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1 (Proceedings continuing in open court at 8:30 AM.)

2 MR. STRANGIO: Plaintiffs will call Dr. Jack Turban.

3 **JACK TURBAN, PLAINTIFFS' WITNESS, DULY SWORN**

4 **DIRECT EXAMINATION**

5 BY MR. STRANGIO:

6 Q My name is Chase Strangio from the ACLU. Good morning,
7 Dr. Turban. Thank you for being here. Can you please state
8 your name for the record and spell it for the court reporter?

9 A My name is Jack Turban. J-a-c-k T-u-r-b-a-n.

10 Q What is your profession?

11 A I'm a child and adolescent psychiatrist.

12 Q Dr. Turban's CV is Plaintiffs' stipulated Exhibit 1. We
13 will forego the full qualifications provided no voir dire of
14 this witness.

15 MR. CANTRELL: No objection, Your Honor.

16 BY MR. STRANGIO:

17 Q Do you currently treat patients as a psychiatrist?

18 A I do.

19 Q Does that include adolescent patients?

20 A Yes.

21 Q Does that include prepubertal patients?

22 A It does.

23 Q Do you treat adolescent patients with gender dysphoria?

24 A I do.

25 Q In what settings do you treat patients with gender

1 dysphoria?

2 A I'm an attending psychiatrist at the University of
3 California San Francisco where I see patients in our Child &
4 Adolescent Gender Center. In that setting, I see patients as
5 part of our interdisciplinary team, and I also see patients one
6 on one for medication management for psychiatry. I also
7 supervise adult psychiatry residents in the adult LGBT
8 psychiatry clinic. And in that clinic, about 80 percent of our
9 patients are transgender or have gender dysphoria. And I'm
10 also an attending psychiatrist in our eating disorders program
11 where I take care of patients with eating disorders in
12 co-occurring gender dysphoria.

13 Q Have you published any scholarly -- have you published
14 any research or scholarly articles on the topic of gender
15 dysphoria?

16 A Yes.

17 Q You've published articles?

18 A Yes.

19 Q How many articles?

20 A Somewhere between 20 and 30.

21 Q Have those been in peer reviewed journals?

22 A All those that I'm referencing have been peer reviewed
23 journals.

24 Q On what topics have you published articles?

25 A Generally on the mental health of transgender youth and

1 adolescents with gender dysphoria.

2 Q The State's experts spent a lot of time critiquing your
3 particular research and focus on some published critiques of
4 your studies. Has anyone written to these peer reviewed
5 journals expressing disagreement with your study findings or
6 methodology?

7 A This is an area of research where there's a lot of
8 attention. And generally when we publish papers, we get both
9 positive reactions and critiques or questions, and certainly
10 sometimes those are sent to the journal as well.

11 Q And have there been positive reactions as well?

12 A Yes.

13 Q You mentioned that people have expressed disagreements at
14 times about your research. Is this common in medicine?

15 A Yeah, so it's considered a good part of the scientific
16 process that any time a paper is published that experts in the
17 field really look at it closely to understand the strengths and
18 limitations and to raise any questions they might have about
19 the methodology to try and move the field forward.

20 Q And when people write in to a peer reviewed journal, how
21 do journals generally respond?

22 A So they will look at what's been sent in and generally
23 take it very seriously. Depending on the content of what's
24 been sent in, they may take different actions. So if there is
25 concern about the validity of the conclusions of the paper,

1 they may retract it or actually take it down. If there's a
2 smaller error, then they might issue a correction, and if it's
3 a critique that's interesting but doesn't impact the findings
4 of the study, they may publish that as a letter to the editor
5 along with the response from the authors to the original study.

6 Q Have any of your papers been retracted?

7 A No.

8 Q Have any corrections been issued to any of your papers?

9 A We've had small corrections to our papers, for instance,
10 the correction of a footnote of a table.

11 Q Thank you. So Dr. Turban, I want to start off by talking
12 about existing research into the medical interventions for
13 adolescents with gender dysphoria. Is there scientific
14 research evaluating medical interventions for the treatment of
15 gender dysphoria in adolescents?

16 A Yes. So there are 16 studies looking specifically at the
17 impact of endocrine interventions like puberty blockers or
18 gender-affirming hormones on mental health. There's an
19 additional body of research that looks at gender-affirming
20 surgery for the small number of patients who are considered
21 candidates for masculinizing chest surgery.

22 Q What types of studies are there assessing the efficacy of
23 treatment for gender dysphoria in adolescents?

24 A Generally there are two types of studies. The first type
25 is longitudinal studying. So these studies look at mental

1 health before and after the treatment, and generally those have
2 found that mental health improves for adolescents with gender
3 dysphoria after the treatment. The other type of study you
4 might hear about are these cross-sectional studies. And those
5 compare at one point in time people who receive the treatment
6 to people who did not receive the treatment, and those show
7 that people who received the treatment had better mental health
8 than those who did not.

9 Q So in the area of gender dysphoria for adolescents, there
10 are longitudinal -- excuse me, withdrawn. Are there randomized
11 controlled trials that assess the efficacy of treatment for
12 gender dysphoria?

13 A No, there are not.

14 Q Why not?

15 A There are a few different reasons that there aren't
16 randomized controlled trials or RTCs. There are scientific
17 concerns and then there are also ethical concerns. So
18 ethically when we have a substantial body of literature
19 indicating that a treatment improves mental health, you have to
20 be really thoughtful about conducting a randomized controlled
21 trial where you're randomizing people to no treatment. So if
22 you wanted to conduct an RTC, you would go through what's
23 called an institutional review board and that would be the
24 ethics board that would approve such a study. And they
25 wouldn't approve a randomized controlled trial because there

1 would be concerns of the ethics of randomizing people to a
2 treatment group where mental health would get worse when you
3 could give them a treatment that would help.

4 Then in terms of scientific concerns, you usually want a
5 randomized controlled trial to be blinded or double blinded,
6 and what that means is that the people in the treatment group
7 in the placebo group don't know which group they're in, and the
8 investigators also don't know which participant is in which
9 group. The problem with gender-affirming care is that it has
10 obvious physical effects, and in that case, the blinding
11 wouldn't work because people would know which group they're in.

12 Q Are there any other limitations to conducting RCTs in
13 this area?

14 A There's also the practical limitation where it would be
15 nearly impossible to recruit enough participants for the study
16 because parents wouldn't be willing to randomize or potentially
17 have their children randomized to a group that would be the
18 placebo where we would expect their mental health to get worse
19 when there's effective treatment available.

20 Q When looking at this body of research assessing the
21 efficacy of treatments for gender dysphoria, what does this
22 body of research assess?

23 A Generally they look at mental health outcomes. The most
24 common ones that they look at are anxiety, depression, quality
25 of life, and suicidality.

1 Q And what metrics do these studies use to measure mental
2 health?

3 A So different studies use different mental health
4 outcomes, but there are all different scales of measuring those
5 aspects of mental health like anxiety, depression, quality of
6 life, suicidality.

7 Q When did the research into efficacy of medical treatment
8 for adolescents with gender dysphoria begin?

9 A To my knowledge, the first peer reviewed publication was
10 in the late 1990s, and that was published from the VUMC Center
11 for Expertise in Gender Dysphoria in Amsterdam. They wrote
12 about a young person assigned female at birth who had severe
13 gender dysphoria, severe suicidal thoughts, and received a
14 puberty blocker, later received testosterone, and in young
15 adulthood, gender-affirming surgery, and had a very positive
16 mental health outcome. In the decades since that paper, more
17 and more studies have come out showing that these treatments
18 improve mental health.

19 Q Is there separate research studying the efficacy of
20 medical treatments for adults?

21 A Yes. That is outside my area of focus, but I can
22 generally say there are dozens more studies that go back
23 decades prior to that study in adolescents looking at these
24 treatments in adults.

25 Q I want to ask you some specific questions about research

1 into the efficacy of puberty blockers. Is there specific
2 research on the efficacy of puberty blockers to treat
3 adolescents with gender dysphoria?

4 A Yes.

5 Q What do the studies evaluating the efficacy of puberty
6 blockers to treat gender dysphoria show?

7 A So, again, they fall into those two buckets. So there
8 are longitudinal studies that look at mental health before and
9 after puberty blockers and those studies find that mental
10 health is better after puberty blockers. And there are other
11 studies that compare those who received puberty blockers to
12 those who did not, and those show that people who received the
13 puberty blockers have better mental health than those who did
14 not.

15 Q Are there any particular studies that you would point to
16 that specifically assess the efficacy of puberty blockers?

17 A So to give specific examples, there's one study by de
18 Vries, et al. published in 2011 that looked at 70 adolescents
19 with gender dysphoria and measured their mental health before
20 and after and that study found that there were improvements in,
21 for example, anxiety and depression after treatment. In the
22 realm of those cross-sectional studies, there was a study by
23 van der Miesen, et al. published in 2020 that compared over 150
24 adolescents who had received puberty blockers to over 150 who
25 did not, and in that study those who received the puberty

1 blockers had lower rates of anxiety and depression than those
2 who did not.

3 Q Are there any limitations to these studies?

4 A Yes. So any study in medicine is going to have strengths
5 and limitations. So when you look at the cross-sectional
6 studies like de Vries, et al., the strength is that they
7 establish that time relationship between treatment and improved
8 mental health. But that study did not have a control group of
9 people who did not receive treatment. On the other hand, the
10 van micen study didn't have that before and after time
11 component, but it did have that control group showing that
12 people who get treatment do better than people who did not.

13 THE COURT: Can you spell van der Miesen?

14 THE WITNESS: I can try. V-a-n d-e-r M-i-e-s-e-n.

15 THE COURT: Thank you.

16 THE WITNESS: So when you're looking at this
17 research, it's really important to look at the research as a
18 whole because some of those studies, their strengths will
19 compliment some of the limitations of the other studies.

20 BY MR. STRANGIO:

21 Q When you do look at this body of research as a whole,
22 what is the full picture that you get regarding the efficacy of
23 this treatment?

24 A So when you look at all the studies together, they
25 indicate that these are effective treatments that improve

1 mental health, for instance, anxiety, depression, quality of
2 life and suicidality.

3 Q Have you published any research on the efficacy of
4 puberty blockers to treat gender dysphoria?

5 A Yes. We published a paper in the *Journal of Pediatrics*.
6 That's the journal of the American Academy of Pediatrics.

7 Q And is that a peer reviewed journal?

8 A Yes.

9 Q And what did that research show?

10 A In that study, we looked at people who had ever desired
11 puberty blockers. We then compared people who were able to
12 access them to people who were not able to access them. We
13 adjusted for other variables that could have impacted the
14 results and the overall finding was that people who accessed
15 puberty blockers during adolescence had a lower odds of
16 considering suicide than those who desired that intervention
17 but were not able to access it.

18 Q One of Defendants' experts, Dr. Hruz, claims that when
19 looking at the raw data in your pediatrics paper assessing the
20 efficacy of puberty blockers, it shows that suicidality
21 actually increased in patients receiving treatment. What is
22 your response to that?

23 A That is an incorrect way to interpret the study. So in
24 scientific research, we always look at whether or not a result
25 is statistically significant. And we never look to just the

1 raw data to make a point. So if you look in that study of that
2 specific measure, you'll see there's no statistically
3 significant difference between the two groups. When you look
4 at suicidal ideation, there is a statistically significant
5 difference showing that those who access the treatment have
6 lower odds of considering suicide.

7 Q What is the difference between a statistically
8 significant difference and just what we might understand as a
9 difference when looking at the raw data?

10 A So essentially what the statistics tell you is how sure
11 you can be that a result is real as opposed to just random
12 chance. So in medicine we only draw conclusions based on the
13 statistically significant results. Any time a statistic is
14 available, you need to look to it and not just rely on the raw
15 data.

16 Q Is there any statistically significant data showing that
17 patients' mental health worsens while undergoing pubertal
18 suppression?

19 A No, none that I'm aware of.

20 Q Turning now to gender-affirming hormone therapy. Is
21 there specific research on the use of gender-affirming hormone
22 therapy to treat gender dysphoria?

23 A Yes. So similar to puberty blockers, there are two types
24 of studies. There are longitudinal studies that look before
25 and after. For instance, there's a study by Allen, et al. that

1 looked at suicidality and they found that after
2 gender-affirming hormone treatment, adolescents with gender
3 dysphoria had less suicidality after treatment. There are also
4 cross-sectional studies that compare people who received
5 treatment to those who did not. An example of that is Green,
6 et al. that found that those who accessed gender-affirming
7 hormones during adolescence are less likely to have attempted
8 suicide than those who were unable to access those treatments.

9 Q These studies focus on the treatment of adolescents with
10 hormone therapy for gender dysphoria?

11 A Correct.

12 Q Are there studies that assess the efficacy of hormone
13 therapy to treat adults with gender dysphoria?

14 A Yes. And again, that's outside my area of focus but
15 there are dozens more studies in adults.

16 Q How did the results that you, to your knowledge, just
17 discussed with respect to adolescents being treated with
18 hormone therapy compare to the general body of research in
19 adults?

20 A The results are similar both in adults and adolescents
21 indicating that these treatments improve mental health.

22 Q I want to ask you a little bit about the body of research
23 with respect to surgery. Is there research evaluating the
24 efficacy of surgical treatments for gender dysphoria?

25 A Yes. So I would highlight that the bar for considering

1 gender-affirming surgery for an adolescent is high in the vast
2 majority of cases restricted to gender-affirming masculinizing
3 chest surgery for birth-assigned females with gender dysphoria.
4 There have been a few studies of patients who meet those strict
5 criteria for having that surgery.

6 So if you look at that population, there was a study by
7 Johanna Olson-Kennedy that compared 68 adolescents with gender
8 dysphoria who had that top surgery to 68 adolescents who did
9 not have the top surgery. In that study, those who had the
10 surgery had lower scores on a measure of chest dysphoria.
11 There was another study by Mehringer, et al. That was a
12 qualitative study meaning that they interviewed individuals
13 that had these interventions and those who did not and asked
14 them about their experiences. In that study, the adolescents
15 explained that these treatments improved their mental health
16 and that they felt it was the right decision for them.

17 There was another recent study from Kaiser by Tang, et
18 al. that looked at around 200 adolescents who had these
19 gender-affirming top surgeries and they looked specifically at
20 the rates of regret and found that regret rates were very low
21 on the order of about 1 percent.

22 Q Overall, what do the studies of the efficacy of top
23 surgery in adolescents show?

24 A So when you look at them together, they indicate that
25 there are high levels of satisfaction with these interventions

1 and that mental health improves.

2 Q We've been talking about the existing evidence showing
3 that gender-affirming medical treatments can improve mental
4 health. Is there data showing the benefits of those treatments
5 over time?

6 A Yes.

7 Q What is that data?

8 A So the different longitudinal studies and cross-sectional
9 studies have had different follow-up periods and have looked at
10 mental health for different amounts of time after treatment.
11 So to give some examples, we published a study in PLOS One
12 where we looked at people who accessed gender-affirming
13 hormones during adolescence and we measured their mental health
14 around six or seven years after and found that mental health
15 was better for those who received treatment than those who did
16 not. And another study by de Vries, et al. published in 2014,
17 they looked about somewhere between five and seven years after
18 puberty blockers as they followed people through these
19 treatment protocols.

20 Q Are these periods of time for these longitudinal studies
21 typical for studies in pediatric psychiatry?

22 A I would say they're actually very long follow-up periods
23 for pediatric psychiatry. In one of my reports, I gave the
24 example of Lurasidone as a treatment for pediatric bipolar
25 disorder. One of the trials that the FDA used to approve that

1 medication for adolescents was a six-week follow-up study.

2 Q We've heard testimony at various points in this case that
3 has referred to the Dutch protocol. Are you familiar with the
4 term "Dutch protocol"?

5 A Yes. The Dutch protocol doesn't have a specific
6 definition, but broadly refers to the practices of the VUMC,
7 Center of Expertise on Gender Dysphoria in Amsterdam, and their
8 approach to treating children and adolescents with gender
9 dysphoria.

10 Q What were the practices at that VUMC Dutch clinic?

11 A The two most important aspects of their protocol are,
12 one, that they conduct a comprehensive mental health assessment
13 prior to considering any gender-affirming medical interventions
14 for a minor. The second is that they consider interventions in
15 a step-wise fashion from most reversible like a social
16 transition in which a young person may adopt a new name or
17 pronouns to least reversible like surgery.

18 Q In the Dutch clinic, did patients present with gender
19 dysphoria in childhood?

20 A So in their earlier studies, they did highlight that they
21 focused on that population of young people who specifically had
22 evidence of gender dysphoria as children that was apparent to,
23 say, their parents. I'm not sure what their current clinical
24 population is.

25 Q What medical interventions were provided to the patients

1 at the Dutch clinic as part of the studies that we have
2 discussed?

3 A So they would consider puberty blockers at the earliest
4 stages of puberty, gender-affirming hormones in later
5 adolescence, and then generally gender-affirming surgery in
6 adulthood with occasional exception of gender-affirming top
7 surgery that may be considered earlier when indicated.

8 Q You discussed this earlier, but what were the findings of
9 the effect of this treatment at the Dutch clinic?

10 A Their studies have generally found improvements in mental
11 health with these treatments, improvements in anxiety,
12 depression, quality of life.

13 Q Defendants' experts have said that this research is not
14 applicable to care in the United States because protocols are
15 different here. What's your response to that?

16 A I would not say that's accurate. The treatment models in
17 the U.S. are very much based on the Dutch protocols, so they
18 similarly include the requirement of a mental health assessment
19 prior to starting gender-affirming hormones or puberty blockers
20 or gender-affirming surgery, and also similarly consider the
21 treatments in a step-wise fashion from most reversible to least
22 reversible.

23 Q Defendants' experts also say that because the
24 participants in the Dutch research are a different population
25 than those treated in the United States because there, for

1 example, all participants had gender dysphoria from early
2 childhood and therapeutic support, the treatment protocols
3 developed in that research don't apply to youth that have not
4 had those experiences, what's your response to that?

5 A I would say a few things. So first is that the Dutch
6 studies are not the only studies that have been published so we
7 have studies from around the world including many places in the
8 United States including Texas, Missouri, Washington, showing
9 that among adolescents with gender dysphoria in the United
10 States, the mental health improves with these treatments. In
11 the case of this early onset or early realization of one's
12 gender dysphoria, I would also point out that when we look at
13 large studies of transgender adults, as many as 40 percent
14 didn't come to understand their gender dysphoria or gender
15 identity until after puberty, so the notion that these
16 identities would not be stable just because someone came to
17 understand their gender identity after puberty is not supported
18 by the literature.

19 That being said, when we conduct mental health
20 assessments, the latest WPATH guidelines are quite clear that
21 if an adolescent doesn't have those signs of gender dysphoria
22 in childhood, which here we're referring to the prepubertal
23 period, that you would extend the diagnostic phase to make sure
24 you're really understanding that child and their situation well
25 before considering medical interventions.

1 THE COURT: Doctor, just so I'm clear, when you say
2 extend the diagnostic phase, are you talking about extending
3 the mental health treatment?

4 THE WITNESS: Correct.

5 THE COURT: I just need to get in touch with the
6 jargon. When you say extending the phase, what phase are you
7 referring to?

8 THE WITNESS: So extending the mental health
9 assessment period which is a period of time that the mental
10 health professional --

11 THE COURT: Start over, if you would, just on that
12 last part where the buzzer was going off in my ear.

13 THE WITNESS: So the latest WPATH guidelines
14 highlight that if there were something like a lack of early
15 childhood gender dysphoria, that you would extend the period of
16 time that that young person and their family are working with a
17 mental health professional to decide whether or not these
18 treatments are appropriate.

19 THE COURT: That's what I assumed, but I wanted to
20 confirm. Thank you.

21 BY MR. STRANGIO:

22 Q I think that -- did I cut you off? I don't even recall.

23 THE COURT: No, I did that. I think we were both
24 involved.

25 BY MR. STRANGIO:

1 Q I want to pivot a little bit to ask you a few questions
2 about what is sometimes referred to as the desistance
3 literature. Are you familiar with the term "desistance"?

4 A Yes.

5 Q What does this term refer to?

6 A The desistance literature generally refers to studies of
7 these very young prepubertal children who are referred to
8 gender clinics, following them over time to see how many of
9 them meet criteria for some gender-related diagnosis. And
10 those diagnoses have been different throughout history, so in
11 the past, gender identity disorder, more recently gender
12 dysphoria.

13 Q And Dr. Levine, one of Defendants' experts, suggests that
14 as many as 98 percent of minors with gender dysphoria come to
15 identify with their assigned sex thus most don't need
16 treatment, and I have some questions about this. First, is it
17 true that the overwhelming majority of adolescents with gender
18 dysphoria come to identify with their assigned sex?

19 A No. So the research that he's presumably referencing
20 again is of these prepubertal children who would not be
21 candidates for any gender-affirming medical interventions and
22 there's broad consensus in the field that once adolescents
23 reach these early stages of puberty and experience gender
24 dysphoria that it's very unlikely for them to subsequently
25 identify as cisgender or, quote, desist.

1 Q These studies that Dr. Levine is presumably referring to,
2 do you think they support the claims that Defendants' experts
3 make about them?

4 A No, I don't. And there are several reasons. So one,
5 again, is that these are studies of prepubertal children who
6 would not be candidates for any gender-affirming medical
7 interventions. And if you look through the literature, the
8 main place where you'll see these papers discussed is in people
9 talking about why we don't provide these interventions for
10 prepubertal children and that we wait until adolescence because
11 it seems that's when gender identity is much more stable.

12 The second problem is that these were kids who were
13 referred to gender clinics, but historically young people have
14 been referred to gender clinics for diverse reasons and many of
15 those kids were actually cisgender kids who did not have gender
16 dysphoria. For instance, like a cisgender boy who had, quote,
17 gender atypical interests so you could think a cisgender boy
18 who liked dolls or who liked playing with dresses sometimes,
19 but was cisgender and wouldn't have gender dysphoria.
20 Similarly, birth-assigned females who maybe were tomboys for
21 lack of a better phrase, birth-assigned females who were
22 cisgender but have what you might consider a masculine
23 interest. And, of course, it wouldn't be appropriate for
24 patients like that to receive gender-affirming medical
25 interventions.

1 I apologize that it's complicated, but the third reason
2 is that in those studies, the diagnosis at the time was this
3 diagnosis gender identity disorder, and there was a major
4 problem with that diagnosis in that it didn't require one to
5 have a gender identity different from their sex assigned at
6 birth. So, again, you could meet that diagnosis if you were
7 say a cisgender boy who liked playing with girls and liked
8 dolls or liked playing dress-up, so that was fixed with this
9 latest diagnosis of gender dysphoria in the DSM-5 and that
10 latest diagnosis requires a young person to have a gender
11 identity different from their sex assigned at birth.

12 So for those three primary reasons, it's not appropriate
13 to apply that research to these questions of gender-affirming
14 medical care which are not considered until adolescence and are
15 only considered for adolescents who have gender dysphoria in a
16 gender identity different than their sex assigned at birth.

17 Q Thank you. Are you familiar with the term
18 "detransition"?

19 A Yes.

20 Q And does this term have a consistent definition
21 throughout the medical literature?

22 A It does not.

23 Q Within the medical literature, what are some things that
24 may be considered detransition?

25 A So it's a broad heterogenous term that could mean, for

1 instance, any pursuing of gender affirmation and then stopping
2 that. So to give a few examples, if someone were to take
3 gender-affirming hormones like testosterone for a period of
4 time and then stop taking testosterone, or if someone were to
5 adopt a new name and pronouns and then subsequently revert to
6 using the name and pronouns they were using prior, these would
7 all be examples of, quote, detransition.

8 Q And if someone say reverted to identifying with their
9 assigned sex, would that also be an example of detransition?

10 A Yes. And I think the general point is that when you're
11 looking at this research about detransition, it's really
12 important that you look specifically at how that study is
13 defining detransition because there are these very diverse
14 definitions and you have to be really careful about drawing
15 conclusions and make sure you're tying it to how that study
16 defined detransition.

17 Q You mentioned one metric used in the literature to
18 document what's called detransition might be the
19 discontinuation of medical treatment. What are some reasons
20 someone might discontinue medical treatment for gender
21 dysphoria?

22 A Similarly that would be a diverse heterogenous group.
23 For instance, someone might take testosterone for a period of
24 time, be happy with the results of the testosterone, find that
25 those physical effects alleviated their gender dysphoria and

1 stop the treatment because they're satisfied with the results
2 they've had. There could be an instance in which somebody
3 starts hormones and let's say starts a new job or goes to a new
4 school, college, and then is harassed or discriminated against
5 for being transgender and their gender presentation and the
6 experience of expressing themselves in that way may become so
7 difficult that they feel they need to stop hormones and go back
8 to presenting as their sex assigned at birth. There are rare
9 instances where people could lose their insurance or have a
10 medical condition develop that would result in them stopping
11 hormones, but there are really many reasons.

12 Q Just to clarify, in these studies, does detransition mean
13 that a person goes from identifying as transgender to
14 subsequently identifying as non-transgender?

15 A So not necessarily. That could occur, but in some of
16 these other examples, the person may meet this definition of
17 detransition but continue to identify as transgender. For
18 instance, the person who was satisfied with the effects of the
19 hormones or someone who was forced by external factors like
20 harassment or stigma to stop hormones, etc.

21 Q Is the term "detransition" the same as transition regret?

22 A No. So transition regret is a more specific term that
23 means that somebody essentially wishes they had not undergone
24 the treatment that they pursued.

25 Q If someone regrets treatment, does that mean that they no

1 longer identify as transgender?

