caveat that it's related to the
16 psychoanalysis piece from this witness.

17 MR. SELDIN: Thank you, Your Honor.

18 THE COURT: All right. Go ahead.

19 **CONTINUED DIRECT EXAMINATION**

20 BY MS. DYER:

21 Q. Okay. Ms. Taylor, we're going to back up just
22 a little bit. So first can you explain to me how you
23 define and/or how you have been taught based on your
24 experience -- what is gender dysphoria?

25 A. So gender dysphoria is a feeling of not being

1 in the right body, a feeling of a fundamental
2 incompatibility with one's sexed body and that these
3 feelings should persist for six months or more.

4 Q. And how do therapists treat gender dysphoria in
5 minors?

6 A. Well, the current prevailing treatment is to
7 affirm, is to affirm the child or adolescent's belief
8 that they are of the opposite sex or that they are not
9 in the right body.

10 Q. And what would you say is the goal of therapy
11 to a minor for the treatment of gender dysphoria?

12 A. Well, I think it's important for us to say that
13 a minor is not separate from their family, that --
14 you know, in my training, in having a grounding in both
15 a family systems theory and a psychoanalytic theory, we
16 can't separate the child from the family because the
17 child lives with the family and the child is an integral
18 part of the family.

19 So when there is gender confusion -- and I
20 specify the difference between diagnosing with gender
21 dysphoria versus more of a gender confusion because I
22 think that's an important difference. But when there is
23 gender confusion or gender dysphoria, I see it as a
24 symptom for the family. The child is an identified
25 patient for the family, and there's something going on

1 in that family system that is awry, that is
2 dysfunctional that needs to be addressed.

3 Q. Would you say that therapy is safe -- is a safe
4 treatment for gender dysphoria in minors?

5 A. Yes, absolutely.

6 Q. And do you think it's an effective treatment
7 for gender dysphoria in minors?

8 A. Yes, absolutely.

9 Q. How -- I know you mentioned it earlier about
10 the gender confusion, but how does gender identity --
11 and that phrase is with regards to how you understand
12 it -- relate to a diagnosis of gender dysphoria?

13 A. Well, I don't -- I don't use the phrase gender
14 identity very much. I don't prefer to use it. Gender
15 identity, it's not an empirical statement. We have no
16 proof that there's such a thing as a gender identity. I
17 have come to see it as a personal or spiritual belief
18 about the self. Therefore, I don't agree that one can
19 have a gender identity that is fundamentally different
20 from one's sexed body. What is possible are feelings of
21 hatred, of revulsion for one's own body, whether it has
22 to do with sex and the sexed body or whether it has to
23 do, you know, with weight like we see in eating
24 disorders.

25 Q. And would you say there's a diversity of

1 opinion in the psychological realm with regard to
2 diagnosing and treating of gender dysphoria?

3 A. Unfortunately, no.

4 Q. Is that because everyone is -- you just
5 testified that everyone -- the current model is to
6 affirm. Is that the primary method that you're -- that
7 you're saying that that's why there's no diversity of
8 opinion?

9 A. Yes. By and large the current method is to
10 affirm. Clinicians who don't affirm or who put forth
11 different ways of thinking about children and families,
12 you know, more critical ways, more thoughtful ways,
13 they're often censored. They're often ostracized in
14 their therapeutic communities. I've experienced that
15 myself. And so a lot of people are afraid to say much.
16 And I think this is where the Gender Exploratory Therapy
17 Association of which I am a member is a very important
18 voice in this -- on this topic.

19 Q. And who is Diane Ehrensaft?

20 A. Yes. So she is a psychologist, and I believe
21 she's the founder and quite involved in the University
22 of San Francisco Child and Adolescent Gender Center,
23 Benioff Center. And so I've actually -- I have seen
24 Dr. Ehrensaft speak in person, and she came to our
25 institute back in 2019. She has some theories about how

1 gender develops in children which I believe to be
2 unfounded and go contrary to everything we know about
3 child development.

4 Q. What is she known for in the area of
5 psychology?

6 A. Well, one of the things she's known for -- I
7 don't know if a lot of people know this, but she was
8 involved in the Satanic panic, the accusations against
9 daycare teachers --

10 MR. SELDIN: Your Honor, we would object
11 to this being outside the scope.

12 THE COURT: Ms. Dyer?

13 MR. GONZALEZ-PAGAN: And inflammatory.

14 MS. DYER: To the extent that she's
15 talking about another opinion in the psychiatric
16 community with regards to treating the -- we can reframe
17 the question so we don't discuss the latter of the
18 response.

19 THE COURT: All right. So reframe the
20 question.

21 Q. (BY MS. DYER) Okay. With regards to
22 Ehrensaft's opinions on gender identity, can you explain
23 to me what her stance is on that?

24 A. So her stance is that children can know what
25 their so-called gender identity is in infancy,

1 toddlerhood, even going back to the womb. She has
2 spoken about sort of children rejecting gender
3 stereotypes and that that says something about them
4 having a gender identity that is opposite of their sexed
5 body. So, for example, she's spoken about a baby girl
6 ripping out a barrette, you know, from her hair and that
7 indicates that that baby girl is actually a baby boy.
8 Another example --

9 MR. SELDIN: Your Honor, we would object
10 at this point as a narrative answer to the question.

11 THE COURT: I'm more interested in her
12 opinions. I don't necessarily need to get into what she
13 might think about somebody else's.

14 MS. DYER: That's fine, Your Honor. I was
15 going to follow up with her opinion on that.

16 THE COURT: Okay. Then let's do that.

17 Q. (BY MS. DYER) Okay. Given what you've just
18 stated --

19 A. Right.

20 Q. -- what is -- do you share her opinions? Or
21 what are your opinions in response to that?

22 A. I absolutely do not share those opinions.
23 Again, there's no empirical basis for this. It's
24 pseudoscientific. It's pseudoreligious. It really
25 points to this idea of a personal or spiritual belief

1 about the self that, you know, when in the case of young
2 children is actually inculcated by the parents in my
3 opinion.

4 Q. Okay. And so let's shift gears just a little
5 bit. In terms of your direct clinical practice with
6 patients in adolescence, among the patients that you've
7 treated for either significant body hate, I think as you
8 phrased it earlier -- I'm sorry if I misspoke -- or
9 gender dysphoria, have you noticed any patterns amongst
10 them?

11 A. Yes. So some of the patterns I've noticed is
12 that these children and adolescents come from
13 dysfunctional families, that there can be marital
14 discord. Sometimes there's divorce. Sometimes when we
15 really dig into it, there is trauma in each of the
16 parents' or one of the parents' histories, you know, for
17 example, mental illness in the extended family,
18 suicidality in the extended family.

19 I have also noticed that these are parents
20 who have a permissive parenting style. You know, so we
21 have three parenting styles: authoritarian, permissive,
22 and authoritative. We know children do best with an
23 authoritative parenting style. These are quite
24 permissive parents. There is a sense of anything goes.
25 And these parents really struggle to set boundaries with

1 their children, to impose consequences for, you know,
2 negative behavior.

3 Q. And you mentioned trauma a minute ago. Is
4 underlying trauma something that adolescents or children
5 are quick to give you details about when you first meet
6 with them?

7 A. No.

8 Q. How many sessions would you say or hours -- I'm
9 not sure how long your sessions are -- would you say
10 that it takes for youth to open up to you about those
11 types of things?

12 A. It takes a while. It really depends on the
13 individual, you know, child or adolescent. I mean, I
14 would say we have to probably work together at least
15 eight to ten sessions to build up a sense of trust and
16 rapport before we can get into anything deeper.

17 Q. And roughly how long are your average sessions?

18 A. 50 minutes, five zero.

19 Q. Okay. And out of the individuals that you have
20 made a gender dysphoria diagnosis for, roughly --
21 without any specific details about the individuals, how
22 many generalized sessions have you taken to give them
23 that diagnosis?

24 A. I would say on average probably six to eight
25 sessions.

1 Q. Do you believe that a diagnosis could be made
2 during an initial assessment?

3 A. No, I don't believe it can be.

4 Q. And what's your basis for that belief?

5 A. One session is barely long enough to say hello.
6 It's certainly not long enough to delve into the
7 history, to understand the context of the presenting
8 symptoms, to get more of a sense of the family and the
9 family structure. And also, I -- when it comes to
10 children and adolescents, I prefer to meet with the
11 parents first to do either a parent meeting or to have
12 as many members of the family come in so I can observe
13 how they interact together. Then I would meet with the
14 child adolescent one on one and we'd have more sessions.
15 So it just really takes some time to get a feel for what
16 is happening there.

17 Q. Okay. So going directly to how you would treat
18 an individual, let's take one of the plaintiffs, for
19 example.

20 A. Sure.

21 Q. Have you reviewed the affidavits attached to
22 plaintiffs' complaint?

23 A. Yes.

24 Q. And so I will give you a brief summary to jog
25 your memory of which one we're discussing. In

1 particular, Sarah Soe, who's a plaintiff, that began --
2 or her parents -- began to express gender dysphoria
3 around the age of 12 and in her parents' affidavit
4 stated that she never fit the boy gender stereotypes.
5 That was a quote. Do you recall reading that affidavit?

6 A. Yes, I believe --

7 MR. SELDIN: Your Honor, we would object
8 to this line of questioning as it appears to be going
9 toward offering an opinion from the plaintiffs
10 specifically in this case, who she's --

11 THE COURT: And was that --

12 MR. SELDIN: -- never met.

13 THE COURT: I'm sorry. So complete that.

14 MR. SELDIN: We would object, Your Honor.
15 We appear to be leading down a path of asking questions
16 about offering expert opinions on plaintiffs that she's
17 never met.

18 THE COURT: Right.

19 MR. SELDIN: And so --

20 THE COURT: So she reviewed the affidavits
21 and you're going to ask her --

22 MS. DYER: What her line of psychotherapy
23 approach -- psychotherapeutic approach based on her
24 knowledge she would have recommended for that patient.

25 THE COURT: Based on the affidavits.

1 MS. DYER: Based on the affidavits.

2 THE COURT: I understand that context. So
3 I'm going to overrule the objection and let her ask the
4 question.

5 Q. (BY MS. DYER) So do you recall reading that
6 affidavit?

7 A. Yes, I believe so. So Sarah Soe, that's the
8 12-year-old girl -- right? -- who identifies as a,
9 quote, trans boy?

10 Q. Sarah Soe identifies as a trans girl, was a
11 bio- -- was born a biological boy.

12 A. Oh, right. And is that the one where the onset
13 began at age four?

14 Q. No. This --

15 MR. SELDIN: Objection, Your Honor. At
16 this point counsel appears to be testifying.

17 THE COURT: Yeah. I mean, if you've got a
18 more --

19 MS. DYER: I was just trying to clarify.

20 THE COURT: -- specific question for her --

21 MS. DYER: Yeah.

22 Q. (BY MS. DYER) Okay. Let's -- the second one
23 that you were referring to at the onset of four --

24 A. Yeah.

25 Q. -- would you like -- do you recall that one?

1 A. I do recall that one.

2 Q. Okay.

3 MS. DYER: Then can I -- is it okay if I
4 jump to that one?

5 THE COURT: Try that.

6 Q. (BY MS. DYER) Okay. So this was plaintiff
7 Maeve Moe. She's currently nine. And like you
8 mentioned --

9 MR. SELDIN: Objection, Your Honor, at
10 this point.

11 THE COURT: I mean --

12 MS. DYER: It's her --

13 THE COURT: Yeah, but you're -- well,
14 you're not supposed to be leading this witness.

15 MS. DYER: I'm sorry. I was just trying
16 to refresh her memory as to the exact affidavit
17 without --

18 MR. SELDIN: Your Honor, there's --

19 MS. DYER: -- being able to show it to
20 her.

21 MR. SELDIN: There's --

22 THE COURT: Hold on. We cannot talk over
23 each other.

24 MR. SELDIN: I apologize.

25 THE COURT: Okay. Let's get a question

1 out and then get me an objection and we'll deal with
2 that.

3 MS. DYER: Okay. I will reframe.

4 THE COURT: Don't start your answer yet.

5 Q. (BY MS. DYER) Hypothetically, if there was a
6 patient that came into your practice, given your years
7 of experience, who was roughly five years old, born a
8 biological boy and was expressing symptoms -- or
9 expressing things that they were interested in pink and
10 more feminine type things, how would you go about
11 treating or recommending treatment to that minor and/or
12 family members?

13 THE COURT: All right. Do you have an
14 objection?

15 MR. SELDIN: No, Your Honor.

16 THE COURT: All right. Answer that
17 question.

18 MR. SELDIN: I haven't been shot.

19 A. I would say let this boy wear pink. He is
20 still a boy.

21 Q. (BY MS. DYER) Is there any type of
22 psychotherapeutic specific type of treatment or
23 counseling you would offer to the family?

24 A. Well, I would work with -- with the family.
25 That's a very young age. That's an age when kids are

1 still in preschool. Maybe they're starting
2 kindergarten. That's an age of pretend play, of
3 dress-up, of -- you know, maybe one day he's a girl,
4 maybe another day he's a dog or a cat or a dinosaur.
5 And children are playing. Play is a way that children
6 learn about the world and figure out their own
7 identities and other people's identities. I would tell
8 the family to let him play.

9 I would say if the family is coming into
10 my office with this as a presenting issue and they are
11 concerned about their boy identifying as a girl, I would
12 again see it as an identified patient for the family.
13 What kind of distress is this child expressing for the
14 family? And I would probably meet with the parents for
15 quite a bit to understand more about their marriage,
16 what's happening in the family, you know, as a whole,
17 are there other siblings, does this child, for example,
18 feel like he's not getting enough attention and adopting
19 this kind of identity as a way to get more attention.

20 Q. And what would you say the overarching goal of
21 therapy is for any of your patients that have been
22 diagnosed with gender dysphoria or are suffering from
23 body hate?

24 A. I would say the overarching goal is to learn to
25 accept one's body, the body that the person was born

1 into. We all only ever get one body, to accept it, to
2 make peace with it, and to focus on what really matters
3 in life, which is work and love, so completing
4 schooling, figuring out a career that they would like to
5 pursue, and love, which includes romantic partnerships,
6 friends, family. Those are really what lead to healthy
7 psychological functioning in life.

8 Q. And have you seen positive -- I don't want to
9 say outcome -- I guess outcome is the right word --
10 positive improvement, however you would like to define
11 it, in the patients that you've been treating with
12 psychotherapeutic approaches that have gender dysphoria?

13 A. Well, maybe here we should clarify between
14 gender confusion and gender dysphoria.

15 Q. Yes. I apologize.

16 A. That's okay. I don't think every one of those
17 children meets a diagnosis for gender dysphoria. But if
18 they're showing up with gender confusion -- and again,
19 sometimes it could be gender dysphoria -- yes, I
20 absolutely have seen positive outcomes where they gain
21 insight, they are more able to put words to their
22 feelings, they're able to get to a place of accepting
23 their body, of being more comfortable with who they are,
24 and going through what can be a very difficult and scary
25 time, which is puberty, you know, learning to be able to

1 go through puberty with less distress.

2 Q. Is puberty something that causes your other --
3 different patients distress as well, not necessarily
4 adolescents suffering from gender dysphoria or body
5 hate?

6 A. Oh, yes, absolutely. Absolutely. Yeah.

7 Q. Do they have any kind of distress associated
8 with puberty?

9 A. I think a lot of children have distress
10 associated with puberty, especially girls. Girls going
11 through puberty, you know, go through a lot of unwanted
12 changes to their body, which are painful and can be
13 embarrassing, such as menstruation. I think it's very
14 common for girls to feel like they hate their body at
15 just that point in time that they're receiving unwanted
16 attention from boys and even men to want to hide and to
17 want to hide behind a trans identity, to take on this
18 trans boy identity as a way to escape the distress and
19 consequences of puberty.

20 Q. So potentially my last question: In your
21 opinion, do you think that therapy is in fact a safe and
22 effective treatment for minors with gender dysphoria?

23 A. Yes, absolutely.

24 MS. DYER: Can I have just one second to
25 confer?

1 THE COURT: Of course.

2 MS. DYER: Okay. At this time we will
3 pass the witness.

4 THE COURT: Thank you. Cross-examination?

5 MR. SELDIN: Your Honor, just one moment
6 to confer.

7 THE COURT: Sure.

8 MR. SELDIN: I will have brief cross.

9 THE COURT: Sure.

10 **CROSS-EXAMINATION**

11 BY MR. SELDIN:

12 Q. You testified that you belong to an
13 organization called the Gender Exploratory Therapy
14 Association; is that correct?

