

**UNITED STATES DISTRICT COURT  
NORTHERN DISTRICT OF FLORIDA  
TALLAHASSEE DIVISION**

AUGUST DEKKER, et al.,	)	
	)	
Plaintiffs,	)	Case No: 4:22cv325
	)	
v.	)	Tallahassee, Florida
	)	May 9, 2023
JASON WEIDA, et al.,	)	
	)	9:00 AM
Defendants.	)	Volume I
	)	

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**TRANSCRIPT OF BENCH TRIAL PROCEEDINGS  
BEFORE THE HONORABLE ROBERT L. HINKLE  
UNITED STATES CHIEF DISTRICT JUDGE  
(Pages 1 through 250)**

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**P R O C E E D I N G S**

1  
2 (Call to Order of the Court at 9:00 AM on Tuesday, May 09,  
3 2023.)

4 THE COURT: Good morning. Please be seated.

5 Are the plaintiffs ready for trial?

6 MR. GONZALEZ-PAGAN: Yes, Your Honor.

7 THE COURT: Defendants ready?

8 MR. JAZIL: Yes, Your Honor.

9 THE COURT: Opening statement for the plaintiffs.

10 MR. GONZALEZ-PAGAN: Good morning, Your Honor. May it  
11 please the Court, Omar Gonzalez-Pagan for the plaintiffs.

12 Today, Your Honor, we start a trial to vindicate the  
13 rights of Plaintiffs August Dekker, Bri Rothstein, Susan Doe,  
14 and K.F., to be free from discrimination and being able to  
15 access necessary, safe, effective, and evidence-based medical  
16 care for Medicaid.

17 Over the next few days we will show that Rule  
18 51G-1.050(7), the challenged exclusion in this case which was  
19 adopted by Florida Agency for Health Care Administration, is  
20 unlawful because it discriminates based on sex and gender  
21 status, in violation of Section 1557 of the Affordable Care Act,  
22 the Fourteenth Amendment's Equal Protection Clause, and the  
23 EPSDT and comparability provisions of the federal Medicaid Act.

24 This is case because under *Rush v. Parham*, based on  
25 current medical knowledge, the State's determination that

1 gender-affirming medical care is experimental is not reasonable.  
2 In fact, Your Honor, under AHCA's very own regulation to  
3 determine whether a treatment is experimental, the only  
4 conclusion one can reach is that AHCA's determination was  
5 grossly unreasonable.

6 Rule 51G-1.035(4), presented to the Court right now on  
7 the screen, of the Florida Administrative Code sets forth six  
8 factors to determine whether a particular medical treatment  
9 meets Generally Accepted Professional Medical Standards, also  
10 known as GAPMS. And while those factors are not binding on this  
11 Court, they emphatically illustrate how gender-affirming medical  
12 care is safe, effective, and not experimental. The evidence  
13 will show, based on the testimony of experts in the field of  
14 transgender health and gender dysphoria and the plaintiffs' own  
15 testimony and experiences, that gender-affirming medical care is  
16 long-standing evidence-based care.

17 In setting this road map, I will walk the Court  
18 through these factors. The first, the existence of  
19 evidence-based clinical practice guidelines, Your Honor, there  
20 are primarily two evidence-based clinical practice guidelines  
21 for the treatment of gender dysphoria. These are the World  
22 Professional Association for Transgender Health Standards of  
23 Care, specifically Version 8 published in 2022, and the  
24 Endocrine Society's guidelines published in 2017. The State  
25 ignores these guidelines.

1           To be sure, given that they exist and that they are  
2 widely accepted, the State could like to undermine the fact that  
3 they exist by discrediting the organizations that have published  
4 them, but the guidelines, which are consistent with one another,  
5 are based on best available evidence, which involves volumes  
6 upon volumes of research published over the span of not a  
7 few months or years, but, rather, decades. Indeed, the  
8 guidelines are endorsed and supported by every mainstream  
9 medical organization in the United States.

10           This factor weighs heavily in favor of the care at  
11 issue and shows that it falls squarely within Generally Accepted  
12 Medical Professional Standards.

13           The second factor, we look at whether there are  
14 published reports and articles contained in operative medical  
15 and scientific literature related to the health service at  
16 issue. Plaintiffs will show that there is an abundance of  
17 peer-reviewed scientific literature supporting the safety and  
18 efficacy of gender-affirming medical care which the rule seeks  
19 to ban. The literature, much of which will be summarized with  
20 testimony of plaintiffs' experts, dates back decades.

21           Here the State ignores the whole body of the  
22 literature and misses the forest for the trees. The State says  
23 that because some studies have limitations, as is the case in  
24 all of science, the evidence is insufficient. But in looking at  
25 this factor, as plaintiffs' experts will testify, one looks at

1 the entire body of literature, not one particular study in  
2 isolation.

3           The State will argue that the evidence is of low  
4 quality and, therefore, insufficient. This is not so.  
5 Plaintiffs' expert will testify that the evidence at play is of  
6 the same kind and quality that supports countless medical  
7 interventions and that AHCA is creating an unprecedented,  
8 unequal, and, indeed, impossible standard for evaluating the  
9 evidence. This makes sense because defendants are not concerned  
10 with the evidence, but, rather, their goal of not covering this  
11 safe and effective care.

12           And because there is no peer-reviewed scientific  
13 literature supporting defendants' position, the testimony will  
14 show that defendants rely on unpublished reports and not  
15 peer-reviewed opinion pieces, which are not what the  
16 regulations -- their own regulations call for. The entire body  
17 of literature, taken as a whole, as published in peer-reviewed  
18 medical and scientific journals, provides strong evidence in  
19 support of puberty-delaying medications, hormone therapy, and  
20 surgery as treatment of gender dysphoria.

21           This factor also weighs heavily in plaintiffs' favor  
22 and the finding that gender-affirming medical care is not  
23 experimental.

24           The third factor, Your Honor, is the effectiveness of  
25 the health service in improving the individual's prognosis or

1 health outcomes. As noted, the evidence will show that there is  
2 an overwhelming universe of medical literature showing that this  
3 care is effective to treat gender dysphoria. Not only that, but  
4 the testimony from plaintiffs' experts, who together have  
5 decades of experience treating and studying gender dysphoria,  
6 will show that the scientific and medical literature supporting  
7 the efficacy of gender-affirming medical care accords with  
8 nearly a century of clinical experience.

9           The evidence will show that those diagnosed with  
10 gender dysphoria may experience high levels of anxiety,  
11 depression, and even self-harm and suicidality if their gender  
12 dysphoria is left untreated, and that the State's alternative to  
13 treat gender dysphoria with psychotherapy alone -- we've met  
14 some people who would argue it's akin to conversion therapy --  
15 has no basis in peer-reviewed literature or clinical experience.

16           Quite fortunately, Your Honor, plaintiffs and their  
17 families will attest to the effectiveness of gender-affirming  
18 medical care that they have received and which Florida Medicaid  
19 previously covered. This care made the lives of Plaintiffs  
20 August Dekker, Brit Rothstein, Susan Doe, and K.F. better. It  
21 allows them to be themselves, and it helped secure and helped  
22 reduce the stress in society and emotional pain that they  
23 experience as a result of their gender dysphoria. And Jade  
24 Ladue, and Jane Doe will testify about how this care helped  
25 their adolescent children finally find comfort in their own



1 skin.

2 In sum, Your Honor, this care is not just effective in  
3 mitigating the effects of gender dysphoria. It can save lives.  
4 This factor goes to the plaintiffs.

5 Factors 4 and 5, Your Honor, are ordained to  
6 utilization trends and coverage policies by other credible  
7 insurance payer sources. These factors are so interrelated that  
8 we treat them together for purposes of this presentation.

9 As Your Honor knows, AHCA's fourth factor, utilization  
10 trends, is simply an analysis of whether health insurance  
11 entities, whether public or private, cover the service that is  
12 being analyzed. This is indisputably the case, and plaintiffs'  
13 expert Kellan Baker will testify as to that as well. What's  
14 more, Dr. Baker will discuss coverage trends across the  
15 United States.

16 The evidence will show that AHCA abandons its own  
17 standards by refusing to review private insurance coverage  
18 policies which cover this care as medically necessary. That --  
19 AHCA's suggestion that Medicare does not cover this treatment is  
20 patently false. Yes, Medicare declined to issue a national  
21 coverage determination mandating the coverage of  
22 gender-affirming surgery for the Medicare population  
23 automatically, but it did so after removing an exclusion for  
24 this care when it determined that it was not experimental and  
25 after it said the coverage for this care needs to be determined

1 on an individual basis based on the medical needs of a  
2 particular patient.

3 As for Medicaid, over 45 states and territories of the  
4 56 states and territories in the United States cover this care.  
5 By contrast, only a small minority exclude some of it, and we  
6 think of that small minority even fewer do it completely, as  
7 Florida now seeks to do.

8 It is clear that these factors also weigh in favor of  
9 the plaintiffs and the finding that gender-affirming medical  
10 care is not experimental.

11 The sixth and final factor, Your Honor, is the  
12 recommendations or assessments by clinical or technical experts  
13 on the subject or field at issue. The last part of this factor  
14 on the subject or the field of course implies that the experts  
15 being consulted would have actual clinical or technical  
16 experience in the health service being analyzed.

17 Here the State did not do that. Instead, it engaged  
18 in what would charitably be called a sham process where it paid  
19 quite generously a handful of select vocal opponents of  
20 gender-affirming care to serve as consultants. In fact, AHCA  
21 had never even hired consultants for a GAPMS process before. To  
22 use those consultants to participate in this process, as AHCA  
23 former employee and plaintiff witness Jeffrey English will  
24 testify and has put it in the past, was a conclusion in search  
25 of an argument.

1           None, absolutely none of AHCA's consultants that  
2 worked on creating the GAPMS report had any experience  
3 diagnosing, treating, or studying gender dysphoria or its  
4 treatment. AHCA employed them specifically because they oppose  
5 this care. But of the eight consultants that AHCA hired during  
6 the GAPMS report process, only two will be testifying as experts  
7 today in this trial, and of those, neither of them -- Dr. Van  
8 Meter and Dr. Lappert -- have any experience in treating or  
9 studying gender dysphoria, and both of them have previously been  
10 disqualified as experts by courts on this issue.

11           By contrast, the clinicians and technical experts who  
12 could provide actual insight into this care, who have experience  
13 in treating this condition, as the Court will find, are people  
14 like plaintiffs' experts. You'll learn from each of plaintiffs'  
15 expert witnesses that they are recognized as leaders in the  
16 field of gender-affirming care, that they are experienced. They  
17 are published on the topic and have been peer reviewed on the  
18 topic. They are qualified to testify as to the efficacy of this  
19 care.

20           This factor heavily supports plaintiffs and  
21 demonstrates that AHCA's determination was unreasonable.

22           On a final note, the process employed by AHCA is an  
23 important factor in itself in making a determination of whether  
24 their conclusion was reasonable. Here the process that  
25 surrounded AHCA's review of the GAPMS factors, as well as the

1 process used to adopt the final rule itself, were perversions of  
2 a standard process, and they support the finding that it wasn't  
3 reasonable. AHCA did not legitimately review the evidence as  
4 set forth under their own regulations, and there are several  
5 other ways in which the process deviated from standard operating  
6 procedure.

7 First, AHCA had never used the GAPMS process before to  
8 terminate coverage for a service it previously covered. It just  
9 never had. In fact, you'll hear from Mr. English that if a  
10 service was already covered by AHCA, then the standard procedure  
11 was to not undertake a GAPMS process. AHCA employee Devona  
12 Pickle even pointed out to Mr. English via email that  
13 eliminating coverage is not something considered under Rule  
14 51G-1.035.

15 Second, the GAPMS request did not come through  
16 traditional channels that typically trigger a GAPMS evaluation.  
17 In fact, Jeff English, who was the GAPMS guy at the time, the  
18 agency employee who was responsible for every single GAPMS  
19 report at the pertinent time at issue, was pulled and excluded  
20 from the task of evaluating gender-affirming medical care under  
21 the process undertaken by this agency. As the evidence will  
22 show, AHCA excluded him because if he followed the evidence as  
23 he normally did, he would not reach the conclusion they wanted.

24 And, third, while it was typical for most GAPMS  
25 processes to take months, if not years, and for them to be

1 evaluated at different stages, here the report was articulated  
2 within a matter of weeks, and it was approved within a matter of  
3 a day, and just 24 hours later the rule was proposed.

4           Then there was the rule hearing itself where AHCA paid  
5 consultants to respond to comments, where it met beforehand to  
6 sketch out a plan for those responses and appearance, and the  
7 consultants only responded to those who opposed the rule, not  
8 any comment to those who supported it.

9           And AHCA received thousands of written comments  
10 submitted after the hearing but before the close of the rule  
11 record that were substantial and included lengthy responses from  
12 the Endocrine Society, the American Academy of Pediatrics, and  
13 teams of legal and medical experts from various academic  
14 institutions, as well as people who stood to be affected by this  
15 rule.

16           Notwithstanding the amount of public comment and  
17 particularly opposition to the rule, the agency, a mere three  
18 weeks after the close of the comment period, finalized the rule  
19 banning coverage of care in identical form to the rule that was  
20 proposed in June.

21           In sum, Your Honor, the totality of the evidence  
22 plaintiffs will proffer will show that AHCA's conclusion was not  
23 one reached within reason, but, instead, was motivated by  
24 discriminatory animus.

25           Plaintiffs are grateful to have their day in court and

1 to present this evidence. We are looking forward to vindicate  
2 plaintiffs' rights and the rights of other transgender Medicaid  
3 beneficiaries throughout Florida whose health, well-being, and  
4 very lives are at stake. They deserve and are entitled to the  
5 same dignity, respect, and governmental recognition as any other  
6 person in Florida.

7 We thank the Court in advance for its expenditure of  
8 its time and its resources in hearing this case.

9 Thank you, Your Honor.

10 THE COURT: For the defense?

11 MR. JAZIL: Thank you, Your Honor. Mohammad Jazil on  
12 behalf of the defendants, together with Gary Perko and Michael  
13 Beato.

14 Your Honor, over the next few week this Court will  
15 hear from lots of experts: Experts in psychiatry, experts in  
16 endocrinology, surgeons, neuroscientists. The State will put on  
17 some of these experts. My friends for the plaintiffs will put  
18 on some of the other experts.

19 The State's experts include Dr. Steven Levine, who  
20 helped write WPATH's Standards of Care Version 5. The State's  
21 expert will include Dr. Sophie Scott, a neuroscientist from the  
22 United Kingdom, who has no dog in this fight -- she is not part  
23 of either entrenched camp of experts -- talking about the  
24 effects of puberty blockers on the brain.

25 The testimony both from us and from them will focus on

1 the use, efficacy, safety, and general appropriateness of  
2 certain treatments -- puberty blockers, cross-sex hormones, and  
3 surgeries -- to treat one mental disorder, gender dysphoria.

4 The Court will also hear from Matt Brackett, a career civil  
5 servant. Mr. Brackett was the one tasked with reviewing the  
6 evidence and writing the GAPMS report as an initial matter. The  
7 State's experts and Mr. Brackett will tell the Court that the  
8 treatments at issue here are experimental. Mr. Brackett's  
9 reasons are laid out in his GAPMS report. It's a report that he  
10 wrote. It was a report that, together with its attachments, was  
11 subject to public comment and public review as part of a  
12 rulemaking process. The rule never got challenged.

13 Under *Rush*, Your Honor, as you know, this Court's task is  
14 to assess whether or not the State's conclusion was reasonable  
15 based on the current medical opinion. Under *Dobbs*, this Court's  
16 task is to assess whether the State's decision was rational and  
17 under the weight of the authority -- *Rush*, *Dobbs*, and *Adams v.*  
18 *School Board* -- the task calls for deference to the State's  
19 choices on this issue concerning the regulation of certain  
20 medical procedures.

21 As a further point, Your Honor, I note that -- and to  
22 ensure that I preserve this for appeal, I note that the State's  
23 position is that 42 U.S.C. 1983 does not serve as a vehicle for  
24 challenges under the Medicaid Act. Section 1983 allows for  
25 vindication of federally protected rights guaranteed by the

1 requirements of federal law. Medicaid, the federal at law  
2 issue, and the DPSDT and comparability requirements create no  
3 federally enforceable rights.

4           Regardless, Your Honor, the evidence will show that the  
5 State is in the right here; its decision was constitutional; its  
6 decision complied with the relevant statutes.

7           Thank you, Your Honor.

8           THE COURT: All right. For the plaintiff, please call  
9 your first witness.

10           MR. GONZALEZ-PAGAN: Your Honor, if may, Omar  
11 Gonzalez-Pagan. We were hoping to -- and I've consulted with my  
12 friend -- to admit the joint stipulated exhibits into evidence  
13 at the start of trial, if the Court is amenable.

14           THE COURT: Yes.

15           This is all the joint exhibits?

16           MR. GONZALEZ-PAGAN: All the joint stipulated  
17 exhibits, and there was a notice filed last night with the Court  
18 setting forth which ones those were.

19           THE COURT: Yeah, the notice last night is ECF 214.

20           MR. GONZALEZ-PAGAN: It's Docket No. 219, Your Honor.

21           THE COURT: 219.

22           214 is the one I'm looking at, but that dealt with the  
23 witnesses.

24           MR. GONZALEZ-PAGAN: We are happy to revisit that at a  
25 later time, Your Honor.



1 THE COURT: No, I've got it right here. The exhibits  
2 identified in ECF 219 are admitted into evidence.

3 (All exhibits listed in ECF No, 219 are admitted.)

4 MR. GONZALEZ-PAGAN: Thank you, Your Honor.

5 THE COURT: Most of the witnesses are experts, and I  
6 would allow them to be in the room even with the rule invoked.

7 Does either side wish to have the rule invoked? I'm  
8 not entirely sure there are any lay witnesses other than  
9 parties. But if there are, does either side wish to have them  
10 excluded?

11 MR. JAZIL: No, Your Honor, not for the defense.

12 MR. GONZALEZ-PAGAN: Not from the plaintiffs,  
13 Your Honor.

14 THE COURT: All right.

15 MS. DeBRIERE: Your Honor, plaintiffs call Dr. Dan  
16 Karasic as their first witness.

17 (Dr. Karasic entered the courtroom.)

18 THE COURTROOM DEPUTY: Please be seated.

19 **DR. DAN HALABAN KARASIC, PLAINTIFFS WITNESS, DULY SWORN**

20 THE COURTROOM DEPUTY: Please be seated.

21 Please state your full name for the record and spell  
22 your last name for the record.

23 THE WITNESS: Sure, Dan Halaban Karasic,  
24 K-a-r-a-s-i-c.

25

DIRECT EXAMINATION

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BY MS. DeBRIERE:

Q. Dr. Karasic, what is your profession?

A. I'm a psychiatrist.

Q. How long have you been a psychiatrist?

A. I have been a psychiatrist for 32 years, 36 years including psychiatric residence.

Q. Have you specialized in the treatment of any particular conditions or populations?

A. Yes, I've specialized in the treatment of transgender and gender-diverse people, as well as people with HIV.

Q. What current positions do you hold, Dr. Karasic?

A. I am professor emeritus of psychiatry at the University of California at San Francisco.

Q. Okay. Over your years at UCFS --

A. Yes.

Q. -- what have your duties been?

A. Over the years at UCFS, I've provided health care and created programs and done research and taught on the care of both people with HIV and transgender and gender-diverse people.

Q. Specifically with regard to transgender people, in what settings have you provided clinical care to patients?

A. I was the psychiatrist for the Dimensions Clinic for transgender youth, as well as the Transgender Life Care Program at Castro-Mission health care center, and that was from 2023

1 until 2020.

2 I was also the cofounder of -- and coleader of the gender  
3 team at the UCFS Alliance Health Project from 2012 to 2020.

4 Q. Can you describe --

5 A. Also, just to add, throughout the 30 years, I saw -- would  
6 see transgender people in my faculty practice.

7 Q. Thank you.

8 Can you describe your experience a little bit at the  
9 Dimensions Clinic?

10 A. Sure.

11 So the Dimensions Clinic provides care for transgender  
12 youth from ages 12 to 25; one of the first places in the U.S. to  
13 do so. And there was also the Transgender Life Care Program  
14 which was primarily a clinic for people who had kind of aged out  
15 of that 12-to-25-year range. And so I saw patients and also  
16 supervised therapists there.

17 Q. And what years did you see patients at Dimensions?

18 A. From 2003 to 2020.

19 Q. Can you describe your experience a little bit at the  
20 Transgender Life Center as well?

21 A. Transgender Life Care Program was in the same clinic, but  
22 it was providing care for people after they had -- were no  
23 longer a part of the Dimensions program because they were 26,  
24 27; they had aged out of it.