2 A It could but also not necessarily. So, for instance, the
3 person who starts hormones and then goes to college and faces a
4 lot of discrimination may find that that experience was so
5 awful for them that they wish they had never pursued that
6 treatment. So they would regret the treatment but continue to
7 identify as transgender.

8 Q Is there research that looks at rates of detransition
9 among people who have received medical treatment for gender
10 dysphoria?

11 A Yes. Again, I would just highlight that it's really
12 important when looking at those different studies to look at
13 how they define detransition because they've used different
14 definitions.

15 Q What does that research show?

16 A Generally if you're looking at something like regretting
17 the treatment or subsequently coming to identify as cisgender,
18 those rates are very low on the order of around 1 to 2 percent.
19 If you expand the definition to mean say stopping hormones for
20 any reason, then the numbers could be higher.

21 Q Is there medical literature that explores the reasons for
22 detransition?

23 A Yes.

24 Q What does that literature show?

25 A There are a few different studies. So we published a

1 study where we looked at 27,000 transgender adults, so people
2 who are currently living as transgender. And in that study we
3 found that a large proportion had detransitioned at some point
4 in the past, over 10 percent, and the vast majority of them
5 said that they had those experiences of detransition in the
6 past because of these external factors, so harassment,
7 discrimination, etc.

8 There are also a few studies that look at people, a mix
9 of some of whom still identify as transgender, some of whom now
10 identify as cisgender. And they have cited different reasons
11 including that they felt the treatment did not help them as
12 much as they had hoped or they were worried about a medical
13 complication developing or they felt that they needed other
14 treatments for their other mental health concerns separate from
15 the gender dysphoria and prioritized that over the gender
16 dysphoria.

17 Q And are there examples in these studies of people who
18 thought it was the wrong decision for them?

19 A Yes.

20 Q In the studies that looked at the reasons for
21 detransition and included some people who thought it was the
22 wrong decision for them and possibly regretted treatment, did
23 those studies look at how common that experience was among the
24 total population of people receiving treatment?

25 A No. So one example is a paper by Lisa Littman and the

1 study looked only at people who had detransitioned. So the
2 total sample there, the denominator, if you will, is just those
3 people who detransitioned. So when we look at the studies of
4 all people who received the treatment, that's a very small
5 percentage. But in interpreting that study, you need to keep
6 in mind that you're looking at a percentage of a small
7 percentage of the total population who have received this
8 treatment.

9 THE COURT: Doctor, when you saw the denominator of
10 detransition, what definition of detransition are you using for
11 the denominator?

12 THE WITNESS: It's complicated because it would
13 depend on the study.

14 THE COURT: The one you were just referring to from
15 Lisa Lemon.

16 THE WITNESS: That study was an on-line sample of
17 people who self-identified as having detransitioned, defined
18 somewhat broadly, but generally those were people who said they
19 started medical interventions and then stopped them or started
20 medical interventions and then pursued a different medical
21 intervention to undo the effects of the initial one if that
22 makes sense.

23 THE COURT: Thank you.

24 BY MR. STRANGIO:

25 Q So switching gears just a bit. Defendants' experts

1 gleaned that in some studies, evaluating medical treatments for
2 adolescents with gender dysphoria, there were no findings of
3 mental health improvements from these interventions. Is that
4 accurate?

5 A There were two studies of the 16 that did not find
6 statistically significant improvements in mental health.

7 Q And which two did not find statistically significant
8 improvements?

9 A So, one, the study by Carmichael, et al. This was a
10 study of adolescents in the United Kingdom who were followed
11 before and after puberty blockers and they did not find a
12 statistically significant difference in the mental health
13 measures that they looked at including self-harm. There was
14 not an improvement. There was also not a worsening of mental
15 health that was statistically significant. One thing to keep
16 in mind when interpreting that study is that what we see for
17 most adolescents with gender dysphoria is that when they enter
18 puberty and their bodies start developing in ways that don't
19 match their gender identity, their mental health starts to
20 worsen because of that gender incongruence. So the fact in
21 this study they didn't detect that worsening that we would
22 expect is notable.

23 The other study was a study by Hisle-Gorman. That study
24 looked at mental healthcare utilization, so the number of
25 mental healthcare appointments that a person had both before

1 and after starting gender-affirming medical treatments. The
2 thing that's difficult about that study is that mental
3 healthcare utilization is very far removed from someone's
4 actual mental health. So they found that participants
5 continued to see a mental health professional after the
6 treatment but that also is considered good practice in this
7 area that you continue to follow people closely. So the fact
8 that they were continuing to see a mental health provider
9 doesn't mean that their mental health didn't get better or was
10 worsening. So I would urge caution in interpreting that study
11 just because their outcome measure is so far removed from what
12 we care about clinically which is whether or not the person's
13 mental health is getting better or worse.

14 Q Again, when we look at the body of research as a whole
15 about the efficacy of these gender-affirming medical
16 interventions to treat adolescents with gender dysphoria, what
17 does it show?

18 A When you look at all the studies together, it indicates
19 that these treatments are effective in improving mental health,
20 specifically anxiety, depression, quality of life, and
21 suicidality.

22 Q Are you familiar with the term "rapid onset gender
23 dysphoria"?

24 A Yes.

25 Q What is rapid onset gender dysphoria?

1 A Rapid onset gender dysphoria is a term that entered the
2 medical literature through a paper by again Lisa Littman. It
3 is a hypothesis that there's a specific type of gender
4 dysphoria in which adolescents come to identify as transgender
5 all the sudden or rapidly after the onset of puberty in that
6 this is a result of peer pressure or social contagion.

7 Q Is rapid onset gender dysphoria a recognized mental
8 health diagnosis?

9 A It is not. The term entered the literature through this
10 study in which Dr. Littman posted an anonymous survey on four
11 websites. These are websites that are generally considered to
12 have a bias against gender-affirming medical care. And the
13 survey asked parents from those websites or anonymous
14 participants, presumably parents from these websites whether or
15 not they felt that their adolescent children came to identify
16 as transgender all of a sudden and if they felt that was a
17 result of social media, and perhaps not surprisingly because
18 this is what these websites focused on, but the participants
19 overwhelmingly said yes.

20 The paper received a lot of attention and criticism from
21 the medical community and subsequently underwent another
22 review, and a correction was issued on that paper in which the
23 authors very explicitly said that rapid onset gender dysphoria
24 is not a recognized mental health diagnosis at this time but
25 rather a hypothesis or a theory. And really highlighted that

1 the problem with that study was that it didn't interview any of
2 the adolescents themselves or their healthcare providers. In
3 clinical practice, we generally see that from parents'
4 perspectives a young person's trans identity is a surprise and
5 that announcement comes all the sudden or rapidly, but when you
6 talk to the young people, they usually say that they have been
7 thinking about this often for years and they're really afraid
8 of their parents' reactions, they're afraid that their parents
9 won't accept them or their parents will be mad at them. So
10 while it may be rapid onset to the parents, you really need to
11 know if it's rapid in onset for the young people.

12 Q When you're evaluating patients for making a diagnosis of
13 gender dysphoria in adolescents, do you consider social
14 influence?

15 A Again, this rapid onset gender dysphoria idea is a
16 hypothesis, it's a theory, there's no evidence that that's a
17 true phenomenon, let alone that it's true for a large number of
18 adolescents. That being said, this is a field where we are
19 very cautious, so when we're conducting the mental health
20 assessment, we certainly are working to understand the young
21 person's social environment at home in their community, at
22 school with their friends, and we would consider that
23 possibility of peer influence. And if there were reasons to
24 believe that that were going on, then that is another situation
25 in which this diagnostic phase, that assessment period with a

1 mental health professional, would be extended until we feel
2 confident we truly understand what's going on and that this is
3 a good decision for that young person and their family.

4 Q So you're talking about how you would conduct these
5 assessments in that diagnostic phase. Are you aware of how
6 others in your field conduct these evaluations?

7 A Yes. So this is something that we talk about frequently
8 at mental health conferences, at scientific conferences among
9 my colleagues in the field.

10 Q How common is it in this field to conduct these
11 comprehensive assessments that consider many possible
12 differentials, so to speak?

13 A So all providers that I know consider the definitive
14 guidelines in this field to be the Endocrine Society guidelines
15 and the World Professional Association for Transgender Health
16 Standards of Care and they follow those guidelines which
17 highlight that really it's necessary to conduct this
18 biopsychosocial mental health assessment prior to initiating
19 any gender-affirming medical care.

20 Q And shifting gears just a bit. Some of the State's
21 experts have pointed to your reports from other countries,
22 specifically the UK, France, Finland, Sweden, Australia, and
23 New Zealand as demonstrating a lack of evidence of
24 effectiveness of gender-affirming medical interventions for
25 adolescents. Are you familiar with these reports?

1 A I'm familiar with them through reading the statements
2 from the State's experts.

3 Q Do you know generally what these reports are from that
4 familiarity?

5 A My understanding is that they are generally reviews of
6 the literature. I would point out that the different summary
7 reports were published in different years, so some of them
8 don't consider the full body of research that has been
9 published to date but they're different in that respect
10 depending on which report you're looking at.

11 Q Do any of the reports recommend banning treatment?

12 A No.

13 Q To your knowledge, are any of these reports peer
14 reviewed?

15 A No.

16 Q What is the purpose of peer review?

17 A The purpose of peer review is to make sure that any
18 publication that's going out into the scientific literature
19 accurately reports the data, is using reliable data, has valid
20 conclusions, and is free from inappropriate bias.

21 Q Is it common in medicine to have literature reviews that
22 identify gaps in research or knowledge?

23 A Yes, I would say that the standard way in which one
24 writes a review of the literature is they talk about what
25 literature exists, they talk about what's known from that

1 literature, and then they generally highlight gaps. And the
2 point of that is to hopefully inspire researchers to continue
3 to conduct more research to move the field forward.

4 Q So we've been talking about the research showing the
5 efficacy of hormone treatments and some surgical treatments for
6 gender dysphoria. Is there research demonstrating the
7 effectiveness of other treatments for gender dysphoria in
8 adolescents?

9 A Outside of those set forth by the Endocrine Society
10 guidelines and WPATH you mean?

11 Q Outside of the treatments that are recommended by the
12 Endocrine Society guidelines and WPATH, is there research
13 demonstrating the efficacy of other treatments for gender
14 dysphoria?

15 A Not that I'm aware of.

16 Q What about in adults?

17 A No, not that I'm aware of.

18 Q Are there randomized controlled trials showing
19 alternative treatments beyond those identified in the standards
20 of care in Endocrine Society guidelines that demonstrate the
21 effectiveness at treating gender dysphoria?

22 A No.

23 Q Are there longitudinal studies showing alternative
24 treatments are effective at treating gender dysphoria?

25 A No.

1 Q Are there cross-sectional studies showing alternative
2 treatments are effective at treating gender dysphoria?

3 A No.

4 Q Is there any research indicating the impact of delaying
5 treatment for gender dysphoria where that treatment is
6 medically indicated?

7 A Yes. Again, those cross-sectional studies I was
8 referencing compare people who access treatment to those who
9 continue through their lives without accessing treatment, and
10 they found that those who accessed the treatment had better
11 mental health outcomes than those who continue along without
12 accessing treatment. We also publish a paper in PLOS One where
13 we compared specifically people who accessed gender-affirming
14 hormones during adolescence to those who did not access them
15 until adulthood, and those who access them during adolescence
16 had lower odds of severe psychological distress when compared
17 to those who had to wait until adulthood to access treatment.

18 Q Are there any studies assessing the impact of
19 interventions aimed at aligning a patient's gender identity
20 with their assigned sex?

21 A Yes. So in the field, we generally refer to those as
22 conversion efforts, colloquially people may call them
23 conversion therapies. And studies have shown that exposure to
24 those approaches are linked to adverse mental health outcomes
25 including suicide attempts, and for that reason, those

1 practices have been labeled unethical by all major medical
2 organizations including the American Psychiatric Association,
3 the American Medical Association, and the American Academy of
4 Child and Adolescent Psychiatry.

5 Q I want to just ask a few final questions about your
6 clinical practice as it relates to the research we've been
7 discussing. We've heard testimony and you've testified today
8 about the protocols for the treatment of gender dysphoria and
9 adolescents reflected in the WPATH standards of care and in the
10 Endocrine Society guideline. Are you familiar with those
11 guidelines?

12 A Yes.

13 Q Do you follow those guidelines in your own clinical
14 practice?

15 A Yes.

16 Q As both a clinician and a researcher with knowledge of
17 the state of the science in this area, what would it be like to
18 care for patients with gender dysphoria and their families if a
19 law banning the treatments outlined in those protocols were in
20 effect?

21 A It would be emotional to think about. Because the
22 reality is that we frequently in clinic have families that are
23 coming to us with these young people who are really struggling
24 with severe anxiety, depression, sometimes suicidal thoughts,
25 sometimes their mental health is declining so dramatically that

1 they can't go to school, and it's my job to tell families what
2 the evidence-based approaches are to help their child. So if
3 these treatments were not an option, I'd be left without any
4 evidence-based approaches to treat this young person's gender
5 dysphoria.

6 Q Thank you. Just one moment to consult with my
7 co-counsel. No further questions. We'll pass the witness.

8 MR. CANTRELL: Your Honor, if we could have just a
9 five-minute break.

10 THE COURT: We're not going to break every time we
11 finish a direct and a cross. We do this every time. We've
12 only been going about an hour, or less than that. So let's
13 proceed, please.

14 MR. CANTRELL: It may take me just a minute.

15 THE COURT: I understand. I'll give you plenty of
16 time to set up.

17 CROSS-EXAMINATION

18 BY MR. CANTRELL:

19 Q Good morning. My name is Michael Cantrell. I believe
20 we've met before virtually and during the deposition. I work
21 for the Attorney General's office. I represent the defense and
22 I have some questions for you. First of all, this is your
23 first trip to Arkansas. Correct?

24 A Correct.

25 Q You've never practiced in Arkansas; is that right?

1 A That is correct.

2 Q You don't claim expertise in what treatment protocols are
3 followed by medical providers across Arkansas; is that right?

4 A This is an area of medicine where we follow national
5 guidelines and international guidelines from WPATH and the
6 endocrine society so I would expect that clinicians here would
7 follow the same guidelines as those around the country.

8 Q But you don't claim expertise in what protocols are
9 actually followed across the state of Arkansas, correct?

10 A I would expect that they would follow the guidelines that
11 are followed around the nation. I don't have any reason to
12 believe that they would be different in Arkansas, but I myself
13 do not practice in Arkansas, no.

14 Q So I'm not sure that you're addressing the question. I'm
15 asking whether or not you are claiming to have expertise in the
16 practices of specifically Arkansas practitioners.

17 A I would expect practitioners in Arkansas would follow the
18 national guidelines, but I can't speak to what is done in any
19 individual clinic having not been there.

20 Q So your answer is that no, you don't claim expertise in
21 the practices of Arkansas practitioners, I take it?

22 A My expertise is in the treatment of gender dysphoria and
23 how that's practiced in the United States. Again, I don't have
24 any reason to believe that would be different in Arkansas, but
25 no, I've not worked in a clinic in Arkansas to get a firsthand

1 account.

2 Q You've never evaluated any of the minor plaintiffs in
3 this litigation, correct?

4 A I have not.

5 Q I understood you to testify and correct me if I'm wrong,
6 but I understood you to testify that a mental health assessment
7 is necessary before cross-sex hormones are prescribed to an
8 adolescent with gender dysphoria; is that right?

9 A Correct.

10 Q That's required by both the Endocrine Society and the
11 current WPATH guidelines, correct?

12 A That is correct.

13 Q So it would be practicing outside of those guidelines for
14 a provider to prescribe cross-sex hormones to a minor without a
15 mental health assessment; is that right?

16 A Correct.

17 Q Are you aware of any healthcare providers prescribing
18 cross-sex hormones to adolescents without a comprehensive
19 assessment?

20 A I am not.

21 Q So for many people, gender identity evolves over time; is
22 that right?

23 A The research suggests that there's a strong biological
24 component of one's gender identity, so one has a core
25 biologically determined gender identity. That being said, the

1 ways in which people apply language to it or describe it or
2 conceptualize it can certainly evolve over time.

3 Q So your testimony today is that gender identity is
4 determined by biology?

5 A That there's a strong biological determinant, yes, there
6 have been genetic studies that suggest a strong inheritable
7 component of trans identity. And as I mentioned, there's this
8 core biological basis on which our gender identities are built,
9 but the language that we apply to that and the ways in which we
10 describe it and conceptualize it can evolve over a lifetime.

11 Q You participated in a talk titled Transgender Youth
12 Understanding Detransition Nonlinear Gender Trajectories and
13 Dynamic Gender Identities. Correct?

14 A Yes. I believe you're referencing a talk at the American
15 Academy of Child and Adolescent Psychiatry.

16 Q And in that talk, you explained that although some may
17 think of gender identity as static, for many people it evolves
18 over time. Correct?

19 A Yes. As I mentioned prior, the language that people
20 apply to their gender identity and how they conceptualize it
21 can evolve over time.

22 Q You stated that psychiatrists must be aware of the
23 dynamic nature of gender identity. Is that right?

24 A Yes. Much of this is similar to what I was speaking
25 about prior that there's a small population of people who,

1 quote, detransition and there are these heterogenous
2 experiences that are really important for us as psychiatrists
3 to understand. Even if they're a small minority of our
4 patients, I think it's important that we understand and be able
5 to support all of our patients.

6 Q You'd agree that a person's gender identity can lead them
7 away from their initial transition, correct?

8 A Could you be more specific?

9 Q So take a person who experiences gender dysphoria and has
10 a transition, and that person can experience -- as they grow
11 older, they can -- they can then come to understand their
12 gender identity in a way different from when they transitioned,
13 correct?

14 A Yes. Someone's conceptualization of their gender
15 identity can evolve over time.

16 Q Gender identity is not always persistent, correct?

17 A I'm not sure what you mean exactly.

18 Q So let me ask this. You published an article titled
19 "Dynamic Gender Presentations, Understanding Transition and
20 Detransition Among Transgender Youth." Is that right?

21 A Yes.

22 Q In that paper, you took issue with this idea that gender
23 identity is always insistent, persistent, and consistent. Is
24 that right?

25 A Yes. So, again, I was alluding to the fact that the

1 language and the way in which one conceptualizes their gender
2 identity can evolve over time.

3 Q In that paper you explain that a person's gender identity
4 is not always persistent or consistent, right?

5 A Yeah. I believe in that paper we give an example of
6 somebody who identified their gender identity as binary in
7 transgender and later they identified as nonbinary for
8 instance, so again, the language and the ways in which we
9 conceptualize our gender identity can evolve over time.

10 Q In that paper, you also explained that failure to
11 recognize the dynamic nature of gender identity does a
12 disservice to those whose evolving gender identity might
13 eventually lead them away from their initial transition. Is
14 that right?

15 A Yes. As I was mentioning prior for the vast majority of
16 patients, this is not the case, but I think it's important that
17 we consider all patients and all possible outcomes, so I think
18 it's important that we be thoughtful about how to support
19 people whose gender identities may evolve over time.

20 Q Also in that paper you explain that a detransition can be
21 driven by internal factors. Correct?

22 A We explain that it can be driven by external or internal
23 factors, yes. External factors would be, for instance, what I
24 described prior of stigma, harassment, discrimination,
25 instances in which people are forced to detransition. Also

1 often those external factors can lead to a lot of shame.

2 Q I'm not asking you about the external factors. Could you
3 tell me about the internal factors?

4 A Yes. Those external factors, for example, that shame,
5 could over time --

6 Q No, no, I'm asking you about the internal --

7 THE COURT: Sir, let him finish his question.
8 Please don't cut him off.

9 MR. CANTRELL: Your Honor, if I may object to
10 nonresponsive answer from the witness. I had asked him about
11 the internal factors and he's wanting to talk about external
12 factors that might lead to transition.

13 THE COURT: Re-ask your question.

14 BY MR. CANTRELL:

15 Q Dr. Turban, what are internal factors that might lead a
16 person to detransition?

17 A I'm about to answer your question about internal factors,
18 but it does involve the word "external" to finish the sentence.

19 Q If you would address the internal factors.

20 A Over time those external factors can drive to internal
21 factors such as shame or internalized trans phobia or
22 discomfort with one's gender identity. That would be one
23 internal factor. Another internal factor could be an evolution
24 of one's gender identity and the way they conceptualize it
25 unrelated to those external factors, but it's important to

1 consider that there's not always a clean distinction between
2 external and internal factors, and sometimes the internal ones
3 are driven by external ones. Sometimes they're not.

4 Q Thank you. You used the phrase "nonlinear gender
5 trajectory". Correct?

6 A Yes.

7 Q What you call a nonlinear gender trajectory can include
8 people who identified as transgender and then later ceased to
9 identify as transgender. Is that right?

10 A I would add a bit of nuance that the word transgender can
11 be used in different ways. So some people use the word
12 transgender to mean they have a gender identity opposite their
13 sex assigned at birth. Some people use that as an umbrella
14 term that's a bit broader and that would include nonbinary
15 gender identities, but yes.

16 Q So your answer is yes?

17 A Yes, depending on how you're defining transgender.

18 Q And I apologize. For my benefit, what definition are you
19 using to answer yes?

20 A I might throughout my testimony have to use the term
21 differently if we're talking about different bodies of
22 literature because they use it differently, but with both
23 definitions, it would be true that somebody could go from a
24 binary identity to a nonbinary identity or from binary trans
25 identity to later endorsing a cisgender identity.

1 Q And a person could go from initially identifying with
2 their birth gender to then transitioning and identifying as a
3 transgender identity and then potentially back to identifying
4 with their birth gender, correct?

5 A That's certainly not a typical experience, but that would
6 be possible.

7 Q I believe you discussed a study that you published in
8 2020 titled "Pubertal Suppression for Transgender Youth and
9 Risk of Suicidal Ideation."

10 A Yes.

11 Q That study you described as comparing mental health
12 outcomes for patients who wanted and received puberty blockers
13 with patients who wanted but did not receive puberty blockers.
14 Is that right?

15 A Yes.

16 Q That study included a multivariate analysis. Is that
17 right?

18 A Correct.

19 Q The multivariate analysis is where you adjust for a range
20 of potential confounding variables. Is that right?

21 A Yes.

22 Q Can you tell us what a confounding variable is?

23 A So when you're looking at the relationship between two
24 variables, say puberty blockers and suicidality, a confounder
25 is something that could be related to both the exposure, so in

1 this case conversion therapy, and also related to the outcome,
2 in this situation suicidality. And if you don't adjust for
3 those confounding variables, it could impact your results.

4 Q So the multivariate analysis where you adjust for those
5 confounding variables, that multivariate analysis is what you
6 would rely on if you're looking for the purist impact of the
7 intervention, correct?

8 A Yes.

9 Q And in this case, there technically wasn't an
10 intervention, though, right, this was an observational study,
11 correct?

12 A It was an observational study that looked at people who
13 received an intervention and those who did not.

14 Q But there wasn't a -- let me ask you this. What
15 contrasts to an observational study?

16 A This was an observational study.

17 Q What is the contrasting type of study to an observational
18 study?

19 A I'm not sure.

20 Q Were you actively making an intervention as opposed to
21 merely observing what takes place or what has taken place?

22 A There are many such studies.

23 Q Okay. Let me just continue down a different road. So
24 you ran the multivariate analysis in this study that we're
25 discussing for nine different outcome measures. Correct?

1 A Correct.

2 Q And the multivariate analysis found no statistically
3 significant change in eight of those nine outcome measures.

4 Correct?

5 A Yes.

6 Q The only outcome measure that your multivariate analysis
7 resulted in a statistically significant change was in suicidal
8 ideation. Correct?

9 A Yes.

10 Q So you found no statistically significant change in, for
11 example, illicit drug use, binge drinking or suicide attempt,
12 correct?

13 A Correct.

14 Q Even for suicidal ideation, the study cannot show that
15 the puberty blockers caused a lowering of suicidal ideation,
16 correct?

17 A I would not use the study in isolation to make a causal
18 inference. You would really need to look at the body of
19 literature as a whole to draw conclusions.

20 Q So your answer is yes, correct?

21 A Could you repeat the question?

22 Q Sure. Even for suicidal ideation, this study cannot show
23 that the puberty blockers caused a lowering of suicidal
24 ideation?

25 A Correct, the study in isolation cannot show that.

1 Q One of the reasons why is that there's sort of a chicken
2 and egg problem here. Is that right?

3 A Yes. So any time you have a cross-sectional study that
4 doesn't have that longitudinal component that those
5 longitudinal studies have, there's the potential for reverse
6 causation which I think is what you're referring to as the
7 chicken and the egg.

8 Q So isn't it true that one reason why a patient who wants
9 puberty blockers may not receive puberty blockers is because
10 they suffer greater mental health issues to begin with,
11 correct?

12 A So the guidelines highlight that to initiate pubertal
13 suppression, other mental health concerns need to be reasonably
14 well controlled, so it's not that they can't have other mental
15 health conditions that are active. In fact, frequently they do
16 and that's why you're initiating the treatment. They need to
17 be sure that those other mental health conditions aren't going
18 to impair their ability to respond well to the treatment.

19 Q So there's a potential confounder here, correct?

20 A I'm not sure what specifically you're referring to.

21 Q So kids who receive puberty blockers might show less
22 suicidal ideation because they had better mental health to
23 begin with?

24 A That is possible.

25 Q You say in your article that reverse causation cannot be

1 ruled out?

2 A For this specific study in isolation, yes.

3 Q You say it's plausible that those without suicidal
4 ideation had better mental health when seeking care and thus
5 were more likely to be considered eligible for pubertal
6 suppression, correct?