15 A. That's correct.

16 Q. You said that there are some writings that you
17 reviewed from them that inform your practice; is that
18 correct?

19 A. Correct.

20 Q. Have any of those writings been subjected to
21 randomized controlled trials validating their
22 recommendations?

23 A. I can't be sure if they have or not.

24 Q. Have they been subjected to any longitudinal
25 studies validating the recommendations?

1 A. I can't be sure.

2 Q. Have they been subjected to any cross-sectional
3 or any other kinds of research studies validating their
4 recommendations?

5 A. I can't be sure.

6 Q. Do you know if there's been any follow-up in
7 terms of outcomes for patients who have been treated in
8 accordance with those writings?

9 A. I am aware of clinical case studies. You know,
10 Lisa Marchiano is one writer. Alessandra Lemma is
11 another, Roberta D'Angelo, Robert Withers. They all
12 have written clinical case studies on their work with --
13 describing their work with patients. And some of those
14 papers do describe positive outcomes with patients.

15 Q. So those would be studies of individual
16 clinical --

17 A. Correct.

18 Q. -- patients, not large sets of people; correct?

19 A. Not large sets of people, correct.

20 Q. Would you agree that consent is principally a
21 parental function?

22 A. Yes.

23 Q. You testified that the -- that there's no
24 diversity of treatment in this area because the
25 prevailing treatment is to affirm a child's gender

1 identity; is that correct?

2 A. By and large --

3 Q. So --

4 A. -- yes.

5 Q. I didn't mean to cut you off. I'm sorry.

6 A. By and large. There's little diversity is how
7 I would put it.

8 Q. So the treatment that you're describing in your
9 practice would be outside of the mainstream of
10 prevailing standards of care; correct?

11 A. Correct.

12 Q. You testified earlier that you did not believe
13 a three-year-old had the capacity to understand their
14 gender identity; is that correct?

15 A. That's correct.

16 Q. Do you believe that a three-year-old who has
17 been assigned male at birth has an ability to know that
18 he is a boy?

19 A. Yes, a three-year-old has the ability to know
20 he is a boy because he is a boy.

21 Q. Based on his genitalia?

22 A. That is one marker of being a boy.

23 Q. Are there other markers of being a boy?

24 A. Boys behave differently from girls in terms of
25 their energy level, their activity levels.

1 Q. Earlier you testified that if a hypothetical
2 patient presented to you who was assigned a boy but
3 liked pink, you would say go ahead and let them like
4 pink; correct?

5 A. Correct.

6 Q. Is liking pink the kind of a sign of being a
7 boy or a girl like high energy level that you just
8 described or is it something different?

9 A. Liking pink or not liking pink is an interest.
10 Energy level is a behavior.

11 Q. Do you think that a three-year-old who's been
12 assigned female at birth has an ability to understand
13 that their gender identity may be something other than
14 female?

15 A. No.

16 Q. Earlier you talked about patterns that you had
17 seen in your practice. You also -- that would be based
18 on the five people or so that you have given a gender
19 dysphoria diagnosis to?

20 A. It would be based on the 30 people I have
21 worked with with some level of gender confusion.

22 MR. SELDIN: Your Honor, I may be done, if
23 I could just have a brief moment.

24 THE COURT: Sure.

25 MR. SELDIN: I apologize. Thank you.

1 Q. (BY MR. SELDIN) Of the 30 patients that you
2 just referenced, how many of them were minors?

3 A. I would say all of them except for maybe two.
4 The vast majority were minors.

5 Q. And about how old were they?

6 A. Ranging in age from 12 to 17.

7 Q. And of the five that you did diagnose with
8 gender dysphoria, about how old were they?

9 A. So some right around puberty, 12, 13, and some
10 a little bit older, adolescents, like 17.

11 MR. SELDIN: Your Honor, I have nothing
12 else for this witness. I pass the witness. Thank you.

13 THE COURT: Thank you. Any redirect?

14 MS. DYER: I have one quick question.

15 THE COURT: Sure.

16 MS. DYER: Maybe two, actually. Sorry.

17 **REDIRECT EXAMINATION**

18 BY MS. DYER:

19 Q. What would you say informed consent is in the
20 context of therapy for minors?

21 A. Informed consent is the parent agreeing --
22 allowing the therapist to treat the child and to treat
23 the family.

24 Q. And what risks are present in therapy for
25 minors?

1 MR. SELDIN: Objection, Your Honor. I
2 think this is outside the scope of cross.

3 MS. DYER: Respectfully, Your Honor, he
4 just asked about informed consent.

5 THE COURT: I'll allow it. Go ahead.

6 A. The risk of therapy for minors? I would say
7 there are few risks unless the therapist behaves
8 unethically and seeks to alienate the minor, turn them
9 against the family, or gives the family advice that is
10 ultimately harmful.

11 MS. DYER: Okay. I think that's it. Give
12 me just one second. Okay. We pass the witness.

13 THE COURT: Any other redirect -- or
14 cross-examination?

15 MR. SELDIN: None, Your Honor. Thank you.

16 THE COURT: Okay. All right. Ms. Taylor,
17 you're done on the witness stand. You may be excused.

18 All right. Next witness?

19 MR. STONE: At this time, Your Honor,
20 defendants call Dr. Hopewell, Dr. Alan Hopewell.

21 THE COURT: Hopewell. Okay. If
22 Dr. Hopewell's here, if you'll step forward, please. I
23 assume that's the man in the white coat.

24 MR. STONE: Yes, Your Honor.

25 THE COURT: If you'll raise your right

1 hand for me, sir.

2 (Witness sworn)

3 THE COURT: All right. You can make your
4 way around and up to this witness chair.

5 **C. ALAN HOPEWELL, PH.D.,**

6 having been first duly sworn, testified as follows:

7 **DIRECT EXAMINATION**

8 BY MR. STONE:

9 Q. Good morning, Dr. Hopewell.

10 THE COURT: Actually, we're in the
11 afternoon. Both of y'all said morning. I wanted to
12 remind you of the time you have left.

13 MR. SELDIN: Your Honor, the days go by
14 quickly.

15 MR. GONZALEZ-PAGAN: It's afternoon.
16 That's what I meant to say.

17 THE COURT: I don't know where y'all are
18 at, but I'm in the afternoon. Go ahead. Sorry.

19 MR. STONE: Thank you, Your Honor.

20 Q. (BY MR. STONE) Could you state your name for
21 the record?

22 A. My name is Clifford Alan, and that's A-l-a-n,
23 Hopewell.

24 Q. Dr. Hopewell, what degrees do you hold?

25 A. How many or which ones?

1 Q. Which ones?

2 A. I have a bachelor's degree in psychology from
3 Texas A&M University, which I was also commissioned at
4 the same time. I have a master's degree in clinical
5 psychology from what is now the University of North
6 Texas. I have a Ph.D. in clinical neuropsychology with
7 my minor in experimental --

8 MS. WOOTEN: Your Honor?

9 THE COURT: Hold on.

10 MS. WOOTEN: I'm not sure you administered
11 the oath.

12 THE COURT: Oh, my -- yes, I did. Yes, I
13 did.

14 MS. WOOTEN: Did we miss it?

15 THE COURT: I did administer the oath to
16 you.

17 THE WITNESS: Yes, ma'am.

18 MS. WOOTEN: I'm so sorry. We all missed
19 it. Thank you.

20 MR. SELDIN: We were distracted by the
21 white coat.

22 THE WITNESS: I'm also an expert in memory
23 testing.

24 MS. WOOTEN: Well, that's coming at the
25 end of today.

1 A. My third degree, I think -- I have to keep
2 track here -- is a Ph.D. in clinical psychology with a
3 minor in experimental. I forgot to mention my minor at
4 the A&M is in languages, in German. And then I have a
5 postdoctoral master's degree in clinical
6 psychopharmacology.

7 Q. (BY MR. STONE) Doctor, what year did you
8 obtain your Ph.D. in psychology?

9 A. 1978.

10 Q. Did you do a residency?

11 A. Yes.

12 Q. What was your residency in?

13 A. I was a resident at the University of Texas
14 Medical Branch, and the residency was in primarily
15 clinical psychology, but I went there specifically to
16 work in the division of neurosurgery in clinical
17 neuropsychology. I'm the first neuropsychologist
18 trained in the state of Texas.

19 Q. Doctor, do you hold any board certifications?

20 A. Yes.

21 Q. What are you board certified in?

22 A. In clinical neuropsychology. I was the first
23 board certified clinical neuropsychologist in Texas.

24 Q. Doctor, have you served in the military?

25 A. Yes.

1 Q. How long did you serve in the military and in
2 what branch?

3 A. United States Army, a total of 27 years. I had
4 both reserve and active duty service, and I retired as a
5 regular army officer.

6 Q. What was your rank when you retired?

7 A. Major.

8 Q. Did you achieve any awards or commendations
9 during your military service?

10 A. Yes, sir.

11 Q. What awards or commendations did you receive?

12 A. I received the Bronze Star Medal for medication
13 research and directing the brain injury services in Iraq
14 during the War on Terror. I was the senior brain injury
15 consultant for the United States Army during that period
16 of time. I also received two meritorious service
17 awards. One was for surviving -- for my working with
18 the assassination attempt at Fort Hood of which I'm a
19 survivor. And the other was for my -- again, my work
20 in -- at Fort Hood with organizing the brain injury
21 services, the neuropsychological laboratory. I have
22 extensive other Army awards, earning achievement for
23 helping them achieve the Joint Commission accreditation
24 at Fort Hood Darnall, things like that. The list is
25 pretty extensive.

1 Q. I want to follow up on something you just said.
2 What do you mean the assassination attempt at Fort Hood?

3 A. Well, Colonel Platoni and I were the two
4 targets of the assassination attempt there, but
5 fortunately we survived. I was in charge of some of the
6 survivor organization after that and -- I mean, we were
7 there during that assassination attempt.

8 Q. So you're saying the phrase assassination
9 attempt. Who -- who tried to perform -- or who was
10 attempting to carry out an assassination at Fort Hood?
11 Can you just clarify?

12 A. Well, it was a psychiatrist who worked with me,
13 Nidal Hasan.

14 Q. Okay.

15 A. And he was a colleague psychiatrist, and he
16 attempted to kill some of his colleagues. He killed,
17 of course, 13 people.

18 THE COURT: The Court's familiar with the
19 circumstances.

20 MR. STONE: Sorry, Your Honor. I was just
21 trying to --

22 THE COURT: That's okay. Just don't want
23 you to spend your time on it.

24 Q. (BY MR. STONE) Doctor, what states are you --
25 what states are you currently licensed to practice

1 psychology in?

2 A. I've been licensed in Texas since I think 1979.
3 I'm licensed by the Louisiana -- medical board in
4 Louisiana, although I allowed that to lapse when I kind
5 of retired. I'm semi-retired. And I'm currently
6 licensed by the Louisiana Psychological Board. I'm also
7 licensed in Missouri as a clinical neuropsychologist.

8 Q. What states have you previously been licensed
9 in that you are no longer licensed in the practice of
10 psychology?

11 A. When I taught at the medical school in
12 North Carolina I was, of course, licensed in
13 North Carolina. I was also licensed in New Hampshire.
14 I'm licensed by the medical prescription board in
15 New Mexico. And I was also licensed in Nevada. Again,
16 I'm semi-retired, so I've retired some of those
17 licenses.

18 Q. Have you ever held a DEA registration to
19 prescribe controlled substances?

20 A. Yes.

21 Q. When did you hold a DEA registration?

22 A. During my service at Carl Darnall Medical
23 Center at Fort Hood. So that was between 2006 and I
24 retired there in 2014. So when I left federal
25 service -- I was also a federal employee. When I left

1 federal service, I left that federal license and was
2 planning on retiring, so I never pursued a state
3 license.

4 Q. What experience do you have teaching in the
5 field of psychology?

6 A. Extensive. I've taught at two different
7 medical schools. I've taught at several universities as
8 adjunct professors, such as University of North Texas,
9 several schools with military psychology students, such
10 as Central Texas College and things like that.

11 Q. What professional awards and recognitions have
12 you received in the field of psychology?

13 A. I've -- gosh, I can't remember all. I've
14 been -- I was the clinical neuropsychologist for Texas
15 by the Texas Psychological Association. Probably the
16 most important one is I was selected to be a fellow of
17 the American Psychological Association, which is the
18 highest award they give other than outstanding -- you're
19 the outstanding guy in the world, I guess. But that's
20 the highest category they have, and that was based
21 mainly on my research on medication management and brain
22 injury in Iraq.

23 Q. How long have you been practicing clinical
24 psychology?

25 A. 50 years.

1 Q. What experience do you have with gender
2 dysphoria?

3 A. I was the chief resident at the University of
4 Texas Medical Branch on their sexual surgery team. We
5 also had specialized studies. Of course, that was a
6 long time ago, and so that was where some of the initial
7 studies by John Money, who's clinic was closed, but we
8 studied extensively John Hopkins models and John Money's
9 work at that. And we were part of the -- I also served
10 on the sexual surgery team at the medical branch. And
11 then since then I've dealt with it in my private
12 practice.

13 Q. What education and training do you have as it
14 relates to the psychological development of minors?

15 A. Well, that was an extensive part of our
16 training at University of North Texas, learning theory,
17 child theory. Then at the medical branch at Galveston,
18 my first rotation was in the division of child and
19 adolescent psychiatry. My second rotation was in the
20 department of pediatrics with pediatric children and
21 with some medical and sexual disorders. My third
22 assignment, again, was on the sexual treatment team.
23 And then, again, I specialized in the division of
24 neurosurgery and neuropsychology, and that overlaps
25 quite a bit with developmental issues of children, and

1 we had children who had various neurological illnesses
2 and injuries.

3 Q. Doctor, what -- what training and experience do
4 you have in the field of informed consent as it relates
5 to the practice of psychology and neuropsychology?

6 A. Well, like any psychologist, I'm bound to the
7 ethics of the American Psychological Association. And
8 I've been on many hospital committees and research
9 panels where we've had to adhere to those principles.
10 Probably the specialty association that I've had is the
11 president of the psychological association who followed
12 me as president of the Texas Psychological Association
13 was Melba Vasquez, and Melba was -- and I was on the
14 board. Melba was involved intricately in revamping the
15 APA ethical principles, and so we reviewed those
16 extensively at that time. I didn't -- I didn't do that
17 myself. She was doing that. But yeah, those are my
18 familiarity with those issues.

19 MR. STONE: At this time, Your Honor, we'd
20 like the Court to know that Dr. Hopewell's CV is
21 Defendants' Exhibit 6. And at this time we proffer
22 Dr. Hopewell as an expert in the practice of
23 neuropsychology and clinical psychology and as it
24 relates to informed consent.

25 THE COURT: Any objection?

1 MR. GONZALEZ-PAGAN: No objection,
2 Your Honor.

3 THE COURT: All right. So designated.

4 Q. (BY MR. STONE) Doctor, why is informed consent
5 important?

6 A. Primarily probably because of the old Latin
7 phrase *nolo nocere* damage. We -- the phrase means above
8 all do no harm. And informed consent in terms of both
9 the philosophical underpinnings, the American Medical
10 Association and the American Psychological Society -- or
11 American Psychological Association, those -- that has to
12 be our primary ethical duty is to do no harm to a
13 patient.

14 The other consideration is, if you read
15 the ethical guidelines of the APA, for example,
16 extensive issues on human dignity and working with the
17 person, and so the other component of that is that the
18 patient is informed and involved and is part of the
19 informed or treatment process, so treating the patient
20 with dignity and respect and helping them to be an
21 informed consumer of healthcare as well as being well
22 educated about problems or difficulties or potential
23 injuries.

24 And there's a third component which is
25 equally important, and that is informed decision-making,

1 to make a decision with information about what treatment
2 the individual will accept or be involved in.

3 Q. Doctor, are you familiar with the WPATH?

4 A. Yes.

5 Q. What is the WPATH?

6 A. Well, it's a quasi-professional organization
7 that is mostly an advocate for their positions. They're
8 interested in sexual medicine or sexual issues. And
9 they're -- it's an organization of a wide range of
10 people who can join to, you know, participate in their
11 issues.