25 And, yeah, so I guess answering that part.

1 Q. Yeah. How many patients have you treated over the years?

2 A. So -- well, I would also say, in terms of places I saw  
3 people, the transgender team at the UCFS Alliance Health  
4 Project, that was a team that we started when San Francisco  
5 started covering gender-affirming care for people first with  
6 Healthy San Francisco in 2012, and people with Medicaid starting  
7 in 2013.

8 And so we provided the mental health assessments for  
9 surgery for the Medicaid patients who were getting surgery  
10 through the -- through San Francisco's Managed Medi-Cal.

11 Q. Thank you. Thank you.

12 So in all of those clinical settings, can you give an  
13 approximation of how many patients you've seen over the course  
14 of your practice?

15 A. Certainly thousands.

16 Q. Thousands.

17 Aside from gender dysphoria, what other types of conditions  
18 do you treat?

19 A. So as a psychiatrist, I take care of a lot of patients who  
20 are depressed, anxious, have bipolar disorder, people with panic  
21 disorder, OCD; the whole range of psychiatric conditions that  
22 people have.

23 Q. Do you also do research?

24 A. And so -- so yes. Well, I retired from UCFS in 2020. But,  
25 yes, I did research as part of my work at UCFS from 1991 to

1 2020.

2 Q. 1991 to 2020?

3 Have you published any scholarly articles?

4 A. Yes.

5 Q. Have those been in peer-reviewed journals?

6 A. Yes.

7 Q. Approximately how many peer-reviewed articles have you  
8 published?

9 A. Twenty-three.

10 Q. And what topics did those articles cover?

11 A. They covered the care of transgender people, as well as  
12 care of people with HIV.

13 Q. In addition to those articles, are there any other  
14 professional published works you have authored that relate to  
15 transgender health issues?

16 A. Yes. I was the -- an author of the WPATH Standards of Care  
17 7, and I was the mental health chapter lead of WPATH Standards  
18 of Care Version 8. And I also worked on the primary care  
19 protocols for transgender care for UCFS, both versions.

20 Q. Have you served as a peer reviewer for any of the scholarly  
21 journals?

22 A. Yes.

23 Q. Are there particular areas you are asked to review when you  
24 are doing the peer review?

25 A. Transgender health.

1 Q. Dr. Karasic, are you being compensated for your time here  
2 today?

3 A. Yes.

4 Q. Does your compensation in any way depend on the outcome of  
5 this litigation?

6 A. No.

7 Q. Or your testimony?

8 A. No.

9 Q. Dr. Karasic, when you provided a copy of your expert report  
10 for this case, did you include a copy of your CV?

11 A. Yes.

12 Q. And does that CV present an accurate summary of your  
13 qualifications and professional activities?

14 A. Yes.

15 MS. DeBRIERE: Your Honor, Dr. Karasic's CV is among  
16 the stipulated exhibits provided to the Court listed as  
17 Plaintiffs' Exhibit 359.

18 THE COURT: That's admitted.

19 (PLAINTIFFS EXHIBIT 369: Received in evidence.)

20 MS. DeBRIERE: At this time I'd move to have  
21 Dr. Karasic qualified as an expert in psychiatry; more  
22 specifically, the assessment, study and treatment of gender  
23 dysphoria in both adolescents and adults.

24 THE COURT: Mr. Jazil, any questions at this time?

25 MR. JAZIL: No, Your Honor.

1 THE COURT: You may proceed.

2 MS. DeBRIERE: Thank you, Your Honor.

3 BY MS. DeBRIERE:

4 Q. Dr. Karasic, you mentioned that you've treated both  
5 adolescents and adults with gender dysphoria, so let's just go  
6 over some basic terms.

7 What is gender dysphoria?

8 A. So gender dysphoria is the distress about the difference  
9 between one's identified gender and one's sex assigned at birth.

10 Q. What does the term "gender identity" mean?

11 A. Gender identity is a deeply felt, long-standing sense of  
12 being male, female, or another gender.

13 Q. I think you just mentioned sex assigned at birth?

14 A. Yes.

15 Q. What does that mean?

16 A. So when a doctor delivers a baby, the -- usually based on  
17 the appearance of external genitalia, a sex of male or female is  
18 assigned.

19 Q. How is sex at birth determined?

20 A. Usually by appearance of external genitalia.

21 Q. What does the term "transgender" mean?

22 A. So transgender is -- a transgender person is someone whose  
23 gender identity is different from their sex assigned at birth.

24 Q. What about the term "nonbinary?" What does that mean?

25 A. Nonbinary is someone whose gender identity is other, male

1 or female.

2 Q. Is there any diagnosis associated with gender dysphoria  
3 that is used in the U.S.?

4 A. I'm sorry. What was the question?

5 Q. Yeah. Is there any diagnosis associated with gender  
6 dysphoria that is used in the United States?

7 A. Oh, yes.

8 So there are two diagnoses that are in the *DSM-5*, and then  
9 the ICD-10-CM refers to those diagnoses. There's gender  
10 dysphoria of children and gender dysphoria of adults and -- of  
11 adolescents and adults.

12 Q. What is the DSM?

13 A. Oh, the Diagnostic and Statistical Manual of the American  
14 Psychiatric Association.

15 Q. You also mentioned ICD-10. What is that?

16 A. So that's the International Classification of Diseases.  
17 It's the World Health Organization's list of disorders. And in  
18 the United States we use ICD-10-CM as kind of the billing  
19 manual, diagnoses for billing.

20 Q. So turning back to the DSM, how is that used by mental  
21 health professionals in caring for patients?

22 A. So the DSM provides classification with a list of symptoms  
23 that define the different disorders. And that's used so that  
24 everyone has a common understanding of what a particular  
25 disorder is and also for billing purposes.



1 Q. When you say "everyone," what group of people is that?

2 A. So clinicians, and also for researchers, that if people are  
3 researching a particular disorder, it's -- they are talking  
4 about the same thing, the same list of symptoms.

5 Q. Dr. Karasic, have you ever diagnosed patients with gender  
6 dysphoria?

7 A. Yes.

8 Q. Can you summarize the diagnostic criteria located in the  
9 DSM for gender dysphoria?

10 A. Sure. So it's having for six months or longer -- so at  
11 least six months -- distress about the difference between one's  
12 gender identity or experienced gender and one's gender assigned  
13 at birth. And it -- and then there are some -- like, six  
14 criteria of which you have to have two of those six symptoms.  
15 And then you have to have clinically significant distress or  
16 social or occupational impairment.

17 Q. So what does that mean, "clinically significant distress"?

18 A. So that's distress that is strong enough that you would go  
19 to the doctor for it.

20 Q. And same question for impairment of functions?

21 A. For social and occupational impairment.

22 So social impairment is that the symptoms are strong enough  
23 that they are getting in the way of your relationship with other  
24 people, with your, kind of, interface with the world. And  
25 occupational impairment is that the symptoms are getting in the

1 way of school or job performance.

2 Q. Does the fact that someone is gender nonconforming mean  
3 that they are to be diagnosed with gender dysphoria?

4 A. No.

5 Q. Is being transgender a mental disorder per se?

6 A. No.

7 So being transgender is just part of human diversity.  
8 There are people who are transgender who meet criteria for  
9 gender dysphoria. But being transgender per se is an identity  
10 that a person might have.

11 Q. Has the diagnosis of gender dysphoria changed at all over  
12 time in the DSM?

13 A. The diagnosis of gender dysphoria, both diagnosis of  
14 children and adults, came into the DSM with *DSM-5* in 2013.  
15 Prior to that, there were diagnoses of gender identity disorder  
16 of adolescents and adults and gender identity disorder of  
17 children.

18 Q. So what were the differences, I guess, between those two  
19 diagnoses?

20 A. So one big difference was with gender identity disorder of  
21 childhood, which did not have an absolute requirement of  
22 transgender identity, it could be implied through strong  
23 cross-sex behavior. And there was a recognition that -- that  
24 that included a lot of people who were not transgender adults.  
25 And so in -- for *DSM-5*, they made the A1 criteria of a

1 transgender identity required for gender dysphoria of childhood.

2       There is also changing the name from gender identity  
3 disorder to gender dysphoria, an emphasis that it was the  
4 distress about the difference that was the disorder as opposed  
5 to being transgender.

6 Q.   You just mentioned that A1 criteria?

7 A.   Yes.

8 Q.   What -- just tell us what that A1 criteria is. I believe  
9 you just --

10 A.   So the A1 criteria in gender dysphoria of childhood is  
11 our -- symptoms that speak to having a transgender identity,  
12 having an identity of being a gender other than the one  
13 assigned -- sex assigned at birth. So it was in the list of  
14 symptoms before, but it wasn't a required symptom until *DSM-5*.

15 Q.   Is gender identity something someone can change voluntarily  
16 to be congruent with their sex assigned at birth?

17 A.   No.

18 Q.   Have there been efforts through the field of psychiatry or  
19 psychology to try to change a transperson's gender identity  
20 through therapy?

21 A.   Yes, generally labeled conversion therapy.

22 Q.   How did those efforts impact patients?

23 A.   So major medical and mental health organizations have come  
24 out with policy statements against conversion therapy, because  
25 there just hasn't been any data that it helps. And we have some

1 data and certainly a lot of clinical experience of people who  
2 were harmed from conversion therapy.

3 Q. You mentioned major medical associations. Can you name a  
4 couple of those?

5 A. Sure.

6 The American Psychological Association, American  
7 Psychiatrist Association, American Medical Association; the  
8 American Psychological Association not that long ago came out  
9 with a long document in opposition to what they labeled as  
10 gender identity change efforts, which is conversion therapy  
11 specifically for transgender people.

12 Q. So, Dr. Karasic, you said people can't voluntarily change  
13 their gender identity, but can someone's understanding of their  
14 gender identity change over time?

15 A. Yes.

16 So people can have these deep-seated feelings and they can  
17 have different conceptualizations or names that they give for  
18 those. And certainly I have patients who might identify as  
19 nonbinary at one point and as binary/transgender at another  
20 point, or vice -- or switching, vice versa.

21 And so, you know, people can label their gender identity in  
22 different ways over time as their understanding of their self  
23 evolves.

24 Q. Can you describe the process that's used to diagnosis  
25 gender dysphoria?

1 A. Yes.

2 So specifically for -- not gender dysphoria, the symptom of  
3 gender dysphoria, the diagnosis in the *DSM-5* has a set of  
4 symptoms. The person has a -- the patient has a clinical  
5 interview from a clinician, and that includes a clinical history  
6 and a clinic exam, and the clinician making the determination if  
7 that fits with the gender dysphoria diagnosis. It's really the  
8 same process for making any DSM diagnosis.

9 Q. Are there any differences between diagnosing a child versus  
10 an adult?

11 A. Yes.

12 Well, for prepubertal children, there is a different set of  
13 criteria, first of all. And, secondly, the parents are involved  
14 in the clinical interview and typically the exam as well when  
15 working with the child.

16 Q. Are there any recommendations as to who should make the  
17 assessments or diagnosis of gender dysphoria when it comes to  
18 patients?

19 A. Yes.

20 WPATH Standards of Care 8 makes recommendations for  
21 adolescents. There's a recommendation of it being a mental  
22 health professional with substantial knowledge and experience in  
23 the field.

24 For adults, it's a health professional, but also a  
25 knowledgeable health professional.

1 Q. Is there an understanding of what causes someone to have a  
2 particular gender identity or for experiencing gender  
3 incongruence?

4 A. So, we know that there are biological bases for gender  
5 identity, but we also know it's more complicated than that. And  
6 we don't know specifically why a given individual might have a  
7 transgender identity.

8 Q. Are there any studies exploring these bases?

9 A. Yeah. So there's a whole literature of biological  
10 differences, from increased concordance in identical twins, to  
11 brain structure, to hormonal differences in utero.

12 And so there are -- there is substantial data that -- it  
13 doesn't account for all of someone's gender identity, but these  
14 are contributory factors.

15 Q. And some of the State's experts take issue with the  
16 legitimacy of the diagnosis of gender dysphoria, asserting that  
17 it's a self-diagnosis because it's based on what the patient  
18 reports instead of a biological or laboratory test.

19 Could you tell us your response to that?

20 A. Sure.

21 Well, you know, having -- before even being a psychiatrist,  
22 having been a medical student and then doing a, you know,  
23 general internship, the history you take from a patient and your  
24 observation of the patient are among the most valuable things in  
25 making a diagnosis. It's not just, you do a lab test and make a

1 diagnosis.

2 And then specifically for psychiatry, we make all of our  
3 diagnoses by talking with patients and by observing them.

4 Q. Dr. Karasic, the State and some of its experts have also  
5 suggested that gender dysphoria might be caused by something  
6 called endocrine disrupting chemicals.

7 Are you familiar with that term?

8 A. So I think that's referring to environmental chemicals and  
9 the question of can they affect gender identity, and there  
10 really isn't, you know, evidence to support that.

11 Q. Okay. So, I guess, the next set of questions.

12 Are there any best practice guidelines recognized within  
13 medical/mental health fields to treat patients with gender  
14 dysphoria?

15 A. Yes. Those include the WPATH Standards of Care Version 8,  
16 the Endocrine Society guidelines from 2017, and then there are  
17 recommendations that various professional societies have made.

18 Q. So let's -- can you talk a little bit about what WPATH is?

19 A. Sure. The World Professional Association for Transgender  
20 Health is an organization of, I believe, approximately 3,000  
21 health professionals, almost all of whom are clinicians, who are  
22 working in transgender health, but also including health  
23 academics and a few health legal experts.

24 Q. And what is WPATH Standards of Care 8? Can you describe  
25 that a bit?

1 A. Sure. WPATH has put out periodically standards of care,  
2 which are practice guidelines, since -- 1979 was Standards of  
3 Care Version 1. Standards of Care 7 was released in 2011,  
4 published in 2012, and then Standards of Care 8 came out just in  
5 September of 2022.

6 Q. And are you at all familiar with the process used to  
7 develop the Standards of Care, including Standards of Care 8?

8 A. Yes, I was one of the authors of Standards of Care 7 and  
9 one of the authors of Standards of Care 8, including being  
10 chapter lead for the mental health chapter of Standards of Care  
11 8.

12 Q. How many chapters are in the Standards of Care 8?

13 A. I believe it's 18.

14 Q. Who is involved in developing the recommendations to  
15 include in the Standards of Care?

16 A. So the -- for Standards of Care 8, the WPATH board of  
17 directors appointed an editor and two coeditors, and they were  
18 two American clinicians and academicians and one from the  
19 United Kingdom.

20 And those three editors then selected from applications  
21 chapter leads, and then the editors and the chapter leads worked  
22 together from applications to go through CVs and pick a team for  
23 each chapter, and those were people who had considerable  
24 expertise in transgender health.

25 Q. So to follow up on that, in writing the chapters of



1 Standards of Care for 8, what did the -- these individual who  
2 were selected to write the standards, what did they base their  
3 recommendations on?

4 A. So -- so speaking for the mental health chapter -- I was  
5 chapter lead -- we had leaders of the transgender health  
6 programs of Sweden, Belgium, Turkey, and several people from the  
7 United States, and they -- and recommendations were based on our  
8 review of the literature, as well as our experience in those  
9 programs. There was also -- WPATH commissioned from John  
10 Hopkins University systematic reviews of the evidence to provide  
11 a basis for the recommendations that were made.

12 Q. How long did this whole process take?

13 A. About five years.

14 Q. Okay. You also mentioned the Endocrine Society guidelines?

15 A. Yes.

16 Q. Are you familiar with those guidelines?

17 A. Yes.

18 Q. Why, because you're not an endocrinologist?

19 A. Yes. So there were -- so there was over a decade in  
20 between Standards of Care 7 and Standards of Care 8, and the  
21 Endocrine Society guidelines were kind of right in the middle  
22 timewise. So they were a useful guide in that process of time.  
23 I'm sure endocrinologists, for example, you know, might still  
24 preferentially look at that. For us certainly in mental health,  
25 we would probably look more to Standards of Care 8 that includes

1 an endocrine section but, you know, is the most current.

2 Q. In the Endocrine Society guidelines, does it cover all age  
3 ranges?

4 A. Yes.

5 Q. How are the WPATH Standards of Care and the Endocrine  
6 Society guidelines viewed within the medical and mental health  
7 communities?

8 A. They are quite universally accepted or commonly accepted  
9 by -- as practice guidelines for clinicians, you know,  
10 throughout the United States.

11 Q. And so what -- when we're referencing these major medical  
12 and mental health professional groups, what are some of those  
13 groups? Could you name them for us?

14 A. Sure. American Medical Association, American Academy of  
15 Pediatrics, the American Psychiatric Association, the American  
16 Psychological Association, National Association of Social  
17 Workers, and many more.

18 Q. Do you follow the WPATH Standards of Care in your  
19 psychiatry practice when seeing patients?

20 A. Yes.

21 Q. In your experience, are the WPATH Standards of Care and  
22 Endocrine Society guidelines recommended practices that are  
23 followed by clinicians?

24 A. Yes.

25 Q. And how do you know that?

1 A. So I've been involved not only practicing transgender  
2 health, but teaching transgender health since the 1990s, and so  
3 I speak at a lot of conferences. I've trained thousands of  
4 people.

5 Just last week I was doing a training in San Francisco that  
6 was put on by UCSF for clinicians. There was this one person I  
7 met from Florida there. I've -- I did a train -- a large  
8 training in South Florida several years ago.

9 And so I've also probably presented on transgender health  
10 at the American Psychiatric Association probably more than any  
11 other one individual since the 1990s.

12 So I meet a lot of people, and I discuss their practice and  
13 WPATH Standards of Care, and some of the principles of  
14 gender-affirming care are, you know, utilized in  
15 cross-disciplines throughout the United States and  
16 internationally.

17 Q. In practice guidelines like WPATH and the Endocrine Society  
18 guidelines, similar guidelines, is it ever appropriate for  
19 clinicians to deviate from those guidelines?

20 A. So they're practice guidelines, and so a clinician still  
21 uses their individual judgment, and that takes into account  
22 practice guidelines. But they're not laws. They are guidelines  
23 for practice.

24 Q. So just turning to some specifics about WPATH Standards of  
25 Care 8, are the recommendations for the treatment of gender

1 dysphoria the same across age ranges?

2 A. So -- I'm sorry. Were you talking about --

3 Q. So in the W -- turning specifically to WPATH 8 --

4 A. Yes.

5 Q. -- some specifics there, are the treatment recommendations  
6 for gender dysphoria the same across age ranges?

7 A. No.

8 Q. So can you describe that a little bit for us?

9 A. Sure. So there's no medical treatment that is recommended  
10 for people before puberty.

11 And then starting at Tanner Stage 2, the start of puberty,  
12 there is the possibility of a medical intervention of puberty  
13 blockers.

14 And at -- later in adolescence cross-sex hormones could be  
15 used, and also later in adolescence transmasculine youth can get  
16 chest surgery. Other surgeries in adolescences are very  
17 uncommon.

18 And then adults get -- you know, could get -- in addition  
19 to hormones can get chest surgery, genitalia surgery, facial  
20 feminization surgery.

21 Q. Dr. Karasic, are you familiar with the Rule 59G-1.050,  
22 subpart (7), of the Florida Administrative Code?

23 A. Yes.

24 Q. What's your understanding of that rule?

25 A. So that -- that rule does not allow provision of or payment

1 reimbursement for gender-affirming care, including hormones --  
2 or puberty blockers, hormones, and surgery.

3 Q. So let's just discuss a little bit the medical  
4 interventions this rule covers, starting with pubertal  
5 suppression.

6 How does pubertal suppression address a young person's  
7 gender dysphoria?

8 A. So pubertal suppression stops the progression of puberty  
9 where it is. So if -- a young person could present at these --  
10 a very early stage of puberty. For someone assigned female at  
11 birth, you could have -- start breast bud development, and  
12 puberty blockers would halt pubertal development where it was  
13 when the person started the medication.

14 Q. Does that have any impact on the individual's mental health  
15 condition?

16 A. Yes, particularly if the person is experiencing distress  
17 either at the physical changes that already happened or the  
18 anticipation of the progression of those changes, there can be  
19 great relief from, you know, knowing that those have been frozen  
20 in place.

21 Q. How about hormone therapy? How does that relate to  
22 addressing the diagnosis of gender dysphoria?

23 A. So hormone therapy helps masculinize or feminize the body  
24 to be more congruent with the person's gender identity, and,  
25 again, that can certainly provide mental health benefits with a

1 lessening of the gender dysphoria -- the distress of gender  
2 dysphoria and sometimes other co-occurring mental health  
3 symptoms.

4 Q. It would be the same question for surgery, Dr. Karasic.

5 A. Uh-huh. So surgery also alters the body to be more  
6 congruent with the person's gender identity and also can both  
7 provide relief from gender dysphoria and also sometimes other  
8 mental health symptoms surrounding the distress of gender  
9 dysphoria.