7 A For this specific study, yes.

8 Q It's fair to say this is a chicken and egg problem, what
9 comes first, what causes what?

10 A That question of reverse causation in this particular
11 study, yes.

12 Q Okay. So shifting gears slightly, the statistical
13 significance is not the same thing as clinical significance,
14 correct?

15 A Correct.

16 Q Just because something -- just because there's a
17 clinically significant change in suicidal ideation doesn't mean
18 that there would actually be a clinically observable
19 difference, correct?

20 A I think you said clinical twice. Could you repeat the
21 question?

22 Q I'm sorry, yes. Just because there's a statistically
23 significant change in suicidal ideation doesn't mean that a
24 clinically significant change will be observed, correct?

25 A As a general principle, yes.

1 Q And a clinically significant change would be a change
2 that materially impacted a patient in real life. Is that
3 right?

4 A Yes.

5 Q I believe that you also testified to some of the articles
6 that you've published which have made use of the United States
7 Transgender Survey. Is that right?

8 A Yes.

9 Q I'll call this the USTS just for brevity. So the USTS
10 was an on-line survey of transgender adults. Correct?

11 A It's a survey that lived on a website but the way they
12 actually recruited, they worked with over 400 LGBTQ outreach
13 organizations and it also included some in-person events where
14 people would come in person to take the survey on I believe
15 computers or iPads, but yes, the survey itself lived on line.

16 Q It was a survey of transgender adults, correct?

17 A Yes.

18 Q So you just testified that the survey participants were
19 recruited by LGBT outreach organizations, correct?

20 A Correct.

21 Q And surveys conducted in that way are potentially subject
22 to recruitment bias, correct?

23 A They are convenience samples. So scientific and
24 epidemiologic research, we separate probability samples from
25 convenience samples. I think that's what you're alluding to.

1 Q Can you tell us the difference between a representative
2 sample and a convenience sample?

3 A Yes. So a representative sample or what I would call a
4 probability sample is when you randomly pick people out of a
5 population. So, for example, people will use random digit
6 dialing where they will take a large database of phone numbers,
7 they'll pick random phone numbers and call those phone numbers.
8 And you can imagine that because you're picking random numbers
9 that you're getting a representative sample that's not biased
10 because you're just picking at random from the population. So
11 the hope is that that is a representative sample of the full
12 population.

13 A convenient sample is anything else, where you don't
14 randomly select participants from the full population. As you
15 can imagine, it's very difficult to build representative
16 samples particularly in minority mental health research because
17 the number of phone numbers you would have to call to amass a
18 sample that's large enough would be prohibitive, so you'll
19 mostly see nonprobability samples in this area.

20 Q So when you use the -- let me make sure I'm following. I
21 believe you've used the phrase "probability sample" and
22 "nonprobability sample"?

23 A Yes.

24 Q So a nonprobability sample is the same thing as a
25 convenient sample?

1 A Yes.

2 Q The USTS is an example of a nonprobability sample,
3 correct?

4 A Yes, or you could call it a convenience sample.

5 Q When you use convenience samples, your survey is subject
6 to recruitment bias potentially, correct?

7 A It could potentially not be representative in the way
8 that a probability sample would be.

9 Q So the answer is yes?

10 A I wouldn't use the same terminology, that's not exactly
11 how we describe it, but yes.

12 Q The survey was anonymous in the sense that no personal
13 identifying information was collected, correct?

14 A Correct.

15 Q All of the participants in the USTS would have identified
16 as transgender at the time of the survey; is that right?

17 A Again, using that broader umbrella term of transgender,
18 yes.

19 Q That would have included individuals who identified as
20 transgender, trans, genderqueer, nonbinary, and other
21 identities on the transgender identity spectrum?

22 A Yes, that would be that broader umbrella I was referring
23 to.

24 Q The USTS did not include anyone who had desisted or
25 detransitioned, correct?

1 A We did publish a paper out of the USTS where we asked
2 people if they had ever detransitioned, and over 10 percent of
3 them had at some point in the past.

4 Q But the USTS itself did not include any survey
5 participants who had desisted or detransitioned; is that right?

6 A Ten percent or more of the sample had experienced
7 detransition in the past. I think what you're alluding to is
8 that none of them identified as cisgender.

9 Q Could you repeat that last part?

10 A None of them identified as cisgender.

11 Q At the time of the survey?

12 A Correct.

13 Q If I understand your testimony, you're saying that
14 10 percent of the population that was surveyed in the USTS had
15 transitioned and then subsequently detransitioned and then
16 maybe transitioned again; is that correct?

17 A Correct. Again, as I mentioned earlier, this is
18 detransitioned defined very broadly and there are different
19 definitions of detransition, so it's important to keep in mind.
20 In this specific instance they're looking at detransitioned
21 very broadly, not necessarily meaning regret or a change in
22 gender identity per se.

23 Q So the data from the USTS was not collected as part of a
24 longitudinal survey, correct?

25 A Correct.

1 Q What is a longitudinal survey?

2 A That would be a survey that surveys the same participants
3 at various subsequent time points.

4 Q So the data from the USTS was collected at a single time
5 point?

6 A Correct. I specifically used the 2015 gender survey.
7 There is another one from earlier and there's one being
8 conducted now so there's different iterations of the gender
9 survey, but my researchers used the one from 2015.

10 Q Your research only used the 2015 USTS?

11 A My research used the 2015 USTS.

12 Q That data was collected at a single point in time as
13 opposed to over multiple points in time as a longitudinal
14 survey would be?

15 A Correct.

16 Q Your articles conducted a secondary analysis of the USTS
17 data, correct?

18 A Correct.

19 Q Those articles used what's called a retrospective
20 self-report, correct?

21 A Correct.

22 Q And a retrospective self-report is subject to being
23 affected by recall bias, correct?

24 A Yes.

25 Q Can you tell us what recall bias is?

1 A Recall bias generally refers to the difficulty people may
2 have in remembering something that happened in the past as
3 opposed to something that is happening to them in the given
4 moment.

5 Q I believe you mentioned the Olson-Kennedy paper published
6 in 2018. Do you recognize the paper I'm referring to?

7 A Could you give me the title so I'm referring to the same
8 one?

9 Q This was a case series reporting on patients who had
10 chest surgeries.

11 A Do you have the title?

12 Q Give me one moment. The title of that paper would be
13 "Chest Reconstruction and Chest Dysphoria in Trans Masculine
14 Minors and Young Adults."

15 A Yes, I don't know that it would be a case series per se,
16 but I know the paper you're referencing.

17 Q Are you aware that this paper reported on five patients
18 who had chest surgeries?

19 A I believe it was more than five unless we're talking
20 about different papers.

21 Q So let me ask you this. You're aware that that paper
22 reported on patients who had chest surgeries?

23 A You're now making me wonder if we're talking about
24 different papers because I see the paper you're referencing.

25 MR. CANTRELL: May I approach, Your Honor?

1 THE COURT: Certainly.

2 THE WITNESS: This is a study of pubertal
3 suppression, not top surgery.

4 MR. CANTRELL: Your Honor, I've got the correct
5 paper.

6 BY MR. CANTRELL:

7 Q Dr. Turban, I've handed you a document titled "Chest
8 Reconstruction and Chest Dysphoria in Trans Masculine Minors
9 and Young Adults." Do you recognize that as the Olson-Kennedy
10 paper that you testified concerning previously?

11 A Yes, this is the paper I was thinking of. It's of 68
12 patients who underwent surgery, not five.

13 Q Okay. Would you describe this as a case series?

14 A I would. It's essentially a cross-sectional study that
15 compares those who received top surgery with those who did not.

16 Q Would it be fair to characterize it as a case series?

17 A Case series sometimes implies that it's longitudinal and
18 this study is not.

19 Q I see. So this is not a longitudinal study and that
20 would give you hesitancy in saying that it's a case series?

21 A Correct.

22 Q Fair enough. So if you would, take a look at page 434 of
23 that article. There is a figure, age at chest surgery in the
24 post surgical cohort. Do you see that figure?

25 A Yes.

1 Q Okay. So reading the information in that figure, there
2 are five patients who had chest surgeries at age 14 and two
3 patients who had chest surgeries at age 13. Is that right?

4 A Correct.

5 Q Would you support providing chest surgery to a 13 year
6 old or 14 year old?

7 A As I mentioned earlier, surgery is a major decision.
8 Certainly surgery in a young adolescent is an even bigger
9 decision. You're weighing the risks and benefits for an
10 individual case, and in the case of surgery, the risks and
11 potential side effects are very high. Surgical complications,
12 anesthesia, etc., so you would need to be quite sure that the
13 potential benefits of the surgery are very, very high. So
14 without knowing more detail about these specific patients, it
15 would be hard to say, but my presumption is that these patients
16 would have had very severe chest dysphoria where the
17 interdisciplinary team working with and evaluating them would
18 have considered that the risk of not having surgery would have
19 been much higher than the potential risks of surgery.

20 But I will say those would be outlier cases for the
21 patients that I've seen. I would also point out that there are
22 different types of top surgery, and some procedures are more
23 involved than others. I would have to look through this paper,
24 but for a patient that young, it's possible that they would not
25 have very much chest tissue so it might be a smaller surgery,

1 but I'd have to look at the paper in more detail if you wanted
2 me to comment on what specific surgeries these patients
3 underwent.

4 Q Let me just ask you just to be clear that I understand
5 your answer. It sounds to me like, and correct me if I'm
6 wrong. It sounds to me like your testimony is that there
7 easily could be -- let me rephrase. It sounds to me like your
8 testimony is that there could be scenarios in which you would
9 support chest surgery on a 13 year old?

10 A Certainly not easily. This would not be a common
11 decision. But there could be extreme outlier cases where one
12 might decide that the benefits of surgery outweigh the risks
13 because as you can see from this graph, these are outliers, the
14 vast majority of patients would not be having surgery this
15 young. This is only a sample of people who even accessed
16 surgery. So you're talking about a small subsample of a
17 subsample.

18 Q So shifting gears a little bit. Dr. Turban, you would
19 agree that providing testosterone to a girl with gender
20 dysphoria can actually increase chest dysphoria. Is that
21 right?

22 A I think you may be referring to the Mehringer study or
23 you might have it in reverse.

24 Q Take a look at --

25 THE COURT: Are we on a different paper?

1 MR. CANTRELL: No, it's the same paper, Your Honor.

2 BY MR. CANTRELL:

3 Q If you would look at page 435, there is a section at the
4 upper right-hand column. It discusses -- it says the
5 increasing chest dysphoria after testosterone treatment begins
6 does reflect a common clinical phenomenon. A honeymoon period
7 after testosterone initiation may quickly become eclipsed by
8 the greater disparity between a more masculine presentation and
9 a female chest contour. Clinicians should advise patients and
10 families that chest dysphoria may increase over time after
11 starting hormone therapy.

12 A Sorry. I see what you're referencing. So they here are
13 no longer talking about the patients who had surgery, but
14 they're referencing their control group of people who did not
15 have surgery. And yes, so while testosterone can impact other
16 aspects of physical gender dysphoria, testosterone does not
17 have much impact on chest tissue or chest contour, so for
18 patients taking testosterone, their gender dysphoria overall
19 may improve in several areas of their body, but their chest
20 dysphoria will not improve by the testosterone. So when they
21 are thinking about their physical dysphoria, they may start to
22 highlight the chest more because the other areas of dysphoria
23 have improved but that has not.

24 Q So Olson-Kennedy referred to increasing chest dysphoria
25 after testosterone treatment in this passage that I referred

1 to. So would you agree that providing testosterone to a girl
2 with gender dysphoria can actually increase chest dysphoria?

3 A I'm just going to get confused if you're using the phrase
4 "girl with gender dysphoria" to reference a trans masculine
5 person or someone assigned female at birth.

6 Q Referring to a natal female.

7 A So someone assigned -- could you repeat the question?

8 Q Yes. So the question is, you would agree that providing
9 testosterone to a natal girl with gender dysphoria can actually
10 increase chest dysphoria; is that right?

11 A Yes. As I just mentioned. So the testosterone will
12 improve elements of physical dysphoria in other areas but not
13 the chest, so while overall gender dysphoria may improve, the
14 chest dysphoria specifically will not improve. So their
15 relative focus on the chest dysphoria versus these other things
16 that are now better will increase.

17 Q And chest dysphoria actually increases?

18 A Correct.

19 Q Okay. Different set of questions. Are you familiar with
20 -- well, you've discussed differences in onset, childhood onset
21 versus later onset, correct, of gender dysphoria?

22 A I'm not sure what you mean by differences.

23 Q Well, the distinction between the two types of onset of
24 gender dysphoria.

25 A I would say some people have apparent gender dysphoria

1 that's obvious to their families in the prepubertal period and
2 some don't until after puberty starts.

3 Q Are you aware of the difference between childhood onset
4 gender dysphoria and adult onset gender dysphoria?

5 A Similarly these are just terms referring to the different
6 ages at which people come to understand their gender identity.

7 Q So childhood onset gender dysphoria and adult onset
8 gender dysphoria have different developmental pathways,
9 correct?

10 A By definition, yes, because some people in their
11 childhood development had an experience of gender dysphoria
12 that was apparent to them and some people didn't until
13 adulthood, so by definition there are different developmental
14 pathways.

15 Q And, similarly, childhood onset gender dysphoria and
16 adolescent onset gender dysphoria have different developmental
17 pathways, correct?

18 A Again, by definition, yes.

19 Q Of the patients you have personally dealt with, greater
20 than 95 percent of those who begin puberty blockers go on to
21 take cross-sex hormones; is that right?

22 MR. STRANGIO: Objection, mischaracterization of
23 testimony.

24 THE COURT: I think you can handle that.

25 THE WITNESS: I don't have specific data in front of

1 me on my patients.

2 BY MR. CANTRELL:

3 Q Dr. Turban, you testified in a deposition in this case,
4 correct?

5 A Yes.

6 Q You were under oath during that deposition?

7 A Yes.

8 Q You swore to tell the truth in that deposition, correct?

9 A Yes.

10 Q Did you tell the truth in your deposition?

11 A Yes.

12 Q Plaintiffs' counsel was present during your deposition,
13 correct?

14 A Yes.

15 Q Let me ask you this, Dr. Turban. What percentage of
16 patients who start pubertal suppression go on to take
17 gender-affirming hormones in your personal experience?

18 A Again, I don't track that data with my patients
19 quantitatively. Generally most, but I think it would be more
20 reliable to look at the published research literature that
21 suggests that greater than 95 percent.

22 Q Okay. That's consistent with your experience, correct?

23 A Generally, yes.

24 Q Some of your studies on mental health outcomes were
25 conducted thanks to a grant funded by pharmaceutical companies,

1 correct?

2 A No.

3 Q No?

4 A No.

5 Q So let me ask again just so I understand your testimony
6 today.

7 THE COURT: You didn't understand the no that he
8 said twice?

9 MR. CANTRELL: Your Honor, I'm wondering if it may
10 have been the way I worded the question.

11 THE COURT: Okay. You asked it twice, but go ahead
12 and ask it a third time.

13 BY MR. CANTRELL:

14 Q Dr. Turban, you have previously disclosed that Pfizer is
15 tied to a grant that funded some of your research. Correct?

16 A I received a grant from the American Academy of Child and
17 Adolescent Psychiatry, and it sounds like you're referencing
18 that separately pharmaceutical companies had donated money to
19 that organization and that organization of child psychiatrists
20 ultimately provided me with a research grant of \$15,000.

21 Q And so that grant was funded by money contributed by
22 pharmaceutical companies, correct?

23 A It's complicated the way it's set up. So the American
24 Academy of Child and Adolescent Psychiatry has a fund in which
25 several different, I don't know if they're all pharmaceutical

1 companies, but certainly some of them are pharmaceutical
2 companies, donate into a pool of money. That money is set
3 aside and then an independent panel of child and adolescent
4 psychiatry experts from around the country, they receive
5 applications from child psychiatry researchers to do research
6 grants and then they award those grants, and then under federal
7 reporting, they're required to later tie those grants to the
8 companies that donated into that pool of money.

9 So in this indirect way, yes, the pharmaceutical
10 companies gave money to this pool of funding that then a panel
11 of child psychiatrists who were independent of that body
12 awarded these research grants. And I received one of those
13 research grants. So to avoid any appearance of undisclosed
14 conflict of interest, I always disclose in all of my papers
15 that I received that grant from the American Academy of Child
16 and Adolescent Psychiatry in that they receive funding from
17 their industry partners which include Arbor and Pfizer.

18 Q So to boil all that down, the grant that you received
19 was, in fact, funded by pharmaceutical companies, correct, in
20 part at least?

21 A In part and in a direct way, yes.

22 Q Do you know all of the pharmaceutical companies that
23 funded the grant?

24 A I do not. When you say the grant, you mean the fund at
25 the American Academy of Child and Adolescent Psychiatry?

1 Q I'm referring to the funds that you used to produce your
2 studies.

3 A So again, no, because they intentionally set it up in
4 this way so there wouldn't be any direct interaction between
5 the researchers or the people deciding who gets the grants and
6 any of the pharmaceutical companies, so I don't have any
7 knowledge of how the fund is set up or where the donations for
8 that fund set up because they intentionally have those deciding
9 who gets the awards and the awardees very far removed from that
10 process.

11 Q But you are aware that there are several different
12 industry sponsors that donate money into that pool of money,
13 correct?

14 A Yes. As I think I mentioned in the deposition when I
15 received the award, I was not told what, if any, pharmaceutical
16 companies were tied to the grant or were later tied to the
17 grant. I actually found out after our paper in Pediatrics was
18 published that through that Sunshine Act reporting, it had been
19 retroactively tied to a specific company called Arbor
20 Pharmaceuticals, but that's all that I'm aware of.

21 Q So was Arbor Pharmaceuticals one of the companies that
22 funded the grant?

23 A Yes, I believe that's one of the companies that donated
24 into this pool of money that was then used to give the grants.

25 Q Arbor Pharmaceuticals manufactures a puberty blocking

1 drug, correct?

2 A I believe they manufacture one, but I'm not sure the name
3 of it. Triptodur, I believe.

4 Q I'm sorry?

5 A Triptodur, I think. It's one of the ones that's not as
6 frequently used.

7 Q Dr. Turban, you have no degree in endocrinology, correct?

8 A Correct.

9 Q You're not trained as a surgeon?

10 A Correct.

11 Q If I could have one moment, Your Honor. Your Honor, I
12 have nothing further.

13 THE COURT: Any redirect?

14 MR. STRANGIO: No redirect, Your Honor.

15 THE COURT: Sir, you can step down, you're free to
16 go. Court's going to take about a 10-minute break and then
17 we're going to go to about 11:45.

18 (Recess from 10:19 AM until 10:40 AM.)

19 THE COURT: What did you say your name was?

20 MS. NOWLIN-SOHL: Li Nowlin-Sohl.

21 **ARMAND AN TOMM ARIA, PLAINTIFFS' WITNESS, DULY SWORN**

22 **DIRECT EXAMINATION**

23 BY MS. NOWLIN-SOHL:

24 Q Dr. Antomm a ria, can you state your name and spell it for
25 the court reporter?

1 A My full name is Armand, A-r-m-a-n-d, Herbert,
2 H-e-r-b-e-r-t, Matheny, M-a-t-h-e-n-y, Antommara,
3 A-n-t-o-m-m-a-r-i-a.

4 THE COURT: Are you related to the Tabasco people?

5 THE WITNESS: I am not. Not that I'm aware of.

6 THE COURT: I think they're doing quite well. I
7 haven't had many people with that name before. But go ahead.
8 I digress.

9 MS. NOWLIN-SOHL: Your Honor, I believe you have
10 Dr. Antommara's CV in front of you as Plaintiffs' Exhibit 4.

11 THE COURT: Go ahead.

12 MS. NOWLIN-SOHL: Provided that Defendants don't
13 plan to voir dire the witness, I'll forego most of the
14 background.

15 MR. CANTRELL: We do not, Your Honor.

16 THE COURT: All right. Continue.

17 MS. NOWLIN-SOHL: Thank you.

18 BY MS. NOWLIN-SOHL:

19 Q Dr. Antommara, what is your profession?

20 A I'm a pediatric hospitalist and bioethicist.

21 Q What does bioethics entail?

22 A Bioethics is the examination of ethical issues related to
23 healthcare in the biological sciences.

24 Q What professional positions do you currently hold?

25 A I am the director of the ethics center at Cincinnati

1 Children's Hospital Medical Center, the Lee Ault Carter Chair
2 of Pediatric Ethics, and a professor of medicine and surgery at
3 Cincinnati Children's Hospital Medical Center in the University
4 of Cincinnati School of Medicine.

5 Q So can you tell us a little bit about what you do as a
6 pediatrician?

7 A So about a third of my time is spent as a pediatrician
8 seeing patients. My area of specialization is pediatric
9 hospital medicine, so I see children who are admitted into the
10 hospital with general pediatric concerns like asthma,
11 pneumonia, or bone infections.

12 Q What do you do as director of the Ethics Center?

13 A I oversee the functions of the Ethics Center for
14 Cincinnati Children's which would include clinical ethics,
15 research ethics, and organizational ethics. My primary
16 activity is related to clinical ethics so I provide clinical
17 ethics consultation, address either dilemmas or conflicts
18 related to ethical issues for providers, work with a variety of
19 medical teams to address ethical issues that arise in the care
20 that they provide including our transgender clinic and our
21 differences of sex development clinic, and I help the
22 institution in terms of policies that have ethical issues, and
23 participate in research and scholarship.

24 Q Do you have ethical consultations with patients as well
25 as providers?

1 A Yes. Our ethics consultation is open to anyone who's
2 directly involved in the patient's care and patients and their
3 families can request ethics consultation.

4 Q Okay. In your role as director of the Ethics Center, do
5 you work with transgender patients?

6 A I do both in terms of individual consultation in cases
7 that include particular ethical issues as well as working with
8 the team in general in terms of its policies and procedures.

9 Q In this role, do you keep up with the research on
10 treatment for gender dysphoria?

11 A I do.

12 Q So I will be asking you about some questions about the
13 medical treatments that are at issue in this case, but before I
14 do that, I'd like to start with some background questions on
15 medical research and medical decision making. What is the goal
16 of medical research?

17 A Research in general's goal is to contribute to
18 generalized knowledge. Medical research can have a variety of
19 different goals, but one of the primary goals is to evaluate
20 the safety and efficacy of medical treatments.

21 Q How is medical research conducted?

22 A Medical research is conducted according to protocols that
23 would specify the steps in a research investigation.

24 Q Are there different types of research studies?

25 A There are two main categories of research studies:

1 Observational studies and randomized trials.

2 Q What are observational studies?

3 A Observational studies are studies that look at a
4 population at a particular time. So cross-sectional studies
5 look at a population at a single point in time and longitudinal
6 studies look at a population over a period of time making
7 repeated measures.

8 Q You mentioned randomized controlled trials. What are
9 those?

10 A So randomized controlled trials are studies in which the
11 participants are randomized, assigned to an intervention group
12 and a controlled group on a chance basis.

13 Q Why randomization?

14 A So observational studies can look at the association
15 between various factors. So in a cross-sectional study, you
16 can look at the association between two things, but it's very
17 difficult to determine whether one thing caused the other
18 thing. And in a randomized trial, you have greater opportunity
19 to demonstrate causation, so specifically let's say the
20 intervention caused the effect because in that, that effect is
21 not attributable to underlying differences in the intervention
22 group in the control group.

23 Q What is a confounder?

24 A A confounder would be one of those things that might be a
25 baseline difference between the group that was responsible for

1 the effect that wasn't appropriately controlled for. So if you
2 were going to take, say, patients with asthma and you were
3 going to look at the effect of Albuterol and you were going to
4 randomize a group to get Albuterol and a group not to get
5 Albuterol, you might want to control for other factors that
6 contribute to asthma like cigarette smoking. If you hadn't
7 controlled for tobacco exposure, that would be a confounder
8 that might contribute to the control that wasn't really part of
9 the study design.

10 Q So you just talked a little bit about kind of how
11 observational studies and randomized controlled studies kind of
12 measure efficacy of a treatment. How do randomized controlled
13 trials and observational studies compare to each other with
14 regard to measuring the safety of a treatment?

15 A So a randomized controlled trial, particularly a placebo
16 controlled trial which the control group receives an
17 ineffective intervention, allows for comparison for what's
18 called the placebo effect, somebody who even got a sugar pill
19 might associate symptoms with receiving it and allows you to
20 make comparisons between the intervention group and the control
21 group in terms of the frequency of adverse effects of the
22 intervention. Observational studies can still be very helpful
23 in terms of looking at adverse effects. Particularly
24 randomized controlled trials might be done in a relatively
25 small population and an observational study might be

1 particularly helpful because it will allow you to follow a much
2 larger group of people.

3 So if you think about the COVID vaccine trials, there
4 were certain side effects of being vaccinated that were
5 identified in a randomized controlled trial like soreness at
6 the injection site, but it was only in the observational
7 studies that were done after the vaccines were approved that
8 identified some of the rare side effects such as clotting
9 problems in a small percentage of the individuals who were
10 vaccinated.

11 Q So because this is complicated, and just to make sure I
12 understood correctly when you were talking about the randomized
13 controlled trials and the safety, so having the randomized
14 controlled trials helps to understand whether a safety concern
15 was caused by the treatment or by a confounder? Is that
16 accurate?

17 A No. Whether the -- so in a randomized controlled trial,
18 even people who got a placebo might have adverse events. So in
19 adult medicine if you were in a randomized controlled trial,
20 some finite group of people might have a heart attack but it
21 might not be attributable to the control. So it allows you to
22 make that comparison between the intervention group and the
23 control group for things that are just naturally occurring in
24 the background.