12 Q. How is WPATH different from an organization
13 like the International Neuropsychological Association --
14 or Society?

15 A. Society. Oh, International Neuropsychological
16 Society, I am no longer a member because I'm not -- I
17 haven't been traveling overseas, but that's an
18 organization of the preeminent scientists in the world
19 who are involved with neuropsychology. I don't think
20 you can join if you don't have a Ph.D. I may be wrong
21 about that. But you have to demonstrate very strict
22 criteria to be a member.

23 WPATH will allow people to join if they're
24 just associated with the mental health field. And for
25 example, we hired a receptionist lately who we're

1 teaching to give -- proctor some of the tests because
2 she's allowed to do that by law. She would be eligible
3 to join because she's working in a mental health office.
4 So there aren't any real requirements like there are for
5 an organization like National Institute of Health or
6 International Neuropsychological Society.

7 Q. Are you familiar with the WPATH Standard of
8 Care Version 8?

9 A. I think that's related to informed consent or
10 something. You'll have to --

11 Q. Sure --

12 A. -- be specific.

13 Q. Sure. Are you familiar with the WPATH
14 Standards of Care?

15 A. I've read them, yes.

16 Q. Okay. I'm going to show you what has been
17 already admitted. This is Plaintiffs' Exhibit 26.

18 MR. STONE: Your Honor, if we --

19 THE COURT: Oh, sorry.

20 THE WITNESS: This is one of our Army eye
21 tests; correct?

22 THE COURT: It should be there too.

23 THE WITNESS: I see that.

24 THE COURT: Yeah, it's on them to make it
25 bigger.

1 MS. DYER: I'm trying.

2 MR. STONE: Can you Zoom in on this right
3 here?

4 Q. (BY MR. STONE) Doctor, I'm going to show you
5 Statement 6.12.C. And -- sorry. We're going to try to
6 highlight this to make it easier to read.

7 MS. DYER: I'm not going to do that.

8 MR. STONE: All right. I'm not going to
9 try to highlight.

10 Q. (BY MR. STONE) Doctor, can you see it on the
11 screen? I'm just going to read it so that you can
12 follow and tell me if I'm reading this correctly.

13 In most settings for minors, the legal
14 guardian is integral to the informed consent process.
15 If a treatment is to be given, the legal guardian, often
16 the parent/caregiver, provides the informed consent to
17 do so. In most settings assent is a somewhat parallel
18 process in which the minor and the provider communicate
19 about the intervention and the provider assesses the
20 level of understanding and intention.

21 Now, do you see where I -- do you see on
22 the screen where those two sentences are?

23 A. Yes, I read that.

24 Q. Okay. Now, I want to -- and I will try to read
25 slower. Let me go to the very bottom of the page of 63

1 and then going on to Page 64, and then I've got four
2 questions I'm going to be asking. So follow along and
3 tell me if I'm reading this correctly.

4 The following questions may be useful to
5 consider in assessing a young person's emotional and
6 cognitive readiness to assent or consent to a specific
7 gender-affirming treatment.

8 Do you see where I read that?

9 A. Yes.

10 Q. Okay. I want to go through each of these in
11 turn. The first one is: Can the young person think
12 carefully into the future and consider the implications
13 of a partially or fully irreversible intervention?

14 Do you see that?

15 A. Yes.

16 Q. Do you believe that adolescents can think
17 carefully into the future and consider the implications
18 of a partially or fully irreversible intervention like
19 puberty blockers, cross-sex hormones, or gender surgery?

20 A. Well, when you're speaking of adolescents,
21 we're talking, I presume, from 13 to 19, 18 -- well, 18.
22 13 to 18. So that's a wide range. And youngsters that
23 age will vary widely in what they can do. The best way
24 to answer that question is that even the most mature
25 18 -- 17-, 18-year-olds will have an extremely difficult

1 time -- and let's just look at this -- looking into the
2 future and considering the implications of things that
3 are irreversible. That's going to be very difficult if
4 not impossible. Young adolescents have a very difficult
5 time because of the nature of their brain organization.

6 And I remember we were here in Austin
7 probably two or three years ago and I pointed out -- you
8 look at the students -- I don't know which way the
9 university is. Wherever the university is, look at
10 those students, and probably half will change their
11 minds about their minors -- or majors by the time they
12 enter and leave.

13 So the answer to your question is that
14 could be very difficult at best to know, and worse for
15 the younger kids, depending on their maturity, and the
16 reason is because of the way the brain functions in
17 adolescents.

18 Q. Well, let's follow up on that. How does -- can
19 you explain us and the Court, how does the brain
20 function in adolescents?

21 A. In adolescents, the brain functions mainly
22 through the limbic system. The limbic system is only
23 part of the brain. The limbic system is the emotional
24 part of the brain. Everybody in here who has kids and
25 adolescents know what I'm talking about. And the

1 emotional part of the brain is wired into their
2 development, but the prefrontal areas of the frontal
3 cortex, the frontal lobes, have not yet developed yet.
4 Settled science; it's uncontestable. The neurology
5 shows that that part of the brain doesn't fully develop
6 until people are 23, 24, 25 years old.

7 So the answer to your question is that at
8 that stage of life, those youngsters are reasoning on an
9 emotional level. They're not able to -- the executive
10 functions of the brain are exactly what's pointed out
11 here, being able to plan, being able to make decisions,
12 being able to rationalize, and they're really not able
13 to do that yet.

14 Q. Doctor, would it be helpful if we put up an
15 illustrative of a human brain to talk about the
16 different portions of it and how they function?

17 A. If you'd like.

18 Q. Doctor, what -- what are we looking at here?

19 A. You're looking at a cross-section of a human
20 brain.

21 Q. And are you familiar with this particular image
22 of a cross-section of the human brain?

23 A. Yes.

24 Q. How are you familiar with it?

25 A. I provided it to you.

1 Q. Where did you get it from?

2 A. I don't know. One of my textbooks. We have --
3 again, for the medical students, we have hundreds of
4 these that we teach the medical students, mainly at this
5 point the psychiatric residents.

6 Q. Why don't we talk about -- I'd like to talk
7 about the different portions of what's shown on this
8 image. What is the amygdala?

9 A. The amygdala is a nucleus of cells which
10 processes fear and anxiety. And if you'll notice, it's
11 close to what's labeled up here the mammillary bodies
12 and the hippocampus. Those are memory centers of the
13 brain. And the reason I point that out is because
14 learning what hurts us and learning what is threatening
15 is absolutely critical to survival of both the species
16 as well as the individual. And so that area is tied
17 directly into the memory centers.

18 So if you put your hand on a hot stove and
19 get burned, you'll remember that. And those are -- the
20 green areas are basically what I mentioned before, the
21 emotional areas of the brain. Those have to develop
22 first because otherwise the child wouldn't survive. The
23 child wouldn't learn, you know, safety and wouldn't
24 learn, you know, to avoid dangerous things.

25 Q. So how does -- how does this change over time

1 as a child grows and goes through adolescence?

2 A. The rest of the brain develops. The frontal
3 part of the brain, which is to the left of the green
4 curve, is what's designated by neuroanatomists, to
5 include Vesalius. Vesalius demonstrated this as early
6 as the 16th century. So this is not new. Everybody
7 knows this for 400 years. It is the frontal area of the
8 brain. It comprises about one-third of the surface of
9 the brain, so it's massive. That's what makes us
10 humans.

11 And the gray area is the prefrontal area,
12 but those are the last areas to develop, partly just
13 because the brain takes a long time to develop and,
14 again, also partly because those aren't really necessary
15 for children. Children are learning on a more basic
16 level, so they have to learn these emotional things
17 first, and then later they'll learn -- with the
18 prefrontal area they'll learn calculus or they'll learn
19 history or something like that.

20 Q. So you kind of covered it, but I want to
21 specifically ask about it. What does the prefrontal
22 cortex do?

23 A. It does what you -- you've taken it off the
24 screen here. It does what you just asked me, make
25 decisions about future events, be able to rationalize,

1 be able to reason, and be able to weigh consequences of
2 things that are abstract. Jean Piaget was the Swiss
3 child psychiatrist in the '20s and '30s who laid the
4 foundation for child learning with his operational
5 stages of child development. There are four stages:
6 sensorimotor with the babies; preoperational, kids up to
7 seven and nine; concrete operations; and then abstract
8 operations. And with that area not being developed,
9 youngsters in the age that we're talking about are
10 basically concrete and preoperational. So they can
11 figure certain things, but they can't do the abstract
12 reasoning really. They can't form those more difficult
13 concepts.

14 And an example is -- I'll give you one
15 example. You can tell a youngster you have a headache.
16 What do you do for headaches? Everybody in here's done
17 it. You take an aspirin. And the aspirin will make you
18 feel better. But what will aspirin also do? It might
19 make your stomach bleed where you'll die because
20 aspirin's a blood thinner. The kid can't understand
21 that. The kid is just, oh, give me aspirin. And if my
22 head aches more, I'll take more aspirin and more aspirin
23 because it makes it feel better. So that's the
24 rationalization of a youngster because they're not able
25 to understand the more abstract or far-reaching

1 consequences of, well, there might be some dangerous
2 consequences to even an innocuous thing like
3 aspirin-taking.

4 Q. Okay. So I want to go back to the four -- the
5 questions of the four elements from the WPATH. So going
6 to the second question, does the young person have
7 sufficient self-reflective capacity to consider the
8 possibility that gender-related needs and priorities can
9 develop over time and gender-related priorities at a
10 certain point in time might change?

11 Do you see that on the screen?

12 A. I see it.

13 Q. Do you --

14 A. But frankly, I'm having a little bit of trouble
15 following that. I don't think most adolescents can. So
16 again, that's kind of the difficult rationalization that
17 they're requiring people to do or they expect people to
18 do I guess that youngsters probably have a hard time
19 with.

20 Q. Do you believe that minors have sufficient
21 self-reflective capacity to consider that their
22 gender-related needs and priorities can develop and
23 change over time such that they can provide consent or
24 assent to puberty blockers, cross-sex hormones, or
25 surgeries?

1 A. I don't think that's realistic.

2 Q. Why not?

3 A. They don't think like that.

4 Q. Why do -- why do you say they don't think like
5 that?

6 A. I just explained it. And I know how children
7 think. Again, children think concretely. And the
8 child's going to think, well, let's just -- you're
9 talking about adolescents. Anybody in here who's had a
10 wonderful, marvelous pubescent adolescence, raise your
11 hand. No. Everybody has a hard time in adolescence.
12 And you talk to an adolescent and you say, You're having
13 a hard time; here's something that'll fix it, and
14 they'll think that's wonderful. They'll just, yeah,
15 yeah, I feel bad; I'll fix that. They -- they don't
16 reflect on consequences or all the -- they don't know
17 all the ins and outs and all the implications. They're
18 just not able to do that really. And we all know that.

19 Q. What about number 3? Has the young person to
20 some extent thought through the implications of what
21 they might do if their priorities around gender do
22 change in the future?

23 Do you see that on the screen?

24 A. No. My -- my post-doc fellow told me
25 yesterday -- his son's in college. He goes to Tarrant

1 County Junior College. The kid's I guess 17. And the
2 kid was talking to him about he might want to go to
3 medical school, but if that doesn't work out, he'll be a
4 tattoo artist. So, you know, what -- come on. And
5 that's if your -- if your priorities change, they don't
6 do that kind of reasoning yet. Their reasoning is
7 pretty limited. And they're not able to -- if
8 priorities are going to change, it's very difficult for
9 them. So they, you know, come up with statements like
10 that. It's always later that you're able to rationalize
11 much better.

12 Q. What about number 4? Is the young person able
13 to understand and manage the day-to-day short- and
14 long-term aspects of a specific medical treatment?

15 A. Gosh, look at the psychiatric literature, which
16 I can't quote the number, probably hundreds of studies
17 on noncompliance with not only adolescents but adults.
18 We can't get adults to comply with diabetes treatment,
19 so, again, very difficult for children to do to,
20 you know, be fully compliant with a lot of things.
21 You know, kids -- well, one example is attention deficit
22 medications. It's very difficult sometimes to get the
23 kids to stay on their medications the way they're
24 supposed to. That's a -- that's a problem with
25 children.

1 Q. Let's go to Page 258. Okay. Doctor, do you
2 see on the screen where the WPATH has their criteria for
3 prescribing puberty-blocking agents?

4 A. This is what you've highlighted in yellow?

5 Q. I'm going to ask about that in a moment. I'm
6 just asking if you can see it on the screen.

7 A. Where it says puberty-blocking agents?

8 Q. Yes.

9 A. Yes, I see that.

10 Q. Okay. Under C, do you see where it says
11 demonstrates the emotional and cognitive maturity
12 required to provide informed consent/assent to the
13 treatment?

14 A. I see that, yes.

15 Q. Do you believe that minors can demonstrate the
16 emotional and cognitive maturity sufficient to provide
17 informed consent or assent to puberty blockers?

18 A. Let me assure you they don't know what puberty
19 blockers are. They could be told that that's going to
20 stop their puberty. That's not the whole story. They
21 don't -- no, they don't know that. And from what we
22 know of the effects of puberty agents, these agents
23 change the entire functioning of the brain. Everybody
24 in this room's had that because we all went through
25 puberty. And these are agents that normally are in like

1 testosterone and estrogen. That's their function.
2 That's what they do is change the nervous system and
3 brain. An adolescent doesn't understand that, doesn't
4 understand what it does, no.

5 Q. What about under E, informed of the
6 reproductive effects, including the potential loss of
7 fertility and the available options to preserve
8 fertility? Can a minor understand that sufficient to
9 give informed consent or assent to puberty blockers?

10 A. Well, I don't know. I think, yeah, you can
11 tell an adolescent you'll never have children, you'll be
12 sterilized, and I think they probably understand that to
13 some extent. But what does that mean? That not only
14 means you're not going to have children; that means loss
15 of, you know, a child in your later life. That means
16 all sorts of emotional things. That means loss of
17 familial things. I don't think they understand those
18 things.

19 So I think they -- I think they can get
20 the concept that I might never have kids, but when
21 you're -- when you're talking about informed consent,
22 again, let's look at the philosophical underpinning.
23 It's not just, oh, this isn't going to happen. That's
24 really being able to understand all the implications of
25 something.

1 And for example, I'm just going to pick
2 somebody at random, a female having a mastectomy because
3 she has breast cancer. Well, you don't just tell the
4 lady, well, you're just going to lose the breasts. The
5 other consequences are there's pain problems. There are
6 prosthetic problems. There are social problems. That's
7 what informed consent is, is understanding all of those
8 implications, not just, oh, it's going to be gone.

9 Q. I want to look at the criteria for hormonal
10 treatments. Sorry about all the highlighting. I did
11 that. Under C, do you see where it says demonstrates
12 the emotional and cognitive maturity required to provide
13 informed consent/assent to the treatment for hormonal
14 treatments?

15 A. Well, again, no, not really. You took the
16 slide down, but this is -- it's not my saying, but this
17 is the consensus of the scientific community with the
18 citation I had in that children this age are thinking
19 through the amygdala. And the amygdala is purely
20 emotional -- fear, anxiety, or emotional issues. So
21 that's not -- emotional and cognitive maturity is
22 completely the antithesis of amygdala. That's not what
23 the amygdala is.

24 Q. What about the -- number E, informed of the --
25 and this is similar to above, being informed of the

1 potential loss of fertility and available options for
2 preserving fertility before losing that opportunity. Do
3 you believe that a minor can appreciate the consequences
4 of that decision?

5 A. I think I've answered that. Again, I -- I
6 think -- I think an adolescent can probably understand
7 no, I won't have kids. In fact, I remember I was in
8 high school and one of my best friends was informed that
9 he had a medical problem, and I can't remember what it
10 was, and he would not have children. I clearly remember
11 the discussion. And so we understood that he would
12 never have children, but I don't think that you
13 understand the other implications, you know, around
14 that.

15 So yeah, you might be able to understand,
16 again, on a limited basis, yeah, I'm not going to have
17 kids, but my whole point is there are other implications
18 too that probably aren't understood. And we see this --
19 we see this with some of the people who have gone
20 through some of these procedures that -- we're seeing
21 more and more of those folks now who say I just didn't
22 understand fully what would happen to me as a
23 human being and, you know, expressing that in some of
24 their therapy or their communications.