10 Q. In your experience, what are the effects of untreated  
11 gender dysphoria?

12 A. So I've taken care of patients for a long time and through  
13 many different kind of eras and have had also had patients who  
14 for various family or social or occupational or medical reasons  
15 have not been able to take hormones for extended periods of  
16 time, and for some people that can cause great distress.

17 And, by definition, a diagnosis of gender dysphoria has  
18 more than six months of clinically significant distress or  
19 social and occupational impairment. So that can impair people's  
20 performance in school, work, relationships.

21 Q. Can you give some -- can you describe a little bit more for  
22 us how that distress manifests in an individual, what some of  
23 the behavior looks like?

24 A. So that could be depression, anxiety, suicidal ideation,  
25 self-harm, withdrawing from loved ones, or from -- or not

1 performing well in school or work might be some examples.

2 Q. Are there any minimum age requirements for the treatments  
3 we just discussed?

4 A. Yeah. So as I said, you wouldn't give a puberty blocker  
5 until they start puberty. That's not a set age. The -- the  
6 adolescent chapter in Standards of Care 8 sets an 18 for  
7 phalloplasty. For other interventions it says that they should  
8 be age appropriate, and the -- the young person should have the  
9 cognitive development to assent to the interventions that  
10 parents consent to.

11 Q. I think you said this a little bit before, but does that  
12 mean minors would always receive surgeries to treat their gender  
13 dysphoria?

14 A. I'm sorry. What's the question?

15 Q. Yeah. Does that mean minors would receive surgeries to  
16 treat their gender dysphoria?

17 A. So minors can receive surgery to treat gender dysphoria.  
18 The overwhelming number of those surgeries, in my experience,  
19 are transmasculine youth who later in adolescence get chest  
20 surgery because of strong persistent dysphoria about their  
21 chest. Other surgeries can be done but are quite uncommon.

22 Q. All right. So we've been talking about the WPATH Standards  
23 of Care 8.

24 Did the Endocrine Society guidelines also make  
25 recommendations regarding the use of puberty blockers and

1 hormone therapy?

2 A. Yes, the Endocrine Society also says that puberty blockers  
3 shouldn't be used until the start of puberty, so no medical  
4 intervention until the start of puberty. They refer to the  
5 Dutch research in saying 16 for hormones, but also say they  
6 could be given at 13 or 14. This was an area of kind of  
7 increasing knowledge at that time in 2017 when the guidelines  
8 came out.

9 Q. I see. Do the Endocrine Society guidelines make any  
10 recommendations about surgery or surgical treatment?

11 A. Yes.

12 Q. And what is that recommendation?

13 A. They recommend -- they say chest surgery, particularly for  
14 transmasculine, youth can be done in adolescents, and genital  
15 surgery should be done at age 18 or later.

16 Q. So these guidelines, the Endocrine Society guidelines and  
17 WPATH, are they fairly consistent with one another?

18 A. Overall they're quite consistent. Again, there's -- they  
19 came out at different points in time, and so there are, you  
20 know, differences between Standards of Care 7, Endocrine Society  
21 guidelines, and Standards of Care 8.

22 Q. So under the WPATH Standards of Care and these guidelines,  
23 how can mental health professionals help patients who come to  
24 them because they have distress about their gender?

25 A. So -- actually, could you repeat the question?



1 Q. Yeah. So under the guidelines --

2 A. Uh-huh.

3 Q. -- we've been discussing, WPATH and Endocrine Society, how  
4 can mental health professionals help patients who come to them,  
5 you know, expressing distress about their gender identity?

6 A. Sure. So before puberty it's -- there's only  
7 psychotherapy, family support. There's no medications until  
8 then. Starting with the start of puberty, there could be an  
9 assessment for puberty blockers and later an assessment for  
10 hormones.

11 Q. Dr. Karasic, are you familiar with the term  
12 "gender-affirming therapy"?

13 A. Yes.

14 Q. What does that mean in your field?

15 A. So the gender-affirming label has now been put on both  
16 gender-affirming medical care and gender-affirming therapy. And  
17 so gender-affirming medical care basically refers to the  
18 provision of puberty blockers, hormones, surgery.

19 Gender-affirming therapy refers to a therapy that provides  
20 space for the patient to explore and understand their gender  
21 without any preconceptions of the therapist being placed in  
22 terms of where that should go.

23 Q. Is it the role of mental health professionals to actively  
24 encourage patients to pursue a transgender identity?

25 A. No.

1 Q. Would that active encouragement be something that's  
2 consistent with WPATH or the Endocrine Society guidelines?

3 A. No. As a matter of fact, WPATH's Standards of Care  
4 specifically says that the therapist should not impose their  
5 idea of where the patient should go in terms of their expression  
6 of their gender identity, that they should provide a supportive  
7 environment for the patient to kind of find their path.

8 Q. Under the WPATH Standards of Care and Endocrine Society  
9 guidelines, are medical interventions that -- gender-affirming  
10 care, is that appropriate for all patients who have gender  
11 dysphoria?

12 A. No.

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

16 A. Yes. So there are a separate set of recommendations for  
17 adolescents and a set of recommendations for adults.

18 And so do you want me to --

19 Q. That would be great. Thank you.

20 A. -- elaborate?

21 So for adolescents, there's a recommendation of a  
22 comprehensive biopsychosocial evaluation, preferably by a mental  
23 health professional. And they lay out some components of that  
24 evaluation that include gender identity development, social  
25 development, an evaluation for the presence of co-occurring

1 conditions, and the cognitive ability to assent to care with the  
2 parents' consent.

3 Q. Can you talk about those components a little bit more,  
4 starting with gender identity development?

5 A. Yes.

6 So -- so, again, these are adolescents, and they may have  
7 strong feelings or behavior related to their transgender  
8 identity. But there's a process of -- that could be putting  
9 words to it, that gaining an understanding as a child develops  
10 cognitively, and so kind of understanding that development to  
11 the point where they present to the clinician.

12 Q. And I think another component you mentioned was the social  
13 development?

14 A. Right. And so people's relationship and expression of  
15 their gender identity to family, peers, school, et cetera.

16 Q. And the assessment of possible co-occurring conditions, why  
17 do you do that? Why is that a component?

18 A. So there can be co-occurring conditions that can affect the  
19 assessment. For example, if someone has Autism Spectrum  
20 Disorder, they might have communication difficulties, and so one  
21 might need to do extra work on communication. One also might  
22 assess for depression, anxiety, suicidality that might be  
23 addressed either beforehand or concurrently with  
24 gender-affirming medical care. And that decision needs to be  
25 made by the clinician. So it's important to understand

1 co-occurring conditions and how they might affect the process of  
2 transition.

3 Q. And then I think the last component you mentioned related  
4 to cognitive functioning for the ability to assent or consent to  
5 care. Why is that important?

6 A. Well, even the parents' consent for care, but we'd  
7 certainly want to have assessment of the child's understanding  
8 of the risks and benefits as well and have that be a component  
9 along with -- for them to be able to assent along with the  
10 parents' consent.

11 Q. Are these same factors taken into consideration in the  
12 assessment of adults?

13 A. For the assessment of adults there is a separate set of  
14 criteria that includes the capacity to consent, that  
15 co-occurring mental health conditions that could affect the care  
16 have been assessed and the risks and benefits of providing  
17 treatment versus waiting to provide treatment are weighed in  
18 that assessment before treatment.

19 Q. So does Standards of Care 8 -- does it recognize that any  
20 common -- or does it cover, I should say, any common  
21 psychiatrist comorbidities in gender dysphoric patients?

22 A. I'm sorry?

23 Q. Yeah. No. Does the -- do the Standards of Care 8  
24 recognize whether some psychiatric comorbidities are common in  
25 gender dysphoric patients?

1 A. Oh, yes.

2 Q. And what are those common comorbidities?

3 A. So there is, as I mentioned, Autism Spectrum Disorder  
4 before. And there is a bigger overlap than one would expect  
5 just from the general population of people who have Autism  
6 Spectrum Disorder and gender dysphoria. It's not known why that  
7 is. And, in addition, there are many people with gender  
8 dysphoria who have anxiety, depression, suicidality, self-harm.

9 And so those are important things to ask and take into  
10 consideration if they are present.

11 Q. So I heard you mention Autism Spectrum Disorder. Set that  
12 aside for just a second.

13 Just talking about the other common comorbidities, is there  
14 any understanding of why these co-occurring mental health issues  
15 are common among patients with gender dysphoria?

16 A. Yes. I think you can put things in two categories.

17 One is minority stress, the difficulty of living in society  
18 or even with family where a person might be subject to  
19 discrimination or even just kind of the negative descriptions  
20 that are associated with being transgender that are so deeply  
21 engrained in society.

22 And then there's also the distress of gender dysphoria  
23 itself. And so people -- that distress can be very strong, and  
24 people can have depression, anxiety, self-harm, suicidality  
25 related to that distress of having gender dysphoria.

1 Q. So turning back to Autism Spectrum Disorder, does the WPATH  
2 Standards of Care -- do they say anything about that  
3 specifically, the co-occurring disorder?

4 A. Yes. They say that clinicians, and particularly in the  
5 adolescent chapter, should be familiar with Autism Spectrum  
6 Disorder and working with young people who have Autism Spectrum  
7 Disorder and to take that into account in their evaluation.

8 A big part of the symptomology of Autism Spectrum Disorder  
9 is problems with communication or social communication, and so  
10 that's something that has to be taken into account in terms of  
11 doing the evaluation and ongoing work with the patient.

12 Q. Is it possible for an individual to be both transgender and  
13 neurodiverse?

14 A. Yes.

15 Q. Does autism spectrum disorder affect an individual's  
16 ability to understand their gender identity?

17 A. No.

18 Q. Does it impact an individual's -- an individual diagnosed  
19 with autism, does it impact their ability to assent to care?

20 A. No. I mean, it impacts it in a sense in that -- well, it's  
21 called Autism Spectrum Disorder because there is this extremely  
22 wide range of symptoms. And there is kind of a small number of  
23 people who are really so kind of profoundly impaired maybe in  
24 terms of communication that it might affect the process in terms  
25 of, you know, understanding what they want, and communicating is

1 a benefit, et cetera. And so there may be extra kind of work  
2 involved in terms of figuring all those things out in people who  
3 are more impaired.

4 There are also a large number of very highly functioning  
5 people with Autism Spectrum Disorder where there really isn't an  
6 impairment in terms of being able to transition.

7 Q. Does anxiety affect an individual's understanding of their  
8 gender identity?

9 A. No.

10 Q. How about depression?

11 A. No.

12 Q. Difficult circumstances in their home life?

13 A. No.

14 Q. Self-harm?

15 A. No.

16 Q. How do you respond to the assertion that gender dysphoria  
17 is a type of body dysmorphic disorder and, thus, should be  
18 treated with psychotherapy?

19 A. So body dysmorphic disorder is a separate DSM diagnosis,  
20 something more akin to OCD, where somebody has obsessive  
21 thoughts about their appearance in particular. And it's really  
22 an entirely different thing than gender dysphoria.

23 Q. The treatment of the other conditions that we've been  
24 discussing, would that resolve a person's gender dysphoria?

25 A. No.

1 Q. How does a medical -- how does medical treatment,  
2 gender-affirming medical interventions for a person's gender  
3 dysphoria, impact a person's co-occurring mental health  
4 disorder?

5 A. So doing anything, including making change, can be very  
6 difficult if you're depressed or anxious. And, in addition,  
7 there are many transgender people with suicidal ideation or  
8 suicide risk or who do self-harm. And so whether you're  
9 cisgender or transgender, whatever your gender identity is, it's  
10 important to address those things. When somebody maybe has some  
11 additional stressors of being transgender or of transition, it  
12 might be particularly important to have them be feeling as good  
13 as they can be while they go through that process.

14 Q. And that impact of the medical treatment on a person with  
15 gender dysphoria, do you have any examples from the patients  
16 that you've treated about how that's assisted with their mental  
17 health condition?

18 A. You said the impact of treatment of gender dysphoria on  
19 their mental health?

20 Q. The impact of any of the gender-affirming medical  
21 interventions.

22 A. Yes.

23 So I've been doing this work for a long time, and that  
24 included when at UCFS Alliance Health Project, where I've been  
25 for a long time, where our patients with Medicaid were finally,



1 you know, able to get their surgeries paid for, many other  
2 circumstances where people haven't been able to get care and  
3 then were able to get care, and as well as just kind of along  
4 the way of patients who at some point get gender-affirming care,  
5 and it's always remarkable to me the profound impact it makes on  
6 so many patients in terms of their mental health.

7 Q. So that's your clinical experience?

8 A. Yes.

9 Q. Does that accord with the scientific literature?

10 A. Yes. There are -- have been many papers over the decades  
11 showing benefit from gender-affirming medical care. Some of  
12 them are listed in the Cornell, what we know document that --  
13 that I listed in my declaration from the early 1990s to 2017  
14 when that came out.

15 But there are also many published peer-reviewed systematic  
16 reviews and reports and clinical series and surveys that people  
17 take that support the benefit that people have gotten from  
18 gender-affirming medical care.

19 Q. And just to touch on terminology very briefly, what is a  
20 systematic review generally?

21 A. A systematic review is when one looks at the result of  
22 multiple studies in a systematic way to try to answer a question  
23 using not just one study, but a larger body of literature.

24 Q. Thank you.

25 THE COURT: Before we move on, let me just try to

1 clear up one thing in the record.

2           You said two or three questions ago that when somebody  
3 hadn't gotten care and then did, it was remarkable to you what a  
4 profound impact it had on their mental health.

5           THE WITNESS: Yes.

6           THE COURT: I don't think you said whether it was  
7 favorable or unfavorable.

8           THE WITNESS: Oh, favorable, yeah.

9           Yes. Thank you.

10           I have patients who had tremendous improvement. And,  
11 you know, I mention that when in 2013, in San Francisco when  
12 people were finally able, sometimes who had waited -- people  
13 with Medicaid who had waited for years, decades, and were  
14 finally able to have the surgery paid for that they needed and  
15 just watching the positive impact that that made in people's  
16 lives, as well as, you know, other -- in other ways, but that  
17 was one place where it was particularly notable to me.

18 BY MS. DeBRIERE:

19 Q. What should be done in the event a patient has other mental  
20 health conditions?

21 A. So if someone has other mental health conditions, we should  
22 try to treat them as standards of care. Standards of Care 8 for  
23 adolescents says they should be addressed. For adults it says  
24 they should be assessed with risks and benefits weighed.

25           And so -- and I was -- in the mental health chapter that I

1 was chapter lead of, we say that it is important to evaluate  
2 these co-occurring conditions, but that doesn't necessarily mean  
3 a halt to providing care. It just gives us information that we  
4 need as clinicians to know best how to help people. And often  
5 that could be treating the co-occurring condition and providing  
6 gender-affirming care together. And it's a matter of kind of  
7 weighing the risks and benefits of one versus another.

8 Q. AHCA and its consultants have suggested that psychotherapy  
9 alone is sufficient to address gender dysphoria.

10 What's your response to that?

11 A. So in those patients who need gender-affirming medical and  
12 surgical care, people who have a lot of distress about their  
13 body that isn't going away, psychotherapy doesn't help that.

14 Q. What does help that?

15 A. Gender-affirming medical and surgical care.

16 Q. Do clinicians provide care at the demand of patients or  
17 their families?

18 A. I'm sorry, what?

19 Q. Do clinicians typically provide care at the demand of their  
20 patients or families of the patients?

21 A. So for any kind of care a clinician makes an evaluation  
22 based on their clinical judgment; they make a diagnosis; they  
23 come up with a treatment plan based on risks and benefits and  
24 make a recommendation to patients. But you can't cut the  
25 clinician out of that. They're really, you know, central to,

1 you know, diagnosing and making the decision to provide care.

2 Q. What does the term "informed consent" mean?

3 A. So informed consent is an agreement that a patient makes or  
4 a patient's parents and the patient might make with a provider,  
5 weighing the risks, benefits and alternatives of a procedure.

6 Q. Is there anything in the WPATH Standards of Care that  
7 address informed consent prior to initiating the medical  
8 interventions for gender dysphoria?

9 A. Yes. People have to have capacity for informed consent and  
10 should be advised of the risk/benefits alternatives to  
11 treatment.

12 Q. Is that true for adults and minors?

13 A. Yes.

14 Q. What's the process for minors?

15 A. So for -- for informed consent for minors, it's a process  
16 that very closely involves the parents or guardian, because  
17 they're the ones who are actually providing the informed  
18 consent. The patient also is assenting, and so they're, of  
19 course, involved, and they are central to -- you know, to what  
20 care is provided. And then in the adolescent chapter, there is  
21 an assessment by the clinician that the person -- the young  
22 person has the cognitive maturity for that procedure, and it's  
23 appropriate for them.

24 Q. What do the guidelines say about informing patients and  
25 their families about possible risks to fertility related to the

1 medical interventions?

2 A. So both in the Standards of Care, Version 8, adolescent  
3 chapter and adult chapter, one of the requirements is that there  
4 be discussion of fertility and fertility preservation.

5 Q. And are there any recommendations about informing patients  
6 and/or their families about what to do if those patients may  
7 come to feel over time that care is not a good fit for them?

8 A. Sure. So with the exception of the histrelin implant that  
9 can -- you know, that would have to be removed, that people  
10 can -- would have them in for months, each of these treatments  
11 requires either daily pills or injections that are over  
12 relatively short periods of time.

13 And, you know, anytime if a patient or, in the -- in the  
14 case of adolescents, the parents decide not to -- you know, to  
15 continue with treatment, then it -- you know, treatment can be  
16 terminated.

17 So it's a dynamic process, and there is mention in  
18 Standards of Care, the adolescent chapter, about the clinician  
19 remaining involved not just at the start of treatment, but  
20 throughout the process until -- in the case of adolescents,  
21 until they reach 18.

22 Q. And I know you just mentioned an implant, too. Is that  
23 something that could be removed?

24 A. Yes, and it can be removed.

25 Q. What's your reaction to the assertion that doctors who

1 provide gender-affirming medical care have an informed consent  
2 process that's perfunctory?

3 A. It's not true. I don't think there is anywhere in medicine  
4 that -- where more attention is paid to the assessment and  
5 providing -- making sure that people have adequate information  
6 and that lay out a process in that -- in that same way where  
7 you're having, you know, someone do the assessment, you know,  
8 typically aside from the surgeon that's doing their own, you  
9 know, provision of informed consent. I think it's a more  
10 stringent process than, really, elsewhere in medicine and  
11 surgery.

12 Q. In your practice as a psychiatrist, other than treating  
13 individuals with gender dysphoria, are there other areas where  
14 you require informed consent for treatment?

15 A. Yes, for -- every treatment requires informed consent.

16 Q. Okay. I'm going to show you tables contained in WPATH  
17 Standards of Care 8.

18 MS. DeBRIERE: Which, Your Honor, is marked as  
19 Defendants' Exhibit 16, which is on the stipulated exhibits  
20 list.

21 BY MS. DeBRIERE:

22 Q. And I'm just going to ask you to read these provisions,  
23 Doctor, starting with the chapter on adolescents.

24 What chapter is that?

25 A. VI.

1 THE COURT: Dr. Karasic, if you're going to read  
2 these, one of the things I try to tell people when you start  
3 reading, read it slower than you can read it, because we all  
4 need to understand it, and the court reporter needs to take it  
5 down.

6 THE WITNESS: Okay. I will. Thank you.

7 BY MS. DeBRIERE:

8 Q. Dr. Karasic, I can zoom in on that if needed.

9 A. I think I'm okay.

10 Q. Okay.

11 A. So these are the Statement of Recommendations as part of  
12 Chapter VI of the adolescent chapter of Standards of Care,  
13 Version 8. It kind of summarizes the recommendations that are  
14 made.

15 Do you want me to read all of it?

16 Q. Yes, please. And just before you start, I do want to note  
17 it's on page S48 and it's in Bates stamp Dekker FL\_ WPATH\_34.

18 THE COURT: You really want him to read this whole  
19 single page?

20 MS. DeBRIERE: Your Honor, my understanding is that if  
21 he reads it into the record, then it can be used, not just -- it  
22 can be used as evidence.

23 THE COURT: It can be used as evidence already. It's  
24 already been admitted into the record by situation at the  
25 beginning, so it's part of the record.

1 MS. DeBRIERE: So, Your Honor, my cocounsel is  
2 advising me that part of that stipulation included an objection  
3 to this particular exhibit.

4 THE COURT: What's the objection?

5 MS. DeBRIERE: Objection preservation.

6 MR. JAZIL: Your Honor, we had the motion in limine  
7 that we filed and the Court denied related to the reliance on  
8 WPATH and Endocrine Society, but this is our exhibit. We  
9 said --

10 THE COURT: The objection is -- even though they've  
11 got a witness who says this is a standard followed by  
12 practitioners all over the country, you don't think it's true,  
13 so you object to it?