25 Q What are some of the factors that go into determining

1 which type of study to utilize?

2 A Part of it is about what the study question is, what
3 you're trying to figure out. There are also ethical,
4 logistical, and financial considerations that would go into the
5 selection of a study design.

6 Q Is there a study design that is generally considered the
7 best quality?

8 A So randomized controlled trials are generally considered
9 to be high quality evidence.

10 Q Why is that?

11 A Because of the ability to be more certain about causation
12 and the ability to potentially control for confounders.

13 Q Are randomized controlled trials always appropriate for
14 medical research?

15 A No, there are times when randomized controlled trials
16 would be unethical or when they would not be feasible and there
17 are certain types of questions for which observational studies
18 would be a more appropriate study design.

19 Q When might a randomized controlled trial be unethical?

20 A So in order for a randomized controlled trial to be
21 ethical there needed to be what's called clinical equipoise.
22 There has to be true uncertainty about whether or not the
23 intervention or the control is better, and the trial would also
24 need to be feasible. So if you had good reason to believe that
25 you couldn't recruit enough people to participate in the trial

1 and the trial wouldn't be able to answer the question, it would
2 be unethical to start the trial because it would be problematic
3 to expose individuals to the risk of the trial without the
4 potential benefit of having the trial have a determinative
5 outcome.

6 Q So you mentioned clinical equipoise. Can you give me an
7 example of a study that might not have clinical equipoise?

8 A So I'll use the asthma example again. In asthma, if you
9 have a higher severity of asthma, it would be appropriate to be
10 on a daily medication in order to control your symptoms and it
11 would be generally unethical to ask somebody to come off of a
12 controller medication to participate in a study to be able to
13 compare an acute intervention to a control because we know that
14 the controller medications are effective.

15 Q You mentioned logistical reasons. When might there be
16 logistical reasons a randomized controlled trial would not be
17 possible?

18 A So there might be logistical reasons about a site not
19 being able to recruit enough participants in the period of time
20 in which the study would occur, so in general when you're
21 designing a study, you do something called a power calculation
22 to determine how many participants you need and that you would
23 need to have good evidence that you could recruit that number
24 of participants during the study period to be able to move
25 forward.

1 Q What does it mean for a study to be double blinded or
2 double masked?

3 A So a study being double blinded means or double masked
4 would be that neither the investigators nor the participants
5 knew whether the participants were assigned to the intervention
6 group or the control group.

7 Q Why is that important?

8 A So it can be important for a number of reasons. So
9 participants might have a preference about whether they want to
10 be an intervention group or the control group and if they know
11 or have reason to suspect that they're in the control group,
12 they might drop out of the study which would affect the
13 analysis of the study. It might also affect the way they would
14 report certain outcomes and that in terms of the investigators,
15 masking is important because they also might have
16 precommitments that would lead them to unintentionally evaluate
17 people differently if they thought they were in the
18 intervention or in the control group.

19 Q Are there times when it would be impossible to mask a
20 study?

21 A There are times when it's not possible. Very difficult
22 research involving surgeries would be a particular case in
23 point if you're going to randomize somebody to get a surgery or
24 not to get a surgery, they would know.

25 Q So you mentioned in some situations it would not be

1 ethical or logistically possible to do a randomized controlled
2 trial. Are there additional barriers to randomized controlled
3 trials?

4 A Can you repeat the question, please?

5 Q You talked a little bit about some of the ethical and
6 logistical barriers to doing randomized controlled trials. Are
7 there any additional ones?

8 A Cost would also be a consideration as to whether or not
9 you considered that logistical or not. But randomized
10 controlled trials are generally more expensive and there might
11 not be sufficient economic resources in order to conduct a
12 randomized controlled trial.

13 Q Are there additional barriers to pediatric randomized
14 controlled trials?

15 A So randomized controlled trials are less frequent in
16 pediatrics for a variety of reasons including generally the
17 fewer number of individuals that are affected by a condition,
18 the smaller market for pharmaceutical products in pediatrics,
19 lower NIH funding, and barriers to recruitment of pediatric
20 children into research studies.

21 Q You said that randomized controlled trials are considered
22 high quality research. Does that mean -- or does that mean
23 that observational studies should not be relied upon to
24 evaluate medical treatments?

25 A No. Observational studies are frequently relied on in

1 terms of evaluating the efficacy or safety of a medical
2 treatment and at times they may be or in certain conditions
3 they may be the best or most appropriate type of evidence.

4 Q Are all medical treatments supported by research
5 utilizing randomized controlled trials?

6 A No, unfortunately.

7 Q Do doctors make treatment decisions that have not been
8 researched using randomized controlled trials?

9 A Yes. Frequently healthcare providers need to make
10 decisions in the care of patients and there are not randomized
11 controlled trials available to support those decisions.

12 Q Is that frequent in pediatrics?

13 A Particularly in pediatrics.

14 Q Can you provide an example of a treatment in pediatrics
15 that has not been researched using randomized controlled
16 trials?

17 A So, as I said, I'm a pediatric hospitalist, I take care
18 of children admitted to the hospital with asthma. Very
19 frequently we treat them with Albuterol as a quick-acting
20 medicine to try to relax the muscles around their airway and
21 steroids to decrease the inflammation and try to improve their
22 condition so they can be discharged. There's ongoing
23 discussion about what type of steroids to administer to
24 hospitalized children, whether giving a longer course of a
25 twice-a-day medication is better or worse than a shorter course

1 of a different steroid medication, and having to make that
2 decision is something that we as providers, I as a provider or
3 our institution as an institution has had to make a decision
4 about without randomized controlled trials for inpatients.

5 Q Does the absence of a certain type of study researching a
6 treatment mean that there's not sufficient evidence to support
7 the treatment?

8 A No, there certainly could be sufficient evidence for a
9 treatment absent a particular type of study such as a
10 randomized controlled trial.

11 Q What would happen if in the medical field treatment was
12 limited to only those treatments that have been studied by
13 randomized controlled trials?

14 A Much of what I do as a provider or much of what doctors
15 do on a regular basis we would not be able to do.

16 Q Would limiting treatments to only those that have been
17 studied by randomized controlled trials have an impact on
18 patient welfare?

19 A It would likely have a substantial negative effect on
20 patient welfare.

21 Q We've been talking about medical research. How do
22 doctors use that research to inform their clinical practice?

23 A So in general, healthcare providers should practice what
24 is called the evidence-based care, so in making treatment
25 decisions, they should use the best available evidence to

1 inform that care.

2 Q What are clinical practice guidelines?

3 A So clinical practice guidelines are summaries of the
4 evidence and recommendations for treatment developed frequently
5 by professional organizations to guide clinicians. It's not
6 feasible for me as a individual provider to research the
7 evidence base for every single treatment I use. So having
8 clinical practice guidelines is incredibly valuable in my
9 practice or any healthcare provider's practice in terms of
10 having summaries of evidence and recommendations for treatment.

11 Q Could you provide some examples of medical professional
12 associations that publish clinical practice guidelines?

13 A So in my field, the American Academy of Pediatrics
14 publishes clinical practice guidelines in the area of treatment
15 for gender dysphoria. The Endocrine Society or WPATH, there
16 are a variety of different organizations that publish clinical
17 practice guidelines.

18 Q How are clinical practice guidelines developed?

19 A So there are processes for the development of clinical
20 practice guidelines in terms of selecting the body that will
21 develop the clinical practice guideline and managing potential
22 conflicts of interest that those individuals might have,
23 processes for searching the medical literature in order to
24 identify the evidence, and then processes for grading the
25 quality of that evidence and then making recommendations and

1 then disseminating the guidelines.

2 Q What is a systematic review of the literature?

3 A A systematic review of the literature would be one of the
4 initial steps in guideline development but also are done
5 independently of guideline development. So it's a process of
6 searching the literature, identifying relevant studies,
7 summarizing the results of that study, and at times, there are
8 statistical analysis of those pooled results that are performed
9 which are referred to as meta-analysis.

10 Q What is the difference between a systematic review of the
11 literature and a clinical practice guideline?

12 A A systematic review of the literature summarizes the
13 evidence base and grades the quality of the evidence, but
14 systematic reviews of the literature do not make treatment
15 recommendations.

16 Q Why is it useful for clinicians to have recommendations
17 in clinical practice guidelines?

18 A So knowing the level of evidence doesn't in and of itself
19 tell you what to do that you need to consider the potential
20 benefits and risks of the intervention in addition to the level
21 of evidence supporting the intervention. And so having
22 recommendations involves significant additional analysis and so
23 it's helpful to have those recommendations.

24 Q Are there specific methodologies used in developing
25 clinical practice guidelines?

1 A Yes, there are.

2 Q Can you give me an example?

3 A The most widely used methodology is the GRADE method.

4 Q What does GRADE stand for?

5 A GRADE stands for Grading of Recommendations, Assessment,
6 Development and Evaluations.

7 Q What is the GRADE methodology?

8 A So the GRADE methodology is a systematic process for
9 grading the quality of evidence and for the strength of a
10 recommendation.

11 Q Why is it important to know the strength of a
12 recommendation and the quality of the evidence?

13 A So knowing the quality of the evidence is important in
14 order to then make recommendations, and the strength of a
15 recommendation is based in part on the quality of the evidence
16 supporting the recommendation. But as a provider, knowing the
17 strength of the recommendation is important because it informs
18 the way that I would interact with a patient relative to the
19 recommendation. I might have a more extensive conversation
20 with a patient or a patient and their family about a weak
21 recommendation as opposed to a strong recommendation.

22 Q Is an entire clinical practice guideline given a single
23 grade?

24 A No. Individual -- the evidence supporting individual
25 recommendations are given grades and the strength of individual

1 recommendations is graded, not the entire clinical practice
2 guideline.

3 Q Do guidelines typically have multiple recommendations?

4 A Typically they do.

5 Q So you mentioned a grading system for the quality of the
6 evidence. What are the quality levels of evidence?

7 A So within the GRADE method, there are four levels: High,
8 moderate, low, and very low quality.

9 Q What factors is the quality of evidence grade based on?

10 A It's based on the study design, the quality of the study
11 as it was performed, consistency if there are multiple studies
12 on the particular topic, and then something called directness.

13 Q Can you tell me a little bit about what directness is?

14 A Directness looks at the relationship between the study
15 and the patient or population that's being treated and whether
16 there's, for example, the patient that you're considering would
17 have been eligible for the study or would have met exclusion
18 criteria and, therefore, whether you're in some regards
19 extrapolating the results of the study to a different patient
20 population.

21 Q You said that one of the factors is the study design.
22 How does the study design inform the quality of the evidence
23 grade?

24 A So in general, randomized trials are considered high
25 quality evidence and observational studies are considered low

1 quality evidence. Although there are ways in which those
2 initial gradings can be adjusted up or down based on other
3 factors.

4 Q So just to break this down in the GRADE system, what type
5 of study design would as a default be considered quality
6 evidence?

7 A A randomized trial.

8 Q What type of study design would as a default be
9 considered low quality evidence?

10 A An observational study.

11 Q What type of study design would as a default be
12 considered very low quality evidence?

13 A Other types of evidence such as case reports.

14 Q As you just explained, those are initial grades only
15 subject to adjustment based on application of the other
16 factors?

17 A Correct.

18 MR. LESTER: May I approach, Your Honor?

19 THE COURT: You can. While we've got a break in the
20 action, some of this stuff we went over with the last witness,
21 and to the extent we're being cumulative, I'd ask that you skip
22 past those parts unless it's going to be inconsistent with what
23 the previous witness testified to. So some of this grading
24 information we've already been through.

25 MS. NOWLIN-SOHL: Yes, Your Honor.

1 THE COURT: I am mindful that this record isn't just
2 for me so I understand all that, but to the extent we don't do
3 things twice would be helpful in me reviewing this record.

4 MS. NOWLIN-SOHL: Understood, Your Honor.

5 BY MS. NOWLIN-SOHL:

6 Q Dr. Antommara, do you recognize this document?

7 A I do. It's the initial publication describing the GRADE
8 methodology.

9 Q Where was this published?

10 A This was published in the *British Medical Journal*.

11 Q Looking at page 4 of this document, on the left-hand
12 column kind of in the center of the page, how does GRADE define
13 low quality evidence?

14 THE COURT: Before we get any further, let me
15 interrupt. I've got this marked as Exhibit 6, which is not
16 Exhibit 6.

17 MS. NOWLIN-SOHL: I am not seeking to have this
18 admitted as an exhibit. That is a leftover deposition stamp.
19 Apologies.

20 THE COURT: So I can just mark through Exhibit 6 as
21 to avoid confusion.

22 MS. NOWLIN-SOHL: Yes, Your Honor.

23 THE COURT: Got it. You can start over. I'm sorry.

24 BY MS. NOWLIN-SOHL:

25 Q Dr. Antommara, looking at this, how does GRADE define

1 low quality evidence?

2 A Further research is very likely to have an important
3 impact on our confidence in the estimate effect and is likely
4 to change the estimate.

5 Q What do you understand that to mean?

6 A So research potentially will estimate the effect of an
7 intervention, so if you're an adult and you're taking a statin,
8 you know how much it would decrease your lipid levels and the
9 estimate might range from by decreasing it from say two to four
10 times, and the confidence is reflected by how wide that range
11 is. And so low quality evidence that the magnitude of the
12 effect would change but also the confidence, the kind of width
13 of that range is likely to get smaller with additional studies.

14 Q What does this GRADE article say is the definition for
15 high quality evidence?

16 A That further research is very unlikely to change our
17 confidence in the estimate of effect.

18 Q What do you understand that to mean?

19 A That performing additional research is neither likely to
20 change what the estimate of the effect is, nor the confidence
21 that that is an accurate estimate of effect.

22 Q Does low quality evidence mean that there's a likelihood
23 that treatment will be determined to be not effective in the
24 future?

25 A No, it does not.

1 Q Can you tell me why?

2 A So having uncertainty about the effect is different than
3 having certainty of that something will be ineffective. So low
4 quality evidence is that we will have some uncertainty about
5 the effect as opposed to having certainty that if additional
6 research was done it would demonstrate that something would be
7 ineffective. The kind of colloquial way that's framed in
8 medicine, that absence of evidence is not evidence of absence.
9 There's just a difference between being uncertain about
10 something and being certain that something is going to be
11 different or is untrue.

12 Q Does low quality evidence mean that there's a likelihood
13 that treatment will be determined to not be safe in the future?

14 A No, it does not.

15 Q What quality levels of evidence may a recommendation be
16 made upon?

17 A Recommendations may be made on any of the levels of
18 quality of evidence.

19 Q You mentioned that the GRADE system also indicates the
20 strength of recommendations. How is the strength of
21 recommendation evaluated?

22 A The strength of a recommendation depends on a number of
23 factors including the quality of the evidence, but largely on
24 the balance between the benefits and the risks.

25 Q What are the levels of recommendation?

1 A In later work, the GRADE working group refers to strong
2 recommendations and weak recommendations, although they
3 understand that the term "weak" might have inappropriate
4 connotations and that other terms might be better.

5 Q So looking at page 6 of the document you have in front of
6 you and the left column near the top where it says do it or
7 don't do it, is that the level for a strong recommendation?

8 A Yes. So in this document, they don't use the language of
9 strong and weak, they suggest the language of do it or probably
10 do it as the distinction between the types of recommendations.

11 Q How do they define the do it or strong recommendation?

12 A As indicating the judgment that most well informed people
13 would make.

14 Q How do they define the less strong or the probably do it
15 recommendation?

16 A As indicating a judgment that the majority of well
17 informed people would make but a substantial minority would
18 not.

19 Q Are there other considerations in making a recommendation
20 besides quality of the evidence?

21 A So other factors would be the relative risks and
22 benefits, and secondary considerations would include things
23 like cost.

24 Q Is it common for clinical practice guidelines to make
25 recommendations based on evidence that is graded low or very

1 low quality?

2 A I guess it is, particularly in pediatrics.

3 Q Why are recommendations made based on low or very low
4 quality evidence?

5 A That may be the quality of evidence that's available to
6 the individuals who are writing the clinical practice
7 guidelines. As a clinician and a patient presents themselves
8 to me with a condition, I need to be able to treat them at that
9 particular point in time. I can't tell them to come back later
10 when there's more evidence available. So clinicians make
11 treatment decisions based on the best available evidence to
12 them at that particular time.

13 Q Is it common for pediatric clinical guidelines to make
14 recommendations based on evidence that is graded low or very
15 low quality?

16 A It is. If you look at the Endocrine Society's two other
17 clinical practice guidelines for pediatric conditions,
18 specifically obesity and congenital adrenal hypoplasia, the
19 majority of recommendations in each of those guidelines are
20 based on low or very low quality evidence or are ungraded good
21 practice statements.

22 Q Do any of the Endocrine Society guidelines focused on
23 pediatrics have high quality evidence?

24 A None of the three Endocrine Society guidelines that focus
25 on pediatric conditions have high quality evidence supporting

1 the recommendations.

2 Q Is not providing medical treatment an affirmative
3 decision?

4 A It is.

5 Q If a clinical practice guideline were to recommend not
6 providing medical treatment, would that recommendation need to
7 rely on evidence?

8 A It would. So within the GRADE system and making
9 recommendations, it can be a recommendation to do something or
10 not to do something, but a recommendation to either do or not
11 do something should be based on evidence.

12 Q Are there established ethical principles around medical
13 decision-making?

14 A There are.

15 Q Under principles of medical ethics, how does
16 decision-making around medical care for adults generally work?

17 A So one of the key focuses of ethical decision-making for
18 adults would center around respect for autonomy and would be
19 instantiated in the process of informed consent, so seeking the
20 agreement of the patient in the treatment that is recommended
21 to them.

22 Q Does the treatment decision ultimately lie with the
23 doctor or with the patient?

24 A If a patient has medical decision-making capacity, it
25 rests with the patient.

1 Q And under principles of medical ethics, how does
2 decision-making around medical care for minors generally work?

3 A Medical care for minors is more complex because minors in
4 general do not have legal authority to make decisions for
5 themselves or may not have medical decision-making capacity so
6 decisions are made on their behalf by their parents or legal
7 guardians and that children then participate in medical
8 decisions that affect them to the extent that is
9 developmentally appropriate.

10 Q With whom does the treatment decision ultimately lie for
11 minors?

12 A So it would generally lie with their parent or legal
13 guardian.

14 Q What should a healthcare provider disclose to a patient
15 and for minors their parent or guardian to enable them to make
16 an informed decision?

17 A In general, they would disclose the indication for the
18 intervention, its potential benefits, risks, and the
19 alternatives to the proposed intervention.

20 Q When the patient is an adolescent, does the patient have
21 a role in the informed consent process?

22 A Yes. In general, adolescents have increasing medical
23 decision-making capacity and the term would be that their
24 assent should be sought so their agreement with the proposed
25 course of treatment.

1 Q You used the term "assent". What does it mean to assent
2 to treatment?

3 A So to assent to treatment would be that you have some
4 degree of understanding of the risks, benefits, and
5 alternatives, that you can evaluate those risks and benefits,
6 that you understand what that means in your own life, and that
7 you can express a preference, albeit not as fully as an adult
8 is capable of understanding or appreciating or evaluating.

9 Q Does assent have any legal consequence? Let me rephrase
10 that differently. What's the difference between assent and
11 consent?

12 A So informed consent would be a legal -- in some ways is a
13 legal category and a requirement. Assent is in general a
14 ethical obligation on the part of the provider to involve the
15 patient in medical decision-making. There are some exceptions
16 such as in certain research domains in which assent is also a
17 formal requirement.

18 Q In general are adolescents able to understand the risks
19 and benefits of treatment?

20 A So as a general matter, adolescents meaning, say,
21 teenagers are generally able to understand the risks, benefits,
22 and alternatives to an intervention.

23 Q For adolescents who have the ability to assent to
24 treatment, must parents still provide informed consent?

25 A In general, yes.

1 Q Does having --

2 THE COURT: Are we talking generally now or the
3 treatment at issue?

4 MS. NOWLIN-SOHL: Generally.

5 THE COURT: Thank you.

6 BY MS. NOWLIN-SOHL:

7 Q Does having a mental health diagnosis impair medical
8 decision-making capacity?

9 A At times it might, but having a mental health diagnosis
10 does not intrinsically mean that an individual lacks medical
11 decision-making capacity.

12 Q Does the fact that a patient suffers from depression or
13 anxiety mean that they can't assent or consent to treatment?

14 A No, it does not.

15 Q So thank you for providing that background on medical
16 research and medical decision-making. So I'm going to switch
17 now to the specific treatments at issue in this case. Have you
18 read the Act at issue in this case?

19 A I have.

20 Q The Act refers to, quote, gender transition procedures,
21 end quote, but if I refer to the range of care falling within
22 that definition as gender-affirming medical care, will you know
23 what I mean?

24 A Yes, I will.

25 Q Do you know what the title of the Act at issue is?

1 A It is Save Adolescents From Experimentation.

2 Q Is gender-affirming medical care as it is being used by
3 doctors to treat gender dysphoria experimentation?

4 A No, it is not.

5 Q Are there any clinical practice guidelines regarding
6 gender-affirming medical care?

7 A Yes, there are. They include the Endocrine Society
8 clinical practice guideline as well as the World Professional
9 Association for Transgender Health's clinical practice
10 guideline Standards of Care.

11 Q What is the Endocrine Society?

12 A The Endocrine Society is a professional society of
13 endocrinologists and endocrinology researchers. I believe it
14 has over 15,000 members within the U.S. and internationally.

15 Q The Endocrine Society guideline that you mentioned for
16 gender dysphoria, does that make recommendations with regard to
17 gender-affirming medical care for adolescents?

18 A Yes, it does.

19 Q So now I'm going to show you a document.

20 MR. LESTER: May I approach, Your Honor?

21 THE COURT: Sure.

22 BY MS. NOWLIN-SOHL:

23 Q Dr. Antommara, do you recognize this document?

24 A Yes. It appears to be the first several pages of the
25 Endocrine Society's clinical practice guideline for the

1 treatment of gender dysphoric or gender incongruent persons.

2 Q Do you rely on this document in your professional
3 capacity?

4 A I do.

5 Q What methodology does the Endocrine Society guideline
6 use?

7 A They use the GRADE methodology in terms of grading the
8 quality of the evidence and the strength of the recommendations
9 that they make.

10 Q So I'm going to have you turn to the fourth page of this
11 packet which at the top says page 3872.

12 A All right.

13 Q Looking at the bottom right I think maybe the third
14 sentence from the bottom, what does the Endocrine Society
15 guideline say about strong recommendations?

16 A The task force which is the group that formulated the
17 clinical practice guideline has confidence that persons who
18 receive care according to the strong recommendation will derive
19 on average more benefit than harm.

20 Q Is that consistent with the GRADE article we looked at
21 earlier?

22 A Yes, it is.

23 Q Looking at that same section, what does the Endocrine
24 Society guidelines say about weak recommendations?

25 A That weak recommendations require more careful

1 consideration of a person's circumstances, values, and
2 preferences that determine the best course of action.

3 Q Is that consistent with the GRADE article we looked at
4 earlier?

5 A Yes, it is.

6 Q Does weak -- does a weak recommendation mean that
7 benefits do not outweigh the harms?

8 A No, it does not.

9 Q Is the Endocrine Society guideline supported by
10 scientific evidence?

11 A Yes, it is. The recommendations that are made in the
12 guidelines are supported by scientific evidence.

13 Q What kind of evidence?

14 A So in general, the recommendations related to the care of
15 adolescents are supported by low quality evidence.

16 Q As you discussed before, does low quality have a very
17 specific meaning under the GRADE system?

18 A It does.

19 Q Do the studies discussed in the Endocrine Society
20 guideline demonstrate the safety and efficacy of
21 gender-affirming medical care for adolescents?

22 A They do.

23 Q Would randomized controlled trials comparing the current
24 treatment recommendation which is gender-affirming medical care
25 and mental healthcare to mental healthcare alone be ethical?

1 A Not at this time.

2 Q Why not?

3 A So neither providers nor potential participants would
4 currently have clinical equipoise between treatment and not
5 receiving treatment, and because potential participants don't
6 have clinical equipoise and would be unlikely to enroll in such
7 a trial, such trials would not be feasible.

8 Q Was there a time where a randomized controlled trial
9 comparing gender-affirming medical care to not receiving
10 gender-affirming medical care would have had clinical
11 equipoise?

12 A In the late '90s, early 2000s there may have been
13 clinical equipoise at that particular point in time, but the
14 advent of the prospective observational studies as well as
15 additional clinical experience with treatment have resulted in
16 individuals no longer being in clinical equipoise.

17 Q Can you provide other examples of treatments where the
18 window of clinical equipoise closed before randomized
19 controlled trials were conducted?

20 A One of the areas in which I work at Cincinnati Children's
21 is that I oversee the -- that I chair the oversight committee
22 for our fetal care center, so fetal surgery is an active area
23 of development. There is a randomized controlled trial of
24 fetal surgery for spina bifida, so in fetuses or children who
25 have a hole at the base of their spine. And it was initially

1 surgery that opened the pregnant individual's abdomen and
2 uterus, removed the fetus, closed the hole, placed the fetus
3 back, closed the uterus and the abdominal wall, and then looked
4 at outcomes after the child was delivered and showed that it
5 was effective.

6 There have been movements since that time to do
7 fetoscopic surgery, so instead of taking the fetus out, to use
8 instruments that go through two or three small incisions to
9 make the repair while the fetus is still in the uterus. I
10 think that it will be unlikely that there's a randomized
11 controlled trial of open versus fetoscopic surgery because of
12 increasing experience with fetoscopic surgery that clinical
13 equipoise may not -- probably does not currently exist or will
14 not exist before such a randomized controlled trial could be
15 performed.