25 Q. Lastly I want to talk about surgeries. And I

1 apologize if some of these questions are redundant, but
2 these are different procedures. Under C, do you see
3 where it says demonstrates emotional and cognitive
4 maturity required to provide informed consent/assent to
5 the treatment?

6 Do you believe that minors have the
7 emotional and cognitive maturity required to provide
8 informed consent or assent to surgical procedures for
9 the treatment of gender dysphoria?

10 A. Again -- again, not fully.

11 Q. Under F, it says -- do you see the criteria
12 where it says at least 12 months of -- before beginning
13 surgical procedures, they have to have at least
14 12 months of gender-affirming hormone therapy or longer
15 unless hormone therapy is either not desired or is
16 medically contraindicated?

17 Do you see that on the screen?

18 A. I see it, yes.

19 Q. Okay. So my question is: Do you think that if
20 a minor is taking cross-sex hormones for a year that --
21 would that change your analysis of whether or not they
22 are having emotional and cognitive maturity required to
23 provide informed consent or assent to a surgical
24 procedure?

25 A. Not really, no. It wouldn't change my opinion.

1 Q. Well, why not? If they're getting
2 testosterone, for example, wouldn't that -- that
3 hormonal development -- couldn't that play a role in
4 their development and maturity if they're not on --
5 couldn't that play a role in development and maturity?

6 A. Well, number one, that's not going to do
7 anything in terms of accelerating their executive
8 function process, so that's irrelevant. It's not going
9 to accelerate it. And number two, just a year is not
10 long enough to appreciate the full effects of some of
11 these medications. And we're now -- some of the recent
12 research is starting to document the side effects of
13 these medications as well as --

14 MR. GONZALEZ-PAGAN: Objection,
15 Your Honor, beyond the scope.

16 THE COURT: So the scope was related to
17 informed consent.

18 MR. STONE: Actually, we designated
19 Dr. Hopewell as an expert specifically on the practice
20 of neuropsychology and clinical psychology and on
21 informed consent. So to the extent that he's testifying
22 about neuropsychology and clinical psychology and the
23 practice thereof, I think this would fall within that.
24 But I don't have a whole lot of questions on that.

25 THE COURT: Sure.

1 MR. STONE: I mean, this is it.

2 THE COURT: Anything else?

3 MR. GONZALEZ-PAGAN: No, Your Honor. He's
4 talking about the effects of medical treatment, which we
5 would argue is beyond the scope.

6 THE COURT: Okay. Well, I guess let me go
7 ahead and let you finish your answer. And that question
8 specifically was: If they're getting testosterone, for
9 example, wouldn't that hormonal development -- couldn't
10 that play a role in their development and maturity if
11 they're not on -- couldn't that play a role in
12 development and maturity? Sorry.

13 MR. STONE: It's a bad question.

14 THE COURT: Which I think you may have
15 answered.

16 A. Well, I think I answered the first part of
17 that. The second part, as a neuropsychologist, as well
18 as a licensed prescriber, again, that's not enough time
19 for those medications to have their full effects. So
20 you're going to have a longer interval time to see some
21 of the consequences of them, and that plays a part in
22 decision-making. We had testimony -- well, I won't even
23 go into that. But we've had testimony similar to that
24 from people who say I was on these medications for a
25 long time, and it took me --

1 MR. GONZALEZ-PAGAN: Your Honor --

2 A. -- this long to understand it.

3 MR. GONZALEZ-PAGAN: Objection,

4 Your Honor.

5 THE COURT: Hold on. Hold on. We're not
6 doing very good question/answer, so let's ask the next
7 question.

8 Q. (BY MR. STONE) Doctor, is -- do you believe
9 that informed consent or assent is required from a
10 medical perspective from a minor for a procedure for
11 which there could be irreversible consequences?

12 A. That it's required?

13 Q. That -- yeah, required.

14 A. I think there are many instances where it's not
15 required. One example might be a blood transfusion
16 where the youngster may not want to or give assent, but
17 it's lifesaving. Did I understand your question
18 correctly?

19 Q. Sure. Let me rephrase it. In the context of
20 the treatment -- medical interventions for the treatment
21 of gender dysphoria, in your opinion is the -- just as
22 the WPATH requirements state, do you believe that
23 informed consent or assent from the minor is necessary
24 before beginning one of those treatments?

25 A. For sex dysphoria or -- I'm --

1 Q. Let me ask --

2 A. I'm not following the question I guess.

3 Q. Sure. So let me ask it differently. Do you
4 agree with the WPATH Standard of Care 8 that what we've
5 just been reviewing, that these are all things that a
6 clinician should be evaluating before beginning these
7 courses of treatment in terms of getting informed
8 consent or assent to that treatment from a minor?

9 A. Well, I agree that if it's possible, you should
10 get assent for any treatment, whether it's, you know,
11 sex related or anything else. The question I have is
12 what their capability is to do.

13 MR. STONE: Your Honor, pass the witness.

14 THE COURT: All right. Thank you. Can
15 we -- do we need -- okay. It's about 3:15, which is
16 usually when I take the afternoon break, so we're going
17 to do that and resume at 3:30.

18 MR. GONZALEZ-PAGAN: Thank you,
19 Your Honor.

20 THE COURT: And you can step off the
21 witness stand, Dr. Hopewell.

22 *(Recess taken)*

23 THE COURT: All right. Go ahead.

24 MR. GONZALEZ-PAGAN: Thank you,
25 Your Honor.

CROSS-EXAMINATION

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BY MR. GONZALEZ-PAGAN:

Q. Good afternoon, Dr. Hopewell.

A. Good afternoon.

Q. My name is Omar Gonzalez-Pagan.

A. I'm sorry?

Q. Omar Gonzalez-Pagan is my name.

A. Pagan?

Q. Yes, Gonzalez-Pagan. Thank you. Dr. Hopewell, have you diagnosed any patient under 18 for gender dysphoria?

A. Yes.

Q. When?

A. I think we have a couple now.

Q. And have you treated any patient under 18 for gender dysphoria?

A. Oh, yes.

Q. You do not have any peer-reviewed publications relating to gender dysphoria; is that correct?

A. Now, I'd rather -- I'd rather use the term sex dysphoria. Gender is a literary term. But no, I haven't published on that.

Q. The diagnosis in the DSM-V is of gender dysphoria; is that correct?

A. Well, they got it wrong.

1 THE COURT: All right. Well, we're
2 calling it gender dysphoria, Doctor. If you don't want
3 to use that term, that's fine, but he's going to use
4 that term.

5 THE WITNESS: Yeah. I'm a scientist, so I
6 try to use correct terms.

7 THE COURT: I don't need the extra
8 commentary. Let's get to the question.

9 Q. (BY MR. GONZALEZ-PAGAN) So have you conducted
10 any -- do you have any peer-reviewed publications
11 related to gender dysphoria?

12 A. No.

13 Q. Have you conducted any original research
14 relating to gender dysphoria?

15 A. No.

16 Q. You made reference to the capacity of children
17 and adolescents to consent to medical care. That was
18 your testimony; right?

19 A. Yes.

20 Q. Minor patients assent to care and their parents
21 or guardians consent to care; is that correct?

22 A. That's my understanding, yes.

23 Q. Medical treatment is provided to minor patients
24 for all kinds of medical conditions; is that right?

25 A. Yes, of course.

1 Q. Is it your testimony that no minor can assent
2 to medical treatment if such treatment has long-term
3 effects?

4 A. Well, I've already testified at length that
5 when you talk about minors, it's a wide period of time.
6 And I think that the AMA specifically answers that
7 question by saying that the assent needs to be tailored
8 to the child, to the developmental age, to the maturity,
9 to the understanding of the child. So I'm not going to
10 issue a blanket statement because the time period is too
11 long and children are different. Maybe I'm not
12 understanding your question.

13 Q. No. Thank you. That's very helpful. So you
14 would agree then that a minor can assent to medical
15 treatment when such treatment has long-term effects
16 depending on their developmental stage, maturity,
17 cognitive level?

18 A. Except I've already testified that minors don't
19 have the capacity to understand fully all the long-term
20 consequences of anything really.

21 Q. So given that minors cannot understand the
22 long-term consequences of anything really, does that
23 mean that they cannot assent to --

24 A. Really their assent's going to be --

25 Q. -- medical care --

1 A. Their assent's going to be --

2 Q. Let me finish my question.

3 THE COURT: Hold on. Hold on.

4 THE WITNESS: I'm sorry.

5 THE COURT: Hold on. We can't talk over
6 each other because Ms. Crain's going to get very upset
7 with us. So if you can finish your question.

8 MR. GONZALEZ-PAGAN: Thank you,
9 Your Honor.

10 THE COURT: Okay.

11 Q. (BY MR. GONZALEZ-PAGAN) If you'd please let me
12 finish my question before answering, I'll strive to do
13 the same as well. Thank you.

14 Is it your testimony then that a minor,
15 because they do not have the ability to comprehend
16 long-term effects, cannot assent to medical treatment if
17 such treatment has long-term effects?

18 A. I think that's basically correct. Again,
19 you're asking me a yes or no question, which is not
20 readily answerable with either yes or no, but certainly
21 the assent's limited. And with what I've testified
22 before, I -- I would basically say no because they don't
23 have the capacity to make those decisions or to form
24 that complete understanding.

25 Q. Are you aware of the body of literature

1 indicating that adolescents are capable of deliberative
2 decision-making in the presence of adults and when the
3 decision-making occurs over a protracted period of time?

4 A. I'm aware of some of it.

5 Q. You have testified in favor of bills similar to
6 SB 14; is that correct?

7 A. Yes.

8 Q. In your testimony before the Texas Legislature,
9 you said in reference to the provision of
10 gender-affirming medical care that it is -- quote, "This
11 is really a hysterical phenomenon," closed quote. Is
12 that right?

13 A. It is.

14 Q. You were deposed in a case *In the Interest of*
15 *J.A.D.Y. and J.U.D.Y.* in 2019; is that right?

16 A. I gave a deposition in 2019, but I think you're
17 using terms I don't know what --

18 Q. Sure.

19 A. -- what that is.

20 THE COURT: I think he's just using the
21 initials of the children. That's typically how the case
22 style works.

23 A. Okay. I think I know what you're referencing.

24 Q. (BY MR. GONZALEZ-PAGAN) You were deposed in
25 September of 2019 in relation to a custody matter?

1 A. To a what?

2 Q. A custody matter.

3 A. Yes.

4 Q. In that deposition when you were asked "Is it
5 possible for a person to be born one sex and want to
6 identify as the opposite sex at some point?" you
7 responded "That's not possible." Is that right?

8 A. What was the question again?

9 Q. "Is it possible for a person to be born one sex
10 and want to identify as the opposite sex at some point?"
11 Your response was "That's not possible."

12 A. Well, you can --

13 Q. Do you recall that testimony?

14 A. I don't remember specifically. But yeah, you
15 can identify with whatever you wish. I think my intent
16 was that you can't change your sex, which is not
17 possible, but people can identify with lots of different
18 things.

19 Q. In that deposition you testified, quote, "There
20 aren't transgender children," closed quote. And when
21 asked "Are there transgender adults?" you said "No."

22 A. You can't change your sex, no.

23 Q. In that deposition when asked "What's the
24 definition of a transgender individual?" you responded
25 "Well, I don't know. It's a meaningless term." Is that

1 consistent with your testimony?

2 A. That's -- after I discussed it with Dr. Zucker,
3 I agreed with him that that was essentially meaningless
4 because an individual can say whatever they wish. They
5 can identify however they wish, so it's meaningless.

6 Q. Are you aware that Dr. Zucker -- and you're
7 referring to Kenneth Zucker; is that right?

8 A. Right.

9 Q. And Dr. Zucker, who is in Canada at the Center
10 for Addiction -- used to head the Center for Addiction
11 and Mental Health in Canada; is that right?

12 A. That's the one that I spoke with, yes.

13 Q. Yes. Are you aware that he actually provided
14 gender-affirming medical treatment to adolescents after
15 the onset of adolescence -- of puberty?

16 A. Well, he can do whatever he wishes. I assume
17 he has done that. That doesn't change the fact of his
18 definition of it.

19 MR. GONZALEZ-PAGAN: No further questions,
20 Your Honor.

21 THE COURT: All right. Any further
22 redirect?

23 MR. STONE: Just a couple of follow-up
24 questions, Your Honor.

25 THE COURT: Okay.

REDIRECT EXAMINATION

1
2 BY MR. STONE:

3 Q. What did you mean when you said that the cases
4 were hysterical? I didn't quite catch the whole quote,
5 but something about cases being hysterical.

6 A. Well, all the evidence points to this recent
7 phenomenon which the -- I think the -- part of the term
8 now is rapid onset dysphoria as having a genuine
9 hysterical component. Admittedly, there are youngsters
10 who -- I'm trying to -- I'm trying to phrase this
11 correctly -- who genuinely have sexual disorders and
12 have had them, but we have -- this is not a unitary
13 phenomenon. Not everybody who walks in and says I have
14 back pain has all of a sudden back pain.

15 So we have different groups of children or
16 adolescents or adults who claim different problems for
17 different reasons. The evidence shows that a large
18 number of youngsters are being influenced by social
19 media, by peer pressure, things like that. And this has
20 gone in cycles in the United States. The last big cycle
21 which we had in Texas, which the Texas Legislature
22 investigated, was that of multiple personality disorder,
23 which resulted in hospitals being built essentially. So
24 there's a hysterical component to this issue that needs
25 to be acknowledged.

1 Q. Doctor, you testified earlier in response to a
2 cross-examination question that you treat patients who
3 are minors for gender dysphoria; right?

4 A. We -- we have a few. My practice is varied,
5 mostly to neurological issues. We also treat a number
6 of -- I say we; my staff. We treat a number of veterans
7 and veterans' families, and so we have -- at this moment
8 we have two or three youngsters with these kinds of
9 issues that we're -- that we're following and following
10 for different reasons. So it's not something that I've
11 never seen or never done. Again, I've served on a
12 sexual surgery team, but this was -- again, since
13 there's this component -- you never saw these kinds of
14 children, you know, more than 10 years ago or 15 years
15 ago. This is -- you know, just this surge has just
16 happened really since about 20 -- two thousand, I
17 guess -- 25.

18 Q. How do you treat those patients for gender --
19 minors for gender dysphoria?

20 A. Well, they're treated properly in terms of
21 80 percent have emotional difficulties. The testimony
22 earlier here alluded to that. So the primary treatment
23 and the primary treatment that's really recommended is
24 to address the emotional issues of the family and the
25 youngsters and explore what's best for them and what's

1 going to be helpful and also to treat any comorbid
2 emotional disorders.

3 70 percent -- the research has documented
4 that 70 percent of girls claiming that they want to
5 change sex and be a boy are -- that there's a large
6 autistic component, for example. That's a comorbid
7 disorder. So that's how we treat those youngsters, is
8 by working with all those disorders.

9 Q. Thank you.

10 MR. STONE: Pass the witness, Your Honor.

11 THE COURT: Anything further?

12 MR. GONZALEZ-PAGAN: Nothing further,
13 Your Honor.

14 THE COURT: All right. Dr. Hopewell, your
15 time on the stand is done.

16 THE WITNESS: Thank you, ma'am.

17 THE COURT: You are excused.

18 THE WITNESS: I'm sorry for talking over
19 people.

20 THE COURT: That's okay. I've just got
21 to -- I'm the referee.

22 All right. For defense, who's your next
23 witness?

24 MR. ELDRED: Dr. John Perrotti.

25 THE COURT: I'm sorry. The last name

1 again?

2 MR. ELDRED: Perrotti.

3 THE COURT: Perrotti. All right.

4 Dr. John. If you'll raise your right hand for me.

5 *(Witness sworn)*

6 THE COURT: All right. You can make your
7 way around up to this witness stand. Go ahead.

8 MR. ELDRED: Thank you.

9 **JOHN PERROTTI, M.D.**

10 having been first duly sworn, testified as follows:

11 **DIRECT EXAMINATION**

12 BY MR. ELDRED:

13 Q. Please state and spell your name.

14 A. Sure. J-o-h-n, P-e-r-r-o-t-t-i.

15 Q. How do you pronounce that last name?

16 A. Perrotti.

17 Q. Thank you. What is your profession?

18 A. Plastic surgery.

19 Q. Go ahead and pour yourself some water.

20 A. That's okay. I can wait.

21 Q. What degrees do you hold?

22 A. I hold a bachelor of science and an MD, medical
23 doctor.

24 Q. Where did you go to medical school?

25 A. New York Medical College.

1 Q. And what year did you graduate from medical
2 school?

3 A. 1991.

4 Q. What year did you -- or I'm sorry. Where did
5 you do your resident --

6 A. I did --

7 Q. -- residency?

8 A. I did two residences, the first in general
9 surgery at St. Vincent's Hospital in New York City, and
10 I did a subsequent plastic surgery residency at the
11 Cleveland Clinic, and I finished the second residency in
12 1998.