14 MR. JAZIL: No, Your Honor. What I'm saying is we  
15 objected. We lost the motion, so this is in evidence --

16 THE COURT: Right.

17 MR. JAZIL: -- by stipulation of the parties.

18 THE COURT: And just so I'll understand the  
19 objection -- and, frankly, I can't fathom what the objection  
20 would be. So explain to me how it is that when we have a  
21 well-qualified expert who says this is the standard followed by  
22 practitioners around the country -- what is objectionable about  
23 that? The basis of the objection is? Explain it to me.

24 MR. JAZIL: Your Honor, we don't have an objection to  
25 the use of this document.



1           THE COURT: Well, when I ask the substantive basis of  
2 an objection and you can't even answer the question, it tells  
3 me -- I mean, I wonder why the objection was made. But I don't  
4 know if we'll make much progress with that, but just for future  
5 reference, when you make an objection and you can't even explain  
6 it, maybe you shouldn't have made the objection.

7           I understand you disagree with these standards, and I  
8 don't fault you that position at all. That's part of the case.  
9 But the assertion that they can't even be admitted into evidence  
10 strikes me as just a nonstarter. We don't need to go any  
11 further with that.

12           This is in evidence. I've overruled any objection,  
13 whatever the basis of it is, and so there is no need to read it  
14 into the record. The document is there.

15           MS. DeBRIERE: Thank you, Your Honor. I'll continue  
16 with questioning.

17 BY MS. DeBRIERE:

18 Q. Dr. Karasic, I'd like to turn to your clinical experience a  
19 bit. You've spoken about a patient you treated who received  
20 gender-affirming medical interventions that have been banned by  
21 the defendants' rule.

22           Does that treatment -- I know you mentioned surgeries.  
23 Does it also include puberty-delaying medications?

24 A. Yes.

25 Q. Does it include hormone therapy?

1 A. Yes.

2 Q. Is that for adolescents and adults?

3 A. Yes.

4 Q. Okay. Could you just talk a little bit more about, for  
5 those patient who have received this gender-affirming medical  
6 care, how it's impacted them?

7 A. Sure. Do you want me to give specific examples?

8 Q. Whatever you want to talk about.

9 A. Okay. So more generally, I see an impact that -- in those  
10 people who need -- who have persistent and marked gender  
11 dysphoria, to use the wording in Standards of Care 8, who have a  
12 *DSM-5* gender dysphoria diagnosis more than six months' duration,  
13 social and occupational impairment, clinically significant  
14 distress, who have marked distress about their bodies in  
15 particular, that gender-affirming care that helps make their  
16 body more congruent or, in the case of puberty blockers, at  
17 least kind of freezes the process, it's tremendously beneficial  
18 to my patients. And often that kind of order of benefit is much  
19 greater than, let's say, the antidepressant that I'm giving for  
20 someone who has major depressive disorder or panic disorder as  
21 well as gender dysphoria.

22 Q. Why is it as a psychiatrist most of your patients have  
23 co-occurring mental health conditions?

24 A. Because that's what we do as psychiatrists. If someone is  
25 transgender and they don't have a co-occurring mental health

1 condition, they're less likely to see me and would be more  
2 likely to see a mental health professional who isn't able to  
3 prescribe, for example. So I tend to see people -- my practice  
4 tends to be people who have gender dysphoria and also have major  
5 depressive disorder, or panic disorder, or other psychiatric  
6 illness.

7 Q. How do you know the benefits experienced by your patients  
8 is not just the result of your therapy, prescribed medications  
9 that you're providing, instead of the gender-affirming medical  
10 interventions?

11 A. So I've been doing this work for a really long time, and I  
12 have patients who do get psychotherapy and gender-affirming  
13 medical care simultaneously and get better. And one could  
14 argue, Why are they better?

15 But I also have many patients who have not been able to  
16 access care and have had a lot of mental health -- who needed  
17 the care who have had a lot of mental health interventions,  
18 medications, psychotherapy without improving, and then did  
19 improve if they were able to access gender-affirming care.

20 So there's often a temporal difference between when people  
21 might be treated or start treatment for the co-occurring  
22 condition and when they get gender-affirming medical or surgical  
23 care.

24 So to give you an example, I just the -- the last couple  
25 weeks ago I had a patient who was diagnosed in adolescence with

1 bipolar disorder and eventually was put on an effective drug for  
2 bipolar disorder. I saw this patient several years -- several  
3 years after that. They had been actually on that medication for  
4 a decade. And they said that that medicine really stabilized  
5 their mood, but it wasn't until a year and a half ago when he  
6 started on testosterone that his suicidal ideation finally went  
7 away.

8 Q. Have you been able to see the impact of gender-affirming  
9 medical interventions in patients over a course of time?

10 A. Yes. So I've had dozens of patients that I've seen for  
11 ten years or longer. I was at UCFS for 30 years. I still see  
12 patients in -- after I -- I semiretired from UCFS in 2020 and  
13 have been doing private practice with a chunk of my time since  
14 then. So, anyway, I've been around doing this work for a long  
15 time, and so I -- you know, that includes seeing some patients  
16 over many years and seeing continuing benefits of -- you know,  
17 of treatment.

18 Q. And when you say "treatment," what are you referencing?

19 A. Oh, of gender-affirming medical or surgical care.

20 Q. If a patient continues to experience a co-occurring mental  
21 health condition, does that mean gender-affirming care was not  
22 effective at treating their -- and I should say gender-affirming  
23 medical care was not effective at treating their gender  
24 dysphoria?

25 A. No, people can get relief from gender dysphoria but still

1 have the co-occurring conditions. People who are not  
2 transgender have chronic depression and anxiety, and people --  
3 some transgender people have, for example, PTSD that they  
4 experience as a result of trauma related to being transgender,  
5 but even when they have the bodily changes that reduce gender  
6 dysphoria, they still have that experience that has, you know,  
7 caused the PTSD symptoms. So it's not unusual for other  
8 symptoms to persist.

9 Q. And you testified a bit earlier about speaking with  
10 clinicians around the country.

11 So are you familiar with the clinical experience of others  
12 in the field?

13 A. Yes. So, you know, I'm teaching and training a large  
14 number, in the thousands -- at least a couple thousand folks  
15 with the WPATH training initiative for -- for clinicians working  
16 with trans people, teaching at UCFS, giving visiting lectures.

17 So I interface with a lot of other providers at the APA,  
18 and I am struck by, you know, the community of healthcare  
19 providers taking care of transgender people's, you know, firm  
20 belief that gender-affirming medical care helps their patients,  
21 often tremendously.

22 Q. Do you have experience reviewing treatment recommended --  
23 excuse me. Let me start again.

24 Do you have experience reviewing treatment recommendations  
25 for individuals that are not your patients to determine whether

1 those treatment recommendations are medically necessary?

2 A. Yes. So I'm a consultant for Maximus, and Maximus in a  
3 number of states and for the federal government makes  
4 determinations of medical necessity. So when, particularly, if,  
5 in the state of California, there's a question of medical  
6 necessity and it's appealed to the State Department of Managed  
7 Health Care or the State Department of Insurance, they contact  
8 Maximus. And specifically for transgender people, I'll often be  
9 the person doing the independent medical review of whether the  
10 care was medically necessary or not.

11 Q. What kind of care are you reviewing?

12 A. So these are medical -- well, typically surgical  
13 procedures. Occasionally they've been for puberty blockers, for  
14 example, but the great majority of them are transgender people  
15 who are requesting surgery from their insurance and then  
16 receiving a denial.

17 Q. And you mentioned the process in California, how it gets to  
18 Maximus, but are your cases limited to only cases in  
19 California -- people in California?

20 A. So predominantly I see California cases. Sometimes Maximus  
21 has asked me to consult with them in making determinations in  
22 other states.

23 Q. And how many cases have you reviewed?

24 A. When -- the old system that Maximus used to have had, like,  
25 a running count number, and so as of a couple of years ago, I

1 had seen 110, and then there are those that I've seen in the  
2 last couple of years.

3 Q. Can you estimate for us what that number might be?

4 A. The number has -- it's certainly over 110. It's more of a  
5 trickle now, because in the early days, there were just a lot of  
6 insurance policies that weren't as refined, I guess. In the  
7 earlier days -- I'm talking about since California in 2013  
8 started requiring insurance to pay for gender-affirming care.  
9 So it's been a process, and now I see fewer of them, but they  
10 are more difficult cases.

11 Q. Okay. Okay.

12 A. But it's certainly -- I don't know if that means there's  
13 now 150. I don't know. It's well over the -- it was 110 two  
14 years ago. I don't have a count anymore, but I still do them.  
15 You know, I still get the cases. I've had a few in recent  
16 weeks.

17 Q. Does Maximus provide you with any instructions in terms of  
18 reviewing the cases for medical necessity?

19 A. Yes. So they give us a State definition of medical  
20 necessity, and they say that our answers have to -- that we have  
21 to provide literature citations in our justification for our  
22 decision. And one of those literature citations has to be WPATH  
23 Standards of Care.

24 And I know one time I put in these really good articles  
25 because it was kind of a specific issue, and I didn't list a

1 Standards of Care citation, and I was contacted by Maximus  
2 saying, you know, you have to -- that they look -- their kind of  
3 overruling kind of source of what's medically necessary in  
4 transgender care is Standards of Care. And I had to include a  
5 Standards of Care citation among the others.

6 Q. So given your decades of experience treating people with  
7 gender dysphoria, in your expert opinion, how will AHCA's  
8 elimination of Medicaid coverage for gender-affirming care  
9 impact the beneficiaries being denied access to that care?

10 A. I think it's going to do tremendous harm to a lot of  
11 people.

12 Q. What about patients who haven't yet started care but for  
13 whom it's been recommended? Do you have any concerns about  
14 them?

15 A. Yes. I'm concerned that they are going to suffer  
16 needlessly.

17 Q. Can you talk about experience with patients who were forced  
18 to detransition and other situations you mentioned, like, for  
19 example, unsupportive families?

20 A. Yes. So I have -- I had a patient recently who started on  
21 puberty blockers at age 11 and then later was started on  
22 gender-affirming hormones. This was someone assigned male at  
23 birth, also had Autism Spectrum Disorder. The parents had read  
24 some of the things that are out there about concern for people  
25 with autism, and that transgender identity could just desist,



1 and they stopped treatment. They told the therapist that they  
2 are going to cross their fingers that their child will just be  
3 gay.

4 And I started -- and this patient from that time on was on  
5 psychiatric medications, not provided by me, from another  
6 psychiatrist. I wasn't involved in the care at that time when  
7 she stopped. And was on antidepressants, which didn't work very  
8 well, and really struggled.

9 And I started seeing the patient at age 18. They were  
10 still having tremendous struggles with depression and anxiety.  
11 At age 18 they started gender-affirming care. Not that long  
12 after, they socially transitioned. They had just started off in  
13 university, and they are doing tremendously well in school.  
14 She's doing tremendously well in school. She's not depressed  
15 anymore. I am available to see her if she needs to be seen, but  
16 I've stopped seeing her because her depression has resolved and  
17 she doesn't feel a need to see me anymore because she's feeling  
18 so well.

19 Q. Okay. Let's touch base quickly --

20 A. I would just say that she still has regret and anger even,  
21 and she loves her parents, but that they made this decision to  
22 stop her care. Because she is now -- her parents are paying for  
23 facial feminization surgery. But she's having to go through a  
24 lot in terms of really wanting to not always be identified as  
25 trans, basically, post-transition. And those are things, had

1 the family stayed the course, she wouldn't have had to go  
2 through. And so she -- she still has a lot of anger at what  
3 happened, but she is happy that now she's able to -- you know,  
4 to live her life as, you know -- as, you know, she desires.

5 Q. I'm going to switch gears about research, which is  
6 something that you've both done --

7 THE COURT: Why -- before we switch the gears --

8 MS. DeBRIERE: Yes.

9 THE COURT: -- let's take a morning break. Let's take  
10 15 minutes. Let's start back at five after 11:00 by that clock.

11 (Recess taken at 10:51 AM.)

12 (Resumed at 11:05 AM.)

13 THE COURT: Dr. Karasic, you are still under oath.

14 Ms. DeBriere, you may proceed.

15 MS. DeBRIERE: Thank you, Your Honor.

16 BY MS. DeBRIERE:

17 Q. Dr. Karasic, just before the break, we were going to  
18 talk -- I was going to touch a bit on research in your  
19 experience reviewing the scientific literature related to  
20 gender-affirming medical care.

21 In assessing that literature, how does it compare to your  
22 clinical experience?

23 A. Sure.

24 So there are many publications over the years, publications  
25 over even the last 60 years that have shown benefits from

1 gender-affirming care. And that is -- you know, goes along with  
2 my clinical experience that people have benefited.

3 Q. Are there limitations in that research that you've just  
4 described?

5 A. Yes.

6 So it really isn't possible or ethical to do a randomized  
7 control trial of whether or not to give a child a puberty  
8 blocker who is having gender dysphoria, or start giving someone  
9 hormones or not giving hormones, or randomizing one person to  
10 vaginoplasty and another person to a sham surgery. None of  
11 those things are things that, you know, are ever going to be  
12 done.

13 Already by the time it was established that puberty  
14 blockers and hormones were beneficial to transgender people, it  
15 was known that puberty blockers stopped puberty and that  
16 feminizing and masculinizing hormones have those physical  
17 effects on whoever they're given to.

18 Q. I think you inferred it, but tell me why it's not ethical  
19 to do a randomized controlled trial regarding these particular  
20 medical interventions.

21 A. So there is both ethical and practical reasons, but when we  
22 know that -- we already know that if someone is at the start of  
23 puberty and you give a puberty blocker, that it will stop their  
24 puberty. It was established with precocious puberty. The --  
25 you know, it's very clear from the Dutch data, which is the

1 early data on puberty blockers for gender dysphoria and onward,  
2 that puberty blockers do stop puberty; that if you are assigned  
3 male at birth and you take estrogen, that you'll feminize; if  
4 you are assigned female at birth and you take testosterone, then  
5 you will masculinize. There is no scientific question there.

6 The question is really, you know, that continues to be  
7 explored is what are the benefits outside of that to people's  
8 quality of life for mental health?

9 But you couldn't even practically do a study if somebody --  
10 let's say somebody is assigned female at birth; they were --  
11 they had gender dysphoria; they were seeking testosterone to  
12 masculinize. You couldn't even do anything in a blinded way  
13 because very shortly the person getting -- a person would know  
14 whether they got testosterone or didn't; but also that if  
15 they're somebody already seeking masculinization, we know that  
16 that will be provided.

17 The kind of controversy in the literature has been -- or  
18 not among the providers of gender-affirming care and not among  
19 the major medical or mental health organizations, but kind of  
20 the challenge has been when -- when opponents of  
21 gender-affirming care point out, rightly, that there are no  
22 randomized controlled trials, that when you do a systematic  
23 review according to the grade criteria that's used to score  
24 systematic reviews, that the gender-affirming -- so that grade  
25 criteria ranks the strength of the certainty of the

1 recommendation for that intervention, and there's not going to  
2 be a high certainty in the systematic review when you don't  
3 have -- when you don't have randomized controlled trials.

4 But also -- so the grade criteria have been -- are being  
5 used in kind of a peculiar way when they're being used to stop  
6 the provision of gender-affirming care. If you look at the  
7 broader literature -- for example, there was a review of all  
8 systematic reviews published in 2016 by Fleming in the *Journal*  
9 *of Clinical Epidemiology*, where, if you look -- they took from  
10 Cochrane Database, which is a collective database of all of the  
11 systematic reviews, and they did it for a year and a half  
12 period. So they looked at systematic reviews from medical  
13 interventions from all sorts.

14 And they found that there was a high degree of certainty to  
15 support the provision of care only 13 and a half percent of the  
16 time. And if you looked at the provision of care where you --  
17 if you looked at when there was a high certainty, if there was a  
18 high certainty and a significant outcome, and there were a  
19 favorable response as kind of assessed by a panel, that only  
20 4 percent of all of the systematic reviews showed a high  
21 certainty of making that -- making a recommendation for that  
22 outcome.

23 Q. This is all medical intervention, it's not just --

24 A. This was all -- every published systematic review in an  
25 18-month period.

1           And so only 4 percent really met that highest standard.

2           And -- but in this case, you know, in terms -- people are using  
3           that grade criteria and systematic reviews to try to stop care.

4           The same year there was a publication in the same journal,  
5           *Journal at Clinical Epidemiology*, by Movsisyan, et al. -- it was  
6           a team at Oxford University in England -- where they divided the  
7           reviews into a simple intervention versus a complex intervention

8           And so to give you an example in gender-affirming care, a  
9           simple intervention would be if you took someone assigned female  
10          at birth right at the start of puberty, and you gave that person  
11          a puberty blocker, and you measured breast bud development to  
12          see whether that would -- whether the breasts were continuing to  
13          increase or not. That would be simple: You'd give a drug;  
14          there is something you can measure, you know, is it growing or  
15          not.

16          But these -- these systematic reviews and with the  
17          research, we are not arguing about that. Everyone knows and,  
18          you know, it was being put forward precocious puberty research  
19          with Dutch data, et cetera, in that case that puberty blockers  
20          stop puberty. But what we are looking at is that puberty is  
21          stopped and that -- and perhaps then people get gender-affirming  
22          hormones and progress in terms of their transition.

23          But then you have an outcome where people have -- are  
24          basically happier, that they're -- the quality of life improves,  
25          their mental health improves. And that is from -- this

1 Movsisyan is really a complex intervention because of the  
2 complex result.

3       There's also a complex intervention in terms of that there  
4 are multiple factors of social transition and puberty blockers  
5 and hormones. But what you have very clearly is what they would  
6 define and they kind of charted out as a complex intervention.

7       So when you look at all of the systematic reviews of any  
8 medical intervention in the time span that they looked in the  
9 Cochrane Database, there were no interventions that had a high  
10 certainty of recommendation. And the most common systematic  
11 review result for a complex intervention was a very low  
12 certainty.

13       And they suggest that the grade criteria might -- kind of  
14 might not be the best way of measuring, since all of these  
15 complex interventions don't meet a high standard.

16       So grade -- I mean, WPATH Standards of Care 8, we use --  
17 you know, we did a systematic review with John Hopkins. They  
18 used grade; it's not an objection to grade, it's just  
19 understanding that there are limitations to grade. And when you  
20 have the kind of interventions that we do, grade wasn't meant to  
21 deny people care, it was meant as a tool to try to kind of  
22 understand the result from the systematic review.

23       And so -- but when it's used that way, when it's said that  
24 the systematic reviews are not showing a high certainty of  
25 result, while that's the case for every complex intervention and

1 there's -- no matter how much research ever gets done, there is  
2 never going to be a high -- even if -- probably if someday  
3 somebody did, you know, a randomized controlled trial, which  
4 really can't happen. But there is never going to be a high  
5 certainty from a systematic review.

6 And so, you know, grade should be used for what, you know,  
7 it's used for, but it's not a reason to say, you know, that a  
8 particular kind of care shouldn't be supported. Otherwise, we  
9 in health care should stop doing complex interventions for any  
10 health care issue and only do interventions that have a simple  
11 intervention and a simple measured response.

12 Q. And do those Standards of Care 8 -- do they discuss any of  
13 the limitations in research?

14 A. Yes.

15 And so, as I said, Standards of Care 8 did commission  
16 systematic reviews of the literature. While there is another  
17 place where they talk about limitations in the literature that  
18 in giving informed consent to the parents of young people, you  
19 know, expressing that there are limitations to the research --  
20 you know, because there are limitations to the research, and I  
21 think it's -- you know, it's important to give people, you know,  
22 kind of a best sense of what that is.

23 But there's also a ton of research, and it's been going on  
24 for decades and decades and decades. And people in all kinds of  
25 political climates and social climates have been providing this



1 care.

2 So I trained at UCLA in psychiatry, and my first mentor in  
3 transgender care was Bob Stoller who coined the term "gender  
4 identity" and started in, like, 1963 the gender identity  
5 research clinic at UCLA. And he had a patient come to him in  
6 1958, and even though he's a psychoanalyst, he came to the  
7 conclusion that for people who needed gender-affirming medical  
8 care, psychoanalysis was not going to cut it, that they needed  
9 medical and surgical interventions.

10 And they at UCLA did their first vaginoplasty on a woman in  
11 1959. And then through the 1960s and '70s, you had gender  
12 clinics all around the U.S. You had a backlash towards  
13 providing gender-affirming medical and surgical care, and those  
14 programs shut down. And in 1981, the federal government stopped  
15 funding care under Medicare.

16 And there was a long quiescent period, essentially, where  
17 the academic centers for gender care shut down in the U.S. You  
18 couldn't get funding for research.