16 Q Are there other challenges that a randomized controlled
17 trial comparing gender-affirming medical care to not receiving
18 gender-affirming medical care would be likely to face?

19 A So in particular the issue of blinding or masking is a
20 significant issue in that, say, individuals who receive puberty
21 blockers or don't receive puberty blockers would know because
22 of whether or not they develop secondary sexual
23 characteristics. So it would not be possible to mask either
24 participants or investigators. And within the GRADE
25 methodology even if such a study were ethical, which it is not

1 currently, it would represent only low quality evidence because
2 of intrinsic issues regarding the low quality of the study.

3 Q So just to make sure I understood that correctly, a
4 randomized controlled trial on gender-affirming care would not
5 be considered high quality evidence because of the challenges
6 you identified?

7 A So let me be clear. A randomized controlled -- a
8 randomized placebo controlled study would not. There are types
9 of randomized controlled studies of gender-affirming healthcare
10 such as comparing different dosing regimes which would be
11 ethical and feasible, but in particular comparing
12 gender-affirming care to a placebo would be low quality
13 evidence because of the difficulty with masking or blinding.

14 Q Are you familiar with the WPATH Standards of Care?

15 A I am.

16 Q What are the WPATH Standards of Care?

17 A I would describe them as a clinical practice guideline
18 for the care of -- with the language of the current version
19 gender incongruent or gender diverse individuals.

20 Q Do the WPATH Standards of Care recommendations for
21 gender-affirming medical care for adolescents rely on
22 scientific studies?

23 A They do.

24 Q What kinds?

25 A The same types of studies that we discussed relative to

1 the Endocrine Society's guidelines, so they are largely
2 prospective observational studies as well as some
3 cross-sectional studies.

4 Q Are the WPATH Standards of Care 8 recommendations for
5 gender-affirming medical care for adolescents consistent with
6 the Endocrine Society guideline recommendations?

7 A Yes, they're largely consistent.

8 Q Are you aware of any randomized controlled trial studying
9 whether mental health services alone to treat gender dysphoria
10 are effective?

11 A I'm not aware of any randomized controlled trials for the
12 provision of mental health services alone.

13 Q What about observational studies?

14 A Not prospective observational studies. There are some
15 case reports or anecdotes referred to in the literature, but
16 not observational studies.

17 Q Defendants' experts rely on systematic reviews of the
18 literature for some of their positions. Do those systematic
19 reviews of the literature recommend banning gender-affirming
20 medical care?

21 A As I discussed previously, systematic reviews of the
22 literature do not make recommendations related to treatment.
23 So by definition they don't recommend banning gender-affirming
24 medical care.

25 Q So how does the evidence base supporting gender-affirming

1 medical care for adolescents compare to the evidence base for
2 other medical treatments for minors?

3 A It is generally comparable.

4 Q The defendants raise the issue of potential risks
5 associated with gender-affirming medical treatment. Are you
6 familiar with the risks?

7 A I am.

8 Q What are some of the more significant risks?

9 A So in terms of the use of puberty blockers, there are
10 concerns about a decreased rate of increase in bone density.
11 So not that people's bone density actually goes down, it just
12 doesn't increase as quickly as it would otherwise, and some
13 speculative risks of increased fractures as older adults. And
14 concerns that the use of puberty-blocking medications might
15 decrease the options for gender-affirming surgical care later
16 in an individual's life. In regard to gender-affirming hormone
17 therapy, it would depend on the type of hormone therapy that's
18 provided. The use of estrogens potentially increases the risk
19 of clotting or of strokes as well as the risk of increased
20 levels of triglycerides and the use of testosterone can cause
21 polycythemia or increased red blood cell count which would be
22 monitored and may cause hypertension as well as other kinds of
23 side effects like baldness.

24 Q How do the risks of gender-affirming medical care compare
25 to the risks associated with other medical treatments that

1 adolescents may undergo?

2 A I should say that gender-affirming hormone therapy also
3 has risks related to infertility, and I would say that the
4 kinds of risks that gender-affirming medical care pose are not
5 categorically different than the types of risks that other
6 types of pediatric healthcare pose. So in particular related
7 to fertility, there are treatments that are used to treat
8 rheumatologic conditions and kidney diseases in pediatrics that
9 likewise pose risks to fertility in adulthood.

10 Q Are there chest surgeries that adolescents may undergo
11 besides chest surgery for gender dysphoria?

12 A There are a variety of chest surgeries that adolescents
13 may undergo including gynecomastia surgery. So individuals
14 assigned male at birth may have proliferation of breast tissue
15 and they might undergo surgery to reduce that tissue.
16 Individuals may have deformities in their chest wall that their
17 chest either caves in or protrudes and they may have surgery to
18 correct that. And individuals assigned female at birth may
19 undergo breast reduction or augmentation procedures as
20 adolescents.

21 Q Are those chest surgeries predominantly about appearance
22 or physiologic function?

23 A Although in minority of cases they may be performed based
24 on physiological function, in general, they're performed in
25 order to change someone's appearance.

1 Q How do the surgical risks of breast augmentation for
2 cisgender girls and gynecomastia surgery compare to the
3 surgical risks of chest surgeries to treat gender dysphoria?

4 A So in general, the risks are comparable. So, for
5 example, in gynecomastia surgery, there are risks of bleeding,
6 infection, and poor appearance as a result either of asymmetry
7 or residual tissue left behind. The main difference in the
8 risk would be the frequency of impairment in breast or chest
9 feeding would be a similar type of risk, but the frequency
10 would be higher in chest surgery for gender dysphoria.

11 Q That difference in frequency is just to the risk of chest
12 feeding?

13 A It's predominantly related to that risk.

14 Q So the other risks that you identified, the frequency of
15 those risks is comparable?

16 A In generally comparable.

17 Q What is pectus excavatum?

18 A Pectus excavatum is when the chest wall colloquially is
19 caved in in an individual.

20 Q How do the surgical risks of pectus excavatum compare to
21 chest surgery for gender dysphoria?

22 A There are rare complications of pectus repair which are
23 more severe than the risks entailed in top surgery for
24 individuals with gender dysphoria. So one of the contemporary
25 ways of repairing pectus is to place a rod underneath the

1 sternum and there are unfortunately reports of individuals
2 whose hearts are perforated during rod placement and
3 individuals who have died as a result of surgery or who have
4 had severe anoxic brain injury that during the process of being
5 resuscitated from the injury that they received had a period of
6 time in which they got inadequate oxygen to their brains. So I
7 would say that although that risk is not very frequent, it is
8 certainly a much more severe risk.

9 Q Act 626 has a carve-out to allow treatments when used
10 with patients with disorders of sex development. I have a
11 couple of questions about that. Are there surgeries to change
12 the appearance of genitals on minors with disorders of sex
13 development?

14 A Yes. The most frequent surgery would be referred to as
15 feminizing genitoplasty, which would be the surgical procedure
16 to change the appearance of the external genitalia of
17 individuals who are assigned female at birth.

18 Q And is this a treatment that some doctors perform on
19 minors with disorders of sex development?

20 A Yes, it is.

21 Q And is it performed on infants?

22 A It is performed on infants and young children.

23 Q Is feminizing genitoplasty performed on infants and young
24 children without their informed assent?

25 A Yes, it's performed at ages in which the individual who's

1 undergoing surgery is incapable of providing assent.

2 Q What is the level of evidence supporting feminizing
3 genitoplasty as treatment?

4 A A systematic review that was published in 2018 which used
5 the GRADE methodology characterized the evidence base for
6 feminizing genitoplasty as very low quality.

7 Q Is there any evidence that feminizing genitoplasty can be
8 harmful to the patient?

9 A There are a substantial minority of individuals who
10 report harm as a result of feminizing genitoplasty including a
11 loss of sensation.

12 Q Is there disagreement within the medical profession on
13 whether feminizing genitoplasty should be done on individuals
14 who cannot participate in the decision-making?

15 A Yes, there's substantial ongoing discussion within the
16 medical profession, and some institutions have placed either
17 temporary or ongoing restrictions on performing feminizing
18 genitoplasty.

19 Q You've talked about the evidence supporting
20 gender-affirming medical care for adolescents. Is it unusual
21 for adolescent patients and their parents to make decisions to
22 undergo treatments supported by comparable levels of evidence?

23 A No, it is not.

24 Q Is it unusual for adolescent patients and their parents
25 to make decisions to undergo treatments with comparable risks?

1 A No, it is not.

2 Q With greater risks?

3 A At times, yes, greater risks.

4 Q For treatments where there is evidence of safety and
5 efficacy, how should the medical community respond to concerns
6 about limitations on the evidence?

7 A Concerns about the limitations on the available evidence
8 should be responded to by improving the evidence base over
9 time.

10 Q If the law prohibits adolescents from receiving
11 gender-affirming medical care, is it possible to conduct more
12 research on this treatment and gather more evidence in
13 Arkansas?

14 A My understanding of the Act that we're discussing is that
15 it would both prohibit clinical care as well as further
16 research.

17 Q So switching gears again, what does it mean to say a
18 medication is FDA approved?

19 A The FDA approves medications based on its evaluation of
20 their safety and efficacy.

21 Q What is meant by an indication --

22 THE COURT: I'm going to go ahead and stop you there
23 before the next question. We're going to break for lunch as
24 promised. I know it's a minute before when I said I was going
25 to break, but this seems as good a time as any to break. We're

1 going to break till 1:00. As I mentioned, I need those two
 2 seats and where Ms. Cooper is sitting. Either side, it doesn't
 3 matter. They're creatures of habit and there's six of them and
 4 I never know which side of the table, but I can direct them to
 5 an open spot. This particular case will be in recess till one.
 6 You can step down and go about your business.

7 (Recess at 11:45 AM.)

8 REPORTER'S CERTIFICATE

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

11
 12
 13 /s/ Karen Dellinger, RDR, CRR, CCR

Date: October 25, 2022

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 15 United States Court Reporter
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Direct - Antommaria

1 (Proceedings resumed at 1:03 p.m.)

2 MS. NOWLIN-SOHL: Shall we retrieve the witness?

3 THE COURT: Sure.

4 Welcome back.

5 THE WITNESS: Thank you, sir.

6 BY MS. NOWLIN-SOHL:

7 Q. Okay. Dr. Antommaria, before the break we started
8 talking about FDA approval for medications. Can you
9 remind me what does it mean to say a medication is FDA
10 approved?

11 A. The FDA approves medications that are proven to be
12 safe and effective.

13 Q. What is meant by an indication in the context of FDA
14 approval?

15 A. An indication is for a particular purpose in a
16 particular population, a group of patients and at a
17 particular dose.

18 Q. If a medication receives FDA approval for an
19 indication, is it only allowed to be used for that
20 indication?

21 A. No, it is not. Licensed prescribers are able to
22 prescribe medications for other uses in addition to the
23 indicated use.

24 Q. Are there limitations on prescribing an FDA approved
25 medication for indications other than the one it was

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1 approved for?

2 A. Not by the FDA. The primary restriction is on
3 pharmaceutical companies, that they're not permitted to
4 advertise medications for unapproved indication.

5 Q. Are prescribers generally free to prescribe a
6 medication for other indications?

7 A. Yes. It's at their individual discretion to use a
8 medication that's approved for one indication for other
9 indications.

10 Q. What does it mean to use an FDA-approved medication
11 off-label?

12 A. off-label is the colloquial term for using a
13 medication for an unapproved indication or an indication
14 other than the approved indication.

15 Q. So we've been talking about indication. Can you
16 explain what it could look like to use an FDA medication
17 off-label?

18 A. So, again, I'm a pediatrician. I routinely prescribe
19 medication off-label. So for example, if I have a patient
20 admitted to the hospital with a bone infection, I may use
21 an antibiotic like nacillin into treat their bone
22 infection. It is approved by the FDA for use in
23 individuals who are 18 years old and older, but not for
24 individuals who are under 18 years of age. So even though
25 I routinely prescribe it and my peers and colleagues

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1 routinely prescribe, it is an off-label use.

2 Q. And I think you said an off-label use would also be
3 using it in a different dosage than it was approved for?

4 A. Yes. That's correct.

5 Q. And off-label usage would also be using it for a
6 different treatment than it was approved for?

7 A. For a different clinical condition, yes, correct.

8 Q. Does using a medication off-label mean that there is
9 not evidence supporting its use?

10 A. No. It does not mean that. In fact, there are a
11 number of uses of medication that are off-label that are
12 well supported by evidence, including randomized
13 controlled drugs.

14 Q. Does using a medication off-label mean that the
15 treatment is experimental?

16 A. No, it does not intrinsically mean that.

17 Q. Is it unusual for a medication to be prescribed for
18 indications other than the one it was approved for?

19 A. It's common for medications to be used off-label.
20 So, again, as a pediatrician, there are studies that show
21 that, in 30 percent of pediatric encounters, a medication
22 is prescribed off-label using very narrow definitions of
23 off-label. And then in particular, clinical context that
24 number goes up significantly. So in a pediatric cardiac
25 critical care unit, the rate of off-label use might be 80

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1 percent of medications are being used off-label.

2 Q. Is off-label used more common in pediatrics?

3 A. Yes, it is.

4 Q. If there is evidence that an off-label use is safe
5 and effective, are there reasons a manufacturer might not
6 seek additional FDA approval for additional indications?

7 A. Yes. In particular, given the small market share
8 that the pediatric population may represent, may not be
9 cost effective for them to seek approval for additional
10 indications.

11 Q. You've talked about the Endocrine Society guideline
12 for treatment of gender dysphoric persons and WPATH
13 Standard of Care. Do those practice guidelines provide
14 that doctors inform families of the potential risks and
15 benefits of treatment?

16 A. Yes. They are explicit in their recommendations that
17 individuals should be informed of the potential benefits
18 and risks. So in particular, the potential impact on
19 fertility is identified and recommendations made that
20 individuals should be counseled regarding potential
21 methods of fertility preservation.

22 Q. You said earlier that in medicine the decision of
23 whether to undergo treatment ultimately rests with the
24 patient, and in the case of a minor, with their parent or
25 guardian.

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1 Are the Endocrine Society guidelines and the WPATH
2 Standards of Care consistent with that?

3 A. Yes, they are.

4 Q. Going back to the informed consent process you
5 discussed earlier for medical decision making for minors.
6 Is there anything about gender-affirming medical care that
7 makes the informed consent process inadequate to enable
8 minor patients and their parents or guardians to make
9 decisions about medical treatment?

10 A. No, there is not. The informed consent process is
11 the discussion of the potential indications for the
12 treatment, the risk, benefits, and alternatives, and that
13 can be done for the different modalities of
14 gender-affirming care in the same way it's done for other
15 types of medical treatment.

16 Q. Does Act 626 have implications for doctor's ability
17 to comply with their ethical obligations?

18 A. Yes, it does.

19 Q. Can you tell me more about that?

20 A. So health care providers have an obligation to
21 benefit their patients, and the Act puts health care
22 providers in the untenable position of not potentially
23 providing medically-indicated treatment to patients that
24 they believe would result in benefit to the patients, or
25 violating the Act and potentially losing their license and

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1 their ability to practice medicine and benefit other
2 patients.

3 Q. Some of the State's experts have asserted that some
4 doctors are providing gender-affirming medical care to
5 adolescents without appropriate psychological assessments
6 and without properly informing families of risks.

7 If an individual doctor provides treatment in an
8 inappropriate manner or without informed consent, how
9 might that be addressed?

10 A. There are multiple ways in which in the medical
11 profession that might be addressed. For example, as a
12 credentialed employee of Cincinnati Children's, if there
13 was a limitation in my practice, there is a professional
14 practice evaluation committee that could evaluate my
15 performance, recommend a remediation plan, and potentially
16 recommend that my privileges at the institution be
17 suspended or withdrawn. All states have state medical
18 boards that can evaluate accusations of unprofessional
19 conduct and, again, can take disciplinary action against
20 providers, including withdrawing their license. And there
21 are actions through malpractice, including actions for
22 inadequate informed consent. There are multiple
23 safeguards against unprofessional practice in this area.

24 Q. Those are all safeguards that are currently in place
25 to regulate medical providers to ensure appropriate care?

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1 A. Correct. They are.

2 Q. Are you aware of any empirical studies showing that
3 providers are providing gender-affirming medical care
4 without appropriate informed consent?

5 A. No, I'm not aware of any empirical research
6 demonstrating that there's consistent unprofessional
7 behavior.

8 Q. Some of the State's experts have attempted to
9 discredit WPATH by asserting that they are not a
10 scientific organization because their membership includes
11 members of the trans community who are not medical
12 professionals.

13 Is the inclusion of other stakeholder groups atypical
14 for research or the development of clinical practice
15 guidelines?

16 A. So full membership within WPATH is limited to
17 individuals who have professional roles relevant to the
18 welfare of trans individuals. So full membership is
19 restricted to individuals with appropriate professional
20 backgrounds. Relevant to the development of SOC 8, the
21 standard -- the eighth version of the Standards of Care
22 document, membership included full members as well as
23 other stakeholders. The other stakeholders were ten to 15
24 percent of the overall body. And the inclusion of
25 stakeholders is a important priority in health care. So

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1 the agreed-to methodology, which is a way of looking at
2 the quality of consensus guideline of clinical practice
3 guidelines, emphasizes stakeholder involvement. And there
4 are particular research methodologies that emphasize
5 patient involvement, including community-based
6 participatory research. And there are federally-funded
7 entities such as Patient Centered Clinical Outcomes
8 Institute which emphasize the importance of patients
9 participating in research. And so the involvement of other
10 stakeholders in the development of SOC 8 is consistent
11 with other areas of health care incorporating
12 stakeholders.

13 Q. So some of the State's experts, in support of their
14 position in favor of Act 626, point to systematic reviews
15 of the literature that describe the evidence base for
16 gender-affirming medical care is limited.

17 What's your response to that?

18 A. As we discussed this morning, there's significant
19 differences between systematic reviews of literature and
20 clinical practice guidelines. Systemic reviews of the
21 full literature cannot make treatment recommendation.

22 As a clinician, when a patient comes to me with a
23 concern, I need to address their concern based on the
24 current best available evidence. I can't tell a patient
25 to come back in five or ten years from now when more

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1 evidence is available. I need to use the current best
2 available evidence in making treatment recommendations for
3 them.

4 Q. Some of the State's experts reference a systemic
5 review of clinical practice guidelines by Dallon, et al,
6 in support of the claim that the Endocrine Society
7 guidelines and the WPATH Standards of Care are of low
8 quality.

9 What's your response to that?

10 A. So the Dallon study looked at chemical practice
11 guidelines using the agreed-to methodology. The authors
12 of the agreed-to methodology explicitly state that their
13 method cannot be used to make categorical claims about
14 whether a clinical practice guideline is of high or low
15 quality. So that type of characterization of say SOC 7 as
16 being low quality is an inappropriate use of the Dallon
17 study and is not based on the underlying methodology on
18 which it relies.

19 Q. Some of the State's expert cite treatment
20 recommendation from government health authorities in
21 Finland and Sweden in support of their position.

22 Are you familiar with those recommendation?

23 A. I am.

24 Q. What's your response?

25 A. Neither Finland nor Sweden ban gender-affirming

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1 health care, and the substantial changes that many of the
2 European countries are making are to make the provision of
3 gender-affirming health care more in alignment with the
4 type of care provided in the United States, including
5 provisions through multidisciplinary teams in regional
6 systems of care.

7 Q. Do Sweden or Finland's treatment recommendations
8 evaluate the strength of the underlying evidence?

9 A. So it's somewhat difficult to review the methodology
10 of the Sweden and Finnish documents in full because
11 they're not fully available in English translation, but to
12 the -- for example, to the extent that there is an English
13 language summary of the 2002 Swedish document, it does not
14 appear to be based on as robust a methodology as say, for
15 example, the Endocrine Society's clinical practice
16 guidelines. Although it does make recommendations, it
17 neither grades the quality of the evidence supporting the
18 recommendations nor the strength of the recommendation
19 that's being made.

20 Q. Are you familiar with a report from the United
21 Kingdom known as the Cass Interim Report?

22 A. I am.

23 Q. Can you briefly describe what that is?

24 A. So Dr. Cass was asked to review the provision of
25 gender-affirming health care within the United Kingdom.

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1 She has issued an interim report. I would summarize the
2 main recommendations of her interim report in two regards.
3 One is to develop a regional system of health care
4 delivery of gender-affirming care through
5 multidisciplinary teams. And the second recommendation is
6 to develop -- is to augment research that's being done in
7 the delivery of gender-affirming care. But none of her
8 recommendation are to ban gender-affirming care within the
9 United Kingdom.

10 Q. Some have characterized that report as shutting down
11 gender-affirming care for adolescents in the United
12 Kingdom. Is that correct?

13 A. I would says that that's a mischaracterization of the
14 report. The report actually expands the provision of
15 gender-affirming care within the United Kingdom through
16 the establishment of regional centers. Although the
17 current center that is delivering care is being closed,
18 that does not represent the shutting down of
19 gender-affirming health care within the United Kingdom.

20 Q. Just to be clear, did the Cass report advise
21 restricting adolescents access to gender-affirming medical
22 care?

23 A. No, it did not. It's expanding adolescents access to
24 gender-affirming health care.

25 Q. Some of the State's experts rely on other

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1 organization's views about gender-affirming medical care,
2 such as the Society for Evidence-Based Gender Medicine,
3 also known as its acronym as SEGM, rather than Endocrine
4 Society and WPATH.

5 What's your reaction to that?

6 A. As we've discussed this morning, the Endocrine
7 Society's recommendations are based on -- I'll go back a
8 step.

9 So the Endocrine Society and WPATH's membership in
10 their membership guidelines are very clear. So, for
11 example, if you go to WPATH's website, you can see all of
12 the members of the organization and their areas of
13 expertise, and that the Endocrine Society and WPATH use
14 robust methodologies to make their clinical practice
15 guidelines.

16 SEGM is not clear and transparent with regard to its
17 membership. Some of the members of its advisory board
18 have unclear expertise relative to gender-affirming care,
19 including an individual with a PhD in evolutionary biology
20 and another individual with a PhD in biophysics, whose
21 main area of research appears to be in countermeasures to
22 chemical weapons attacks. And the recommendations that
23 they make are not based on a robust methodology such as
24 the grade methodology.

25 Q. Dr. Antommaria, you've talked about how treatment

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1 recommendations are made in the field of medicine and the
2 types of evidence used to support and evaluate them. You
3 also talked about ethical principles of medical decision
4 making and how patients and families are free to make
5 health care decisions even in the face of risks.

6 To summarize, is there evidence supporting the safety
7 and efficacy of gender-affirming medical care?

8 A. Yes, there is.

9 Q. Is the amount of evidence supporting gender-affirming
10 medical care comparable to the amount of evidence
11 supporting the other types of pediatric treatments?

12 A. The quality of the evidence supporting
13 gender-affirming medical care is comparable to the quality
14 of the evidence supporting many other medical treatments
15 within pediatric health care.

16 Q. Is there anything about gender-affirming medical care
17 for adolescents that warrants singling it out and taking
18 away the care decision from families and doctors?

19 A. No, there is not. There's not categorically that is
20 categorically different about gender-affirming medical
21 care that distinguishes it from other forms of pediatric
22 health care.

23 MS. NOWLIN-SOHL: May I just have one moment,
24 Your Honor?

25 THE COURT: Sure.

Cross - Antommaria

1 BY MS. NOWLIN-SOHL:

2 Q. Just one quick clarifying question.

3 Earlier you mentioned -- we were talking about the
4 report -- the study from Sweden, and you mentioned that it
5 was a 2002 study. Is that accurate?

6 A. So the most recent Swedish report that I'm aware of
7 was published in 2002 by a federal -- one of its what I'm
8 assuming is the equivalent of a federal health care
9 organization on making recommendations regarding the
10 development of regional centers for the delivery of
11 gender-affirming health care. I don't have the specific
12 reference from -- in front of me. I would be happy to
13 provide that to the Court if that would be beneficial.

14 MS. NOWLIN-SOHL: No further questions. Thank
15 you.

16 CROSS-EXAMINATION

17 BY MR. JACOBS:

18 Q. Good afternoon, Dr. Antommaria. My name is Dylan
19 Jacobs. I'm one of the attorneys with the Attorney
20 General's office representing the defendants. I don't
21 believe we met prior to today.

22 Do you treat patients with gender dysphoria within
23 your own clinical practice? Let me clarify. Do you treat
24 patients for gender dysphoria in your own clinical
25 practice?

Cross - Antommaria

1 A. So I do treat patients with gender dysphoria in my
2 clinical practice as they present with other medical
3 conditions, but I do not treat them for gender dysphoria
4 per se.

5 Q. So you do not prescribe puberty suppression
6 medications or cross-sex hormones for minors in your own
7 clinical practice, correct?

8 A. So if a patient was admitted to the hospital who was
9 currently on medication, I would continue it during their
10 hospitalization, but I don't initiate their
11 gender-affirming hormone therapy or monitor the ongoing
12 provision of that therapy.

13 Q. So same question with regard to psychiatric therapy.
14 You yourself don't prescribe psychiatric therapy in the
15 course of treating patients for gender dysphoria, right?
16 This is not part of your clinical practice?

17 A. That is correct.

18 Q. So to the extent that you've been involved in
19 treatments for gender dysphoria, has that been only
20 ethical consultations?

21 A. So that has been in regard to the establishment of
22 our transgender clinic in our institution. Its ongoing
23 activities in the care of patients and then my involvement
24 within the care of individual patients has been in regard
25 to individual clinical ethics consultation.