13 Q. Do you hold any board certifications?

14 A. American Board of Plastic Surgery
15 certification.

16 Q. Are you currently licensed to practice
17 medicine?

18 A. I am, in both New York and Florida.

19 Q. How long have you been practicing medicine as a
20 plastic surgeon?

21 A. Since -- well, subsequent to residency, since
22 1998. It's almost 25 years.

23 Q. What hospitals do you hold privileges at?

24 A. Currently I hold privileges at Lenox Hill
25 Hospital and its subsidiaries in New York and

1 Metropolitan Hospital also in New York.

2 Q. Have you ever held any academic appointments?

3 A. Assistant clinical professor of surgery at
4 New York Medical College.

5 Q. Do you still have that appointment?

6 A. Yes.

7 Q. Have you published in the area of plastic
8 surgery?

9 A. I have.

10 Q. What kind of things have you published?

11 A. I've published some reconstructive surgery
12 articles, some cosmetic or aesthetic surgery articles.

13 Q. Have you ever testified as an expert on the
14 subject of plastic surgery?

15 A. In general, yes.

16 Q. How many times?

17 A. I don't know.

18 Q. More than five?

19 A. Probably closer to ten.

20 Q. Okay. Do you have education and training
21 concerning obtaining informed consent to plastic
22 surgery?

23 A. Yes.

24 Q. What education and training do you have?

25 A. Well, informed consent is something that we

1 learn -- we learn it before residency -- before
2 residency while we're still in medical school by
3 shadowing the residents, but informed consent in the
4 surgical field is something that we learn day one in
5 internship and basically throughout the years of
6 surgical training, and it's something that surgeons do,
7 you know, every time that they operate or do a
8 procedure.

9 Q. And I think you may have answered this already,
10 but do you have experience with obtaining informed
11 consent for plastic surgery?

12 A. I do.

13 Q. And just tell us what that is.

14 A. What is -- what is my experience?

15 Q. Yes, sir.

16 A. Explaining the risks, benefits, and
17 alternatives, and limitations of surgical procedures or
18 interventions to patients, and I've been doing that for
19 almost 30 years.

20 Q. Have you performed any particular research on
21 obtaining informed consent for plastic surgery?

22 A. I have not -- I'm sorry. Could you repeat
23 that?

24 Q. Have you performed any research concerning
25 obtaining -- concerning -- concerning obtaining -- let

1 me try this again.

2 Have you performed any research on
3 obtaining informed consent to plastic surgery?

4 A. I have not.

5 Q. Okay.

6 MR. ELDRED: And Your Honor,
7 Dr. Perrotti's CV is Defendants' Exhibit 2. And at this
8 time we'd like to proffer him as an expert in the
9 practice of plastic surgery and informed consent in
10 plastic surgery.

11 THE COURT: Any objection?

12 MR. SELDIN: Can we have voir dire very
13 briefly, Your Honor?

14 THE COURT: Okay. Very briefly.

15 **VOIR DIRE EXAMINATION**

16 BY MR. SELDIN:

17 Q. Dr. Perrotti, good afternoon.

18 A. Good afternoon.

19 Q. Have you received any specialized training in
20 the treatment of gender dysphoria in adolescents?

21 A. I have not.

22 Q. Have you conducted any research on the safety
23 of surgical procedures to treat gender dysphoria in
24 adolescents?

25 A. I have not.

1 Q. Have you conducted any research on the efficacy
2 of surgical procedures to treat gender dysphoria?

3 A. I have not.

4 Q. Have you published any peer-reviewed research
5 on surgical procedures to treat gender dysphoria?

6 A. I have not.

7 Q. Have you ever provided surgery to treat gender
8 dysphoria in an adolescent?

9 A. I have not.

10 Q. Have you ever provided surgery -- have you ever
11 been a part of providing informed consent for surgery to
12 treat gender dysphoria in an adolescent?

13 A. I want to answer that question carefully. I --
14 if we're talking about gender-affirming procedures, then
15 the answer would be no. If we're talking about treating
16 transgender patients for issues that turn up which -- in
17 transgender surgery, then the answer would be yes.

18 MR. SELDIN: Your Honor, we would ask that
19 this -- we would proffer the -- proffer for this expert
20 is sufficient only for informed consent as to surgery
21 generally and not as to the outcomes of any particular
22 gender-affirming surgery.

23 THE COURT: Let me ask you this,
24 Dr. Perrotti. How much of your practice is plastic
25 surgery on minors?

1 THE WITNESS: Minors in general would
2 probably be somewhere around 10 percent.

3 THE COURT: All right. Because that's
4 where I think he could talk about that, but it's -- it
5 would be specific to that as opposed to -- so I guess I
6 just gave my ruling, which is --

7 MR. SELDIN: I'm happy to argue with you,
8 Your Honor, but I think you've ruled.

9 THE COURT: Just so that I'm clear on,
10 you know, sort of -- I mean, to the extent -- I mean,
11 he's -- I've understood his caveats about what he has
12 not -- has and has not done. And I think with respect
13 to informed consent, it's in the areas of -- in the area
14 of plastic surgery in minors, okay?

15 MR. SELDIN: Thank you, Your Honor.

16 THE COURT: Thank you. Not that I expect
17 you to agree with me, but...

18 MR. SELDIN: Very happy to.

19 THE COURT: All right, Mr. Eldred.

20 MR. ELDRED: Thank you.

21 **CONTINUED DIRECT EXAMINATION**

22 BY MR. ELDRED:

23 Q. What kind of surgical procedures -- what kind
24 of plastic surgical procedures are commonly offered for
25 the treatment of gender dysphoria?

1 A. There are several broad categories, one being
2 so-called top surgery or breast or chest surgery. The
3 second would be types of facial surgery. And the third
4 would be so-called bottom surgery or genital surgery.

5 Q. What's top surgery more specifically?

6 A. So top surgery describes surgery used to treat
7 the chest in gender dysphoria.

8 Q. What kind of surgical procedures are included
9 in top surgery?

10 A. So there's two broad categories, obviously.
11 One is for female to male and one is for male to female.
12 Male to female is one of the more common procedures.
13 That procedure is -- it's got several names, double
14 mastectomy, bilateral mastectomy.

15 Q. That's male to female or female to male?

16 A. That is female to male.

17 Q. Okay.

18 MR. ELDRED: Your Honor, may we approach?
19 Can counsel approach the bench?

20 *(Discussion off the record)*

21 THE COURT: Is it those three?

22 MS. DYER: May I approach the witness and
23 just give it to him?

24 THE COURT: Yes.

25 Q. (BY MR. ELDRED) Doctor, we're going to talk

1 about some of these procedures. Do you think it would
2 be beneficial to the Court when we talk about procedures
3 to show pictures of what they entail?

4 A. Yes.

5 Q. And did you send me some pictures of some of
6 these procedures -- well, send our office some pictures
7 of some of these procedures to help demonstrate what
8 we're talking about?

9 A. Yes.

10 Q. And would showing this picture -- let's start
11 with a double mastectomy. Would showing pictures of a
12 double mastectomy help the finder of fact, Her Honor,
13 demonstrate what you're talking about?

14 A. Yes.

15 Q. So I think we're showing you some pictures of
16 double mastectomies now that you sent us before from the
17 National Institutes of Health website. Do you recognize
18 those pictures?

19 A. Yes.

20 MR. ELDRED: And Your Honor, can you see
21 them?

22 THE COURT: Yes.

23 Q. (BY MR. ELDRED) And just for the record, we
24 have decided not to show these in the courtroom, but the
25 judge can see them and the witness can see them.

1 So why don't you just tell us what we're
2 looking at here.

3 A. Right. So before I tell you that, I'd just
4 like to say that there are several different ways and
5 procedures to do a double mastectomy or a top surgery,
6 and this is -- this is one of them. So these
7 photographs show preoperative images above with normal
8 healthy breast tissue and postoperative images below of
9 one of the post-mastectomy procedures.

10 Q. And when this procedure is done on a minor for
11 the purpose of gender dysphoria, are these pictures
12 equally demonstrative of what happens?

13 A. They are for one of the techniques that's used
14 to perform a double mastectomy.

15 Q. Can you describe the techniques?

16 A. Sure. There are several techniques. This
17 appears to show a technique where there's only a
18 periareolar incision. That means an incision around the
19 nipple. There's other surgeries that have more
20 extensive incisions. That depends on the patient's
21 anatomy, the amount of breast tissue that they have, the
22 amount of skin that they have. It's individualized to
23 the particular patient.

24 Q. And do minors who undergo this -- first of all,
25 have you performed this procedure on minors before?

1 A. I have not performed mastectomies on minors,
2 no.

3 Q. For any purpose?

4 A. For any purpose.

5 Q. Okay. Are these pictures of -- the after
6 pictures comparable to what a minor who received a
7 double mastectomy would appear?

8 MR. SELDIN: Objection, Your Honor. He's
9 just testified that he has not performed this procedure.

10 THE COURT: So I guess for my
11 clarification, these aren't -- these aren't necess- --
12 are these photos of your patients, Dr. Perrotti?

13 THE WITNESS: They are not.

14 THE COURT: Okay. But --

15 THE WITNESS: And -- I'm sorry.

16 THE COURT: No, that's okay. But they're
17 examples that you have located of mastectomies in -- but
18 not in minors -- or -- right? Or you don't know?

19 THE WITNESS: If I can clarify my answer.

20 THE COURT: Sure.

21 THE WITNESS: So I have not performed -- I
22 forget what your question was, if it was specific to
23 transgender surgery. I have not performed subcutaneous
24 mastectomies or bilateral mastectomies through a
25 periareolar approach for transgender patients, but I

1 have performed this procedure for other issues such as
2 gynecomastia, and I have performed them in minors under
3 18.

4 Q. (BY MR. ELDRED) Okay. All right. I don't
5 think we really -- why don't you just explain briefly
6 the ways you do a double mastectomy.

7 A. Okay. There's -- there's two ways. There's at
8 least two ways. One way is through a periareolar
9 approach as in this particular patient. That is where
10 the surgery is done with incisions around the nipple, no
11 other incisions, as can be seen in this photograph -- in
12 these photographs. Another more common I believe
13 procedure is a double incision where there's an incision
14 that's made underneath the breast as well as around the
15 nipple. And no, I have not performed that type of
16 mastectomy in minors.

17 Q. Okay. What are the potential long-term
18 complications of double mastectomy?

19 A. So the short-term complications to surgery,
20 which is bleeding, infection, wound healing problems,
21 and those are really all types of surgery and all
22 different techniques. The long-term complications of a
23 double mastectomy and particularly a double mastectomy
24 for transgender patients are long-term problems with
25 wound healing, long-term problems with contour

1 deformities. Depending on how the nipple is treated,
2 some of these procedures treat the nipple with a -- with
3 a free nipple graft where the nipple is removed and then
4 placed as a skin graft. Those patients can have
5 problems with nipple -- well, they do have problems with
6 nipple sensitivity. They can have problems with nipple
7 projection, nipple pigmentation, and other deformities
8 like that.

9 Q. Can this affect the breastfeeding function?

10 A. Certainly a mastectomy that removes the breast
11 tissue and/or devitalizes the nipple renders the patient
12 unable to breastfeed.

13 Q. How about the other top surgery, breast
14 augmentation? How do you perform that?

15 A. So breast augmentation is obviously performed
16 in the transgender population for male to female. And
17 no, I have not performed trans -- I have not performed
18 breast augmentation in transgender, but I certainly have
19 performed many, many breast augmentations. Breast
20 augmentation is basically through various incision
21 locations on the chest that basically a breast implant
22 is placed usually under the pectoralis muscle.

23 Q. And I think this is a dumb question, but if a
24 male gets a breast augmentation, can that male
25 breastfeed?

1 A. Of course not.

2 Q. Why not?

3 A. Because the male has no native breast tissue.

4 Q. Are there potential long-term complications of
5 breast augmentation?

6 A. So breast augmentation complications, the short
7 term, are the same that I previously mentioned. The
8 long-term complications are wound healing, infection,
9 what we call -- what's known as capsular contracture
10 where scar tissue forms around the implant. Scar tissue
11 always forms around an implant. Sometimes that implant
12 becomes problematic. Breast implants are known to
13 rupture. Breast implants are known to leak. So the
14 complications are -- the long-term complications are
15 almost specifically due to the implant themselves.

16 MR. ELDRED: And Judge, I think --

17 Q. (BY MR. ELDRED) Have you only -- I want to go
18 back to the double mastectomy picture. Have you looked
19 at just one picture? Or how many pictures have you
20 looked at?

21 A. I've only seen one. Well, the set. The one
22 set, yes.

23 MR. ELDRED: Can you show him the other
24 two sets?

25 MR. SELDIN: If we could just have an

1 identification of what number in Box we're at, please.

2 THE COURT: Sure. I'm assuming you're
3 wanting him to see D-15 and D -- oh.

4 MR. ELDRED: I believe D-13 -- one of them
5 has two sets and one of them has one set. I apologize.

6 MS. DYER: This is 14.

7 THE COURT: You're at 14, Ms. Dyer?

8 MS. DYER: Yes. D-13 was the initial one.
9 This is D-14. And I'll show him D-15 in just a moment.

10 THE COURT: Okay. I'm at D-14.

11 MR. ELDRED: Okay. I got you. I got you.

12 Q. (BY MR. ELDRED) Does D -- what does D-14 show,
13 the one you're looking at now?

14 A. So this is the other technique of double
15 mastectomy where there's two incisions. There's an
16 inframammary incision, which is in the breast crease,
17 and there are incisions around the nipple and most
18 likely free nipple grafts where the nipples are taken
19 off and they're replaced as skin grafts.

20 MR. ELDRED: And can you show him
21 Exhibit -- it's 16?

22 MS. DYER: 15.

23 MR. ELDRED: 15. I apologize.

24 THE COURT: I'm there.

25 A. And --

1 Q. (BY MR. ELDRED) What is -- what are we looking
2 at in D-15?

3 A. This is the same. This is the same as the
4 previous one where it's a double incision, double
5 mast- -- double mastectomy where there's the incision in
6 the inframammary crease below the breast and then
7 incision around the nipple. And you can see the nipple
8 has been resized, reshaped, and relocated.

9 Q. And in all three of these sets, D-13, D-14, and
10 D-15, are we seeing before and after pictures?

11 A. That's correct. The before pictures are above
12 and the after pictures are below.

13 Q. All right. Thanks. I'd like to move on --
14 what is facial feminization surgery?

15 A. So facial feminization surgery is performed on
16 male to female transgender patients basically to make
17 the -- give the face a more feminine procedure -- I'm
18 sorry -- appearance. These procedures -- there are
19 several procedures. They most often involve a surgery
20 on the forehead, surgery on the nose, surgery on the
21 jaw, surgery on the larynx.

22 Q. Are there potential complications of facial
23 feminization surgery?

24 A. The potential complications are the same as any
25 surgery, bleeding, infection, wound healing problems.

1 There's always -- in any type of structural surgery,
2 there's always contour deformities. Some of the
3 complications of rhinoplasties apply where there's both
4 structural complications as well as cosmetic
5 complications.

6 Q. Let's move on to bottom surgery. What are the
7 kinds of bottom surgery?

8 A. So bottom surgery entails phalloplasty for a
9 female to male or a vaginoplasty for a male to female.

10 Q. All right. What's a phalloplasty exactly?

11 A. So a phalloplasty is basically creation of a
12 penis and whatever other external genitalia for a trans
13 male patient.

14 Q. By trans male, you mean a female to male
15 person?

16 A. That's correct.

17 Q. I think we're looking at D-16 now.

18 MR. SELDIN: Your Honor, we would just
19 note our objection on the record to the extent these are
20 Wikipedia articles.