19 I tried -- in my -- I was in, you know, kind of that age  
20 period where I did research having to do with treating  
21 depression and HIV. But, you know, I met with people in the San  
22 Francisco Department of Public Health and tried to do research  
23 on the mental health effects of gender-affirming medical care,  
24 and, you know, was basically told, It's impossible. The federal  
25 government is not funding this.

1           And, you know, we finally had, you know, a sea change in  
2 the 2010s in terms of funding. But, you know, we've kind of --  
3 anyway, we've been through all this before. But even then you  
4 have a study I cited from University of Virginia in my  
5 declaration where they tried to find the people at University of  
6 Virginia's gender program from the 1970s. And they found -- I  
7 don't know. It was -- maybe it was 15 of them 40 years later  
8 and found that they had continued to benefit from  
9 gender-affirming medical care over those four decades that there  
10 was no one to follow up with them because the program had been  
11 shut down.

12           So, you know, we know that these people are getting better,  
13 and there's a lot of evidence for that in the literature.

14           There are weaknesses to that literature as well. You know,  
15 it's certainly something that we acknowledge and take into  
16 account. But, you know, that's all known by the various  
17 committees at the American Medical Association, the American  
18 Psychiatric Association. I was on the Work Group on Gender  
19 Dysphoria, you know, some experts from the American Psychiatric  
20 Association discussing the research and weighing things,  
21 et cetera. And, you know -- but when you put all the pieces  
22 together, it's -- it's very clear that gender-affirming medical  
23 care is an effective powerful intervention. And that's why all  
24 these professional organizations that -- you know, mainstream  
25 organizations that reflect the kind of bulk of American medical

1 and health providers support that care.

2 Q. When you were testifying, Dr. Karasic, you did mention  
3 something about limitations in informed consent. I think  
4 there's a discussion of limitations in the research during the  
5 informed consent process --

6 A. Yes.

7 Q. -- is that correct?

8 A. Yes.

9 Q. Okay. Okay.

10 A. It's important when you give informed consent that you lay  
11 everything out there for people. People should, you know, go  
12 into getting care with eyes open.

13 Q. And you also just mentioned the major medical and mental  
14 health professional organizations that we've been discussing,  
15 the AMA, the APA, the APAA, AAP, et cetera. Some of the State's  
16 experts have asserted that those organizations have taken a  
17 position on gender-affirming medical care based on ideology  
18 rather than science. What's your response to that?

19 A. So each of those organizations, they are membership  
20 organizations with thousands -- tens of thousands of members.  
21 Those members elect representatives that discuss issues and come  
22 up with position papers. I can say specifically the process  
23 within the American Psychiatric Association.

24 So we have -- we elect members of the APA Assembly, as well  
25 as the APA -- American Psychiatric Association Board of

1 Trustees. The Assembly represents each, kind of, small body of  
2 psychiatric societies around the country, and they meet, and  
3 they come up with position papers and debate them. And if  
4 they're approved, then they go to the Board of Trustees, and the  
5 Board of Trustees approves them. Each -- all -- you know, at  
6 each level those are elected by the membership in annual  
7 elections.

8 And there's even a provision within the APA where if people  
9 don't like a decision that's made by the leadership that they  
10 can petition for a vote. I'm aware of that only happening once  
11 at the APA, which was in 1973, the APA removed homosexuality  
12 from the DSM, and there were opponents of that who petitioned  
13 for a vote, and then the whole membership voted, and they  
14 supported the Board of Trustees' decision to take homosexuality  
15 out of the *DSM*.

16 So these organizations are large membership organizations  
17 that are representing their constituency. If the constituencies  
18 don't agree, they do have the opportunity to -- you know, to  
19 change those positions.

20 Q. Is advocacy a normal part of those organizations? Is that  
21 a part of what they do in those organizations?

22 A. So each organization has as part of its mission to create  
23 policy or position papers that are based on its clinical  
24 knowledge. So there are kind of papers that compile clinical  
25 knowledge of treating a certain condition or -- and sometimes

1 there is an aspect of -- of having an opinion on something that  
2 is an issue in society, but it always goes back to the clinical  
3 expertise.

4 What that organization brings is they have, you know,  
5 clinical expertise in psychiatry, or pediatrics, or whatever  
6 they bring to that opinion, and each of those organizations  
7 does -- even though, you know, they are this -- a membership of  
8 professional organizations, they do make policy statements that,  
9 you know, are broadcast to the society at large.

10 Q. Is that abnormal?

11 A. No. It's what every organization does.

12 Q. If I can talk just briefly about WPATH.

13 Does WPATH's -- you know, membership of these medical and  
14 mental health organizations, talking about WPATH's membership,  
15 does that include any nonprofessional members of your community?

16 A. So WPATH has two categories of members. It has full  
17 members and associate members. Only the full members are voting  
18 members, and to be a voting member, you have to be a health  
19 professional, a health academic, or they've also accepted some  
20 legal experts in transgender health as part of those  
21 professionals that are allowed to be full members.

22 Other people could join as an associate member, but that's  
23 really just providing financial support for the organization and  
24 getting information from the organization, but you can't vote,  
25 you know, for the Board or -- you know, for example.

1 Q. So in your testimony, you've talked about the agreement  
2 among medical and mental health professional groups in the U.S.  
3 About the use of gender-affirming medical care to treat gender  
4 dysphoria.

5 As you're probably aware, Dr. Karasic, the State's experts  
6 assert that the U.S. is an outlier and points to reports from  
7 other countries and say -- and those reports say they're halting  
8 care for minor children at least.

9 What's your response to that?

10 A. So there are a handful of countries in Europe where  
11 government bodies have changed statements to exert more caution  
12 in the care of transgender youth, and -- and -- a few things.

13 One is that care is still provided, puberty blockers and  
14 hormones, to some youth in each of those countries even if the  
15 criteria is more restrictive than before. There's no -- there's  
16 certainly no ban or categorical withdrawal of funding for care  
17 in any of those countries. The -- those statements have been  
18 put out by government bodies, not unlike Florida's government  
19 bodies have put out statements, that aren't always reflective of  
20 the health professionals in that country, from my experience.

21 I was keynote speaker at -- there's kind of a  
22 Pan-Scandinavian transgender health conference and -- you know,  
23 so I've met many healthcare providers in -- from all of the  
24 Scandinavian countries who go to that conference.

25 And I've worked with Cecilia Dhejne, who the -- some of the

1 opponents of transgender care often refer to, like Dr. Levine.  
2 Expert statements always refer to her study where there was  
3 elevated suicidality in transgender adults who had received care  
4 through their program.

5 And Cecilia Dhejne described to me what happened in Sweden  
6 at -- with the government committee for youth, that the process  
7 had been hijacked or -- was her word, by opponents of  
8 gender-affirming care for youth that had connections to people  
9 in the United States and the United Kingdom and was opposed by  
10 many providers in Sweden.

11 And so what happens is, you know, something like that  
12 happens, and then, you know, with -- often with involvement with  
13 some of the same folks who are involved here, and they bring  
14 back, you know, a changed policy statement from the federal --  
15 in the federal committee from Sweden as evidence that there's a  
16 sea change.

17 But, in fact, just a couple of weeks ago there was a  
18 European Professional Association for Transgender Health  
19 conference was held in Ireland, and the keynote speaker was the  
20 European coeditor of Standards of Care 8. Overwhelmingly, if  
21 you look at the schedule, it's presentations about  
22 gender-affirming care from teams from Spain, France, Italy --

23 MR. JAZIL: Objection, Your Honor. Hearsay, outside  
24 the scope of his expert reports as well.

25 THE COURT: Overruled. I'll follow up in a minute.

1 THE WITNESS: Okay. So, you know, Croatia, Turkey,  
2 Syria, a whole session from a Polish multidisciplinary team.

3 So you know, there may be differences of opinions from  
4 federal committees in Europe, but the overwhelming majority of  
5 those providing transgender health, as represented, you know, in  
6 this conference, are not going along with -- are not necessarily  
7 in line with what these statements from a handful of countries  
8 have made.

9 And so it's just important -- it's interesting, but  
10 it's important to take with a grain of salt that -- when there  
11 are these statements saying Europe has changed course, that that  
12 just isn't true.

13 THE COURT: Before we move on, Dr. Karasic, here's my  
14 question about the description you just gave me of the  
15 conference and your discussions with professionals over there.

16 Is that the kind of thing that experts in this field  
17 reasonably take account of in doing your own assessments and  
18 forming your own opinions?

19 THE WITNESS: Yes, yes. So we're -- there's an active  
20 community of people and -- you know, in Europe and the  
21 United States, and we're always, you know, in touch with each  
22 other and discussing developments. And so it's -- you know,  
23 there is an international body. It's not just those of us in  
24 the United States that are in that kind of communication.

25 MS. DeBRIERE: Thank you, Your Honor.



1 THE COURT: You may continue.

2 BY MS. DeBRIERE:

3 Q. For the record, Dr. Karasic, could you spell Cecilia  
4 Dhejne's name for us?

5 A. Sure. D-h-e-j-n-e.

6 Q. Thank you.

7 A. You'll see it in, you know, Dr. Levine's report and other  
8 reports.

9 Q. And the reporting that's coming out of this handful of  
10 countries, does it in any way pertain to gender-affirming  
11 medical care for adults?

12 A. No. In all those countries that are -- where there have  
13 been references to changes in policies, those countries have  
14 national health systems that fully pay for gender-affirming care  
15 for adults and have not changed -- and those minors who are  
16 accepted, and have not -- you know, there's been no change in  
17 terms of any restrictions for adults.

18 Q. Any of the reporting coming out of these countries on which  
19 defendants are relying, are they peer reviewed?

20 A. Not that the government -- the government statements are  
21 just government statements.

22 Q. Okay. Thank you.

23 Dr. Karasic, are you familiar with the term "detransition"?

24 A. Yes.

25 Q. Does it have a particular meaning in your field?

1 A. It sometimes has some different meanings depending on who  
2 is using it and the context. Sometimes it refers to someone who  
3 starts hormones and then stops it without necessarily regret or  
4 just as part of their journey to -- you know, how they want  
5 their body to be.

6 And then it also refers to people who stop gender-affirming  
7 medical care because of a -- well, people -- there's people who  
8 stop because of external circumstances, which in my experience  
9 is the great majority of people: People who stop  
10 gender-affirming medical care because they are incarcerated,  
11 because their spouse threatens to leave them, because their  
12 parents will kick them out of the house, or, you know, other  
13 kinds of -- similar kind of external reasons for stopping care,  
14 or they stop care because of a change in gender identity.

15 Q. How common is it for someone to stop care because of the  
16 change in gender identity?

17 A. That seems very uncommon.

18 Q. Are you familiar with the term "retransition"?

19 A. Yes.

20 Q. What does that mean?

21 A. So you see that, for example, in the Kristina Olson group's  
22 work on prepubertal children who have changed pronouns and  
23 socially transitioned and elsewhere. And it speaks to that not  
24 everyone is transitioning and then reverting back to the sex  
25 assigned at birth, but that people are making -- kind of moving

1 to different places gender-wise, that many people who -- of the  
2 relatively small number of people who change.

3 What's maybe more common is people changing to binary  
4 gender identity from -- I mean, to a nonbinary gender identity  
5 from a binary one. So someone assigned female at birth, for  
6 example, identifying as male and then later realizing there is a  
7 better fit being nonbinary and giving themselves that identity  
8 would be -- it's an example of retransitioning.

9 Q. In your clinical experience with more than a thousand  
10 patients that you've treated for gender dysphoria, have any of  
11 your patients who have medically transitioned then  
12 detransitioned in the sense of coming to identify as the sex  
13 they were assigned at birth?

14 A. So I've had in my practice people who detransition for  
15 external circumstances, but I've never had someone come to me  
16 and say that they have detransitioned because they no longer  
17 identify as trans and they're no longer having gender dysphoria,  
18 and, therefore, they're, you know, not getting treated anymore.  
19 That's never -- that hasn't happened. No patient of mine has  
20 said that to me.

21 Q. Out of all of those patients, how many patients have  
22 regretted their decision to transition?

23 A. Very few. And when -- it's very rare, and it -- when -- if  
24 I'm trying to think of an example, I can think of someone who --  
25 this was years ago -- someone who had moved to San Francisco

1 from the South after transitioning -- had essentially  
2 transitioned and lost it all, job and family and really kind of  
3 rejected by community, and came out to San Francisco and was  
4 living in a homeless shelter. And in one of the Department of  
5 Public Health-run clinics that I was working in, this person was  
6 saying, you know, they didn't regret transitioning because they  
7 identified as female, but they -- the cost was greater than they  
8 thought it would be. So they had regret because they were in  
9 such a desperate circumstance that they hadn't anticipated.

10 Q. How do you react to the assertion that individuals with  
11 gender dysphoria should not be provided medical interventions  
12 because they will outgrow it?

13 A. That doesn't make sense to me.

14 So the -- some of the opponents of gender-affirming care  
15 put out these very high detransition numbers. And many of the  
16 people in those studies that were recruited, even before there  
17 was -- even before gender identity disorder of childhood came  
18 into the DSM in 1980, often they include the Feminine Voice  
19 Study at UCLA. And I knew Richard Green who did that study when  
20 I was at UCLA. And when he wrote -- published his book on that  
21 study, he called it the Sissy Boy Syndrome and something about  
22 the development of homosexuality, not the development of being  
23 transgender.

24 So they -- his original goal was to follow the -- to see  
25 whether feminine boys became transwomen. And very few of them

1 did. But as it turns out, it was because basically from a time  
2 when even homosexuality was in the DSM, parents were bringing in  
3 feminine boys because they just weren't accepted in their  
4 schools, you know, or bullied by peers. And I even spoke to  
5 some of the people who had been in that study who identify as  
6 gay men, and they never had transidentity.

7       There was another study that -- kind of a group of  
8 publications from Toronto that, again, they started recruiting  
9 people in 1975, before there was a GID childhood diagnosis. And  
10 they are mostly feminine boys; they're mostly pre-gay men.

11       The one modern study -- the one modern American study is  
12 Kristina Olson's group where they've published on over 300  
13 pre-pubertal youth who had changed the pronouns that they used,  
14 and that was their marker for socially transitioning. And they  
15 followed them over -- I think it was a mean of four years. They  
16 followed them over a few years. And only 2 and a half percent  
17 of those who had changed their pronouns in a binary way had  
18 changed them back to their sex assigned at birth. So within  
19 that population, detransition is very rare.

20       It's clear that there are kind of different populations of  
21 folks, and different studies have kind of found different groups  
22 of youth. But I think we are moving in the direction of more  
23 specificity. I talked about in, you know, the *DSM* of gender  
24 dysphoria -- *DMS-5* gender dysphoria at childhood, adding this  
25 identity A1 requirement. And so -- and then, also, I think over

1 the years parents are less likely to bring a feminine boy in to  
2 the doctor.

3 And so, anyway, I don't think that old data with the super  
4 high desistance numbers is really reflective of, you know, what  
5 happens.

6 Q. Those older studies, what types of clinics -- what types of  
7 clinics did those studies?

8 A. So UCLA was a psychiatric clinic. It was before puberty  
9 blockers were administered. That was in the 1960s and '70s. It  
10 was published in 1987. It's when they had to follow up with  
11 people to adulthood.

12 Then the other two clinics, before Kristina Olson's work  
13 were the gender clinics for children and adolescents in  
14 Toronto -- University of Toronto, Clark Institute, CAMH, are  
15 kind of the various names of that clinic -- and then in  
16 Amsterdam, the Dutch group in Amsterdam.

17 And what's notable in each of those clinics is that if  
18 gender dysphoria persisted into puberty that they treated those  
19 kids with puberty blockers and then with hormones.

20 And so even as they were reporting on desistance, they were  
21 noting it as a prepubertal phenomenon and that if it did  
22 persist, if it did give them what was a GID of adolescents in  
23 adulthood and later gender dysphoria of adolescents in  
24 adulthood, that those people with that diagnosis were -- their  
25 gender dysphoria was likely to persist, and they offered them

1 medical treatment.

2 Q. How many individuals or professionals in the field of  
3 providing gender-affirming medical care address the concept of  
4 detransitioning? Is there attention given to it?

5 A. I'm sorry. What was the question?

6 Q. Yeah. Is there attention in the professional field of  
7 those providing gender-affirming medical care to the concept of  
8 detransitioning?

9 A. Yes.

10 So I was the chair of the first US --

11 (Reporter requested clarification.)

12 A. USPATH, United States Professional Association for  
13 Transgender Health, conference in Los Angeles in 2017. And I  
14 helped organize a panel of therapists and therapist trainees who  
15 were detransitioners themselves.

16 And we were contacted by some detransitioners wanting their  
17 perspective to be addressed. And we had a very lively  
18 discussion with attendees at the conference.

19 Later, WPATH put on a training that was devoted to  
20 helping -- help practitioners work with detransitioners. And  
21 then Standards of Care 8 talks about detransitioners and the  
22 importance of involving folks with health providers of multiple  
23 disciplines to -- you know, to help them get the care they need.

24 BY MS. DeBRIERE:

25 Q. You've been discussing that the detransition is rare, so

1 why would professionals pay attention to this in developing the  
2 standard of care and otherwise practicing their forms of  
3 medicine?

4 A. Sure.

5 Well, I think detransition, especially because of a change  
6 in gender identity, and also this other sense of people stopping  
7 and starting hormones, is maybe a little bit more common than  
8 rare, you know, not quite -- still uncommon, but maybe not rare.

9 But, you know, we -- it's one of the things that we, both  
10 as health professionals and it's something that's in the WPATH  
11 Standards of Care, that we're not invested in what any one  
12 gender identity for a patient. We are trying to help people  
13 find the best place for themselves and, you know, the -- helping  
14 them get the care that they need to, you know, be the  
15 healthiest, most comfortable person, and, you know, recognizing  
16 that for some people that -- you know, the initial transition  
17 might, you know, not provide that.

18 So we want to, you know, help them no matter what their,  
19 you know, identity is.

20 Q. The fact that detransition exists, why do you continue to  
21 recommend gender-affirming medical care as part of your  
22 practice?

23 A. Because the vast majority of people benefit from care. And  
24 even, in my experience, the people who have, you know,  
25 detransitioned because of external circumstances still might



1 need gender-affirming care in the future. And so even for some  
2 of the detransitioners, the availability of gender-affirming  
3 care is important.

4 Q. Is the possibility of regret -- this concept of regret, is  
5 that unique to gender-affirming medical care?

6 A. No. As a matter of fact, when you talk with surgeons,  
7 it's -- who are working in gender-affirming care, it's one  
8 reason that they often prefer working with their transpatients  
9 to some of their other patients, because regret is so low with  
10 transpatients. So if you look at -- there's a meta-analysis of  
11 posts by Bustos of almost 8,000 patients in various studies  
12 where they reported regret, and regret was less than 1 percent  
13 in transgender patients who had had surgery.

14 And then you compare that, I put in any declaration to  
15 Sheehan in 2008, where people -- women who had breast cancer,  
16 had mastectomies because of breast cancer, who were then offered  
17 or given -- had gone ahead with breast reconstruction -- so it's  
18 medically necessary breast reconstruction -- and about  
19 40 percent of those women had some degree -- 40 percent of those  
20 woman had some degree of regret related to breast  
21 reconstruction.

22 So regret is there for every -- if you look at any surgery  
23 where they have reported regret, regret is present. And it's  
24 typically much higher than the regret rates for gender-affirming  
25 surgery.

1 Q. Dr. Karasic, are you familiar with the concept of social  
2 contagion?

3 A. Yes.

4 Q. Can you describe it for me, please?

5 A. So social contagion is the theory that if someone is  
6 exposed to someone who is trans, or social media or other media  
7 accounts of being transgender, that that could make that person  
8 trans.

9 Q. Has there been a rise in numbers of referrals to gender  
10 clinics in recent years?

11 A. Yes.

12 Q. Is that due to social contagion?

13 A. No.

14 Q. What's it due to?

15 A. First of all, you have in the United States, whenever you  
16 see these numbers of number of insurance claims or number of  
17 gender dysphoria diagnoses that were made, that's comparing from  
18 the early 2010s to now, and you see these numbers go up  
19 dramatically, you have to remember that transgender care had  
20 been shut down in the U.S. by the prior backlash. And because  
21 of that, there was no funding for those people to get care.  
22 There were no -- there were very few gender clinics. If you are  
23 a provider -- like even working in a gender clinic, and even  
24 though we were funded by San Francisco Department of Public  
25 Health so that it wouldn't really threaten our care, the

1 providers in Dimension's clinic and Transgender Life Care  
2 Program would never use the GID diagnosis, because we knew in  
3 other settings, as well as there, that it would lead to  
4 insurance rejection of care, even if, you know, we were also  
5 treating depression or, you know, other things.