Cross - Antommaria

1 Q. Outside of this clinical ethical consultations, just
2 to be clear -- strike that.

3 Those clinical ethical consultations, that is the
4 entire universe of your own clinical practice with regard
5 to treating for gender dysphoria, correct?

6 A. So as a pediatrician, I don't treat patients for
7 gender dysphoria, per se. And as a bioethicist, doing
8 clinical ethics consultation on gender dysphoria is one of
9 the areas in which I do clinical ethics consultation.

10 I don't -- I don't quite understand the question
11 relative to -- clinical practice relative to clinical
12 ethics consultation.

13 Q. I think you've answered my question, Doctor.

14 So you remember you testified quite a bit about the
15 grade methodology and its use for the Endocrine Society
16 guidelines.

17 Do you recall that?

18 A. Yes, I do.

19 Q. So I believe you -- so you distinguished between a
20 strong versus weak recommendations according to the grade
21 methodology setting that out. I believe you said that a
22 weak recommendation under the grade methodology indicates
23 there is a substantial minority of practitioners who had
24 not agreed with that recommendation. Or how did you
25 phrase that answer?

Cross - Antommaria

1 A. I apologize. I no longer have the document in front
2 of me. The difference between a strong and weak
3 recommendation is that the strong recommendation would be
4 that most individuals would be expected to agree with the
5 recommendation, and that a weak recommendation would be
6 that, while still the majority of individuals would be
7 expected to agree with that recommendation, a minority of
8 individuals may not.

9 Q. I think you used the language in your testimony
10 "substantial minority." Is that accurate?

11 A. So again, if -- I returned the document. I was
12 reading from the document. I don't have it in front of
13 me. And so that is -- that may be the language that I
14 used, but I hate to commit to a specific words if I'm
15 reading from a document without having the document in
16 front of me.

17 Q. You think it's fair to say that there is a medical
18 consensus over, say, a specific recommendation if a
19 substantial minority of practitioners disagree with it?

20 A. I'm sorry. I don't believe that is the way that the
21 grade methodology describes what a weak recommendation is.
22 In particular, it's not a reference to other medical
23 practitioners, but it's a reference to the individuals for
24 whom the recommendation is being made, specifically
25 patients. It's not a reflection of professional consensus

Cross - Antommaria

1 or lack of professional consensus.

2 Q. You talked about informed consent and the process for
3 that. And I think you testified that simply having
4 depression or anxiety doesn't mean that a person is
5 necessarily unable to give informed consent for a medical
6 procedure. Is that accurate?

7 A. Correct. There are empirical studies of individuals
8 with mental illnesses that evaluate their medical
9 decision-making capacity in that individuals who are
10 diagnosed with mental illness do not intrinsically or at a
11 higher rate lack medical decision-making capacity.

12 Q. But you would agree that having depression or having
13 anxiety can impair a person's ability to give informed
14 consent for medical procedures, right?

15 A. There may be -- there may be instances in which
16 someone's depression or anxiety symptoms influence their
17 medical decision-making capacity.

18 Q. Do you recall citing a study in your report in this
19 case, and one of the authors was Wang, that measured
20 between nine and 31 percent of patients with depression
21 being impaired in their ability to give informed consent
22 to medical procedures?

23 A. So I did cite evidence in my report. I don't
24 remember specifically off the top of my head right now
25 which studies I cited or the specific results of those

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1 studies. I apologize.

2 Q. Do you think 31 percent of patients as a general
3 matter being unable to give informed medical consent is a
4 substantial number?

5 A. Substantial. I apologize, but it's hard for me to
6 understand the significance of your question. If I'm
7 seeking informed consent from an individual, I would need
8 to perform an individual assessment of their capacity. So
9 that general statistic isn't particularly helpful in
10 making a judgment about an individual patient in front of
11 me from whom I would be seeking informed consent.

12 Q. I think you testified earlier that you rely on the
13 Endocrine Society guidelines in a professional capacity.
14 Is that correct?

15 A. Correct.

16 Q. And how do you do that in terms of your clinical
17 practice? Do you rely on the Endocrine Society guidelines
18 during ethics consults?

19 A. Yes. So the Endocrine Society makes a number of
20 recommendations, some of which have ethical implications.
21 So it's important for me to understand the guideline and
22 the justification for the recommendations that it's
23 making. In particular, it makes a number of
24 recommendations about the way in which individuals should
25 be involved at different phases of treatment which is

Cross - Antommaria

1 important for me to understand in the context of doing
2 clinical ethics consultation.

3 Q. So specifically, the Endocrine Society guidelines
4 regarding treatment of adolescents with gender dysphoria,
5 in your own clinical practice, you wouldn't have occasion
6 to rely on those, would you, since you don't treat
7 adolescents with gender dysphoria in your clinical
8 practice?

9 A. So I'm sorry. Are you now referring to my clinical
10 practice as a pediatric hospitalist or bioethicist?

11 Q. The former. So I'll restate the question.

12 In your clinical practice as a pediatrician, you
13 wouldn't have cause to rely on the Endocrine Society
14 guidelines because you don't treat patients for gender
15 dysphoria, correct?

16 A. So you're correct that I did previously state that I
17 do not treat patients for gender dysphoria, per se. I
18 think it's still nonetheless beneficial for me as a
19 pediatric hospitalist to be familiar with the treatment
20 recommendations for individuals with gender dysphoria as I
21 care for them with other medical conditions.

22 Q. Switching gears a little bit. You had a lot of
23 testimony on the potential risks of some of the treatments
24 that are at issue in this lawsuit. So I think you had
25 testimony about whether puberty suppression medications

Cross - Antommaria

1 and hormonal treatments are -- present categorically
2 different risk profiles to other endocrine treatments.

3 Do you recall that series of questions during your
4 direct testimony?

5 A. Yes. I've testified about the potential risks of
6 gender-affirming health care as well as their potential
7 benefits.

8 Q. You mentioned specifically as to fertility there are
9 rheumatological conditions and kidney conditions for which
10 endocrine treatment might have impacts on fertility.

11 Did I summary that correctly?

12 A. Yes.

13 Q. Now, are you aware -- well, take a step back.

14 Would you agree with me that gender dysphoria is a
15 psychological condition?

16 A. So the American Psychiatric Association currently
17 categorizes gender dysphoria as a mental health condition,
18 but the ICD-11 does not characterize it as a mental health
19 condition. I believe the terminology is a condition
20 related to sexual health.

21 Q. So I think we've had testimony and see if you agree
22 that it's -- when a practitioners is treating gender
23 dysphoria, that the goal for treatment is to alleviate
24 psychological distress that is caused by gender dysphoria.

25 Is that how you understand treatment for gender

Cross - Antommaria

1 dysphoria to work?

2 A. That is one of the possible constructions of the goal
3 for treatment. I don't believe that that is currently the
4 way that SOC 8 characterizes the goal of treatment.

5 Q. Is there another goal of treatment besides
6 alleviating psychological distress that you're aware of?

7 A. The positive construction would be promoting an
8 individual's comfort in terms of the relationship between
9 their gender identity and their physical body.

10 Q. So under your understanding of the Endocrine Society
11 Guidelines and the WPATH Standards of Care as they apply
12 to treatment for adolescents, so is it -- is it your
13 understanding that psychological distress caused by gender
14 incongruence is a necessary requirement for a diagnosis of
15 gender dysphoria?

16 A. So under the DSM, a clinically significant level of
17 dysphoria is a necessary component of a diagnosis of
18 gender dysphoria.

19 Q. Would you agree with me that, when a provider is
20 attempting to alleviate a patient's distress associated
21 with gender dysphoria, that they're treating a
22 psychological issue?

23 A. Can you help me understand what you mean by
24 "psychological issue"?

25 Q. What do you -- what would you say?

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1 A. So one's gender identity is based on one's internal
2 sense of one's gender. And so, yes, it's addressing their
3 psychological states.

4 Q. So going back to endocrine treatments, you mentioned
5 rheumatological conditions and kidney conditions,
6 treatments for which can impact fertility in children.

7 Was that your testimony?

8 A. It was.

9 Q. Are you aware of any Endocrine Society Guidelines on
10 treatments for psychological conditions where an impact on
11 fertility is a risk?

12 A. So the Endocrine Society has a number of clinical
13 practice guidelines, only two of which are applicable to
14 the pediatric population in which I'm familiar. So I
15 don't know that I can generally answer your question about
16 the comprehensive scope of the Endocrine Society's
17 guidelines.

18 Q. Limit the Endocrine Society Guidelines that apply to
19 treatments of adolescents. Other than treatments for
20 gender dysphoria, are you aware of any Endocrine Society
21 Guidelines regarding treatment recommendations for
22 psychological conditions that pose a risk to fertility?

23 A. So the two other Endocrine Society Guidelines of
24 which I'm familiar that apply to pediatric patients are
25 their guidelines related to obesity and their guideline

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1 related to the treatment of congenital adrenal
2 hyperplasia. And I'm not aware of that either any of the
3 treatment recommendations in either of those guidelines
4 have negative impacts on fertility.

5 Q. So you also talked about surgical procedures. So one
6 of them I think was pectus excavatum.

7 Did I pronounce that right?

8 A. Yes.

9 Q. So that is the treatment of the condition where the
10 chest wall is caved in, for a colloquial description?

11 A. Yes. That the sternum or the central part of the
12 chest is lower than the rest of the chest.

13 Q. Are you aware of any reports of patients having the
14 surgery complication-free and later regretting having the
15 procedure?

16 A. So it's hard for me to answer that question because I
17 haven't reviewed the literature for that particular
18 outcome.

19 Q. So the answer is, sitting here today you're not aware
20 of what I asked?

21 A. So sitting here today, I'm not aware of any reports
22 of regret, which is not to say that they don't exist in
23 the literature.

24 Q. So same question with gynecomastia. Assuming surgery
25 is complication free, are you aware of reports of boys

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1 later who regret that they had gynecomastia surgery?

2 A. So, again, I didn't review literature for that
3 particular outcome, so it's hard for me to answer your
4 question. But as I sit here today, no, I'm not aware of
5 individuals who had uncomplicated surgery who regret
6 undergoing that surgery.

7 Q. Moving on to the discussion of FDA approval. As you
8 understand the FDA approval process, it attempts to ensure
9 the safety and efficacy of a drug. Is that an accurate
10 description of what that process is for?

11 A. So the FDA approves both drugs and devices, but
12 relative to both drugs and devices, it's making a
13 determination of the safety and efficacy. I think it's
14 important to say that safety doesn't mean that there are
15 not adverse effects of either a drug or device, but that
16 the benefits of the drugs or device outweigh the potential
17 risks.

18 Q. Would you describe the FDA approval process for drugs
19 as rigorous?

20 A. So the FDA approval process for drugs generally
21 requires two randomized control trials.

22 Q. You've testified that the medications used and the
23 treatments at issue in this lawsuit are all prescribed
24 off-label when they're being prescribed for gender
25 dysphoria, right?

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1 A. Correct.

2 Q. And they're able to be prescribed off-label because
3 the medications have been FDA approved for other
4 indications in the past, right?

5 A. That is correct, but, for example, the approval of
6 GnRH analogs for the use of central precocious puberty
7 isn't based on two randomized controls trials because
8 there are not randomized control trials of that condition.

9 Q. So this may be, I don't know, a wild assumption, but
10 try and assume with me that all the medications at issue
11 here, so are GnRH agonous, testosterone, estrogen,
12 progesterone, androgen blockers, assume for the purpose of
13 this question that they never been FDA approved. You
14 can't testify, can you, that based on the evidence you've
15 reviewed about the safety and efficacy of these drugs that
16 you know they would get FDA approval if they had to go
17 through that process for the indication of treatment for
18 gender dysphoria, can you?

19 A. Can you restate your question, please?

20 Q. So assume -- I'll get my assumption out -- that none
21 of the medications that were -- have been discussed during
22 the course of this trial had received FDA approval. And I
23 realize they have, but assume with me that they have not.
24 Can you do that?

25 A. I think that's a very different world than the world

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1 in which we're living so I think it's hard for me to make
2 that assumption given that estrogen and testosterone have
3 been utilized since the '50s.

4 Q. Sure. I recognize this may be a wild assumption, but
5 I'm asking you to make the assumption for this
6 hypothetical.

7 Can you agree to do that for me?

8 A. I can try.

9 Q. So you've testified that you are familiar with the
10 literature regarding the safety and efficacy of treatments
11 for gender dysphoria using these medications, right?

12 A. Correct.

13 Q. Can you testify that, based on your knowledge of the
14 available literature on the safety and efficacy of these
15 drugs, that, if companies were to seek FDA approval for
16 the indication of treating gender dysphoria, that they
17 would receive that FDA approval?

18 THE COURT: Mr. Jacobs, I don't understand the
19 whole context of the question. You're telling -- you're
20 asking him to assume that the FDA never approved
21 testosterone but would they approve it now if it was
22 submitted?

23 MR. JACOBS: Basically, Your Honor. The premise
24 of my question is, if testosterone had never been approved
25 for medical use and pharmaceutical companies were trying

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1 to get it approved today for treatment of gender
2 dysphoria, whether -- based on the evidence we have about
3 safety and efficacy, whether the FDA would approve it for
4 that indication.

5 THE COURT: How can he speculate as to that?

6 MR. JACOBS: I don't know. Maybe he can't, but
7 that was my question.

8 THE COURT: I guess I understand your question
9 now, but it seems to me you're asking me, would a drug be
10 approved that we know is approved as of now for general
11 use, would it be approved if asked to be approved -- go
12 ahead. If you can answer that question, sir, go ahead.

13 THE WITNESS: It's impossible for me to answer
14 your question because the evidence that we currently have
15 available is only available because the medication is able
16 to be used for off-label uses. In order to -- for an
17 unapproved drug, you have to go through a fundamentally
18 different process in order to submit a -- to be able to
19 get permission to use that medication in a clinical trial.

20 So the world that you're describing in your
21 hypothetical is a world in which the evidence that we
22 currently have doesn't exist, so it's hard to speculate
23 about what the outcome would be because the evidence we
24 have wouldn't exist if these medications weren't approved
25 for other indications. It's such a foreign world that

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1 it's not possible to speculate what the FDA would or would
2 not have done.

3 BY MR. JACOBS:

4 Q. You talked a little bit about informed consent, how
5 -- what the Endocrine Society Guidelines and the WPATH
6 Standards of Care have to say about informed consent for a
7 treatment for gender dysphoria.

8 Do you recall that testimony?

9 A. I do.

10 Q. Do you have any specific knowledge of what providers
11 in Arkansas who are treating adolescents with gender
12 dysphoria do in terms of getting informed consent from
13 their patients?

14 A. Can you state that question again, please?

15 Q. Do you know whether -- I'll back up and say this.

16 Do you know whether the providers in Arkansas who are
17 providing treatments for gender dysphoria are following
18 the Endocrine Society Guidelines or the WPATH Standards of
19 Care?

20 A. I have no firsthand knowledge about individual
21 providers within Arkansas, although the norms and
22 standards are not unique to Arkansas.

23 Q. So same question about informed consent in
24 particular. You don't have any firsthand knowledge of how
25 providers in Arkansas providing treatment for gender

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1 dysphoria go about getting informed consent from their
2 patients, right?

3 A. So the ethical standards for obtaining informed
4 consent are the same in Arkansas as they are throughout
5 the US, but, no, I've not observed individual providers in
6 Arkansas seeking to obtain informed consent from their
7 patients.

8 Q. I think you talked about a few other ways, I guess,
9 I'd summarize it as addressing provider misbehavior or
10 malpractice. I think one of those was medical review
11 boards. Do you recall what the other options you
12 mentioned in your direct testimony were?

13 A. So I would characterize it as unprofessional conduct
14 or malpractice, and there are mechanisms within health
15 care organizations to address unprofessional behavior, as
16 well as within state medical boards, and that malpractice
17 is handled within the legal system.

18 Q. So for medical board review, would you agree with me
19 that a medical board taking action against a provider
20 generally happens after the provider has taken an action
21 that may be unprofessional or unethical?

22 A. Yes. Reports to the medical board would be reports
23 of past behavior which was unprofessional.

24 Q. Same thing for a hospital's medical review board;
25 that the behavior would be reported after it happened and

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1 any interventions would occur after the behavior happened
2 necessarily, right?

3 A. So actions regard to an individual provider would be
4 after their behavior occurred. The potential threat of
5 action on behalf of the -- by the state medical board is
6 likely to influence prospective behavior and there are
7 other norms and expectations that influence prospective
8 behavior on the part of providers.

9 Q. And same question with regard to medical malpractice
10 lawsuit. In your experience can you sue a medical
11 provider for something they haven't done yet for
12 malpractice?

13 A. No. A lawsuit would be filed after an accusation,
14 but the threat of a malpractice lawsuit has ongoing affect
15 on provider behavior before they engage in behavior.

16 MR. JACOBS: If I can have a moment, Your Honor.
17 I think we're --

18 THE COURT: Sure.

19 BY MR. JACOBS:

20 Q. So I think you said in your testimony that the use of
21 a medication off-label is not -- does not necessarily make
22 that an experimental use of the medication, correct?

23 A. Correct. The implication that is drawn in many of
24 the criticisms of the gender-affirming health care is the
25 implication that, because the medications are being used

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1 off-label, that it is somehow inappropriate or
2 investigational.

3 Q. But in general an off-label use of a medication could
4 in the abstract be experimental, right?

5 A. So there are --

6 MS. NOWLIN-SOHL: Objection. Vague.

7 MR. JACOBS: If he thinks it's vague, he can
8 clarify.

9 THE COURT: I'm just reading my real-time.

10 MS. NOWLIN-SOHL: He asked in general and in the
11 abstract --

12 THE COURT: I'm reading it.

13 Give it a whirl.

14 THE WITNESS: So there certainly are clinical
15 trials of off-label uses of medications, but when a
16 clinical trial of the off-label use of a medication is
17 being performed, it's very well circumscribed as research
18 and would require institutional review prior to approval.

19 MR. JACOBS: I think that's all I've got, Your
20 Honor. Pass the witness.

21 MS. NOWLIN-SOHL: No redirect, Your Honor.

22 THE COURT: Go be free.

23 THE WITNESS: Thank you, sir.

24 MR. STRANGIO: Your Honor, our next witness is
25 parking his car, so we're trying to move this along. That

Cross - Antommaria

1 was our last expert, but we do have a fact witness coming
2 in. So if we could --

3 THE COURT: Who is your next witness?

4 MR. STRANGIO: Our next witness Donny Ray
5 Saxton.

6 THE COURT: Donny Ray?

7 MR. STRANGIO: Yes.

8 THE COURT: Okay.

9 MR. STRANGIO: We just --

10 THE COURT: We'll await his arrival.

11 MR. STRANGIO: Thank you very much.

12 (Pause in the proceedings.)

13 MS. ECHOLS: Your Honor, our witness is here.

14 THE COURT: Good afternoon.

15 THE WITNESS: Good afternoon.

16 THE COURT: What's your name?

17 THE WITNESS: Donny Ray Saxton.

18 THE COURT: Do you swear to tell the truth?

19 THE WITNESS: Yes, sir.

20 THE COURT: Have a seat.

21 MS. ECHOLS: Your Honor, the defendants have
22 agreed to stipulated Exhibit Number 6.

23 THE COURT: Defendants' 6?

24 MS. ECHOLS: Plaintiffs' 6.

25 THE COURT: All right.

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1 MS. ECHOLS: May I approach, Your Honor?

2 THE COURT: Sure. I think it's already in, but
3 go ahead.

4 DONNY RAY SAXTON, PLAINTIFF WITNESS, DULY SWORN

5 DIRECT EXAMINATION

6 BY MS. ECHOLS:

7 Q. Would you please state your full name for the court?

8 A. Yes, ma'am. My name is Donny Ray Saxton.

9 Q. Do you have children?

10 A. Yes, ma'am.

11 Q. How many children do you have?

12 A. There are five of them. There's four biologicals and
13 then baby sister that I've helped raise.

14 Q. Can you say your children's names and ages?

15 A. Yes, I've got Keely, 22. Parker is 17. Abigail is
16 16. Emma is 15. And little Lana Tackett is 14.

17 Q. Do you have sole custody of Parker and his younger
18 sisters?

19 A. I have custody of Parker, Abigail and Emma. Lana
20 lives with her biological aunt.

21 Q. How long have you had sole custody of the children?

22 A. Since my divorce, about ten years ago or so.

23 Q. As custodial parent, are you tasked with making
24 decision for the children?

25 A. Yes, ma'am.

Direct - Saxton

1 Q. What grade is Parker in?

2 A. He's a senior this year.

3 Q. Can you describe Parker?

4 A. Yeah. Now, he's a cool kid. He loves his choir, his
5 friends, his art, and he loves birthdays. Everybody's
6 birthday -- if you got a birthday, he's the man.

7 Q. Is Parker involved in activities?

8 A. Yes, he is. He's a -- he is member of a program
9 called EAST that does some volunteering around in our
10 community, he's active in choir, and also in a special
11 choir through his school.

12 Q. Does Parker have plans for after high school?

13 A. Yeah. I'm actual happy to say that he wants to be a
14 social worker.

15 Q. What was Parker's assigned sex at birth?

16 A. He was assigned female.

17 Q. Does Parker identify as female today?

18 A. No, ma'am.

19 Q. What is Parker's gender?

20 A. He's male.

21 Q. When did Parker tell you he was male?

22 A. He come out to me in the end of 2019.

23 Q. How did Parker tell you?

24 A. Through a letter, a pretty heartfelt letter
25 explaining his situation, his inner feelings, and it was

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1 -- it was -- it was a long letter, but it was a good read.
2 And that was when he explained to me that he didn't want
3 to be referred to in the feminine and to please
4 acknowledge that.

5 Q. What did you think when you read the letter?

6 A. At that point, a lot of things came clear. You know,
7 that explained a lot. So that gave us a stepping off
8 point so I was -- I was pretty relieved and hopeful.

9 Q. Were you surprised?

10 A. I wasn't really surprised, no, ma'am.

11 Q. Why not?

12 A. Well, he's already -- he'd already started dressing
13 more masculine, cut his hair off. I had been finding
14 multiple sports bras put together. I assumed was, you
15 know, to hide his curves. So it wasn't really surprising.

16 Q. You testified that Parker was involved in choir.
17 What does he wear for choir?

18 A. Oh, he wears tuxedo. Yeah, that's pretty cool.

19 Q. Can you explain how that came about?

20 A. Right. So in ninth grade, he decided he wanted to be
21 in choir. He had worked alongside some of the other
22 students in choir and he was in band at the time. Well,
23 he decided that he wanted to try out for choir. And as
24 they went along, he soon realized that he would be needing
25 to wear a dress to continue, and so we had to address

Direct - Saxton

1 that. That was a big deal.

2 Q. What was Parker's mood and behavior like at home
3 before he came out to you?

4 A. It was dark, anxiety, depression. He didn't -- I
5 mean, he didn't socialize. He wouldn't answer his phone
6 for his best friends, you know, a lot of times. It was
7 real troubling to watch.

8 Q. When did you start seeing this behavior?

9 A. Right around puberty. It was a -- it was a fairly
10 rapid decline if I'm being honest. It was alarming.

11 Q. How did Parker react to his changing body?

12 A. He tried to hide. As I said before, the multiple
13 sports bras, baggy clothing, everything was a hoodie.
14 Yeah. Short hair.

15 Q. How did he respond to his reflection?

16 A. He would -- he would oftentimes cover the -- cover
17 the mirror. At that time, the bathroom that he was using
18 to get out of the shower, there was a large mirror there
19 so he would stickpin a towel over where he didn't have to
20 see his reflection when he got out.

21 Q. Did he like using the restroom in public?

22 A. He hasn't used a public restroom since preschool.

23 Q. How did that impact Parker and your family?

24 A. We, obviously, had to make accommodations for that on
25 any trips. You know, anything over three or four hours

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1 was, we would have to spend the night. If it's somewhere
2 we'd been before that had, like, a family restroom or
3 something, it had to been an emergency, but pretty much we
4 had to spend the night or plan a day trip.

5 Q. What, if anything, did you do to address these
6 behaviors you were seeing in Parker before he came out?

7 A. Before he came out. Yes, we -- I had spoke to his
8 guidance counselor at school, and that's when we were
9 referred to Pinnacle and we started seeing a therapist
10 there.

11 Q. Did Parker also see a psychiatrist at Pinnacle
12 Pointe?

13 A. Yes. After about three or four months.

14 Q. What was the psychiatrist's name?

15 A. That was Dr. Conley.

16 Q. Did Dr. Conley prescribe any medications for Parker?

17 A. A little ways down the road, yes, Dr. Conley
18 prescribed Zoloft for anxiety, depression.

19 Q. After Parker came out to you, what did you do to
20 support him?

21 A. That's when we -- you know, of course, I let him know
22 that I was there for him and that, you know, I loved him
23 and he meant the world to me. And then I wanted -- you
24 know, we needed to figure out -- at that time, I didn't
25 have a clue what transgender meant outside of what we see

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1 in the news and everything. So I was -- I was pretty much
2 -- had to wake up to that, so.

3 Q. Did you go to counseling with Parker?

4 A. Yes. We -- that's when we started talking to the
5 counselor about that and made, you know, adjustments
6 because, like I said, we actually had somewhere to go
7 from, you know, as compared to before.