21 THE COURT: Sure. Hold on. Are you going
22 to ask to have them admitted, Mr. Eldred?

23 MR. ELDRÉD: No, Your Honor. I just want
24 to use the pictures -- let me set a little more of a
25 predicate.

1 Q. (BY MR. ELDRED) Did you send us pictures from
2 Wikipedia to show examples of phalloplasty and
3 vaginoplasty?

4 A. Yes.

5 Q. Even though they're Wikipedia, are they
6 demonstrative of those types of procedures?

7 A. Yes.

8 Q. So I'd like to show you and the judge --

9 MR. ELDRED: I think it's D-16. Is that
10 what it is?

11 THE COURT: It's actually D --

12 MR. ELDRED: And really we just want to
13 look at pictures. We don't want to read anything.

14 THE COURT: I guess as a demonstrative
15 that's fine, but your objection's noted.

16 MR. SELDIN: Thank you, Your Honor.

17 Q. (BY MR. ELDRED) And can you just -- again,
18 don't talk about the article itself. We're just looking
19 at the pictures. And describe what the pictures show
20 and how that demonstrates the phalloplasty procedure.

21 A. So the photographs basically show what a
22 phalloplasty looks like or at least in this particular
23 instance of this photograph. Phalloplasty is performed
24 most usually by taking a flap, which is a collection of
25 tissue, from a distant area. And most commonly it's

1 taken from the radial forearm as a radial forearm flap.
2 And that is used to form a penis where it's attached in
3 the location. And obviously the female genitalia are
4 removed.

5 Q. Can it also include a scrotum and testicles?

6 A. A scrotum can also be fashioned by using skin
7 grafts and/or scrotal implants, and phalloplasty also
8 can contain penile implant.

9 Q. And this again is probably a dumb question, but
10 if a patient receives this procedure, will that patient
11 have a functioning penis?

12 A. I think the jury is still out on that. The
13 literature is not really clear. I -- they can have a
14 functioning penis if they go through the steps of the
15 penile implants. And I'm assuming by functioning you
16 mean a sexual function.

17 Q. Okay. I apologize for this question, but would
18 that include -- if someone receives a phalloplasty, can
19 they ejaculate?

20 A. No. And also another important part of
21 phalloplasty is surgery and relocation of the urethra
22 where someone -- what's used to urinate. So from any
23 transgender surgery, the urethra needs to be lengthened
24 or shortened and/or repositioned.

25 Q. Okay. And does the phalloplasty surgery have

1 an effect on the female anatomy, the sexual anatomy of a
2 female?

3 A. I'm not sure I understand the question.

4 Q. If a female to male gets a phalloplasty, can
5 the patient still perform sexual function as a female?

6 A. The patient can't perform sexual function as a
7 female, no, but the patient can sometimes achieve
8 orgasm.

9 Q. Okay. What are potential complications of
10 phalloplasty?

11 A. So again, it's the short-term complications of
12 wound healing infection. With a phalloplasty there's
13 also a donor site, so there's long-term complications of
14 donor site -- donor site scarring. Any time there's a
15 flap that's moved to another location, there's always a
16 chance that that flap will not survive or that flap will
17 only partially survive. Because of what I mentioned
18 about the urethra and the urinary flow, there's
19 potential long-term complications of what's known as
20 urethral strictures or scar tissue in the urethra.
21 There's also urinary complications such as urinary tract
22 infections.

23 Q. All right. Let's look at D-17.

24 MR. SELDIN: Your Honor, we would have the
25 same set of objections.

1 THE COURT: And this is on 17?

2 MR. SELDIN: Just noting for the record.

3 THE COURT: Understood. Thank you. So
4 noted.

5 Q. (BY MR. ELDRED) And I'm sorry. I want to
6 stick with the phalloplasty for just a little bit
7 longer. How long is -- does the phalloplasty take? Is
8 it a one -- is it -- I'll stick with that. How long
9 does it take to complete a phalloplasty?

10 A. So phalloplasty is most likely a multistage
11 procedure and usually somewhere between two and three
12 stages.

13 Q. About how long in terms of months, weeks, years
14 does it take to complete the procedure?

15 A. Usually the first stage is done, then the
16 second stage is done at about six months after that, and
17 the third stage may not be done until a year afterwards.

18 Q. So what is a vaginoplasty?

19 A. So a vaginoplasty is so-called bottom surgery
20 for male to female. And a vaginoplasty is where the
21 penile tissue and the scrotal tissue is used to create a
22 vagina, also known as a neovagina.

23 Q. What's the difference between a vagina and a
24 neovagina?

25 A. I guess a neovagina is one that's constructed

1 or reconstructed for that matter.

2 Q. And does D-17 -- again, this is a Wikipedia
3 article. I don't want you to talk about the words or
4 anything, but there are some photographs in D-17. Are
5 those -- would those photographs help the judge
6 understand what this procedure is?

7 A. Yes. These photographs just show basically the
8 external appearance of a neovagina. They don't -- they
9 don't show obviously the inside of the vagina or
10 anything else like that.

11 Q. So this is an after picture?

12 A. That's correct.

13 Q. And I'm going to ask I think a dumb question
14 again, but if a patient gets a vaginoplasty, can that
15 patient get pregnant?

16 A. No.

17 Q. Why not?

18 A. Because the patient doesn't have a uterus.

19 Q. Does the patient have ovaries?

20 A. The patient does not have ovaries.

21 Q. How do you perform a vaginoplasty?

22 A. So the most common technique is what's called a
23 penile inversion technique where the actual skin of the
24 penis is removed and fashioned into a tube-like
25 structure that is then inserted between the ureter and

1 the rectum to form a vagina. This is often supplemented
2 with skin in the form of a skin graft taken from
3 somewhere else.

4 Q. And are there potential complications in a
5 vaginoplasty?

6 A. So the complications are -- for bottom surgery
7 in general, the complications are more significant.
8 There's the short-term complications, but for procedures
9 like this, there's much more serious long-term
10 complications. For vaginoplasty in particular, there's
11 problems with loss of depth, loss of girth. There's
12 problems with skin slough from the skin that's used to
13 create the inside of the vagina. There's problems with
14 a total loss of the vagina. There's what's called
15 fistulas, which are connections between the vagina and
16 the ureter and/or the rectum.

17 Q. And what's that?

18 A. That would be an abnormal connection between
19 the tissue of the vagina and the tissue of the ureter,
20 which is used for urination, or the rectum, which is
21 used for defecation.

22 Q. And when you said I think the loss of depth and
23 girth, can you explain that a little bit more?

24 A. Sure. This is -- this is other tissue that's
25 used to create a vagina. So with time, that tissue will

1 contract, particularly a skin graft, and that tissue
2 will lose its depth and will lose its girth. And that's
3 why after a vaginoplasty the patients need to use a
4 dilator to dilate the neovagina to keep it open, so to
5 speak.

6 Q. I think that's it for the pictures. So let's
7 move on to a new topic, informed consent. What is
8 informed consent in the context of plastic surgery?

9 A. So informed consent is explaining the risks,
10 benefits, alternatives, and also the limitations of a
11 particular surgical procedure or intervention.

12 Q. And why is it important?

13 A. It's important that the patient understands the
14 risks, what can go wrong, they understand what the
15 benefits are, what can be achieved, and that they
16 understand the limitations of what cannot be achieved
17 and also what the alternatives to those treatments are.

18 Q. And in general, how do you obtain an informed
19 consent to plastic surgery?

20 A. You would -- I obtain informed consent by
21 explaining the pertinent risks, alternatives, and
22 benefits, and limitations of a particular treatment.

23 Q. How do you obtain consent from a minor for
24 plastic surgery?

25 A. So there's been a lot of testimony today about

1 consent. The minor -- the minor has to agree to the
2 procedure, but legally it's the parents or the guardian
3 that give the actual permission for the procedure.

4 Q. Okay. Are you familiar with WPATH?

5 A. Yes.

6 Q. Have you reviewed their guidelines for informed
7 consent?

8 A. Yes.

9 Q. How long ago did you review them?

10 A. This week.

11 Q. Okay.

12 MR. ELDRED: I'd like to show what's
13 already been admitted, the WPATH guidelines that we've
14 been talking about a few times today.

15 THE COURT: P-26.

16 MR. ELDRED: Yes. Thank you. And if you
17 can go to Page 63, please. Can you Zoom in on those
18 four bullet points?

19 Q. (BY MR. ELDRED) And do you recognize what
20 we're -- I'm sorry. Do you recognize what we just put
21 up on the screen there?

22 A. Yes.

23 Q. What is that?

24 A. It's from the WPATH guidelines for
25 gender-affirming treatment. And I don't know if this

1 section is particularly for surgery or treatments in
2 general.

3 Q. And I don't want to beat a dead horse, but
4 let's look at the first bullet point. It says: Can a
5 young person think carefully into the future and
6 consider the implications of a partially or fully
7 irreversible intervention?

8 Do you think a minor can give informed
9 consent based on that definition of informed consent?

10 A. No.

11 Q. Why not?

12 A. Because a minor doesn't have the emotional and
13 cognitive ability to understand that these procedures --
14 and I didn't mention this before -- that these
15 procedures are irreversible.

16 Q. How so?

17 A. How --

18 Q. How so are they irreversible?

19 A. They're irreversible.

20 Q. Yes. How are they irreversible?

21 A. They're -- they're -- they're not reversible.
22 Once the breasts -- I'm sorry.

23 Q. That's too --

24 A. Once the breast -- once the breast tissue is
25 removed with a mastectomy of any type, that breast

1 tissue doesn't come back. That's -- that's
2 irreversible. Once the genitalia is changed, that
3 cannot -- that cannot be changed back.

4 I would say that a breast augmentation is
5 partially reversible because if it's a matter of just
6 putting implants in, those implants can be removed, but
7 then there's other issues with skin and scars and things
8 like that that may not be reversible.

9 Q. All right. Thank you. The next bullet point
10 reads: Does the young person have sufficient
11 self-reflective capacity to consider the possibility
12 that gender-related needs and priorities can develop
13 over time and that gender-related priorities at a
14 certain point in time might change?

15 Do you agree that's a good definition of
16 informed consent for plastic surgery?

17 A. I -- I think it's a good definition for the
18 gender-related part of plastic surgery, yes.

19 Q. Do you have any opinion about whether a
20 gender-related -- I'm sorry -- about gender-related
21 needs and priorities can change over time related to
22 plastic surgery?

23 A. You see, I -- I don't want to testify out of my
24 area of expertise. I'd like to stick to the surgery.
25 So as far as the surgery goes, that's a -- that's a good

1 definition related to the surgery.

2 Q. All right. Well, we'll skip gender stuff.
3 Let's go to number 4. Is the young person able to
4 understand and manage the day-to-day short- and
5 long-term aspects of a specific medical treatment? Is
6 that a good definition of informed consent with respect
7 to plastic surgery?

8 A. Yes.

9 Q. Can a young person -- can a young person give
10 informed consent to plastic surgery?

11 A. No.

12 Q. Why not?

13 A. Particularly in this item in number 4 because
14 they are unable to understand all the short- and
15 long-term aspects of these treatments and particularly
16 the more complicated procedures.

17 Q. All right. And can we go to Page 259 of this
18 exhibit? And do you see the heading Surgery followed by
19 A through F?

20 A. Yes.

21 Q. Are you familiar with this part of the WPATH
22 guidance?

23 A. Yes.

24 Q. And I'm going to go to number C: Can a minor
25 demonstrate the emotional and cognitive maturity

1 required to provide informed consent/assent for the
2 treatment?

3 A. So that's an important aspect of informed
4 consent, but I believe that minors cannot provide
5 informed consent for these treatments.

6 Q. And I'm reading part C under surgery. These
7 are kind of things that according to WPATH are kind of
8 definitions of informed consent. Would you agree?

9 A. Yes.

10 Q. Okay. Can minors -- I'm looking at number E
11 now. Can minors give informed consent to reproductive
12 effects including potential loss of fertility and
13 available options to preserve fertility?

14 A. So I don't believe that minors can give
15 confirmed -- informed consent to issues of fertility,
16 but certainly that's a vital aspect of the needed
17 informed consent.

18 MR. ELDRED: I'll pass the witness.

19 THE COURT: Thank you, Mr. Eldred.

20 MR. ELDRED: Wait. I'm sorry, Judge.

21 Wait.

22 THE COURT: Oh, no worries.

23 MR. ELDRED: I'm so sorry, Judge.

24 THE COURT: That's okay.

25 Q. (BY MR. ELDRED) Do plastic surgeons perform

1 breast augmentation surgeries on minors?

2 A. In general, no. In fact, the American Society
3 of Plastic Surgeons recommends that we don't do a breast
4 augmentation on patients under 18. And I believe that
5 FDA breast implants are also -- I'm sorry -- not FDA
6 breast implants, but breast augmentation is not approved
7 by the FDA for under 18 years old --

8 Q. Do you know --

9 A. -- for saline implants, and I believe it's 20
10 or even 22 for silicone implants.

11 Q. And do you know why it's not?

12 A. It's for all the same reasons that we
13 discussed, that minors don't have the emotional and
14 cognitive abilities to understand all the aspects of
15 breast augmentation surgery.

16 Q. All right.

17 MR. ELDRED: All right. Now I pass the
18 witness, Judge.

19 THE COURT: All right. Thank you.

20 Cross-examination?

21 **CROSS-EXAMINATION**

22 BY MR. SELDIN:

23 Q. Dr. Perrotti, you testified earlier that you
24 have performed periolar -- perioareolar mastectomies on
25 minors under 18 for treatment of gynecomastia; is that

1 correct?

2 THE REPORTER: Can you speak up?

3 MR. SELDIN: I'm sorry. I apologize.

4 Q. (BY MR. SELDIN) You have performed -- are you
5 familiar with the term keyhole surgery?

6 A. Yes.

7 Q. Is that another term for perioareolar?

8 A. Yes.

9 Q. So -- have you performed keyhole -- you
10 testified that you performed keyhole surgery on minors
11 under 18 to treat gynecomastia; correct?

12 A. Yes.

13 Q. And about how many times have you performed
14 that surgery?

15 A. I can't give you a number. I've been doing
16 that procedure since I was a resident in 1997 and '98,
17 so I don't know.

18 Q. In --

19 A. If I do several a year, if I do five or ten a
20 year and I've been doing them for 25 years, then I've
21 done hundreds.

22 Q. In persons under 18 or total?

23 A. Total.

24 Q. And about how many of those have been for
25 minors under 18 years old?

1 A. I don't know. I will say that the ones that
2 are under 18 are in that kind of 17- to 18-year age
3 because we most often wait till the development of the
4 gynecomastia is complete.

5 Q. But you have performed keyhole surgery on
6 minors age 17 or younger in your career; correct?

7 A. Yes.

8 Q. Okay. Did you obtain informed consent from the
9 parents in each of those cases?

10 A. If the minor -- if the minor was unable to give
11 their own consent, then it was the parent or the
12 guardian that gave consent, correct.

13 Q. So in each of those cases did you also obtain
14 informed assent from the minor?

15 A. If the minor didn't want the surgery, I
16 wouldn't do the surgery.

17 Q. So then the answer is yes, you obtained
18 informed consent and assent in each case?

19 A. Yes.

20 Q. And is keyhole surgery -- keyhole surgery in
21 minors is irreversible; correct?

22 A. It depends on what the surgery is for. If
23 keyhole surgery is done for a mastectomy, let's say, for
24 a transgender patient, that is essentially irreversible.
25 If a surgery is done for gynecomastia, depending on the

1 reason or why that patient developed gynecomastia -- and
2 remember, gynecomastia is a different -- it's kind of a
3 different operation. It's a different pathology.
4 Gynecomastia always contains breast tissue and fatty
5 tissue. So it's -- it's irreversible, but it's
6 certainly -- I don't know how to explain this. It
7 certainly can recur, let's say. So if they're forming
8 breast tissue for some reason, that can recur. And if
9 they're forming fatty tissue, that can recur.

10 Q. So is it your testimony then that when you
11 perform keyhole surgery in minors under 18 who are
12 cisgender and not transgender, there's a possibility
13 that you may have to do a second corrective surgery if
14 gynecomastia occurs?

15 A. That's always a possibility, yes.

16 Q. Dr. Perrotti, have you ever performed facial
17 feminization surgery on a transgender adolescent?

18 A. I have not.

19 Q. Okay. Have you performed facial feminization
20 surgery on a transgender adult?

21 A. I have not.

22 Q. And have you ever performed what you refer to
23 as bottom surgery on any individual?

24 A. I have not.

25 MR. SELDIN: Your Honor, if I could have a

1 moment.