6 And so people weren't using the diagnosis until -- 2013,  
7 the gender dysphoria diagnosis started, and it was also around  
8 when reimbursement became, you know, very common for the gender  
9 dysphoria diagnosis.

10 So, of course, people are using that diagnosis much more  
11 when they are getting reimbursed for it and -- as opposed to it  
12 being a specific reason for reimbursement denial.

13 Second of all, you can't refer people to clinics that don't  
14 exist. And they had been shut down, you know, decades earlier.  
15 And starting in the early 2020s, they grew in number. And so  
16 the numbers are going to increase greatly, the number of  
17 referrals, when you have a place to refer that person to.

18 When -- because I've been in this field for a long time, I  
19 think I made reference in my declaration about being contacted  
20 around the year 2000 by a parent from Florida who had resources  
21 and wanted to fly his transchild anywhere in the world that  
22 would -- could provide some care for them. And I had a  
23 colleague at Emory, and it would be a short flight, and -- that  
24 I referred him to. But he could not find any care in Florida.

25 And then -- also, then thinking of the very first trial and

1 adolescent gender clinic full meeting in San Francisco at UCFS  
2 in 2012, and the family was a family that had left Florida  
3 because their child could not get care and could not get  
4 accommodated in school. And so they moved to San Francisco and,  
5 you know, were there for that first session.

6 Q. What is your reaction to the assertion that if kids have  
7 lots of trans peers or consume a lot of social media regarding  
8 transpeople that this can cause gender dysphoria?

9 A. So my transpatients seek out other transpeople. They are  
10 looking for support. And so if you're just externally looking  
11 at a phenomenon of -- let's say, even, you're a parent and your  
12 trans kid has just come out as trans to you and you, you know,  
13 remember that six months ago they brought another kid home who  
14 was trans, that's not that that kid six months ago being trans  
15 infected the child, you know, to make them trans; it's that  
16 children are trying to understand -- adolescents, they are  
17 trying to understand themselves, and they are finding peers who  
18 are similar to themselves.

19 Q. Similarly, what's your reaction to the assertion that a  
20 patient is identifying -- has a transidentity because their  
21 parents or people in trusted positions want them to?

22 A. So are you asking that young people transition because  
23 their parents want them to?

24 Q. What's your reaction?

25 A. That's not been the experience of the young people that I

1 work with. You know, it's very much the young people coming to  
2 their parents in distress, or, for some, you know, from their  
3 earliest days, having very strong cross-sex, you know,  
4 cross-gender, you know, behavior and the parents, you know,  
5 recognizing that.

6 Q. And just touching very briefly, again, on the concept of  
7 detransition, in speaking of detransitioners, you used the  
8 phrase "change in gender identity."

9 By that you mean someone who stopped identifying as  
10 transgender?

11 A. Yeah. That some -- there are some professed  
12 detransitioners -- they are not patients of mine, per se, but,  
13 you know, I go to the conference and I see some of them in the  
14 media who say that they were -- you know, that they identified  
15 as transgender, and now they no longer do. And so people can  
16 come to some evolution of an understanding of themselves,  
17 presumably.

18 Q. Okay. Dr. Karasic, as this last part I just want to turn  
19 very briefly to the plaintiffs in this case.

20 As part of your work in this case, did you review any of  
21 the plaintiffs' medical records?

22 A. Yes.

23 Q. Specifically, did you review any records related to adult  
24 plaintiff August Dekker?

25 A. Yes.

1 Q. What did the records reveal with regards to Mr. Dekker?

2 A. Mr. Dekker was assessed for gender dysphoria and received  
3 testosterone and masculinizing chest surgery.

4 Q. Did you review any records related -- when you reviewed the  
5 records of Mr. Dekker, did the medical care he was receiving --  
6 did it, based on your understanding, reflect the standard of  
7 care that we've been discussing?

8 A. Yes.

9 Q. Okay. Did you review any records related to adult  
10 plaintiff Brit Rothstein?

11 A. Yes.

12 Q. What were your findings?

13 A. Very similar to August Dekker, that they had received  
14 gender-affirming medical and surgical care, also in accordance  
15 with -- with the standard of care.

16 Q. How about minor plaintiff Susan Doe?

17 A. Yes.

18 Q. Can you discuss your findings about that?

19 A. That that plaintiff had received puberty blockers for  
20 gender dysphoria in accordance with WPATH Standards of Care.

21 Q. Was she diagnosed with gender dysphoria?

22 A. And diagnosed with gender dysphoria, yes.

23 Q. And then, finally, just minor plaintiff K.F.?

24 A. Yes.

25 And so minor plaintiff K.F. was diagnosed with gender

1 dysphoria and also received puberty blockers.

2 Q. Was that care in line with the standards of care?

3 A. Yes.

4 MS. DeBRIERE: All right. Thank you so much,  
5 Dr. Karasic.

6 Your Honor, those are all my questions.

7 THE COURT: All right. Cross-examine.

8 MS. DeBRIERE: Your Honor, I'm so sorry. May I ask  
9 one more question?

10 THE COURT: Surely.

11 MS. DeBRIERE: I'm so sorry.

12 BY MS. DeBRIERE:

13 Q. Final question, Dr. Karasic. My apologies.

14 In your opinion, are any of the gender-affirming care  
15 medical services listed at 59G-1.050 experimental?

16 A. No.

17 MS. DeBRIERE: Thank you.

18 THE COURT: All right. Cross-examine.

19 CROSS-EXAMINATION

20 BY MR. JAZIL:

21 Q. Good afternoon, Dr. Karasic.

22 A. Hi.

23 Q. Karasic. I apologize.

24 Dr. Karasic, based on your testimony, it's my understanding  
25 that your practice is devoted to helping transgender

1 individuals.

2 Did I understand that right?

3 A. Yes.

4 Q. And you're also a member of WPATH, as you testified?

5 A. Yes.

6 Q. And you'd agree with me that WPATH advocates for the rights  
7 of transgender individuals, right; that's its purpose?

8 A. No, it's -- I mean, like any -- as I think I've talked  
9 about, any membership organization does, you know, provide  
10 position statements and advocacy of sorts, but the primary  
11 purpose of WPATH is to provide educational trainings for its  
12 members, so continuing education trainings for its members and  
13 for others who want to increase their knowledge in transgender  
14 health, and also in formulating the standards of care. So  
15 really the organization is focused around those two things.  
16 They also do advocacy or, you know, position statements on  
17 issues that are related to transgender health.

18 Q. I got it.

19 And so the organization itself is not made up exclusively  
20 of medical professionals, though; right?

21 A. So the organization -- almost all the full members of the  
22 organization are health professionals. There are some health  
23 academics, legal academics who are full members. There are some  
24 associate members who are not health professionals.

25 Q. Okay. When you say "health professionals," you're



1 including folks other than MDs; right?

2 A. Sure, yes, psychologists, psychotherapists.

3 Q. Psychotherapists?

4 A. Yes.

5 Q. Anyone who self-identifies as a health professional can  
6 join as a full member?

7 A. You have to fill out an application, and you have to, you  
8 know, list your qualifications as a health professional, and so  
9 I suppose somebody could lie about that, but yeah.

10 Q. Okay. So you said the full members include lawyers; right?

11 A. There are a few legal advocates within the full membership  
12 of WPATH.

13 Q. When you say "legal advocates," you mean advocates for  
14 transgender rights who are members -- full members?

15 A. No, I meant -- like, I only can think of a couple of people  
16 that -- one of them is not a practicing lawyer but got a  
17 doctorate in law in the UK, and -- so there are some people who  
18 are really kind of within the kind of broader realm of health  
19 academics, I guess one would say, but the vast majority of the  
20 members are practicing clinicians.

21 Q. Sociologists are included, too, in the full membership  
22 group?

23 A. No. I mean, there -- they could be as a health academic,  
24 but when I'm talking about non-MDs, I'm talking about licensed  
25 clinical social workers, psychologists, marriage and family

1 counselors. And so, you know, there are a number of non-MDs who  
2 are. The vast majority of the members are people who are taking  
3 care of patients, but there are some health academics who are  
4 members as well.

5 Q. And the membership includes folks who provide alternative  
6 health care? I'm thinking folks who might practice Eastern  
7 medicine, for example.

8 A. You know, I wouldn't be surprised if -- there are maybe  
9 3,000 members, you know, but we -- you know -- and there are  
10 some members in Asia, and, you know, their practice might  
11 reflect that. There are also psychotherapists who use  
12 mindfulness and meditation as part of their practice. So, you  
13 know, there are a range of health professionals that are in the  
14 organization.

15 Q. And you serve on the Board of Directors for WPATH; right?

16 A. Yes.

17 Q. Were you on the board when WPATH issued its Standards of  
18 Care, Version 7?

19 A. I was not on the board. I was involved as a committee  
20 member for Standards of Care 7, but that came out in 2011, and I  
21 had not -- was not yet on the board when that came out.

22 Q. Were you on the Board of Directors when WPATH decided to  
23 pursue Version 8 of its Standards of Care?

24 A. Yes.

25 Q. Were you on the board when the Version 8 standards came

1 out?

2 A. No.

3 Q. When you were on the board that decided to pursue the  
4 Version 8 Standards of Care, how many members of the board were  
5 there?

6 A. How many members of it -- were on the board? There would  
7 have been 7 general members and 4 Executive Committee, I  
8 believe, so 11.

9 Q. And this 11-member board included the UK-based lawyer,  
10 person with a Ph.D. in law --

11 A. Yes.

12 Q. -- is that right?

13 And all of them cared about furthering transgender health;  
14 right? That was a common denominator among the board members?

15 A. Yes.

16 Q. Now, Doctor, I'd like to walk you through the Standards of  
17 Care.

18 MR. JAZIL: Can we pull up DX-16, please?

19 Your Honor, can I approach the witness with a copy?

20 THE COURT: You may.

21 BY MR. JAZIL:

22 Q. Now, Doctor, your name is on the cover of this document;  
23 right?

24 A. Yes.

25 Q. Third row down?

1 A. Yes.

2 Q. What I'd like to do is start at the back of this document.

3 If you go to what's Bates labeled page 249, so the bottom right.

4 If you'd look at page 249.

5 A. Yes.

6 Q. And, Doctor, I'd like to direct your attention to  
7 subheading 3, which is on the right side of the document.

8 A. Yes.

9 Q. This lays out the process that WPATH took in coming up with  
10 Standards of Care, Version 8; right?

11 A. Yes.

12 Q. And if we look at step 17, it says that the document had to  
13 be approved by the WPATH Board of Directors before its  
14 publication and dissemination?

15 A. Yes.

16 Q. That's the 11-member board?

17 A. Yes.

18 Q. Let's move on to page 250. So if you can just flip over to  
19 the next page, Doctor.

20 I'd like to direct your attention to 3.3, "Selection of  
21 chapter members."

22 A. Yes.

23 Q. Now, this says that a call for applications was sent to the  
24 WPATH membership?

25 A. Yes.

1 Q. And it says that the chapter leads and members were  
2 required to be WPATH full members?

3 A. Yes.

4 Q. Now, were you a full member when the call went out?

5 A. Yes.

6 Q. Now, if we go down to the third paragraph, it says: *Each*  
7 *chapter also included stakeholders as members who bring*  
8 *perspectives of transgender health advocacy or work in the*  
9 *community, or as members of a family that included a transgender*  
10 *child, sibling, partner, parent, etc.*

11 A. Yes.

12 Q. Did your -- Doctor, you wrote a chapter for --

13 A. Yeah.

14 Q. -- the Standards of Care 8?

15 A. I was a chapter lead, yes.

16 Q. And it was a chapter on mental health; right?

17 A. Yes.

18 Q. And did your chapter include the stakeholders that included  
19 the folks listed in 3.3, transgender children, et cetera?

20 A. Yeah. So the stakeholder on our chapter who we -- there  
21 was an appointment in our chapter, and there was a stakeholder  
22 who was a licensed psychotherapist who is transgender herself.

23 Q. So your stakeholder group included a licensed  
24 psychotherapist who is transgender herself; it included you as a  
25 lead; it included other mental health professionals?

1 A. Yeah. So it included leaders of the gender programs of  
2 Sweden, Belgium, and Turkey, and then included a psychiatrist  
3 who -- it was a mental health chapter, so it was very  
4 psychiatrist heavy -- a psychiatrist who's vice chair of  
5 psychiatry at Northwestern University. It included a  
6 psychologist at the Whitman-Walker clinic in Washington, D.C. --  
7 I think that's where he practiced at the time -- a psychiatrist  
8 at Columbia University, and myself. And I'm trying to think if  
9 I'm missing anyone there. I think that kind of makes up the  
10 chapter.

11 Q. I understand.

12 And your committee talked to people about the issues  
13 involved and sought their perspectives; right?

14 A. So our -- the charge of our committee was to review  
15 relevant research. We came up with potential statements that  
16 were reflections of -- not only reflections of research, but  
17 recommendations that could be made, and that was in consultation  
18 with the editors.

19 Each of us, though, came with the background, of course, of  
20 having, you know, much discussion about providing mental health  
21 care for transgender people. You know, there was the lead  
22 psychiatrist for the gender programs in Sweden, Belgium, and  
23 Turkey, and, of course, they, you know, talked with patients and  
24 professional colleagues like I would do in the United States.

25 Q. And so, Doctor, you said folks talk to professional

1 colleagues.

2 Did you reach out to Dr. Stephen Levine to get his  
3 perspective on the chapter on mental health?

4 A. No.

5 Q. But he was the author of the Standards of Care, Version  
6 5 -- right? -- the mental health chapter?

7 A. Right. So what had happened -- my understanding of what  
8 happened with Dr. Levine was that after Standards of Care 5 came  
9 out, that he attended a conference, and there were people who  
10 objected to Standards of Care 5. There were some transgender  
11 people there who objected to Standards of Care 5, and he ended  
12 up cutting off ties with the organization.

13 So I became involved with WPATH not until 2001, and it was  
14 right around the time that Dr. Levine was cutting off ties with  
15 WPATH. So I never saw Dr. Levine at -- you know, at any WPATH  
16 conferences. Dr. Levine did present at a couple of APA  
17 conferences over the years, but I was always somewhere else --  
18 presenting somewhere else.

19 Q. So you didn't talk to him, but did you seek him out just to  
20 get his perspective on it as a former author of the chapter that  
21 you worked on?

22 A. No.

23 Q. Okay. Do you know who Dr. Hilary Cass is from the United  
24 Kingdom?

25 A. Yes.

1 Q. You know that she takes a more cautious approach to  
2 providing gender-affirming medical care than you would like;  
3 right?

4 A. So I -- I have read the Cass report. It was a little  
5 confusing to me because there was part of the report where they  
6 talked about expanding access to care, and then the report  
7 became -- what came out of that became more conservative. And I  
8 read the Robers (phonetic) reporting that the report had changed  
9 at the Prime Minister's office or Ministry of Health after the  
10 last two Prime Ministers had announced support for restricting  
11 gender-affirming care.

12 So I certainly have read the report and, you know, what was  
13 put out. I don't know the whole process and what was behind it,  
14 you know, going -- you know, what was going on in the  
15 United Kingdom.

16 Q. Understood.

17 And you testified earlier that your chapter included folks  
18 from Sweden; right? It included folks from Turkey; right?

19 A. Yeah.

20 Q. But did you think about picking up the phone and calling  
21 Dr. Cass to get her perspective on the issues?

22 A. So the supervisor, the person who is the leader of our  
23 chapter, was John Arcelus, one of the coeditors of WPATH  
24 Standards of Care, who is one of the leading academics in the  
25 United Kingdom in transgender health.



1           When we were starting the process, I'd never heard of  
2 Hilary Cass. I did not hear -- I did not know who she was. She  
3 was somewhere kind of coming through the National Health Service  
4 of Britain. She was not somebody in -- you know, that I was  
5 aware of in transgender health at the start of the process. I  
6 only became aware of her when she -- you know, when the Cass  
7 report came out.

8 Q.    So that's a no, is the answer to my question?

9 A.    Yeah. You asked when we were doing this.

10 Q.   Did you pick up the phone and call her and get her  
11 perspective?

12 A.    I don't have her phone number.

13 Q.    Okay. Fair enough.

14           Now, you testified earlier about some of the European  
15 countries that are taking a more cautious approach. That was, I  
16 believe, the word you used.

17           Do you recall that testimony on gender-affirming care?

18 A.    So there are -- as I said, there are a handful of countries  
19 that are -- that kind of urge caution in the sense that became  
20 more restrictive of care for transgender youth.

21 Q.    And did you contact any of the advocates for this more  
22 cautious approach in these countries as you were working on the  
23 mental health chapter for the WPATH report?

24 A.    One of the members of our mental health chapter was the  
25 founder of the Swedish gender clinics, Cecilia Dhejne, who

1 Stephen Levine and others are always making reference to with  
2 the high suicidality numbers in one of her papers, and so I have  
3 spoken with Cecilia Dhejne through the process since we were  
4 working on the mental health chapter together. And since that  
5 chapter was done, we -- you know, I've known her for many, many  
6 years. And I've also spoken with others in Scandinavia, you  
7 know, over time. I went to -- you know, was a speaker at a  
8 Pan-Scandinavian Transgender Health conference several years  
9 ago.

10 Q. And is she one of the advocates for taking a more cautious  
11 approach now?

12 A. No. She's the founder -- she's kind of the most prominent  
13 person in transgender health in Sweden, and she is a supporter  
14 of WPATH Standards of Care 8.

15 Q. So, Doctor, in the mental health chapter in WPATH Standards  
16 of Care, Version 8, I count ten statements from your chapter  
17 that were put out there.

18 A. Yes.

19 Q. Does that sound right?

20 A. Yes.

21 Q. And were all of those statements approved by the committee  
22 that was working to put the chapter together?

23 A. Yes, the ten statements.

24 Q. Any statements that were rejected as the committee was  
25 working to put its chapter together?

1 A. Yeah. So we -- we initially had 20 statements  
2 provisionally, and the editors had said that we needed to --  
3 that many of them were kind of good practice statements, and we  
4 needed to focus really -- for the sake of Standards of Care not  
5 being *War and Peace*, we needed to focus on statements that were  
6 recommendations that could improve care.

7 And so, you know, there was this back and forth. It was  
8 our committee coming up with statements and literature related  
9 to those statements and reasons for maybe doing those  
10 statements, and then also the editors saying, Well, you can  
11 incorporate some of that into your explanatory text and not  
12 everything has to be a statement.

13 And so they -- their mission was not an ideological way to  
14 change things one way or the other, but they were using, you  
15 know, their, kind of, knowledge base of putting out a document  
16 like this to -- you know, to guide us, and that dwindled things  
17 down to ten statements.

18 Q. Doctor, of the folks who were working on the mental health  
19 chapter for WPATH Standards of Care 8, did all of them share the  
20 perspective that the availability of medical gender-affirming  
21 care is a good idea?

22 A. Yes, they were all -- you know, you look at that -- our  
23 representative from Turkey was the president of the Turkey  
24 psychiatric association. These were not marginal, you know,  
25 people. They were representing the mainstream of health in

1 their various countries.

2 Q. Now, Doctor, I'd like to walk through the chapter on mental  
3 health, Chapter 18.

4 A. Sure.

5 Q. If you can go to page 173 of the document, the second full  
6 paragraph on the left column: *Some studios have shown...*

7 A. I'm sorry. You said 170?

8 Q. 173, Doctor. I apologize.

9 A. 173, yes.

10 Q. And it should also be on your screen if you need it.

11 It says here that: *Some studies have shown a higher*  
12 *prevalence of depression and suicidality among TGD people than*  
13 *in the general population.*

14 A. Yeah.

15 Q. Now, Doctor, first, what does TGD stand for?

16 A. Transgender and gender diverse. That was the editor's  
17 initials for -- for transgender and gender-diverse people.

18 Q. And then if we go to the next page, Doctor, statement 18.1,  
19 where it says --

20 A. Yes.

21 Q. -- *Psychiatric illness and substance...*

22 It's halfway down.

23 A. I'm sorry. 18.1?

24 Q. Yes, Doctor. If you go three-fourths of the way down, it  
25 says: *Psychiatric illness and substance use disorders, in*

1 particular cognitive impairment and psychosis, may impair an  
2 individual's ability to understand the risks and benefits of the  
3 treatment.

4 A. Yes.

5 Q. Conversely, a patient may also have significant mental  
6 illness, yet still be able to understand the risks and benefits  
7 of the treatment.

8 Now, Doctor, putting the statement we just saw from  
9 page 173 together with the statement here, when you're working  
10 with patients who present for gender dysphoria, are you trying,  
11 as part of your practice, to disentangle the other psychiatric  
12 illnesses and substance use disorders they may present with as  
13 well?