8 Q. Were you referred to the Gender Spectrum Clinic?

9 A. Not immediately, but, yes eventually.

10 Q. Who made that referral?

11 A. That would have been Dr. Conley.

12 Q. When was your first contact with the Gender Spectrum
13 Clinic?

14 A. That was in June of 2020.

15 Q. And who did you speak with initially?

16 A. That was when I we spoke with Kristin -- Kirsten.
17 I'm sorry.

18 Q. Did Kirsten do an assessment?

19 A. Kirsten talked to us about what they did down there
20 and actually set us up, you know, with an appointment and
21 said, you know, that might be somewhere that we could go,
22 because at that time we had no supportive reference. All
23 we had was what was inside of Parker.

24 Q. When was Parker's first visit to the clinic?

25 A. That was about a week later.

Direct - Saxton

1 Q. What happened at that visit?

2 A. That's where we met Dr. Hutchison and Sean, the nurse
3 at the time. Sweetest thing. We met the chaplain. We
4 met the entire staff. Of course, we met face to face with
5 Kirsten that day. It was -- it was -- they were very,
6 very open and hospitable to us and that meant a lot.

7 Q. Did Parker meet with Dr. Hutchison that day?

8 A. Yes, ma'am, he did.

9 Q. Did you discuss any specific treatments with Dr.
10 Hutchison that day?

11 A. We talked about -- we went further into what the
12 Gender Spectrum Clinic did and we talked about, you know,
13 some things that was going on. Parker described, you
14 know, that he had a lot of anxiety around his menstrual
15 cycle, around his period. So we addressed that.

16 Dr. Hutchison said that, you know, what she felt and
17 that -- of course, that maybe we should address the
18 menstrual thing first so we could advance with a clear
19 head, in other words.

20 Q. Did Dr. Hutchison explain what treatment that she
21 would recommend to stop the period?

22 A. Yes. At that point, she said that Depo-Provera had
23 been pretty successful and that a lot of times that was
24 the furthest that, you know, step that they had to take
25 there.

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1 Q. Did she explain the potential risks and benefits to
2 the use of Depo-Provera?

3 A. Yes, ma'am, she did.

4 Q. What, if any, concerns did you have about the
5 Depo-Provera?

6 A. I really didn't have any. My younger daughter had
7 been on Depo since 12 so it had worked for -- it served
8 its purpose.

9 Q. Did you consider the use of testosterone at that
10 time?

11 A. No. We talked about it, but at that point, like I
12 said, Dr. Hutchison said, you know, that the program was
13 -- wasn't about that kind of stuff, that it was more about
14 treating -- finding the -- finding the source and treating
15 from there, so.

16 Q. Were either you or Parker ready to take that step at
17 that time?

18 A. For me, that was -- that was no. No. I was still
19 new to understanding. I was researching for my child, so.

20 Q. Was Parker prescribed Depo-Provera during that visit?

21 A. Yes, he was.

22 Q. Did the Depo-Provera help Parker?

23 A. It really did help. It helped the -- there was some
24 really low lows among the depression. The depo kind of
25 leveled that off, but it was -- you know, it was -- it was

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1 what it was.

2 Q. Did the Depo-Provera fully address Parker's gender
3 dysphoria?

4 A. No. Unfortunately, no.

5 Q. How do you know?

6 A. We still -- we still had the depression, the social
7 anxiety, a lot of compulsive bathing and hand washing, the
8 reflection -- the aversion to his reflection. There was
9 several things.

10 Q. Has Parker visited the Gender Spectrum Clinic since
11 that first visit in 2020?

12 A. Yes.

13 Q. How frequently does he attend?

14 A. That's about every three months.

15 THE COURT: Mr. Saxton, I know you're
16 anticipating what her questions are, but my court reporter
17 is taking down everything y'all say. So if you can wait
18 for her to finish before you start to help her sort things
19 out.

20 THE WITNESS: Absolutely.

21 THE COURT: Thank you.

22 BY MS. ECHOLS:

23 Q. What happened at your regular visits?

24 A. That was when -- that was when we'd usually see
25 Dr. Hutchison. We kind of talk about how we were feeling,

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1 you know, and if everything was working. Of course, the
2 routine blood pressure, this and that. And we'd just talk
3 and have a great visit, and she'd always ask us if there's
4 anything we -- else that we needed, that she could do for
5 us.

6 Q. And did Parker receive his Depo-Provera shots at
7 those visit?

8 A. Yes, ma'am.

9 Q. Did there come a time when Parker expressed interest
10 in taking testosterone?

11 A. Yes, ma'am. He expressed interest probably three or
12 four months after the first visit. After Depo had really
13 started working and he was able to think more clearly, I
14 believe. He started researching testosterone and he had a
15 pretty comprehensive assessment of it that he brought to
16 me when he made his case.

17 Q. Did you agree that testosterone was appropriate for
18 Parker?

19 A. After all the counseling and talking to everyone, I
20 really wanted to give it a try. I really thought that
21 that was where we needed to be.

22 Q. What happened next?

23 A. That was when we actually talked to Dr. Hutchison on
24 the phone and that's -- it was kind of at the height of
25 COVID. A lot was going on with that. That's when she

Direct - Saxton

1 said we will talk about the next time that you come in.

2 Q. And when was the next scheduled appointment?

3 A. That was in April of 2021.

4 Q. Who were you scheduled to see in April of 2021?

5 A. We were going to go ahead and get a psychological
6 exam was what we were anticipating.

7 Q. And did you understand that was a step before Parker
8 could begin the testosterone treatments?

9 A. Yes.

10 Q. Did Parker see a psychologist at the Gender Clinic?

11 A. Yes, ma'am.

12 Q. Did the psychologist confirm Parker's diagnosis of
13 gender dysphoria?

14 A. Yes, ma'am, she did.

15 Q. What, if anything, else was required before Parker
16 could begin testosterone?

17 A. Sure. Of course, there was the pregnancy test that's
18 always, you know, no matter what. There was blood work,
19 of course, the psychological evaluation. And we had to
20 sit down and make sure that we talked it through so that
21 we knew everything that testosterone entailed.

22 Q. Would you talk that through with Dr. Hutchison?

23 A. Yes.

24 Q. Did you and Parker make the decision to begin
25 testosterone?

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1 A. We did.

2 Q. And when was that decision made?

3 A. That was May 27 of 2021.

4 Q. Was that at a regularly-scheduled appointment?

5 A. It was.

6 Q. Before moving forward with the testosterone, did you
7 become aware of House Bill 1570?

8 A. We did. That was while we were waiting on that
9 appointment to see the psychologist.

10 Q. What was your understanding of what the bill would
11 do?

12 A. My understanding was that it would shut down any of
13 that gender-affirming care that Parker had been receiving
14 or was anticipating.

15 Q. Was Parker aware of House Bill 1570 at that time?

16 A. Yes, he was.

17 Q. How did Parker respond to the legislation?

18 A. His words were -- I'm not sure if I'm supposed to say
19 what he says, but he --

20 THE COURT: I suspect we've heard it all before.

21 THE WITNESS: I appreciate that.

22 He said, I feel like we've done all of this for
23 nothing, and he went to a -- right back to the deep, dark
24 place he had been.

25 BY MS. ECHOLS:

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1 Q. What kind of behaviors were you seeing at that time?

2 A. It's really hard to say because he was so withdrawn
3 and isolated. He was broken.

4 Q. What, if anything, did you do?

5 A. I reassured him and told him that we would figure out
6 whatever we needed to figure out and that don't give up.
7 I started sleeping on the couch, you know, as close to him
8 as I could.

9 Q. Why did you think that was necessary?

10 A. Well, I just didn't know. I mean, he's a loving
11 soul, but you never know when it's someone that's that far
12 down. You just really don't. You worry a lot.

13 Q. Were you afraid he would hurt himself?

14 A. I was -- I was very fearful of that.

15 Q. Did you do anything else to help keep him safe?

16 A. Everything I could. I mean --

17 Q. Did you seek additional treatment for him?

18 A. We did. We went back to see Dr. Conley. That's when
19 he got on Prozac, you know, and that was to him he -- he
20 didn't want to do that, but that's what we did.

21 Q. Did you keep your May 2021 appointment at the Gender
22 Spectrum Clinic?

23 A. You bet we did.

24 Q. What, if anything, happened at that appointment?

25 A. That's when we actually started testosterone. We had

Direct - Saxton

1 official diagnosis, we went over everything, and we
2 started testosterone that day.

3 Q. Did Dr. Hutchison discuss the potential risks and
4 benefits of testosterone with you and with Parker?

5 A. Extensively, yes.

6 Q. Did Dr. Hutchison explain the potential risks to
7 Parker's fertility?

8 A. Yes, she did.

9 Q. Did Parker have any concerns about that?

10 A. Parker has always believed that there's lots of ways
11 to make a family, so he thought about that for almost a
12 year. So we're good.

13 Q. After receiving the information from Dr. Hutchison
14 did you and Parker still want to proceed?

15 A. Yes, we did.

16 Q. Can you describe how taking testosterone has affected
17 Parker?

18 A. He is a new person, a completely -- a complete
19 turnaround of the broken, depressed, anxious, shell that
20 he was before testosterone. It's amazing. Truly amazing.

21 Q. Does he have more confidence than he did before?

22 A. He's got huge confidence, almost too much at times,
23 but that's good. He's kind like his old dad, so it's
24 good.

25 Q. Can you give some examples of his increase in

Direct - Saxton

1 confidence while taking the treatments?

2 A. One big thing was -- that really stands out to me is
3 him volunteering and being selected to read some of the
4 names of the fallen first responders at the 911 memorial
5 this year. It was a pretty good crowd and he was really
6 confident and really his voice was strong. I mean, he's
7 my hero.

8 Q. Do you think he would have been able to do that
9 without the treatment?

10 A. He wouldn't have considered it.

11 Q. Who do you believe was in the best position to make
12 decision regarding Parker's treatment?

13 A. That would be myself, Parker, and the medical
14 community.

15 Q. Where do you live, Mr. Saxton?

16 A. I live in Vilonia, Arkansas.

17 Q. How long have you lived in Vilonia?

18 A. I've lived there 35 years. My kids have lived there
19 their entire life.

20 Q. How are you employed?

21 A. We own a small plumbing company.

22 Q. Who is "we"?

23 A. Ma'am?

24 Q. I said, who is "we"? Who owns the plumbing company?

25 A. That would be me and my parents.

Direct - Saxton

1 Q. How long have you and your parents operated the
2 plumbing business?

3 A. It was founded 31 years ago. We bought the first
4 permit Vilonia ever issued.

5 Q. Are you and your family involved in the community?

6 A. Holler if you need us.

7 Q. Do you have any family outside of Arkansas,
8 Mr. Saxton?

9 A. I have one daughter, Keely. She just got her
10 bachelor's at University of Oklahoma.

11 Q. Do your children attend school in the Vilonia
12 community?

13 A. Yes, ma'am, they do.

14 Q. Do they have friends there?

15 A. All of their friends are there.

16 Q. Are they involved in any school activities?

17 A. Choir for Parker. Band for Abigail. She is the
18 middle child. She has that middle child thing. Then Emma
19 is fast tracking to a degree in construction scientist --
20 science through a pathways program.

21 Q. Has your family discussed what you would do if Act
22 626 goes into effect?

23 A. Yes, ma'am. That was a hard talk.

24 Q. What would you do?

25 A. Unfortunately, we got together and we're a family.

Direct - Saxton

1 So without Parker, we're not a family. So we'd have to --
2 we'd have to pick up and find somewhere that we could have
3 our -- we could have Bro.

4 Q. Would your parents be able to operate the business if
5 you left the state?

6 A. Not at this point, no, ma'am.

7 Q. Could you financially support your family if you had
8 to move outside the state?

9 A. It would be a struggle.

10 Q. How do you feel about the prospect of leaving
11 Arkansas?

12 A. I don't want to leave Arkansas. This is home. This
13 is home and we're from a small town. They've transitioned
14 with us, you know. They accept us. They welcome us in.
15 We're not guaranteed that anywhere else. So I'm thankful
16 that we are where we are, but if we had to, we would find
17 -- we would find our place.

18 Q. What do you think would happen to Parker if
19 gender-affirming care was not available to him?

20 A. I'm not going to think about that. I just won't.

21 MS. ECHOLS: Pass the witness.

22 MR. JACOBS: Nothing from us, Your Honor.

23 THE COURT: You may step down.

24 THE WITNESS: Thank you, sir.

25 MS. ECHOLS: Your Honor, our next witness will

Direct - Jennen

1 be Aaron Jennen.

2 THE COURT: Swear to tell the truth, sir?

3 THE WITNESS: Yes, sir.

4 THE COURT: Have a seat.

5 AARON JENNEN, PLAINTIFF WITNESS, DULY SWORN

6 DIRECT EXAMINATION

7 BY MS. ECHOLS:

8 Q. Would you please state your full name for the Court?

9 A. Aaron Jennen, A-a-r-o-n J-e-n-n-e-n.

10 Q. Are you married?

11 A. I am.

12 Q. What is your spouse's name?

13 A. Lacey, L-a-c-e-y.

14 Q. How long have you and Lacey been married?

15 A. 22 years.

16 Q. Do you and Lacey have any children?

17 A. Yes. We have three children.

18 Q. What are your children's names and ages?

19 A. My oldest child is Parker. She's 17. My -- I'm
20 sorry. Sabrina, she's 17. My middle child is Parker,
21 she's 14. Sorry. And my youngest is London, she's 11.

22 Q. You mentioned you have a child Sabrina. What grade
23 is she in?

24 A. She's a senior.

25 Q. Can you describe Sabrina?

Direct - Jennen

1 A. Yeah, she's beautiful. I mean, I'm fairly confident
2 that she has the most envied hair in this courtroom, if
3 not the courthouse. She's incredibly smart, gifted. She
4 loves hanging out with her friends and the outdoors and
5 especially going hikes and picnics and -- yeah, she's
6 amazing.

7 Q. Is Sabrina involved in any activities?

8 A. Yes. She is -- of course, she goes to school. She
9 is a DM for a Dungeons and Dragons group amongst her
10 friend and, yeah, loves her community.

11 Q. Does Sabrina have plans to attend college?

12 A. Yes, she does.

13 Q. What does she plan to study?

14 A. Right now it's either nursing or art.

15 Q. What was Sabrina assigned sex at birth?

16 A. Male.

17 Q. Does Sabrina identify as male today?

18 A. No.

19 Q. What is Sabrina's gender?

20 A. Female.

21 Q. When did Sabrina tell you she was female?

22 A. It was the day after her birthday. A few weeks
23 before her birthday, she had told us that she had a
24 surprise for the family and not to look at our bank
25 account. And that's not in Lacey's nature to not look at

Direct - Jennen

1 a bank account when somebody tells her not to. So she did
2 and noticed a purchase from pridepalace.com, which we were
3 unfamiliar with at the time, but then realized that was a
4 company that sold pride flags online. And so when we saw
5 that and with her saying I have a surprise for the family,
6 you know, initially we thought, maybe she's going to come
7 out to us as gay. We really didn't know, but -- so we
8 just waited for her to tell us.

9 And then the day after her birthday, she just came to
10 us and said, mom, dad -- we're in the -- kind of the
11 living area of our house. And she came up to us and said,
12 mom, dad, I got something I need to tell you. I'm trans.

13 And I knew that was a big parenting moment. And I
14 didn't want to mess it up. And I just told her that I
15 love you, I support you no matter what, never do anything
16 or say anything to change that, and asked her, you know,
17 how she came to that.

18 First, she explained that she had this big production
19 planned that she had ordered this flag and that she was
20 wanting to do this big reveal, but the -- it was COVID and
21 so -- it was July of '20 and the shipping was delayed and
22 so she got tired of waiting on the delivery and couldn't
23 just wait anymore.

24 So then she explained that she'd always felt like
25 there was something different about her, that she never

Direct - Jennen

1 really knew what it was, but she had time to just reflect
2 and think about it. And she later told us about how she
3 was playing Animal Crossing at the time, which was kind of
4 popular if everybody remembers that, and she changed her
5 character from male to female and just said she felt
6 overwhelming sense of joy and started to realize her
7 identity.

8 Q. What was your reaction?

9 A. I didn't show it, but at first I was -- I was
10 surprised. Sabrina was not a -- never had expressed
11 interest in playing with dolls or wearing feminine clothes
12 or anything like that, but there were other things with
13 hindsight that I look back on now that -- that I thought
14 were quirks that I now recognize as probably signs of her
15 dysphoria. She had always insisted on wearing a shirt
16 when going swimming, which I know is common among kids who
17 have issues about their body, but she was very, very fit.
18 She was black belt in martial arts. She was very, very
19 fit. She had extreme anxiety about using the bathroom in
20 the public to the point where sometimes she would insist
21 on -- she would be in the middle of something and she
22 would insist on us going home so she could use the
23 bathroom, and we would accommodate. She hated having her
24 picture taken to the point where she would, you know,
25 visibly anxious about having her picture taken, things of

1 that nature at the time that we chalked up to quirks, but
2 with the benefit of hindsight realized what she was
3 experiencing.

4 Q. Did you have concerns when she told you?

5 A. Yes. Initially, my concerns were, does she know what
6 that really means. She was 15 at the time, just turned
7 15. Did she really know what that means. I wondered, is
8 this -- is this something she's trying on and feeling out
9 and trying to see if this is who she is. Is this a phase?

10 And then my overriding concern though was her safety
11 because I knew this society, especially in the state we
12 live in, that there's not a lot of understanding around
13 transgender identities and I was concerned about her
14 coming into contact with people outside her circle of
15 safety and what their reaction would be. And then
16 especially among her peers, you know, whether or not she
17 would be bullied or harassed or worse.

18 Q. How did you address your concerns?

19 A. Well, the first thing Lacey and I did after we spoke
20 with Sabrina is, she and I retreated to our bedroom and
21 talked about what she just told us. And I think like most
22 parents do these days, you Google it, right. So first
23 thing I did was Google, you know, what do you do when your
24 child comes out to you as trans. I think that's literally
25 what I typed in. And the -- everything we were reading

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1 basically said, one, is love and support your child and,
2 two, seek out mental health professionals.

3 Q. What steps did you take as a family to support her?

4 A. First thing we did was -- she had told us when she
5 came out to us, when she said, mom, dad, I'm trans and, by
6 the way, I would like for you to call me Sabrina and use
7 she/her pronouns. So first we adopted that in our
8 household.

9 We reached out to a mental health professional and
10 scheduled an appointment. She'd also, when she came out
11 to us, announced that -- we had just moved from Fort Smith
12 to Fayetteville, and she made -- she was adamant about
13 starting the new school year as Sabrina.

14 So in addition to making that appointment with the
15 mental health professional, we reached out to the school
16 counselor to find out what we needed to do to make that
17 happen.

18 Q. How did Sabrina express her gender identity after
19 coming out?

20 A. Initially, it was growing out her hair, using the
21 name Sabrina. I think she was still at the time
22 work-shopping a middle name, and she ultimately settled on
23 Faye. She also used -- changed her pronoun usage. And,
24 you know, we asked her, hey, do we need to buy -- go
25 shopping for different clothes? What do you want to do?

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1 And, no, she said that she thought at first she wanted to
2 dress more androgynous and that wanted to, you know, wait
3 to start dressing more feminine until her hair grew out
4 and she was more, as what she called it, passing.

5 One of the things we did do though is, Lacey took her
6 shoe shopping and she bought a pair of very I guess --
7 white feminine Doc Martens that she was extremely excited
8 about. Was good memory for them.

9 Q. Has Sabrina legally changed her name?

10 A. Yes.

11 Q. Who helped her do that?

12 A. I did that.

13 Q. Are you an attorney?

14 A. I am an attorney.

15 Q. Has Sabrina been diagnosed with gender dysphoria?

16 A. She has.

17 Q. When did that happen?

18 A. Shortly after her first appointment with her
19 therapist. We had an initial appointment. It was
20 virtually because of COVID in which there was a session --
21 a portion of the session was all of us meeting together
22 and then another part of the session was Sabrina meeting
23 with her therapist separately. After that session, she
24 was diagnosed with gender dysphoria as well as major
25 depressive disorder.

Direct - Jennen

1 Q. And you said her therapist. Who was her therapist?

2 A. Katie Campbell.

3 Q. And is Sabrina still seeing Ms. Campbell?

4 A. She is.

5 Q. How often does she see Ms. Campbell?

6 A. Currently, she's seeing her every other week,
7 although she had an extra appointment last week just
8 because she knew we would be here.

9 Q. Has Sabrina's gender dysphoria diagnosis -- excuse
10 me.

11 After Sabrina's gender dysphoria diagnosis in July of
12 2020, did you seek any medical consultation or treatment
13 for her?

14 A. Eventually. After about three months of meeting with
15 Ms. Campbell, she advised that she thought Sabrina might
16 benefit from hormone therapies and gave us the name and
17 the number of a doctor in Fayetteville that provided that
18 treatment.

19 Q. And what name did she give you?

20 A. Dr. Stephanie Ho.

21 Q. After you obtained that information, did Sabrina
22 immediately visit Dr. Ho?

23 A. No. If it had been up to Sabrina, she would have.
24 But, you know, for Lacey and I, it was one thing -- it was
25 -- this was still new. It was like when she first came

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1 out to us, you know, she was like, I'm Sabrina, I want to
2 be she/her pronouns, I'm going school as Sabrina. We had
3 to tell her, whoa, you know, you've been living with this
4 and sitting with this for a while. We've been living with
5 this like five minutes now. You got to give us a chance
6 and time and space to catch up to you.

7 So when October rolled around and after an
8 appointment, the recommendation for -- to consider hormone
9 therapies was made. Just like before -- like with her
10 wanting to go ahead and start her social transition, she
11 was ready to medically transition, but we told her, we've
12 got to, you know, do some more research. This is -- it's
13 one thing to socially transition, to change your name and
14 how you dress and those kinds of things. It was, for
15 Lacey and I, a medical transition was something a little
16 more serious that required a little more deliberation and
17 gave us a little more pause and hesitation.

18 Q. Did you ultimately schedule a visit for Sabrina with
19 Dr. Ho?

20 A. We did.

21 Q. When was that?

22 A. It was in December of that year.

23 Q. What happened during Sabrina's initial visit?

24 A. During the initial visits, Sabrina met with a member
25 of Dr. Ho's staff and outlined kind of what their practice

Direct - Jennen

1 and protocols were, answered some questions -- initial
2 questions, as well as provided us -- went over the risks
3 and benefits of the -- of the treatments, as well as
4 provided us literature in written form regarding those
5 risks and the benefits, as well as the protocols that they
6 use which I believe were from the University of San
7 Francisco.

8 Q. Did you and your wife review the materials together?

9 A. Yes. That night.

10 Q. What was your reaction to Sabrina undergoing hormone
11 treatment for her gender dysphoria?

12 A. It was -- initially it was, again, something that we
13 gave a lot of discussion about between she and I. Like we
14 did when she came out to us, something we Googled a lot
15 and read a lot about. It is something that we took a lot
16 of time, thought, and prayer in deliberating before making
17 that decision.

18 Q. Did Sabrina see Dr. Ho in January of 2021?

19 A. Yes. After the initial appointment and after
20 visiting as a family and discussing this over the
21 Christmas break when she was at home, we ultimately made
22 the decision to schedule a followup appointment to get a
23 few more questions answered and -- yeah. So that would
24 have been in January.

25 Q. Did you discuss any specific treatments at that

Direct - Jennen

1 appointment with Dr. Ho?

2 A. Yes. She explained that if -- if Sabrina started
3 therapy, that the therapy would be a regimen of
4 testosterone blocker as well as estrogen coupled with
5 routine monitoring of her blood levels.

6 Q. Did Dr. Ho explain how the hormone therapy worked?

7 A. Yes.

8 Q. Did Dr. Ho explain the potential benefits and
9 possible risks and side effects of treatment with you that
10 day?

11 A. Yes.

12 Q. Do you and your wife make medical decisions for your
13 three children?

14 A. We do.

15 Q. Did you and your wife make the parental decision in
16 consultation with Dr. Ho to provide hormone therapy?

17 A. Yes, we did.

18 Q. Did you consent to Sabrina receiving hormone therapy?

19 A. We did.

20 Q. As a parent, was this experience typical of your
21 experience as consenting to medical treatment for your
22 children?

23 A. Yes. We had children who had adenoids removed and
24 tubes put in their ears, and it was a similar process to
25 those medical procedures.

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1 Q. What was Sabrina prescribed that day?

2 A. A testosterone blocker that begins with an S, and I
3 can't remember off the top of my head now, but I think
4 it's been mentioned during the course of this trial, as
5 well as estrogen.

6 Q. As Sabrina visited Dr. Ho since January of 2021?

7 A. Yes. Routinely.

8 Q. How frequently does she return to see Dr. Ho?

9 A. It's approximately every three months to monitor her
10 dosages. Prior to those appointments, she has blood drawn
11 and lab tests run to monitor for the things that they
12 monitor for, make sure that everything is safe and
13 healthy. And once those results are in, she has a
14 followup visit during which they go over the results of
15 the testing as well as asked her about the primary goal of
16 how she's feeling regarding the stress of her dysphoria.

17 Q. How is Sabrina doing now?

18 A. She's doing great. She -- her dysphoria seems to be
19 almost entirely alleviated. She's very happy for the most
20 part. She still has some struggles related to her
21 diagnosed depression and school stress, but as it come to
22 her dysphoria, she loves having her picture taken. She
23 takes selfies all the time. She drawings self portraits
24 quite a bit. She doesn't mind having her picture taken.
25 Not only that, she smiles when she has her picture taken,

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1 which is nice. Yeah.