2 Q. (BY MR. SELDIN) Dr. Perrotti, to your
3 knowledge, phalloplasty and other forms of bottom
4 surgery are extremely rare -- very rarely performed in
5 minors; is that correct?

6 A. I would agree with that.

7 Q. And the same true for facial feminization
8 surgery?

9 A. I don't know the specific answer to that. I
10 would say that it's less uncommon or more common than
11 genital surgery in minors.

12 Q. It's generally outside of your knowledge?

13 A. No, it's not outside of my knowledge. I can't
14 give you an exact number.

15 MR. SELDIN: Thank you, Your Honor.
16 Nothing further.

17 THE COURT: Thank you. Any other
18 redirect?

19 MR. ELDRED: One question.

20 **REDIRECT EXAMINATION**

21 BY MR. ELDRED:

22 Q. Have you ever treated an adult for
23 complications from prior gender-affirming surgery?

24 A. Yes.

25 MR. SELDIN: Objection, Your Honor. It's

1 outside the scope -- I apologize. Now that my mic is
2 on, objection, Your Honor. That's outside the scope of
3 cross.

4 MR. ELDRED: I believe he just asked about
5 his experience doing these surgeries.

6 MR. SELDIN: In minors with gender
7 dysphoria.

8 THE COURT: Right. Let me read your
9 question again.

10 MR. ELDRED: I believe that's my only
11 question, Judge.

12 THE COURT: Okay. So what is your
13 question?

14 MR. ELDRED: Have you ever treated an
15 adult for complications from prior gender-affirming
16 surgery? I guess I could say from -- performed on a
17 minor. Does that help?

18 MR. SELDIN: Your Honor --

19 THE COURT: Right. I think that's what
20 would take it back into his scope.

21 A. I have treated complications of surgery in
22 adults, but I can't say specifically whether the surgery
23 was done when they were minors or not.

24 Q. (BY MR. ELDRED) All right. Thank you,
25 Judge -- thank you, Your -- thank you, Doctor.

1 THE COURT: Any other further recross?

2 MR. SELDIN: Your Honor, no, thank you.

3 THE COURT: Okay. All right.

4 Dr. Perrotti, you're done on the witness stand. You're
5 excused.

6 THE WITNESS: Thank you.

7 THE COURT: Take care. All right. Any
8 additional witness for the State?

9 MR. GONZALEZ-PAGAN: Your Honor, if I may,
10 can we address a little bit of a cleanup matter before
11 moving on to fact witnesses to the extent that there are
12 any?

13 THE COURT: Sure.

14 MR. GONZALEZ-PAGAN: Specifically --

15 MR. STONE: And, Your Honor, we've got
16 two -- two very brief fact witnesses. We're going to
17 try to go as fast as we can to get through them.

18 THE COURT: Okay.

19 MR. GONZALEZ-PAGAN: Your Honor, under
20 Rule 902 as official publications, plaintiffs will be
21 moving for P-57 and P-58 to be admitted into evidence,
22 both publications by the Food and Drug Administration
23 related to off-label use, which has come up a number of
24 times during the testimony. And under Rule 90 -- 902.5,
25 their official publications are self-authenticating.

1 MR. STONE: Which number are they again?

2 THE COURT: 57 and --

3 MR. GONZALEZ-PAGAN: 57 and 58.

4 MR. STONE: Oh, sorry. Okay. Your Honor,
5 may I respond briefly?

6 THE COURT: Sure.

7 MR. STONE: For 57, this is a notice of
8 request for comment. So our first objection to this is
9 on relevance. This is just a call for public comment.
10 It has no relevance to this particular case. It's --
11 oh, right. So what they're -- they're also conflating
12 two different things. They're conflating, I believe,
13 Your Honor, authentication on how you authenticate a
14 document as opposed to its admissibility. And in this
15 case, like -- I'm not disputing the authenticity of this
16 document, but that doesn't -- just because it's
17 authenticated doesn't make it admissible.

18 And again, in this case, at least with
19 respect to 57, it's just a request for comment. There
20 appears to be some highlighting in it in here, so it
21 looks like they're trying to highlight something from a
22 request for comment related to a separate FDA drug
23 bulletin. So it looks like they're trying to get
24 something in that's buried within this document without
25 citing specifically to the original document. But in

1 any respect, Your Honor, we don't believe this is
2 relevant, and we don't believe that it passes the
3 hearsay exception, is subject to any kind of hearsay
4 exception.

5 THE COURT: So that's 57; right?

6 MR. STONE: 57, Your Honor.

7 THE COURT: A response on 57,
8 Mr. Gonzalez-Pagan?

9 MR. GONZALEZ-PAGAN: Yes, Your Honor. As
10 public records -- this is published by the FDA. It says
11 for the activities of the FDA. It passes -- there's
12 a -- it is an exception to hearsay under 803.8. What is
13 more, just because it's a notice for comment from the
14 FDA, it still lays out the FDA's official position when
15 it comes to off-label use. Your Honor can give it the
16 weight that the Court wants, but it is -- it is an
17 official governmental publication that the Court may
18 admit into evidence.

19 MR. STONE: No, Your Honor, that is
20 absolutely wrong. Under 803.8 it sets out the specific
21 criteria for what qualifies as a public record, and
22 there are elements of it. Number one, it has to -- the
23 statement or record from the public office must, one,
24 set out the office's activities; number two, a matter
25 observed while under a legal duty to report, but not

1 including, in a criminal case, a matter observed by law
2 enforcement personnel; or in a civil case or against the
3 government in a criminal case, factual findings from a
4 legally authorized investigation. That is not what --
5 that is not what this document is. It is absolutely not
6 subject to 803.8, the public records exception.

7 THE COURT: Okay.

8 MR. GONZALEZ-PAGAN: Just --

9 THE COURT: Hold on. The objection to 57
10 is sustained. What about 56?

11 MR. STONE: 58.

12 THE COURT: I mean 56. Wasn't it 56?

13 MR. GONZALEZ-PAGAN: 57 and 58.

14 Your Honor, I --

15 THE COURT: Oh, I'm sorry. I'm looking at
16 the wrong one.

17 MR. GONZALEZ-PAGAN: I -- I apologize. 57
18 and 58.

19 THE COURT: Okay.

20 MR. GONZALEZ-PAGAN: With regards to 57,
21 again, it sets out --

22 THE COURT: I've ruled,
23 Mr. Gonzalez-Pagan. We're done on that one.

24 MR. GONZALEZ-PAGAN: Understood.

25 THE COURT: 58.

1 MR. GONZALEZ-PAGAN: 58 is an official
2 guidance by the FDA administration. It again passes
3 muster under the public records hearsay exception. It
4 sets -- it's a record or a statement of a public office
5 that sets out the office's activities. It is a
6 disjunctive test. It is an "or," not an "and." And
7 therefore, any publication by an agency or public office
8 that sets out the office activities are acceptable like
9 rule-making or the office activities with regards to
10 guidance as to off-label use is a hearsay exception.

11 THE COURT: Mr. Stone?

12 MR. STONE: Yeah, absolutely. Your Honor,
13 this is not the record or statement of a public office
14 setting out the office's activities. I think that
15 that's pretty obvious. This isn't -- this isn't a
16 record or statement setting out the office's activities.
17 So this isn't describing what the FDA does, all right?
18 This is -- instead, this is an information sheet that
19 appears to be --

20 THE COURT: Guidance.

21 MR. STONE: -- guidance issued for IRBs
22 and from 1998.

23 THE COURT: All right. So on P-58, the
24 objection is overruled. So P-58 is in. P-57 is not.

25 MR. GONZALEZ-PAGAN: Thank you,

1 Your Honor. In that case, plaintiffs would move that
2 the Court take judicial notice of P-57 as an official
3 governmental publication pertaining to regulations.

4 MR. STONE: It's a request for comment.

5 THE COURT: I -- hold on. I'm not going
6 to take judicial notice of 57.

7 MR. GONZALEZ-PAGAN: Understood. Thank
8 you, Your Honor.

9 THE COURT: Okay. So fact witnesses.

10 MR. STONE: Your Honor, are we going to
11 have a hard stop at 5:00? Because it determines whether
12 or not we can -- if we hard stop at 5:00, I think we can
13 only call one of our remaining fact witnesses then.

14 THE COURT: Well, let -- tell me a little
15 bit about how long you think you have with either of
16 these fact witnesses.

17 MS. DYER: Your Honor, I only expect about
18 ten minutes, but I'm unsure if plaintiffs intend to use
19 any of their time on cross.

20 THE COURT: I think we can go ahead and do
21 it. I mean, I have permission from Ms. Crain and
22 Ms. Gould to stay a little after 5:00.

23 MS. DYER: I will do my best to be
24 efficient.

25 THE COURT: But, you know, I didn't ask,

1 but I apologize to the deputies, because that means they
2 have to stay after 5:00 too. So let's get going with
3 that then.

4 MS. DYER: Okay. Then the first fact
5 witness will be Emelie Schmidt.

6 THE COURT: All right. Ms. Schmidt, if
7 you can step forward, or is she --

8 MS. DYER: She is in the room in the back
9 based on the rule.

10 THE COURT: Got it. Hello, Ms. Schmidt,
11 if you'll step forward, please, I'll swear you in and
12 then you can take the stand. If you'll raise your right
13 hand for me.

14 *(Witness sworn)*

15 THE COURT: You can step around there and
16 up to this chair here. Go ahead.

17 **EMELIE SCHMIDT,**
18 having been first duly sworn, testified as follows:

19 **DIRECT EXAMINATION**

20 BY MS. DYER:

21 Q. Good afternoon, Emelie. How's it going? First
22 I will have you state your name for the record and spell
23 it, please.

24 A. Okay. Emelie Anne Schmidt, E-m-e-l-i-e,
25 A-n-n-e, S-c-h-m-i-d-t.

1 Q. And do you live in Texas, Emelie?

2 A. Yes, ma'am.

3 Q. Which county?

4 A. Harris.

5 Q. And do you live with anyone else or is it just
6 by yourself?

7 A. I live with my husband, and then I have a
8 renter on my first floor.

9 Q. Okay. And how long have you lived in Texas?

10 A. My whole life, so 24 years.

11 Q. I was about to ask how old you were, so
12 perfect. And what is your biological sex?

13 A. Female.

14 Q. And sitting here today, do you consider
15 yourself female or male?

16 A. Female.

17 Q. And describe to me your first experience with
18 the transgender world.

19 A. I was around 14 years old. And I was always a
20 tomboy growing up and I saw something on TLC. It was
21 about trans youth, and it said if you're a tomboy you
22 might actually be a boy. So I started looking on the
23 TLC Facebook page and I commented on a few things, and
24 that's where a few grown men who identified as women
25 contacted me privately and invited me into their

1 Facebook groups.

2 Q. And how did those groups transform you over the
3 next few years?

4 A. I posted that I was questioning and they
5 affirmed my gender at the time -- I guess my delusion.
6 They affirmed that I was male even though I'm not male.
7 And they just flooded me with a bunch of love and
8 support telling me that I'm handsome. And they told me
9 that my parents were evil because they wouldn't let me
10 start hormones or surgery. My parents are amazing, by
11 the way. They're not evil. But they made me truly hate
12 my parents even though they were wonderful. They also
13 sent me messages describing how to make HRT at home.

14 Q. Can you explain to me what --

15 THE REPORTER: Say it again. What at
16 home?

17 A. They taught me how to make hormone replacement
18 therapy at home, testosterone.

19 Q. (BY MS. DYER) And did you end up telling your
20 family -- you mentioned that, you know, they kind of
21 made you hate your parents. Did you tell your parents
22 that you were feeling this way?

23 A. I didn't feel comfortable telling them, but
24 they eventually found out through someone at my school.

25 Q. And did you tell people at your school?

1 A. I did. They found out through a kid's mom at
2 the school. My school never told my parents.

3 Q. But you did tell your school. Did you tell
4 your teachers to call you by your preferred pronouns,
5 name, et cetera?

6 A. Yes, ma'am.

7 Q. And they did that?

8 A. Yes. And they never notified my parents about
9 any of this, but they called me Jacob and he/him in the
10 classroom.

11 Q. And did you ever receive any -- I know you
12 mentioned a minute ago that you were angry at your
13 parents for not, but did you ever actually receive any
14 medication or surgeries?

15 A. I did not.

16 Q. And why was that?

17 A. At the time my parents didn't have insurance,
18 and my -- my mom said even if we had insurance she
19 wouldn't have let me because she felt deep down that --
20 she knew I was a girl because I was a girl, you know.
21 She said she would have supported me if she felt like
22 this is who I really was, but she knew that I wasn't.

23 Q. And when did you start questioning your
24 transgender status?

25 A. Around the time -- right after my 18th

1 birthday.

2 Q. And was there something that happened around
3 that time that made you start questioning that or was it
4 just like an ah-ha moment?

5 A. I started realizing that I didn't have any
6 friends in real life. All my friends were online, and
7 most of them were grown men online. And they were just
8 encouraging me to hate myself and hate my body. They
9 kept telling me my body was wrong and it needed fixing
10 with hormones and surgeries. And I just realized none
11 of my friends were in real life; I need to stop being
12 online all the time. And what really opened my eyes was
13 my mom took me on a trip to the beach, and she just
14 started telling me, hey, it's okay to be a girl and like
15 masculine things. It's okay to be a tomboy. And that's
16 when I really understood I could just be a tomboy. I
17 don't have to hate my body. I don't have to hate
18 myself.

19 Q. And now looking back on that chapter of your
20 life, how do you feel sitting here today?

21 A. I'm confident in my womanhood. I'm proud to be
22 a woman. And I regret that I spent so long hating my
23 femininity.

24 Q. And are you glad that you never received any
25 hormone replacement, puberty hormone blockers, or

1 surgeries?

2 A. I am eternally grateful that I never received
3 any of that treatment. I don't think I would be as
4 successful as I am today if I got those treatments. I
5 think if I got those treatments I would still be
6 depressed and anxious. I was never more depressed and
7 anxious as I was when I was surrounded by adults telling
8 me to hate my body in the trans community. They --
9 yeah.

10 Q. And that was going to be my last question
11 actually, was in terms of your mental health throughout
12 this process, you know, can you walk me through how you
13 were before you got involved in the community mental
14 health-wise, how you were during, and then after as
15 well?

16 A. I didn't have the best mental health just
17 before I was trans. I had a lot of anxiety and
18 depression just from my body growing up because I was
19 uncomfortable during puberty. But the trans community
20 latched onto these insecurities and they latched onto my
21 depression and anxiety and made it worse. I was the
22 most depressed, the most suicidal when I was in the
23 trans community. Once I got out of that community, I
24 was finally able to not be depressed and not be
25 suicidal. I was finally able to work on myself and love

1 myself for who I am.

2 MS. DYER: I have nothing further,
3 Your Honor.

4 THE COURT: Cross?

5 MS. LESKIN: Very briefly, Your Honor.

6 **CROSS-EXAMINATION**

7 BY MS. LESKIN:

8 Q. Hi, Ms. Schmidt. I just have a couple of
9 questions for you. No doctor ever diagnosed you with
10 general dysphoria; correct?

11 A. No, ma'am. It was all online and my school
12 hiding it from my parents.

13 Q. Right. But you've never been diagnosed with
14 gender dysphoria?

15 A. No, ma'am.

16 Q. And you never sought medical care for gender
17 dysphoria?

18 A. No, ma'am.

19 Q. And your parents did not decide one way or the
20 other to help you seek medical care for gender
21 dysphoria?

22 A. No, ma'am. And I'm glad they didn't.

23 Q. Okay. Thank you.

24 THE COURT: Anything further, Ms. Dyer?

25 MS. DYER: Nothing further.

1 THE COURT: Ms. Schmidt, you're done on
2 the witness stand. Thank you very much.

3 THE WITNESS: Thank you.

4 THE COURT: Next witness?

5 MS. DYER: Yes. The last witness the
6 State will call is Soren Aldaco.

7 THE COURT: Aldaco?

8 MS. DYER: Uh-huh.

9 THE COURT: Okay. I just want to say it
10 right. All right. Are they out there?

11 MS. DYER: Yes.

12 THE COURT: Okay. I just wanted to make
13 sure.

14 All right. If you'll step forward, I'll
15 swear you in.

16 THE WITNESS: Where should I step?

17 THE COURT: Here.

18 THE WITNESS: Okay.

19 THE COURT: If you'll raise your right
20 hand.

21 *(Witness sworn)*

22 THE COURT: All right. You can make your
23 way around there and up to this chair, please.

24 Go ahead.

25

1 A. Yeah, it's through UT. And I more specifically
2 am interested in how we define normal and come to
3 develop identities.