14 A. So for these references we're talking about even the  
15 general population. These were not specifically just with  
16 transgender people. This -- these couple of sentences refer  
17 generally in psychiatry that cognitive impairment and psychosis  
18 can impair the individual's ability to give informed consent,  
19 but other people can have significant mental illness and still  
20 be able to give informed consent.

21 That's a separate thing if you are saying disentangling it.  
22 I'm not sure when you say "disentangling," disentangling from  
23 what?

24 Q. Suppose a patient comes to you and they present with  
25 depression.

1 A. Yes.

2 Q. They present with anxiety, and they also have gender  
3 dysphoria.

4 A. Yes.

5 Q. As part of your discussions with those patients, you're  
6 trying to figure out the root cause of their mental anguish;  
7 right?

8 A. Yes, sir.

9 Q. And that root cause could be just depression; right?

10 A. Yes.

11 Q. It could be just the anxiety; right?

12 A. Well, not if they have all three. But, yes, it -- there  
13 could well -- it could well -- I mean, theoretically it's  
14 possible that they could have depression, anxiety, gender  
15 dysphoria. And there are certain kinds of anguish that one  
16 could assign to each of those. I'm not sure if that's what you  
17 mean.

18 Q. So all three of those things are mental disorders; right?

19 A. Yes.

20 Q. In the *DSM-5*?

21 A. *DSM*, yes.

22 Q. And you could help the patient and make sure that they have  
23 a fulfilling life if you treat just the depression in a  
24 particular patient; right? It's possible that if you treat just  
25 depression, they will feel better; they might not need

1 treatments for the other two issues?

2 A. It hasn't been my experience that if people need treatment  
3 for gender dysphoria -- you know, I had people who have already  
4 transitioned, for example, or are in a stable place with their  
5 gender dysphoria, but are depressed and -- you know, so you take  
6 into account that the person is transgender, but, you know, the  
7 focus is really the depression. But if this is somebody who is  
8 coming in with active distress related to their gender  
9 dysphoria, one needs to look at both and, you know, certainly,  
10 as in the Standards of Care 8, one might need to treat both  
11 simultaneously, both the gender dysphoria and the depression.

12 Q. Okay. And the preexisting psychiatric illnesses could  
13 impair a particular patient's ability to give informed consent;  
14 right?

15 A. Yes.

16 Q. That's what this statement is getting at?

17 A. Yes.

18 So this, as it says --

19 Q. Was it a yes, Doctor?

20 A. This says "Cognitive impairment and psychosis," -- "in  
21 particular cognitive impairment and psychosis." And so  
22 generally it's cognitive impairment and psychosis that impair  
23 informed consent. And even some people can have cognitive  
24 impairment and psychosis and still be able to give informed  
25 consent.

1           So I haven't -- I can't recall a patient where depression  
2 or anxiety has prevented them from capacity for informed  
3 consent.

4           I used to do consultation liaison psychiatry early in my  
5 career, and we would get called to somebody out of capacity to  
6 consent, let's say if they decided to leave the hospital or  
7 accept or reject care, and, you know, it's either that they were  
8 cognitively impaired, delirium or dementia, or that they had a  
9 severe psychosis, not just -- being depressed would not be a  
10 reason that somebody couldn't consent for their health care.

11 Q.    I understand.

12           So let's break this down. If I have a psychiatric illness,  
13 and I come to you for gender dysphoria treatment, does my  
14 preexisting psychiatric illness make it more difficult for you  
15 to get my informed consent for a treatment? Yes or no.

16 A.    Well, it depends, right.

17           So if somebody is really psychotic, then of course it  
18 would. But if somebody has a preexisting psychiatric history,  
19 but they, you know, are not in acute psychosis, then they can  
20 still give informed consent.

21 Q.    Okay. So let me ask you another question.

22           I come to you with a substance use disorder.

23 A.    Yes.

24 Q.    And does that make it more difficult for you to get my  
25 informed consent for medical care? Yes or no.



1 A. So it can, you know. That's why -- okay. Yes or no is  
2 kind of incomplete.

3 People can be substance abuse users and be able to give  
4 informed consent. It's possible for someone with substance  
5 abuse to impair their capacity for informed consent.

6 That certainly is possible.

7 MR. JAZIL: Okay. Can we go to page 78 -- 178?

8 BY MR. JAZIL:

9 Q. Let's look at the part that says: *Experience suggests many*  
10 *transgender and nonbinary individuals decide to undergo*  
11 *gender-affirming medical care with little or no use of*  
12 *psychotherapy.*

13 A. Yes.

14 Q. Now, you agree with that statement; right?

15 A. Yes.

16 Q. And you've said that you've studied Florida's rule  
17 concerning gender-affirming care that you are testifying here  
18 about; right?

19 A. Yeah, I've read it. Yes.

20 Q. And that rule doesn't prohibit the reimbursement of any  
21 psychotherapy treatments for anyone diagnosed with gender  
22 dysphoria, does it?

23 A. No, it doesn't ban coverage for psychotherapy.

24 Q. Okay. And, Doctor, I'd like to move on to another topic.

25 You testified earlier that you diagnosed gender dysphoria

1 using the *DSM-5*; right?

2 A. Yes.

3 Q. Remind us again what the *DSM-5* is.

4 A. The *DSM-5* is the *Diagnostic and Statistical Manual for*  
5 *Mental Disorders* put out by the American Psychiatric Association  
6 and updated periodically.

7 Q. And we agree that gender dysphoria is a mental disorder  
8 under the *DSM-5*; right?

9 A. Yes.

10 Q. But we also agree that transgender is not a mental disorder  
11 under the *DSM-5*?

12 A. So transgender people can have gender dysphoria, but being  
13 transgender, as *DSM* states, in and of itself is not a mental  
14 disorder.

15 Q. You'd agree with me, Doctor, that there's no blood test  
16 that we can use to diagnosis someone with gender dysphoria;  
17 right?

18 A. Right.

19 Q. And there is no X-ray we can use?

20 A. Right.

21 Q. No MRI?

22 A. Right.

23 Q. No CT scan?

24 A. Right.

25 Q. No imaging of any kind?

1 A. Right.

2 Q. And there's been no gene that's been identified linking  
3 that gene to the existence of gender dysphoria, is there?

4 A. Correct.

5 Q. And, Doctor, just so the record is clear, not all  
6 transgender individuals suffer from gender dysphoria; right?

7 A. Yes.

8 Q. I'm a little confused by that answer. I apologize. I  
9 should have asked a better question.

10 THE COURT: I got it. You said that twice.

11 THE WITNESS: I can say, you know, we know that  
12 there's, you know, at least a half a percent of people in large  
13 population surveys who identify as transgender, that that number  
14 is substantially larger than the number of people who are going  
15 to clinicians and getting a diagnosis of gender dysphoria.

16 So that does speak that there are some people out  
17 there who are transgender, they have not received the diagnosis  
18 of gender dysphoria. We might not know whether they have gender  
19 dysphoria or not. But there is a discrepancy in terms of the  
20 numbers who identify and the numbers seeking treatment.

21 THE COURT: Well, Mr. Jazil, I tried to stop you  
22 because I thought I had the answer, and now I'm not sure I do.

23 THE WITNESS: Okay.

24 THE COURT: The last thing you told me is the  
25 percentage of the population compared to the number that have

1 sought treatment or been diagnosed.

2 THE WITNESS: Yes.

3 THE COURT: That really wasn't the question.

4 THE WITNESS: Okay.

5 THE COURT: So you're the clinician.

6 THE WITNESS: Yes.

7 THE COURT: You've worked in this field.

8 THE WITNESS: Yes.

9 THE COURT: Are there people who are transgender who  
10 do not have gender dysphoria?

11 THE WITNESS: And so I would say --

12 THE COURT: That really is a yes-or-no question.

13 THE WITNESS: I would say yes. To have gender  
14 dysphoria, it's not just that you have the distress, that the  
15 distress has to be significant enough that it's causing social  
16 or occupational impairment or clinically significant distress.  
17 So not -- some of those other transgender people may well have a  
18 symptom of gender dysphoria. They may have distress about some  
19 aspects of their body being different than their gender  
20 identity, but they don't meet criteria for gender dysphoria.

21 So I assume that those people exist. The people who  
22 come to see me are people who are seeking help, and they're  
23 transgender people. And at least until they have received, kind  
24 of, adequate treatment for their gender dysphoria, they have  
25 gender dysphoria like in the *DSM*.

1           There are some people who have transitioned and are  
2 not suffering from clinically significant distress. The *DSM*  
3 does have this post-transition modifier that we don't really use  
4 very much to try to account for them. And I see 11 which we  
5 don't use yet in the United States, just talks about gender  
6 incongruence. So the distress part isn't a part of it to kind  
7 of account for people maybe needing refills on their hormones  
8 but otherwise no longer in distress.

9           So there are people who are treated, for example, who  
10 are not impaired by their gender dysphoria now. And so one  
11 might say they don't have the disorder, except maybe this  
12 specifier in the *DSM*, so in addition to those people who never  
13 come into care.

14           THE COURT: Are there some transpeople who are just  
15 fine with it?

16           THE WITNESS: So there are some transpeople, mostly  
17 nonbinary in my experience, who are not seeking hormones and are  
18 not seeking surgery. They may have some level of distress. But  
19 especially some nonbinary people don't feel that maybe taking  
20 testosterone, for example, that they -- you know, they might see  
21 pros and cons to doing it. Some of them have taken it for a  
22 little while and stopped, but they don't want full  
23 masculinization because they don't identify as men either.

24           THE COURT: That, again, was a little different than  
25 what I was precisely trying to get at.

1 THE WITNESS: Yeah.

2 THE COURT: I wasn't asking about people seeking  
3 treatment.

4 THE WITNESS: Okay.

5 THE COURT: I really am asking about their mental  
6 state.

7 THE WITNESS: Yeah.

8 THE COURT: Are there people who are trans --

9 THE WITNESS: Yeah.

10 THE COURT: -- who are not upset about it, don't have  
11 a concern about it, so that they don't have a mental health  
12 issue with being trans, whether or not they seek hormones, for  
13 example?

14 I'm not asking whether it's somebody who is happy with  
15 their condition and does not seek hormone treatment or happy  
16 with their condition and they do seek hormone treatment. Either  
17 way, I'm just asking, are there people who are trans that are  
18 not upset about it?

19 THE WITNESS: Oh, yeah, sure. And that's why being  
20 trans is not a mental disorder; it's the presence or absence of  
21 distress. It's just that gender dysphoria happens within the  
22 population of transgender people.

23 THE COURT: Precisely. To add --

24 THE WITNESS: You can have a Venn diagram of  
25 transgender people, and then within that are the people with

1 gender dysphoria. That's a diagnosis, at least.

2 THE COURT: And the point of, I thought, Mr. Jazil's  
3 question and certainly mine is when you look at that Venn  
4 diagram, the little circle is going to be entirely inside the  
5 big circle --

6 THE WITNESS: Yes.

7 THE COURT: -- but it's not going to be congruent;  
8 it's going to be a smaller circle.

9 THE WITNESS: It's a smaller circle in terms of  
10 people, right, who've -- either aren't seeking treatment or have  
11 already had treatment and no longer meet the diagnosis.

12 THE COURT: Well --

13 THE WITNESS: Either way.

14 THE COURT: -- the little circle I'm talking about is  
15 the people that are -- concerned may not be the best word. The  
16 people who have mental dissatisfaction --

17 THE WITNESS: Yeah.

18 THE COURT: -- or a mental issue with their gender  
19 identity, that circle is smaller than the number of people who  
20 are trans, who identify as a different gender than the sex  
21 assigned at birth?

22 THE WITNESS: Yes.

23 THE COURT: Mr. Jazil, I interrupted. And I don't  
24 know if I made it better or worse, but at least I made it  
25 different.

1                   You can proceed.

2 BY MR. JAZIL:

3 Q.    Doctor, when you are diagnosing someone with gender  
4 dysphoria, the first step in that process is to figure out  
5 whether or not there is an incongruence between a person's  
6 gender identity and their natal sex; right?

7 A.    Well, I don't mean to be difficult, but it depends. I  
8 mean, I have people who come to me very -- quite clearly and  
9 say, you know, I'm transgender. So I don't know if it's -- but,  
10 yes, it does. You know, making a diagnosis of gender dysphoria  
11 is kind of a required part of the process.

12                   MR. JAZIL: Can we go to PX45, please, page 834?

13                   Can we blow up the line by Rationale.

14 BY MR. JAZIL:

15 Q.    Now, this -- now, Doctor, it says that: *Gender identity is*  
16 *defined as a person's deeply felt, inherent sense of being a*  
17 *girl, woman, female, a boy, a man, or male; a blend of male or*  
18 *female; or an alternative gender.*

19                   Do you see that statement?

20 A.    Yes.

21 Q.    Do you agree with that statement?

22 A.    Yes.

23 Q.    And how do you, when presented with a patient who's coming  
24 into your practice, disentangle a person's deeply felt, inherent  
25 sense of being?



1 A. I -- I'm doing a clinical interview --

2 MS. DeBRIERE: Objection, Your Honor. It's my  
3 understanding that the exhibit that Mr. Jazil is referencing is  
4 not admitted into evidence and, therefore, lacks foundation.

5 THE COURT: Is there an objection to it?

6 MS. DeBRIERE: There is, Your Honor. That's my  
7 objection.

8 THE COURT: What --

9 MR. JAZIL: Your Honor, I just asked if he agreed with  
10 the statement that was made.

11 THE COURT: That's probably okay. But let me catch  
12 up.

13 I was pulling up the exhibit, and I didn't immediately  
14 find it. But I will. Give me just a second.

15 (Pause in proceedings.)

16 THE COURT: Let me make sure I've got the right  
17 document. Is this the Guidelines for Psychological Practice  
18 from the American Psychological Association?

19 MR. JAZIL: Yes, Your Honor.

20 THE WITNESS: From 2015.

21 THE COURT: It's the plaintiffs' exhibit and you  
22 object to it?

23 MS. DeBRIERE: Your Honor, we are happy to admit it  
24 into evidence. But if Mr. Jazil is going to rely on it, then we  
25 wanted to have a discussion of amending it.

1 MR. JAZIL: Your Honor, I'm not moving it into  
2 evidence. I just simply asked him if he agrees with one  
3 sentence in the paper, and then I'm asking him a follow-up  
4 question.

5 THE COURT: All right. You don't want it admitted?

6 MR. JAZIL: No, no, Your Honor.

7 THE COURT: All right. Now I've at least caught up,  
8 and I know what we are talking about.

9 Go ahead.

10 I overrule the objection.

11 But ask the question again so I'll have it.

12 MR. JAZIL: I'll try, Your Honor.

13 BY MR. JAZIL:

14 Q. Doctor, you'd agree with me that it's difficult to -- as  
15 part of your diagnosis to disentangle a person's deeply felt,  
16 inherent sense of being a girl or a woman or a female for a  
17 natal boy; right? That's a difficult task when someone comes to  
18 you and you've got to disentangle that?

19 A. Disentangle it from what?

20 Q. How do you substantiate someone's deeply felt, inherent  
21 sense of being? That's a difficult task that is put on your  
22 shoulders when you're the clinician; right?

23 A. Well, you know, I'm an experienced clinician, and whatever  
24 people are presenting with, you know, I am doing my psychiatric  
25 evaluation and -- whether that's one thing -- one complaint that

1 they have or multiple complaints. So I'm not sure what you mean  
2 by difficult to -- you know, it's what I do all day.

3 Q. You -- let me see if I understand this. All day you try to  
4 assess people's deeply felt, inherent sense of being?

5 A. No, all day I work as a psychiatrist with people and try to  
6 get a sense of the complaint that they bring into initial  
7 treatment and, you know, how best to understand it and how best  
8 to address it.

9 Q. Okay. Doctor, you talked with my friend about the  
10 Endocrine Society guidelines. I'd like to ask you a few  
11 questions about those.

12 MR. JAZIL: Your Honor, if I may approach the witness  
13 with a copy?

14 THE COURT: You may.  
15 Give me the exhibit number.

16 MR. JAZIL: Your Honor, it's Defendants' Exhibit 24.

17 BY MR. JAZIL:

18 Q. Now, Doctor, when my friend was asking you questions, you  
19 testified that the Endocrine Society's guidelines, together with  
20 the WPATH guidelines, are the standards that you adhere to in  
21 your practice; right?

22 A. Well, I have the proviso that the Endocrine guidelines --  
23 each guidelines is a product of its time. The Endocrine  
24 guidelines was -- came out in 2017, and so it was useful because  
25 Standards of Care 7 came out in 2011, published in 2012. And so

1 there were times where recommendations were updated relative to  
2 Standards of Care 7. Now we have Standards of Care 8 and -- so,  
3 you know, it's still important, but personally I'm more  
4 referring to Standards of Care 8, but there are still many  
5 people who are, you know, still using the endocrine guidelines  
6 from 2017.

7 Q. Do you think the Endocrine guidelines are a useful tool --

8 A. Yes.

9 Q. -- when --

10 A. Yes, yes, they're a useful set of information.

11 Q. Let's take a look at the cover of the Endocrine Society  
12 guidelines, Doctor.

13 A. Yes.

14 Q. Where it says "Cosponsoring Associations," it says the  
15 World Professional Association for Transgender Health was a  
16 cosponsoring organization.

17 You see that; right?

18 A. Yes.

19 Q. Now, looking at the authors, do you recognize any of the  
20 authors of this guideline as being WPATH members?

21 A. Yes.

22 Q. Which ones?

23 A. So in terms of people that I recognize as having been  
24 involved in WPATH, Peggy Cohen-Kettenis, who is also very  
25 involved with the APA revision of the *DSM-5* and World Health

1 Organization ICD-11. Walter Meyer had been involved -- has been  
2 involved in WPATH. Steve Rosenthal has been involved in WPATH.  
3 Joshua Safer, Vin Tangpricha, G. T'Sjoen have all been involved  
4 in WPATH.

5 So it's not unusual for the people whose academic focus is  
6 any given field to be part of multiple professional efforts, you  
7 know, around that, but these certainly overlap with people who  
8 are members of WPATH, as well as these other associations.

9 Q. And these other associations, Doctor, I think you mentioned  
10 a few. Could you repeat those? I think you said the --

11 A. Oh, I was saying this says cosponsoring organizations, and  
12 I assume -- I don't -- this is not an endocrinologist. I don't  
13 know, you know, where each of these folks are also members, but  
14 I assume -- you know, this was Endocrine Society of North  
15 America, but I assume that some of these people are also active  
16 in the European Society of Endocrinology, in the European  
17 Society for Pediatric Endocrinology, and the Pediatric Endocrine  
18 Society.

19 So all I would say is people who are experts in the field  
20 are often drawn in or invited into efforts from different  
21 organizations when it comes to practice guidelines.

22 Q. Understood.

23 You yourself, I think, mentioned that you work with the  
24 American Psychiatric Association --

25 A. Yes.

1 Q. -- on gender-affirming issues? Did I get that right?

2 A. Yes.

3 Q. Now, Doctor, if we turn to page 14 of that document. On  
4 the bottom right, that's the number I'm referring to.

5 Let me know when you are there.

6 A. So -- okay. 14.

7 Q. Yes, under "Evidence," the paragraph --

8 A. Yes.

9 Q. -- that says: *Individuals with gender identity issues may*  
10 *have psychological or psychiatric problems.* Then it goes on to  
11 *say: Examples of conditions with similar features are body*  
12 *dysmorphic disorder, body identity integrity disorder...or*  
13 *certain forms of eunuchism...*

14 Do you see that, Doctor?

15 A. Yes.

16 Q. So you'd agree with me that someone responsible for  
17 diagnosing gender dysphoria needs to be able to separate the  
18 diagnosis of gender dysphoria from these other similar disorders  
19 with similar features?

20 A. Well, I would -- I would say I would disagree with the  
21 little part of this statement that says they have similar  
22 features. Maybe the similarity is that they are -- might be  
23 involved with perception of the body. But the part I would  
24 agree with is that, yes, a clinician, you know, in making any  
25 diagnosis also excludes other possibilities.

1 Q. And you'd agree with me that that clinician should be  
2 experienced; right?

3 A. Yes.

4 Q. And that clinician should be careful in making the  
5 diagnosis; right?

6 A. Well, you know, we should certainly be careful in  
7 everything we do as clinicians. So, you know, I would agree  
8 with that.

9 Q. Fair enough.

10 You'd agree with me that someone with only a handful of  
11 hours of training should not be responsible for making a  
12 diagnosis of gender dysphoria?

13 A. So licensed clinicians have more than a handful of hours of  
14 training. You have to do hundreds -- even if you are a licensed  
15 clinical social worker, a licensed marriage and family  
16 therapist, you have to do hundreds and hundreds of hours of  
17 training in mental health. And so -- I mean, there may be some  
18 people who only have a few hours of training going to a  
19 conference that focuses on transgender health, but they're  
20 trained, you know, in making diagnoses from -- you know, from  
21 the other parts of the practice in order to be licensed.