2 Q. What is most noticeable about the changes in Sabrina
3 since she started the hormone therapy?

4 A. When she came out to us -- when she first came out to
5 us and told us that she was trans, at that time she had
6 just a very visible appearance of joy on her face just
7 telling us that. A lot of her issues that she had prior
8 to coming out to us and as she socially transitioned began
9 to resolve. I would say, once she started hormone
10 therapy, the improvement, as I would say, was amplified to
11 the point that she is how she appears today.

12 Q. Would you describe her as confident?

13 A. Very. She's very confident, so much so that she put
14 her name in the hat for homecoming queen this year.

15 Q. Do you ever question your decision to consent to
16 hormone therapy for Sabrina?

17 A. At the time we made the decision, I felt that we were
18 -- I thought we were making the best decision that we
19 could based on the information we have. And I would say
20 today with hindsight, I now know that was the best
21 decision.

22 Q. How long has your family lived in Arkansas?

23 A. My wife and I have both lived here all our life as
24 well as our children.

25 Q. How long have you been in Fayetteville?

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1 A. Since April of 2020.

2 Q. What is your current job?

3 A. I'm currently an assistant United States attorney for
4 the US Attorney's Office in the Western District of
5 Arkansas.

6 Q. How long have you worked as an attorney for the
7 government?

8 A. For the federal government has been since 2014.
9 Prior to that, I was a deputy prosecuting attorney in
10 Sebastian County for almost a decade, and before that I
11 was a child support -- I was a staff attorney for the
12 Office of Child Support Enforcement.

13 Q. Are you and your family involved in any community
14 organizations?

15 A. Yes. My wife is the chairman of the Urban Forestry
16 Advisory Board for the City of Fayetteville. I'm a board
17 member of the Transgender Equality Network in northwest
18 Arkansas. And yeah.

19 Q. Other than your wife and three children, do you have
20 any family in Arkansas?

21 A. Yes. My mother and stepfather and their daughter, my
22 step-sister, all live in northwest Arkansas. My sister
23 and her husband and their children, my nieces and nephews,
24 live in northwest Arkansas. My brother and his partner
25 and their children live in northwest Arkansas. My

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1 brother-in-law and his wife and children live in northwest
2 Arkansas. My in-laws live in northwest Arkansas. Lacey's
3 -- my grandparents are deceased, but Lacey's grandmothers
4 both live here in Arkansas.

5 Q. So pretty much everyone?

6 A. Yes. Our entire -- I guess cousins, uncles, aunts,
7 everybody lives here.

8 Q. Do your children go to school in Fayetteville?

9 A. Yes. All three of them attend Fayetteville schools.

10 Q. Do they have friends there?

11 A. Yes.

12 Q. Are they involved in school activities?

13 A. Yes. Parker is a member of the freshman cheer team
14 at the high school as well as on the wrestling team.

15 London is on the yearbook club.

16 Q. Are you aware of Act 626?

17 A. I am.

18 Q. What is your understanding of what Act 626 would do
19 if it goes into effect?

20 A. It would ban medically-necessary lifesaving care for
21 transgender minors.

22 Q. Does that concern you?

23 A. Yes.

24 Q. Why?

25 A. There's the overriding concern which I think has been

Direct - Jennen

1 communicated during the other witness's testimony of the
2 harm it would cause to the transgender minor population as
3 a whole. But for our family specifically, I'm concerned
4 about the impact it would have on Sabrina.

5 Q. Could you explain that more?

6 A. Sure. First, I can tell you that with the success
7 that the treatment has had with Sabrina, that her not
8 receiving treatment is not an option; that the State is
9 essentially forcing us to make one of two very hard
10 decision: One being that we go travel outside the state
11 to someplace else that she can obtain this care at much
12 great expense of both money and time. Yes, while I'm an
13 attorney, I'm sure as the State's lawyers know, government
14 attorneys don't make tons of money. We're a single-income
15 family and that would be quite a burden. But we do have
16 the support of our family and community that would I think
17 fill the gaps if need be if that's the decision we make.
18 That leaves only one other option, that option being that
19 we move. And I have -- which would be difficult. Sorry.

20 Q. That's okay. Mr. Jennen, do you consider Sabrina not
21 receiving the treatment an option?

22 A. No.

23 Q. Why not?

24 A. I believe it would be an absolutely detriment to her
25 mental health, would be a detriment to the loving,

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1 amazing, beautiful, thriving child that she is growing
2 into. I worry about, you know, what impact that would
3 have on her mental health. I'm already concerned about
4 how that makes her feel about who she is, what her
5 identity is. I worry about the thought of having to leave
6 the support system that we've built around our family from
7 our family-family to, you know, some of the people in this
8 room that put their arms around us. I worry about what
9 she thinks that the state she's lived in her whole life
10 and I know that she loves, what that means the state
11 thinks about her and who she is and who she wants to be.

12 Q. What do you think would happen if Sabrina did not
13 have access to gender-affirming health care?

14 A. I promise you that will not happen. But,
15 hypothetically, if it did, I worry about her withdrawing
16 back into the person that she was before she started it, a
17 person that was unhappy, that said things to her mother
18 and I like, what's the point of life. Saying things like,
19 I don't see a future for myself, which is difficult
20 because how amazing she is.

21 MS. ECHOLS: Pass the witness.

22 MR. JACOBS: We don't have anything, Your Honor.

23 THE COURT: You can step down, sir.

24 How long do you anticipate your next witness is going
25 to last?

1 MS. WALAS: Your Honor, we're actually going to
2 take care of the deposition designations and call those
3 and introduce those real quick and then take care of
4 another housekeeping matter related to the legislative
5 history. So I'm assuming it will take 15 minutes or less.

6 THE COURT: I'm trying to coordinate changing of
7 the guard on the court reporters. So we'll continue and
8 then we may break in the middle of that so.

9 MS. WALAS: Plaintiff calls Representative Robin
10 Lundstrum via deposition testimony. Per the joint
11 pretrial order, the videotaped testimony doesn't need to
12 be presented to the Court. Plaintiff would move to admit
13 Plaintiffs' Exhibit 28 and the related Exhibits 29 through
14 34.

15 MS. LAND: Your Honor, we object to this
16 happening today. We haven't been notified that this was
17 the plan for Representative Lundstrum's deposition
18 transcript to be introduced today as an exhibit, and it
19 was our understanding, pursuant to the pretrial order that
20 the parties agreed to, that we would be notified of that
21 in advance.

22 THE COURT: How much advance notice do you need?

23 MS. LAND: We are not aware of --

24 THE COURT: I guess what I'm saying is, assuming
25 you're getting notice now, how long do you need before you

1 can respond?

2 MS. LAND: It's hard to say what we're
3 responding to. The parties agreed that we would both
4 notify each other of witnesses beforehand, as well as
5 exhibits beforehand. It's somewhat safe to say this is a
6 mixture of both. I'm not sure what the plaintiffs are
7 intending to do specifically with the deposition
8 designation, but --

9 THE COURT: Do you have the -- I stepped on you.
10 I didn't mean to.

11 Do you have the proposed designations of this
12 witness?

13 MS. LAND: We do. The parties -- both of them
14 have submitted --

15 THE COURT: So you knew what they were going to
16 present. What are you claiming you need in the way of
17 responding to what portions of those depositions are
18 either -- I'm not sure. It's not like you're having to
19 prepare for this witness. I'm assuming you cross-examined
20 her during her deposition or whatever, but it's not like
21 you're having to prepare a cross-examination or prepare
22 the night before for this particular witness. So I get
23 back to saying, now that you have notice, how long do you
24 think you need to respond to the fact that it's your turn
25 to make arguments about why these designations aren't

1 appropriate.

2 MS. LAND: It's really difficult to say, Your
3 Honor. I don't know what the plaintiffs are about to do
4 with this testimony. So to the extent I need to prepare
5 any oral arguments on why they should be excluded more
6 than just this notice would be --

7 THE COURT: I get that. I know not now, but I'm
8 trying to ask you.

9 MS. LAND: It would be helpful if plaintiffs
10 could indicate what their plan is this afternoon for
11 Representative Lundstrum.

12 MS. WALAS: Your Honor, as the depositions have
13 already been designated, exchanged with the other side,
14 and they have done their counter-designations, we're just
15 going through the formality of officially introducing
16 those designations and giving them to the Court. The
17 Court has already issued a ruling saying that was
18 defendants' objections to our designations will be
19 considered by the Court in reviewing those, and their
20 objections have also been designated by them and are noted
21 in this exhibit which they also have.

22 THE COURT: So correct me if I'm wrong, you're
23 just making an official offer and designation in the
24 record of things that have already been provide to the
25 Court that may already be of record.

1 MS. WALAS: The designation -- they did not
2 stipulate to the admissibility of the deposition
3 transcripts or the testimony. And so we are just seeking
4 to admit that testimony by deposition pursuant to Rule 32,
5 I want to say. I might be wrong on that. But -- and just
6 introduce that in and present them to the Court because
7 they're not stipulated exhibits. And per your order, they
8 need to be exhibits and then we had agreed to present them
9 this way. The only reason that they didn't notice that we
10 were going to do this today is that things moved faster
11 and we're trying to not waste the Court's time, Your
12 Honor, and we're trying to take care of some housekeeping
13 matters with some witnesses.

14 MS. LAND: Your Honor, I don't have
15 Representative Lundstrum's deposition with me here today.
16 I could have --

17 THE COURT: She's not going to read it into the
18 record. She's telling me that she's just officially
19 offering that so, when I go back on my time as opposed to
20 court time, I review that deposition and I determine
21 what's relevant and admissible and do so with your
22 counter-designations as well. I mean, are you going to
23 claim that those weren't her statements or that it's not
24 an authentic deposition or certified deposition or --

25 MS. LAND: No, Your Honor. We are stipulating

1 to the authenticity of these documents. It's plaintiffs'
2 counsel saying that you're just going to be reading the
3 line designation into the -- I don't understand.

4 THE COURT: No, ma'am. What I understand is,
5 she's -- I don't know. This is what I understand, is
6 that, rather than read these depositions aloud in court, I
7 don't need to have y'all read to me. I can read them back
8 in my office. I was going to make determinations as I
9 read through them what I considered admissible and perhaps
10 probative. And if I didn't use it in my order, then it's
11 clear that I didn't find it probative or didn't find it
12 worth mentioning. But I did not understand that any of
13 her deposition was going to be read at this time. Is
14 that --

15 MS. WALAS: No, Your Honor. We're just seeking
16 to admit Plaintiffs' Exhibit 28 which is the designated
17 deposition designations and the related exhibits to those
18 designations which are Plaintiffs' Exhibit 29 through
19 Plaintiffs' Exhibit 34.

20 THE COURT: I see that as a formality, but --

21 MS. LAND: Defendants will note for the record
22 their objection to the deposition.

23 THE COURT: Are those made in your
24 counter-designations or are you just saying you just
25 object to her testimony together?

1 MS. LAND: We did submit objections to the
2 designations that plaintiffs made in this case previously
3 via motion, I believe.

4 THE COURT: Those are going to be considered on
5 the fly as I went through.

6 MS. LAND: Yes, Your Honor.

7 THE COURT: Is there anything left for you to do
8 in response to some notice that this was going to be
9 happening?

10 MS. LAND: I'll make an objection if I feel the
11 need to. I would ask that I be permitted to do that as we
12 go along.

13 THE COURT: You're not going to be back there
14 with me. What I'm trying to say is, she's not reading
15 anything into the record with regard to Representative
16 Lundstrum and I'm going to be back there addressing your
17 objections as I read the deposition and making notes along
18 the way whether or not I overrule or sustain those
19 objections. What I'm saying is, what else do you need to
20 present to me before I get to that? You've made your
21 objections on the record to each line and paragraph or
22 page and line of her deposition, correct?

23 MS. LAND: Correct.

24 THE COURT: So is there anything else for me to
25 hear from you on those designations?

1 MS. LAND: I'm not aware of any at this time
2 based on what's been elicited just now.

3 THE COURT: I'm not sure she's offering anything
4 other than that. I think -- not sure why, but she's just
5 doing it formally in open court so it's a part of the
6 record.

7 MS. LAND: I just wanted it noted that we
8 weren't aware this was happening today, even though we
9 agreed that we would notify each other of exhibits -- of
10 when they would be introduced.

11 THE COURT: I thought I told you all of that the
12 morning of we started on Monday that I was going to be
13 handling it and actually before then. And she's not doing
14 anything but offering the deposition. And I'm assuming
15 all of the depositions designations that I have back there
16 have already been offered for the record. I don't know
17 that she's doing anything that hadn't already been done,
18 unless she can tell me otherwise.

19 MS. WALAS: No, Your Honor. The only thing is
20 we narrowed Representative Lundstrum's designations from
21 what we had previously designated.

22 THE COURT: Okay. So nothing new?

23 MS. WALAS: Nothing new, Your Honor.

24 THE COURT: All right. What else?

25 MS. WALAS: So we would move to admit

1 Plaintiffs' Exhibit 28 and the related exhibits,
2 Plaintiffs' 29 through 34 related to Representative
3 Lundstrum's deposition designations.

4 THE COURT: Are those attached?

5 MS. WALAS: They're each a separate exhibit. So
6 it will Exhibit 28, 29, 30, 31, 32, 33, and 34.

7 THE COURT: But are those attached to the
8 deposition designations?

9 MS. WALAS: Yes, Your Honor. They're mentioned
10 in those designations and they're --

11 THE COURT: Mentioned or attached?

12 MS. WALAS: I'm not sure if I know the
13 difference between attached. They were attached as part
14 of the deposition and then we labeled, say, that
15 Deposition Exhibit 7 as Plaintiffs' Exhibit 29. But they
16 were part of the deposition. So they'll be -- I guess I'm
17 not understanding your question.

18 THE COURT: If I sit down with a deposition, are
19 the exhibits are going attached to the deposition or in a
20 separate binder where I go look for them?

21 MS. WALAS: It's going to be one binder, Your
22 Honor, where the deposition is first, the related exhibits
23 are immediately after it, just like a normal deposition
24 thing you get from the court reporter.

25 THE COURT: Counsel, that's attached to me. So

1 thank you.

2 MS. WALAS: Thank you, Your Honor. Are those
3 admitted?

4 THE COURT: I haven't looked at them right now
5 so the notion that I can rule on those objections to those
6 exhibits right now, I don't even have them up here. So
7 I'll take that under advisement.

8 MS. WALAS: Thank you, Your Honor.

9 Next plaintiff would {Amy Embry via deposition
10 testimony. Per the joint pretrial order, the videotape
11 deposition doesn't need to be presented. Plaintiffs would
12 then move to admit Plaintiffs' Exhibit 9, which is the
13 deposition of Ms. Amy Embry and the related exhibits
14 Plaintiffs' Exhibit 10, 11, 12, 13, 14, 15, 16, and 17.

15 THE COURT: Let me back you up a minute on the
16 last witness. Are all of your objections to any exhibits
17 to that deposition of record or written down anywhere for
18 me?

19 MS. LAND: Yes, Your Honor.

20 THE COURT: Okay. How about this witness?

21 MS. LAND: Yes, Your Honor.

22 THE COURT: Okay. Same ruling. Don't have it.
23 Not ready for it. Next.

24 MS. WALAS: Third, plaintiff calls Dr. {Rhys
25 Branon via deposition testimony. Per the joint pretrial

1 order, the videotape deposition testimony doesn't have to
2 be presented to the Court. Plaintiff would move --

3 THE COURT: Ms. Walas, slow down a little bit.
4 Keep going.

5 MS. WALAS: Plaintiff moves to admit Plaintiffs'
6 Exhibit 18 which is Dr. Branon's deposition designations
7 and the related exhibits, Plaintiffs' Exhibit 19 and 20.

8 If I may approach, Your Honor, I have all of those in
9 a binder for you.

10 THE COURT: You can put them on that table.
11 I'll get them later. I'm running out of room.

12 MS. LAND: Your Honor, I would like to note the
13 same thing I noticed previously for Representative
14 Lundstrum's deposition transcript. We weren't aware that
15 Branon and Embry would be brought up today as well, but as
16 I noted, those objections have been made on the record as
17 to the deposition transcripts respectively.

18 THE COURT: Okay.

19 MS. WALAS: Hold on one second, Your Honor.

20 THE COURT: Sure.

21 MS. WALAS: Your Honor, I thought I had one more
22 matter, but we're going to take care of that tomorrow.

23 THE COURT: Can you let opposing counsel know
24 what that other matter is so we don't have any notice
25 issues?

1 MS. WALAS: We're going to deal with introducing
2 the legislative history through the transcripts of the
3 hearings and the vote.

4 THE COURT: Okay.

5 MR. STRANGIO: Your Honor, I just want to note
6 for the Court's attention that our next witness is flying
7 in and after your court's -- Your Honor's announcement
8 yesterday, we've been streamlining our testimony in the
9 hopes that we may have an opportunity to conclude trial
10 this week. We understand that's not possible. But it is
11 looking very likely that we will close our case in chief
12 tomorrow at the end of the day, at the latest first thing
13 Thursday morning, and we have no other witnesses currently
14 here to testify.

15 So we wanted to let Your Honor know and also see if
16 we could make some progress on using the remainder of this
17 week for the State -- some of their witnesses. We
18 notified them yesterday as well as at lunch about this.
19 Just letting Your Honor know that we have no other
20 witnesses here today.

21 THE COURT: Ms. Land, where are you on document
22 183(1) which was what I thought a joint stipulation of
23 fact but is actually a proposed stipulation of fact from
24 the plaintiffs. You said you were going to look at that
25 and find out what you could stipulate to.

1 Are you prepared to tell me what you're willing to
2 stipulate to before the plaintiffs rest?

3 MR. JACOBS: Dylan Jacobs, Your Honor.

4 THE COURT: I'm sorry.

5 MR. JACOBS: We're not prepared to do that
6 today, but I think we could make a commitment to do that
7 before the plaintiffs rest tomorrow so maybe we could
8 address it tomorrow morning.

9 THE COURT: Okay.

10 MR. JACOBS: Just haven't -- it hadn't been
11 decided yet.

12 THE COURT: All right. I'll hear from you in
13 the morning then.

14 MR. STRANGIO: Thank you, Your Honor.

15 MR. JACOBS: Your Honor, on the matter of the
16 rest of the week, our side is still trying to run down
17 whether it's possible for any of the witnesses that we
18 have on our witness list to testify Thursday and Friday.
19 We don't have a final answer on that yet to whether we can
20 be prepared to take their testimony on Thursday or Friday.

21 THE COURT: A lot of that depends on your
22 stipulations. I mean, there's some stipulations about
23 certain -- what certain local people said. By "local," I
24 mean Arkansas people said or didn't say, but they're not
25 -- you're not willing to stipulate to that, then I'm going

1 allow the plaintiffs to call them. They need to know
2 that.

3 MR. JACOBS: So I don't understand plaintiffs to
4 be waiting on our decision on stipulations to -- if
5 further witness are going to be called. They can correct
6 me if I'm wrong about that.

7 THE COURT: I'm reading stipulations that I
8 thought had been made, so it didn't bring it up as to what
9 Ms. Lundstrum may have said on the floor or whatever. And
10 if she not going to admit that and -- then she can either
11 say she did or didn't here in court. But they have a
12 right to know whether or not you're going to stipulate to
13 those facts or whether or not they need to be prepared to
14 prove them otherwise.

15 MR. JACOBS: Representative Lundstrum I think
16 that, to the extent it's going to come in in the
17 deposition testimony or not, right, so I don't have -- I
18 don't know that that's --

19 THE COURT: I don't know. I haven't --

20 MR. JACOBS: -- correct me if I'm wrong about
21 that, but I don't understand plaintiffs to be waiting on
22 our decision about stipulations to whether or not they're
23 going to call Representative Lundstrum. If that's true,
24 they can --

25 THE COURT: I don't know either, Mr. Jacobs.

1 I'm just saying that in large part what the plaintiffs
2 have to prove depends on what you're willing to stipulate
3 to. And now that I've looked through it, I've only gotten
4 to the first -- first 31 stipulations, and most of them I
5 don't understand why you even have to think about it,
6 whether or not anyone is a certain age or whether or not
7 they were diagnosed at a certain time, all of which is
8 either a fact or not. It's not up to dispute.

9 So I'm not sure, first of all, why all of that wasn't
10 addressed before we got to trial or why -- I know we were
11 busy yesterday, but a lot of this stuff -- I made one
12 correction on the Saxton family that Mr. Saxton didn't
13 already testify to, and that is he's from Vilonia not
14 Conway, but the rest seem irrefutable.

15 So I need to know what is proven in this case or not
16 before I make decisions about where we go from there. A
17 lot of this is pretty pro forma or pretty obvious to me
18 that it either is or it isn't.

19 MR. JACOBS: I think, again, we'll address that
20 in the morning with the Court prior to plaintiffs resting
21 the case.

22 As far as what I was initially talking about in terms
23 of whether we're going to call witnesses on Thursday or
24 Friday, I understand that to be a different issue.
25 Plaintiffs can correct me if I'm wrong. I don't

1 understand their decision to call anymore witnesses to be
2 resting on whether we're going to stipulate to any of the
3 proposed stipulations.

4 MS. WALAS: Specific to the -- to the
5 legislative history itself, Your Honor that's a matter of
6 you could take judicial notice of under Federal Rule
7 201 --

8 THE COURT: Let me rephrase what I think he's
9 trying tell me, is that, if they don't agree to a single
10 stipulation, is everything that you're attempting to prove
11 in the depositions that I have back in my office or would
12 you need to call live testimony to establish those?

13 Is that fair, Mr. Jacobs?

14 MR. JACOBS: I think that's what I'm getting at.

15 THE COURT: That's what I'm asking because I
16 don't know the answer to that question.

17 MS. WALAS: Your Honor, I think that's a mixed
18 bag because, one of the matters that we wanted to address
19 tomorrow and we wanted to bring up about the legislative
20 transcripts in the hearing is that the Court can take
21 judicial notice of legislative history which would include
22 the hearings of the transcripts and things such as that --
23 or the transcripts of the hearings from the floor of The
24 Senate and the House and also the votes. That's a matter
25 that the Court Can take judicial notice of, so that would

1 not necessarily impact us per se on what witnesses to call
2 but it made depending upon what other facts that they may
3 or may not stipulate to in there. It does influence also
4 the manner in which we will present potentially the rest
5 of the witnesses as if they stipulate to facts and we
6 don't have to cover that fact in that direct witness and
7 it would also save the Court some time and perhaps also
8 get us into their case sooner. That's the one reason why
9 it would be helpful in that it would assist us in
10 streamlining our trial as we've been going.

11 And then if they stipulate to that legislative stuff
12 and you don't have to take necessarily judicial notice of
13 the whole thing, although the Court still can, and that's
14 a regularly common practice within the Eighth Circuit and
15 throughout the nation, but there is at least a few Eighth
16 Circuit cases that say that you can take judicial notice
17 of the legislative hearings and votes.

18 THE COURT: Other than the question of relevance
19 and whether or not I'm supposed to factor in legislative
20 transcripts and all, do the defendants have any technical
21 objection to whether or not they're authentic or whether
22 or not I can take judicial notice? I mean, is it down to
23 whether or not it's relevant or whether or not I should
24 consider it or is it some other technical admissibility
25 issue?

1 MR. JACOBS: As far as the legislative
2 documents, Your Honor, I think our --

3 THE COURT: Would it require live testimony to
4 overcome? Are you submitting --

5 MR. JACOBS: I think our objection is relevance.
6 I don't think we don't have technical objections that
7 these aren't authentic reproductions of the legislative
8 documents. I think it's -- by stipulating to its
9 admissibility, I think we would be at least impliedly
10 stipulating to its relevance and I --

11 THE COURT: Well, I can parse through that. You
12 can stipulate to its authenticity or stipulate to the fact
13 that I can or can't take judicial notice of it without
14 waiving your relevance objection. I let people split that
15 and say, I don't have any technical objections but I don't
16 think you ought to pay any attention to it whether it
17 comes in or not for relevance or otherwise objections.
18 And I will allow you to preserve that.

19 What I need to know is, prior to getting these
20 stipulations, is there anything that you're not willing to
21 waive that would require live testimony to cure?
22 Relevance isn't going to get that. I get to make that
23 call.

24 MR. JACOBS: Nothing that will require live
25 testimony, Your Honor.

1 THE COURT: Okay. Well, that's where I was
2 headed, long way around.

3 Does this mean you get to go to Boy Scouts?

4 All right. We're going to start at 9 in the morning
5 unless we have something else we can accomplish this
6 afternoon right now.

7 MR. JACOBS: I was going to finish what I
8 started saying earlier, is just, as far as -- assuming the
9 plaintiffs do close their case on Wednesday, they predict
10 they might --

11 THE COURT: Tomorrow.

12 MR. JACOBS: -- tomorrow. We're still
13 assessing, one, which of our witnesses, if any, are
14 available to come on Thursday and Friday to travel in;
15 and, two, I guess whether we can be prepared to do that.
16 So I hope after phone calls this afternoon we'll have a
17 better idea to give the Court an update on that.

18 THE COURT: Thank you.

19 MR. STRANGIO: I think nothing further from
20 plaintiffs provided first thing in the morning tomorrow we
21 check in on defendants' witness availability for the
22 remainder of the week. Thank you, Your Honor.

23 THE COURT: That's between the two of you, sure.

24 You going to make your deadline, Mr. Ellis?

25 MR. ELLIS: Yes, sir.

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THE COURT: See you in the morning at 9.
(Proceedings adjourned at 3:32 p.m.)

* * * * *

REPORTER'S CERTIFICATE

I, Valarie D. Flora, FCRR, TX-CSR, AR-CCR, certify
that the foregoing is a correct transcript of proceedings
in the above-entitled matter.

Dated this the 24th day of October, 2022.

/s/ Valarie D. Flora, FCRR

United States Court Reporter