4 Q. Okay. And what is your biological sex?

5 A. Female.

6 Q. And today do you consider yourself to be male
7 or female sitting here?

8 A. Female.

9 Q. Okay. And I'd like you to describe your first
10 kind of introduction, experience, however you want to
11 phrase it, with the transgender community and world.

12 A. Well, I always felt different from my peers,
13 but I was first introduced to trans identity through the
14 Internet via some friends who identified that way.

15 Q. Okay. And had you ever had -- had you been
16 diagnosed with any other mental health conditions or
17 anything else before you had been introduced to the
18 trans community?

19 A. I was diagnosed with ADHD at age six, and then
20 I acquired diagnoses after the trans identification.

21 Q. And around what age did the trans
22 identification come?

23 A. Well, I sort of played with the idea of gender
24 starting at 11, but I didn't really, like, solidly
25 identify as transgender until after age 15 when a

1 psychiatrist started to medically -- or medicalize those
2 thoughts.

3 Q. So tell me about that experience with the
4 psychiatrist.

5 A. Well, I was -- I went to the hospital for a
6 psychiatric episode at age 15. And when I was in there,
7 they put my chosen name on the door but had my legal
8 name on the records. And while speaking to the
9 psychiatrist, he asked me about that incongruence
10 between the name on my door and my records. And I told
11 him that was just the name I went by, and he pushed for
12 further explanation and I told him that was just the
13 name I went by. And he pushed for further explanation
14 and offered the idea that people didn't identify with
15 their biological sex, told me that was like normal and I
16 was safe to admit to him. And I told him -- asked him
17 whether or not our conversation was confidential and
18 essentially felt pressured to tell him that I was trans
19 as he, you know, recommended.

20 Q. Had you ever called yourself trans before that
21 time?

22 A. I had called myself a trans boy, but I also,
23 like, was calling myself a girl in online video games at
24 that time and was okay with people addressing me and
25 viewing me as female.

1 Q. And is that when you -- when did you get
2 your -- like, a gender dysphoria diagnosis if you got
3 one?

4 A. I don't know if he diagnosed me with that at
5 the time because I haven't seen my records, but I got my
6 first gender dysphoria diagnosis while seeing a
7 therapist, and it was only I believe after she had
8 written me a letter for my mastectomy.

9 Q. Okay. So let's go back a little bit to when
10 you were at the hospital for your psychiatric episode.
11 What was kind of the timeline between that and when --
12 and these recommendations later down the line?

13 A. So that was at age 15 shortly before my 16th
14 birthday. I began seeing a therapist for, like,
15 developmental problems. I was diagnosed with autism,
16 major depressive disorder, social rejection and
17 exclusion, and general anxiety, and OCD is a subset of
18 autism, that March I believe. And then at age 17 after
19 attending a transgender youth support group for a couple
20 of years, I was prescribed testosterone by a
21 psychiatrist in that support group who prescribed
22 hormones for many children and adults in that support
23 group. And then age 18 I was written a letter by the
24 therapist. And age 19, about a month after my 19th
25 birthday, I had a mastectomy. And then less than six

1 months later I medically and ideologically
2 detransitioned.

3 Q. Okay. And I want to go back to when you were
4 prescribed the hormones. How did the hormones make you
5 feel?

6 A. Well, I felt good right after I took them, like
7 especially because they were like a steroid and made my
8 body sort of feel like very engaged, almost like a high
9 of sorts. But over time I started having a lot of joint
10 pain. I would feel very hot on the hormones, like a lot
11 of menopausal-like symptoms. I felt like a lot of brain
12 fogs. The hormones would wane, and my natural hormone
13 cycle would attempt to, you know, come back. And
14 eventually, like, I just -- it felt, like, gross. Like,
15 I mean, I was happy that I was being affirmed, but I
16 think it was just that. Like, I was happy I was being
17 affirmed, but the actual mode of affirmation was, like,
18 very detrimental to my health overall. Like, I was on
19 11 different medications to manage the symptoms of those
20 hormones, and I was also just like tired all the time
21 and not engaging in any of my interests. I quit playing
22 softball. I stopped playing cello. Like, I was just
23 sort of obsessed with this identity even though my body
24 was, like, falling apart.

25 Q. And tell me a little bit more about when you

1 had the double mastectomy.

2 A. So I had the mastectomy in June of 2021. And
3 shortly after, like within three or four days, I noticed
4 significant bruising underneath my bandages. And I
5 called to talk to the emergency physician line, sent
6 them photos, and they just sort of said, oh, bruising is
7 normal, it can happen, which I sort of knew. I mean,
8 it's a surgery; right? But it felt very wrong in my
9 body.

10 At the post-op appointment when the nurse
11 took off my sutures and my holsters that were holding my
12 nipple grafts on, she said I've never seen bruising like
13 that before but didn't go and get a physician. I
14 continued to let them know that the bruising was getting
15 worse. I sent them photos of bruising on my flanks that
16 I had researched and found out was called Grey Turner's
17 sign. And I kept telling them something was wrong.

18 And it culminated on June 23rd I believe
19 when I called up to the same emergency physician line
20 and got the same doctor I spoke to before. I sent him
21 photos, and he told me I don't know what's wrong here,
22 but at the time my nipple grafts were peeling off. I
23 looked like I had breasts again. And I went to UT
24 Southwestern where they cut my incisions back open under
25 my arms and inserted drains. They had to put like a

1 Q-tip in and aggressively knock out blood clots. And
2 the top surgeon or the, you know, plastic surgeon who
3 did these mastectomies at the hospital actually refused
4 to see me because he didn't want to manage those
5 complications, so I was seen by the breast oncology
6 team.

7 Q. Okay. And you mentioned that six months later
8 you started to detransition. Did I hear that correctly?

9 A. Yeah, I stopped the hormones first because they
10 made my body feel awful, but then shortly after I
11 realized that after stopping the hormones I had no other
12 choice but to be fine. Like, I had to keep going. And
13 I realized, like, that actually wasn't bad for me.
14 Like, I learned to be resilient throughout my life by
15 becoming resilient to that. And then I realized that I
16 had been sold, like, the lie that that was the only way
17 forward when in fact it was not the only way forward,
18 and it caused me a lot of other problems on top of the
19 ones that I was already experiencing.

20 Q. And what kind of things do you still -- what
21 kind of side effects do you still have today from those
22 treatments?

23 A. Well, from those treatments I specifically have
24 a lot of chest pain. Like, I was supposed to give a
25 speech to my university welcoming the new faculty

1 yesterday, and I, like, had to take some time before I
2 went up on stage because I was getting, like, random,
3 like, zaps along my scar line and up through the tissue
4 where they had to, you know, use the Q-tips and such.

5 I still experience, like, vaginal
6 dysfunction, like in terms of, like, emptying my
7 bladder, in terms of, like, engaging in sex. It's
8 really painful. And I'm just generally disinterested.
9 I have bumps on my clitoris.

10 And I also just, like, generally have some
11 endocrinological issues. I was diagnosed with
12 hypothyroidism after starting the testosterone. I also
13 struggle with what I suspect could be like hypoglycemia,
14 like, related to my hormone -- regulation of my other
15 hormones. And then I also was diagnosed with idiopathic
16 hypersomnia afterwards on top of chronic fatigue. So
17 I'm just like tired all the time as if, like, you know,
18 my hormones are still struggling to, like, you know,
19 keep me going. That's what they do.

20 Q. In terms of your mental health, how do you feel
21 today?

22 A. I feel relatively good. Like, I have emotions,
23 which I didn't really experience on testosterone. Like,
24 I was just very blocked off and disconnected with my
25 body, which I suspect was part of the issue all along.

1 But now, like when I have negative emotions, I see them
2 as part of my beautiful colorful human existence. Like,
3 I have learned to be resilient and fortified, which is
4 what I really honestly needed all along to realize that
5 as I felt distressed, that it was just temporary, that
6 it was momentary, that I also experienced a lot of joy
7 in other ways. And that's kind of what I focus on now
8 is the joy.

9 I used to look at my body in terms of,
10 like, you know, thinking that I might be too fat or --
11 this morning I was a little bit upset at, like, how my
12 jeans fit because they fit better when I was on
13 testosterone; right? But that is part of the underlying
14 issue that I'm getting at, that it was just the way that
15 women -- in my case, you know, we are taught to hate
16 ourselves from a really young age. I mean, I was
17 exposed to pornography way too young, and I feel like
18 that was part of what contributed to this idea that I
19 needed to be thin. And that's what testosterone did to
20 me, was it gave me control over my body.

21 Q. And looking back, how effective would you say
22 were the hormone therapies at getting you to the place
23 you -- the peace you have today? Do you think you could
24 have gotten it if you had stayed on them?

25 A. No, because I just had a slew of other

1 problems. Like, I have way more peace just letting my
2 body be what it is and figuring out the mental side of
3 it now today than I ever did on testosterone.

4 Q. Do you wish you had never had taken hormones or
5 had the surgery?

6 A. Yeah, I really do.

7 MS. DYER: Nothing further, Your Honor.

8 THE COURT: All right. Cross-examination?

9 **CROSS-EXAMINATION**

10 BY MS. LESKIN:

11 Q. Good afternoon, Ms. Aldaco. On July 21st of
12 this year, you filed a lawsuit; correct?

13 A. I do think it was July 21st. I can't give you
14 the exact date, but yes.

15 Q. Okay. And in that lawsuit, you named the
16 doctor that you described, the mental health provider
17 you saw while you were hospitalized; correct?

18 A. Yes.

19 Q. And you're suing that doctor for breaching the
20 standard of care by, among other things, improperly
21 assessing, diagnosing, and/or counseling you regarding
22 your gender identity; right?

23 A. Yes.

24 Q. And that doctor did not prescribe any
25 medication to you; correct?

1 A. Yes.

2 Q. You also in that lawsuit filed -- name the
3 doctor who prescribed the testosterone to you; correct?

4 A. He wasn't a doctor, but yes.

5 Q. Okay. The medical professional who gave --
6 prescribed testosterone to you; correct?

7 A. Yes.

8 Q. And you are suing him for breaching the
9 standard of care in prescribing you hormone treatment
10 without performing a proper biopsychosocial evaluation
11 and without parental consent; correct?

12 A. I'm not entirely sure. I don't know the exact
13 verbiage.

14 Q. Sure.

15 MS. LESKIN: Can we pull up Exhibit P-75,
16 please? And if we can go to Paragraph -- Paragraph 70
17 of that. Let's bring up the first page first.

18 Q. (BY MS. LESKIN) Do you recognize this
19 document?

20 A. Yes.

21 Q. And this is the complaint you filed; correct?

22 A. Yes.

23 Q. Okay.

24 MS. LESKIN: So can we go to Paragraph 70,
25 please? I'm sorry. I have the wrong paragraph.

1 Paragraph 76 and 77.

2 Q. (BY MS. LESKIN) And Paragraph 77 is Count 3,
3 and that is a count against Del Scott Perry; correct?

4 A. Yes.

5 Q. And Mr. Perry was the medical professional who
6 prescribed testosterone to you; right?

7 A. Yes.

8 Q. And in Paragraph 77, you list a number of items
9 that you are alleging Mr. Perry was negligent and
10 grossly negligent; correct?

11 A. Yes.

12 Q. And you also named Doc- -- the therapist who
13 wrote your letter prior to your mastectomy; correct?

14 A. Yes.

15 Q. And you are suing that doctor for authoring and
16 signing a deceptive letter containing numerous material
17 falsehoods and recommending your mastectomy; correct?

18 A. She was not a doctor, but yes.

19 Q. And you're alleging that Ms. Wood breached the
20 standard of care to you in providing that letter;
21 correct?

22 A. I'm not sure the exact verbiage.

23 Q. Sure. Let's pull up Paragraph 89, please. And
24 you're alleging that Dr. Wood breached that duty of care
25 to you and thus committed negligence and gross

1 negligence in numerous ways, including but not limited
2 to authoring and signing a deceptive letter; correct?

3 MS. DYER: Objection, Your Honor,
4 relevance.

5 THE COURT: Overruled.

6 A. Duty of care, yes.

7 Q. (BY MS. LESKIN) And finally, you have named in
8 this lawsuit the doctor who performed your mastectomy;
9 correct?

10 A. Yes.

11 Q. And among other things, you are alleging that
12 he violated the standard of care to you; correct?

13 A. Yes, I believe she violated her duty of care.

14 Q. And that the doctor breached the standard of
15 care in failing to perform an adequate biopsychosocial
16 evaluation in anticipation of the surgery; correct?

17 A. The duty of care, yes.

18 Q. Thank you.

19 THE COURT: Any further re- --

20 MR. GONZALEZ-PAGAN: Just a second.

21 MS. LESKIN: Oh, excuse me.

22 THE COURT: Okay.

23 MS. LESKIN: Sorry, Your Honor.

24 THE COURT: That's okay.

25 MS. LESKIN: If you'll give me one moment,

1 Your Honor. Your Honor, we would offer P-75 into
2 evidence.

3 THE COURT: Any objection?

4 MS. DYER: Yes, objection. Why does her
5 lawsuit have any relevance on this case? Her testimony
6 speaks for itself.

7 THE COURT: Well, I think -- I guess the
8 cross-examination -- I'll -- I'll take judicial notice
9 of P-75. I don't think it needs to be in evidence.

10 MS. LESKIN: Thank you, Your Honor.

11 THE COURT: Okay. Any redirect?

12 MS. DYER: Just a couple of quick
13 questions.

14 THE COURT: Sure.

15 **REDIRECT EXAMINATION**

16 BY MS. DYER:

17 Q. I'm sorry. I just have a couple more questions
18 for you.

19 A. Sure.

20 Q. Are you a lawyer?

21 A. No.

22 Q. Did you write the lawsuit that was just taken
23 judicial notice of?

24 A. No.

25 Q. And do you wish you had received psychotherapy

1 instead of hormones?

2 A. Proper psychotherapy, absolutely, yes.

3 MS. DYER: Nothing further.

4 THE COURT: Any other?

5 MS. LESKIN: No, Your Honor.

6 THE COURT: Okay. All right. Ms. Aldaco,
7 you are done on the witness stand. You may be excused.

8 Mr. Stone, Ms. Dyer, Mr. Eldred, any other
9 witness at this time?

10 MR. STONE: No further witnesses,
11 Your Honor. The defendants rest our case-in-chief.

12 THE COURT: Okay. I need to give
13 Ms. Crain a little bit of a break before we continue, so
14 we can go off the record.

15 *(Discussion off the record)*

16 THE COURT: Okay. We're back on the
17 record. It's 5:43. We have concluded evidence. The
18 State has rested. We -- the Court can forego closing
19 arguments at this time. And although I have not given
20 the attorneys a final decision on exactly what I'm
21 anticipating needs to be -- or is allowed to be filed,
22 they will hear from me tomorrow morning on the
23 plaintiffs' response to the plea to the jurisdiction
24 that the State has filed and whatever briefing schedule
25 relates to that.

1 Is there anything else we need to put on
2 the record at this time?

3 MS. WOOTEN: No, Your Honor. Thank you.

4 MR. STONE: No, Your Honor. Thank you.

5 THE COURT: All right. Thank you. We can
6 go off the record.

7 *(Court adjourned)*

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REPORTER'S CERTIFICATE

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THE STATE OF TEXAS)
COUNTY OF TRAVIS)

I, Chavela V. Crain, Official Court Reporter in and for the 53rd District Court of Travis County, State of Texas, do hereby certify that the above and foregoing contains a true and correct transcription of all portions of evidence and other proceedings requested in writing by counsel for the parties to be included in this volume of the Reporter's Record, in the above-styled and numbered cause, all of which occurred in open court or in chambers and were reported by me.

I further certify that this Reporter's Record of the proceedings truly and correctly reflects the exhibits, if any, offered in evidence by the respective parties.

WITNESS MY OFFICIAL HAND this the 1st day of September, 2023.

/s/ Chavela V. Crain
Chavela V. Crain
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