22 Q. So you have a mental health counselor. That mental health  
23 counselor goes to one of the trainings that you've put on in  
24 Miami or San Francisco, just the one.

25 You'd feel comfortable with that person making a diagnosis

1 of gender dysphoria?

2 A. So it's a little bit of a complicated question because --

3 Q. It's a yes-or-no question.

4 A. No. So, first of all, when we have those conferences,  
5 we -- they were part of a certification process, which was  
6 attending several conferences, having supervision with a mentor  
7 where one could discuss cases, taking an exam. So that  
8 certification process is -- is much more extensive than just  
9 going to one conference.

10 In order to make a *DSM* diagnosis by yourself, people have  
11 to get licensed, and you get licensed in making, you know, a  
12 diagnosis through -- you know, through much experience.

13 WPATH Standards of Care has another set of recommendations,  
14 which are, you know, practice guidelines recommendations, and  
15 they recommend that people be -- have knowledge and experience  
16 in making the diagnosis.

17 So certainly we would support people who make the diagnosis  
18 having knowledge and experience. So that's just -- maybe I'm  
19 just being a picky academic.

20 Q. Understood.

21 Doctor, can we go to page 15 of that document that I gave  
22 to you, the column on the left under "Evidence"?

23 A. Yes.

24 Q. Now, it says here, second sentence in that paragraph:

25 *However, the large majority (about 85%) of prepubertal children*



1 *with a childhood diagnosis did not remain GD/gender incongruent*  
2 *in adolescence.*

3 Do you have any reason to disagree with that for  
4 prepubertal children?

5 A. Yes. So, first of all, this was before the one large  
6 American prospective study happened from Kristina Olson and her  
7 group.

8 So the -- the information that backs this up are these  
9 three older studies. But even the -- the Dutch study that very  
10 often people are relying on, the Steensma 2013 study on factors  
11 relating to gender identity, even that study says there's a  
12 heterogeneity to the population of gender-nonconforming youth,  
13 and they attempted to find factors that could be associated with  
14 those people persisting.

15 So -- anyway, the -- you know, the other thing I would say  
16 just about this is this is all about a prepubertal phenomenon  
17 and not affecting those who have a gender -- who get a gender  
18 dysphoria diagnosis in adolescence and adulthood, which is not  
19 given until after the start of puberty.

20 Q. So you disagree with this statement because the science is  
21 evolving on this issue?

22 A. Yes.

23 Q. Understood.

24 If we go to recommendation 1.4, which is just slightly  
25 higher on that same page --

1 A. Yes.

2 Q. -- it says: *We recommend against puberty blocking and*  
3 *gender-affirming hormone treatment in prepubertal children with*  
4 *GD/gender incongruence.*

5 Do you agree with that recommendation?

6 A. Yes.

7 Q. So for prepubertal children, we shouldn't be expecting them  
8 to get puberty blockers; right?

9 A. Right. Well, it wouldn't do anything anyway because  
10 puberty hasn't started.

11 Q. Okay.

12 A. But, yes, we wouldn't give them puberty blockers.

13 Q. And then you brought up the Olson study.

14 A. Yes.

15 MR. JAZIL: Can we go to Plaintiffs' Exhibit 140,  
16 please?

17 THE COURT: Mr. Jazil, when you're changing gears, we  
18 need to take a lunch break in here somewhere. Is before the  
19 next document as good a point as any? If you're close to  
20 finishing, we'll finish.

21 MR. JAZIL: Your Honor, if I could just have a couple  
22 of minutes with this next document, and then we can take a  
23 break.

24 THE COURT: Sure. Sure. Tell me the number again.

25 MR. JAZIL: Plaintiffs' Exhibit 140, Your Honor.

1 BY MR. JAZIL:

2 Q. Now, is this the study you were referencing, Doctor?

3 A. Yes.

4 MR. JAZIL: Can we go to Table 3 in this study, which  
5 is on page 4.

6 Can you blow up the first -- can we make the first row  
7 a little bigger and the headings.

8 There you go.

9 IT STAFF: Any better?

10 BY MR. JAZIL:

11 Q. So, Doctor, looking at this table, it looks like the sample  
12 size in the study was 317 individuals; right?

13 A. Yes.

14 Q. And 92 of those individuals were already on puberty  
15 blockers; right?

16 A. At the end of the study.

17 Q. And 98 were on cross-sex hormones?

18 A. Yeah. At the end of the study, yes.

19 Q. Okay. So here we're talking about a study that looked at  
20 kids who weren't necessarily prepubertal, were they?

21 A. They were prepubertal when they started the study, and it's  
22 a longitudinal study. So at the end of the study, some had  
23 already gone on puberty blockers, some had already gone on  
24 gender-affirming hormones over the several years of the study.

25 Q. Now, Doctor, when someone begins using puberty blockers,

1 are they, in your experience, likely to desist?

2 A. So the people who are -- in my experience, who have been  
3 started on puberty blockers by and large have persisted in  
4 transgender identity.

5 Q. What percentage of people who start with puberty blockers  
6 go on to take cross-sex hormones?

7 A. So it kind of depends on the study, but certainly, the  
8 great majority of people started on puberty blockers go on to  
9 cross-sex hormones.

10 Q. Is that number greater than 90 percent based on those  
11 studies?

12 A. So, yeah, I -- in -- certainly if you look at the Dutch  
13 series and the overwhelming -- the overwhelming majority of  
14 people, you know, go on to cross-sex hormones.

15 Q. So you'd agree with me that desistance rates are low when  
16 someone has been on puberty blockers or cross-sex hormones;  
17 right?

18 A. So of the people who start puberty blockers or hormones,  
19 remember, are people who then have received a diagnosis of  
20 gender dysphoria of adults -- of adolescents and adults are  
21 likely to persist, and that these are a different population  
22 than people who have received -- especially the GID of childhood  
23 diagnosis in the past.

24 Q. Doctor, when we're looking at a study like this, wouldn't  
25 the study be better -- be of a higher quality if we could

1 control for the ratio of folks who are on puberty blockers and  
2 cross-sex hormones and those who aren't?

3 A. Well, when the people -- everyone who is started in this  
4 study was prepubertal when they were started on this study.  
5 They are just following people for years, and so people do, you  
6 know, eventually hit puberty and go on puberty blockers, and  
7 so -- but there was another interesting thing with this -- with  
8 Olson's group where they tried to -- they did psychological  
9 testing and found that with other children within the study or  
10 within -- you know, or in the early period of time within the  
11 longitudinal study, and they found that -- that presocial  
12 transition -- basically, they could predict the kids more likely  
13 to socially transition because they were more likely to have a  
14 cross-gender identity even before they socially transitioned.  
15 And so they were -- Olson's group was really trying to tease out  
16 kind of chicken-and-egg problems.

17 Q. One last question before lunch.

18 A. Yes. Okay.

19 Q. We've talked about prepubertal children.

20 A. Yes.

21 Q. For most children, doesn't puberty hit somewhere around the  
22 12-year-old range?

23 A. For many children, but for some assigned female at birth,  
24 it can be early, and it's getting -- it's interesting it's a  
25 little earlier in the United States than in Europe and -- yeah,

1 so it can be earlier, especially for some people assigned female  
2 at birth.

3 MR. JAZIL: Your Honor, we can go to lunch, if that's  
4 okay with Your Honor.

5 THE COURT: Yeah. We'll take the lunch break.

6 Tell me, how much longer do you think you have with  
7 Dr. Karasic?

8 MR. JAZIL: I'd like to think 30 minutes, Your Honor.  
9 I'll try to be short.

10 THE COURT: Then the rest of the day is a couple more  
11 experts; is that the plan?

12 MR. GONZALEZ-PAGAN: Yes, Your Honor. We have at  
13 least one more expert for today, and we have another one on  
14 call.

15 THE COURT: All right. When you made openings, you  
16 didn't give me much of what you really expect. You expect  
17 experts for the foreseeable future?

18 MR. GONZALEZ-PAGAN: We do have five more experts,  
19 Your Honor, but they will be more targeted. We wanted  
20 Dr. Karasic to do more of an introduction to the whole topic.

21 THE COURT: All right. Let's take -- it's your first  
22 day finding your way around town. Let's take an hour and  
23 two minutes. Let's start back at 2:10 by that clock.

24 Dr. Karasic, if you'll be back on the witness stand by  
25 2:10, please.

1 (Recess taken at 1:07 PM.)

2 (Resumed at 2:11 PM.)

3 THE COURT: Please be seated.

4 Dr. Karasic, you are still under oath.

5 Mr. Jazil, you may proceed.

6 MR. JAZIL: Thank you, Your Honor.

7 BY MR. JAZIL:

8 Q. Dr. Karasic, can we go back to the Endocrine Society  
9 guidelines?

10 A. Sure.

11 Q. If we can go back to page 15.

12 We talked about the statement in here about the large  
13 majority of children who remain GD incongruent.

14 If we go down to that paragraph, the last sentence says:  
15 *Social transition (in addition to GD/gender incongruence) has*  
16 *been found to contribute to the likelihood of persistence.*

17 Do you see that, sir?

18 A. Yes.

19 Q. Do you agree with that statement?

20 A. No. No. First of all, there is more data from Kristina  
21 Olson's group that -- one of things they did is psychological  
22 testing on children prospectively, and they found that social  
23 transition appeared to be more consequence of the prepubescent  
24 child's gender identity as opposed to the social transition  
25 preceding the expression of their gender identity.

1 Q. So, Doctor, if someone's peers accept them as a transgender  
2 person, that's something that we can categorize as an  
3 environmental factor, right, the environment the person is in?

4 A. Well, if they're a transgender person, being accepted and  
5 respected by their peers can be a positive factor for that --

6 Q. Okay.

7 A. -- for that person.

8 Q. So can we also then say that those positive environmental  
9 factors can contribute to a person's persistence in continuing  
10 to identify as they are?

11 A. Well, I don't think we know that. I think from the Olson  
12 group, when they actually followed people prospectively, that  
13 the gender identity preceded the social transition as opposed to  
14 vice versa.

15 Q. Let me ask it another way.

16 Do environmental factors play a role in persistence or  
17 desistance?

18 A. So the environmental -- can you explain what you mean when  
19 you say "environmental factors"?

20 Q. Well, let me ask you a couple of questions about that.

21 A. Okay.

22 Q. We agree that social acceptance is an environmental factor;  
23 right?

24 A. That social acceptance is an environmental factor, yes.

25 Q. Is social rejection an environmental factor?



1 A. Yes.

2 Q. Can we say that social media is an environmental factor as  
3 well?

4 A. Well, yeah. I mean, it can be. Certainly exposure to  
5 things on social media, it can be part of one's environment.

6 Q. Okay. And one's environment can play a role in  
7 persistence; right?

8 A. So I don't -- as I said, I don't think we know that. As I  
9 said, the Olson group's research kind of showed that even before  
10 social transition and, therefore, before people were -- before a  
11 child is even getting people accepting or rejecting their social  
12 transition, that they already had the cross-gender identity  
13 that -- the identity, you know, different from their sex  
14 assigned at birth.

15 Q. Understood.

16 Now, Doctor, in your practice do you counsel patients on  
17 the use of puberty blockers?

18 A. So I -- in my practice I'm not seeing prepubertal children.  
19 I -- there are sometimes adolescents who get started on puberty  
20 blockers as kind of a transition into hormones. But I'm not --  
21 I'm usually -- by the time I see somebody, they are well past  
22 Tanner Stage 2, for example.

23 So there are times when I will, though, advise people who  
24 are a little bit past Tanner Stage 2 and their parents about  
25 puberty blockers.

1 Q. Okay. And when you are talking to these folks about  
2 puberty blockers, you walk through the side effects of puberty  
3 blockers with them as well?

4 A. Yes.

5 MR. JAZIL: Okay. Can we go to page 18 on this  
6 document, DX24, left column under Side Effects.

7 THE WITNESS: Is this a different -- which document is  
8 this?

9 BY MR. JAZIL:

10 Q. It's the Endocrine Society guidelines.

11 A. Okay. I'm sorry. What page?

12 Q. Page 18, on the bottom right.

13 Now, the first sentence: *The primary risks of pubertal*  
14 *suppression in GD/gender-incongruent adolescents may include*  
15 *adverse effects on bone mineralization (which can theoretically*  
16 *be reversed with sex hormone treatment), compromised fertility*  
17 *if the person subsequently is treated with sex hormones, and*  
18 *unknown effects on brain development.*

19 Do you walk through these side effects with your patients  
20 as they are coming to you for counseling on whether or not to be  
21 on puberty blockers?

22 A. So when -- if a patient is going on puberty blockers, we do  
23 talk about bone mineralization. I'm not the person prescribing,  
24 but we do talk about that. We do talk about fertility.

25 We -- there's not a lot known one way or the other about

1 brain development, so that's not usually -- that's not known as  
2 a risk; it's more a question.

3 MR. JAZIL: Okay. Can we go to the next page, 19, top  
4 left.

5 BY MR. JAZIL:

6 Q. It says: *Limited data are available regarding the effects*  
7 *of GnRH analogs on brain development.*

8 So you agree that there is limited data on that issue,  
9 right, Doctor?

10 A. Yes.

11 Q. But it goes on to say that: *...animal data suggest there*  
12 *may be an effect of GnRH analogs on cognitive function.*

13 Do you broach that issue with your patients as they come to  
14 you for puberty blocking counseling?

15 A. No. You know, I think it's consistent with my counseling  
16 generally, which is if something has been shown in animal  
17 models, but there's not some evidence in people -- unless I'm  
18 counseling pet owners, I suppose. But I'm not -- yeah. I  
19 don't -- I can't think of another example where I counsel people  
20 because an animal model has, you know, said there is a problem.

21 But, you know, for any -- I'm not the one prescribing  
22 puberty blockers. But for any medicine I am prescribing, I  
23 always talk about risks and benefits.

24 Q. Now, Doctor, you are not a surgeon, either; right?

25 A. No, I'm not a surgeon, either.

1 Q. Now you do counsel patients who get gender-affirming  
2 surgery; right?

3 A. Yes. So I do talk about both hormones and surgery with  
4 people.

5 Q. So if we could go to page 29 of this document, Doctor,  
6 bottom right.

7 Heading 5, the second sentence in the first paragraph says:  
8 *The type of surgery falls into two main categories; those that*  
9 *directly affect fertility and those that do not.*

10 Do you agree with that, Doctor?

11 A. I mean, certainly that's one way to categorize them.

12 Q. And then it goes on -- the third paragraph down says:  
13 *Surgery that affects fertility is irreversible.*

14 Do you counsel your patients about surgery that affects  
15 fertility being irreversible?

16 A. Yes. In terms of a patient getting, for example, an  
17 orchiectomy or -- with a hysterectomy nowadays a lot of people  
18 are maintaining an ovary. But certainly with an orchiectomy the  
19 people are not going to be able to, you know, maintain  
20 fertility.

21 Q. So if you look at the first sentence of the paragraph that  
22 follows: *Gender-affirming genital surgeries that affect*  
23 *fertility include gonadectomy, penectomy, creation of a*  
24 *neovagina --*

25 A. I'm sorry. Where are you?

1 Q. It should be highlighted on your screen, sir.

2 A. Oh, okay.

3 Q. So which one did you say, Doctor, is something that --

4 A. Well, it's really what is -- the part that's really  
5 affecting the fertility primarily is the gonadectomy or  
6 orchiectomy in transwomen.

7 If the presence or absence of a penis or the creation of a  
8 neovagina is not directly what eliminates the chance of  
9 fertility, it's that the person doesn't have testes anymore.

10 Q. And, Doctor, as you are counseling patients on surgeries,  
11 do they ask you questions about the long-term quality of life  
12 associated with the surgeries?

13 A. Well -- can you rephrase the question? I'm not quite sure  
14 what -- you are saying the patient asks me about their long-term  
15 quality of life?

16 Q. Yeah. Will the surgery improve my long-term quality of  
17 life? Will it adversely affect my long-term quality of life?  
18 Do you have those conversations with your patients?

19 A. We have those conversations. The patients usually don't  
20 ask me whether, let's say, having vaginoplasty is going to  
21 improve their quality of life. They have usually, you know,  
22 kind of thought about it one way or the other, you know, even  
23 before. But we have a conversation about the risks and benefits  
24 of having surgery.

25 Q. Okay. So if we go to page 31, Doctor, of that document,

1 the last sentence of the first paragraph: *We need more studies*  
2 *with appropriate controls that examine long-term quality of*  
3 *life, psychosocial outcomes, and psychiatric outcomes to*  
4 *determine the long-term benefits of surgical treatment.*

5 Do you see that statement, Doctor?

6 A. Yes.

7 Q. First, let me ask you, do you agree with that statement?

8 A. Well, I think that more research is always welcome. And  
9 certainly even since 2017, people have continued to publish on  
10 quality of life psychosocial outcomes of surgery as well as  
11 hormones.

12 Q. Okay. So when you are having conversations with people who  
13 are coming to your clinic, do you talk about how, Well, we just  
14 don't have that much long-term data on whether or not this is  
15 going to improve your life or not?

16 A. No, because we do have a lot of data that people -- people  
17 who need gender-affirming surgery are going to benefit from it,  
18 and a lot of experience in that regard.

19 You know, there are issues that are risks and benefits of  
20 surgery. But I am not saying -- you know, this sentence says,  
21 we need more studies. The question is we need more studies for  
22 what? I don't think that we need more studies in order to be  
23 providing the surgery. We've been providing the surgery for  
24 almost 100 years. But certainly more research is always  
25 welcome.

1           And so it's certainly, you know, my place to discuss with a  
2 patient, you know, the risks and benefits of whatever procedure  
3 they are going through. But I'm not saying to them, We need  
4 more research on what your long-term quality of life is going to  
5 be after surgery.

6 Q.     Understood.

7           MR. JAZIL: We can take that down.

8 BY MR. JAZIL:

9 Q.     Doctor, when you were being questioned by my friend, do you  
10 recall being asked about the state of the scientific literature  
11 on the availability of gender-affirming medical care?

12 A.     Yes.

13 Q.     And do you recall some testimony about how it would be nice  
14 to have randomized controlled trials, but we just can't do it?

15 A.     Yes.

16 Q.     So in the abstract, you would agree with me that randomized  
17 controlled trials are the gold standard for scientific research;  
18 right?

19 A.     Well, it's -- randomized controlled trials give a  
20 particular kind of information. But we are providing care all  
21 the time without randomized controlled trials. Working with  
22 youth, most of the prescriptions I give of psychiatric medicines  
23 are medicines that have never been tested on minors and not FDA  
24 approved on minors, do not have -- they had a randomized control  
25 trial in adults, but sometimes they don't work as well in minors

1 as adults, even when there is finally a randomized controlled  
2 trial.

3 So we are always prescribing in a world where information  
4 is incomplete, and we are trying to use the best information we  
5 can.

6 Q. And did I understand your testimony correctly earlier where  
7 you said that randomized controlled trials in this area would  
8 just not be ethical?

9 A. Right. Because at this point we couldn't -- we already  
10 know that hormone blockers block puberty. And we already know  
11 that masculinizing and feminizing hormones masculinize or  
12 feminize the body. There is plenty of data for that.

13 The question that people are continuing to do studies are  
14 about its impact in other ways.

15 Q. Understood.

16 Doctor, I'd like to show you an article.

17 MR. JAZIL: Defendants' Exhibit 28, please, the title  
18 page.

19 THE WITNESS: Yes.

20 BY MR. JAZIL:

21 Q. Doctor, are you familiar with this article?

22 A. I actually have seen this article, just very briefly. It  
23 just was released. I think they actually did the systematic  
24 review in Sweden some time ago, but just did this publication in  
25 English just extremely recently.



1 Q. Are you familiar with any of the authors listed here?

2 A. No.

3 MR. JAZIL: If we could zoom out.

4 BY MR. JAZIL:

5 Q. Can you see the institutions that they are associated with,  
6 Doctor?

7 A. Yes.

8 Q. And are you familiar with these institutions?

9 A. Yes, particularly -- well, Columbia University, but also  
10 Karolinska Institutet.

11 Q. Are these reputable institutions that study gender  
12 dysphoria and gender dysphoria treatments?

13 A. Yes.

14 But, I mean, when we talk about Karolinska Institutet, I  
15 was just in a conversation with Cecilia Dhejne, who started the  
16 gender program there and is still there after all these many  
17 years, who I think agrees with some of the criticism that I gave  
18 early about the limitations of, you have a systematic review,  
19 and say the data is not as high certainty as one would like.  
20 But it does also seem like sometimes these articles have been  
21 coming out like in Florida as part of an effort to actually shut  
22 down gender-affirming care.

23 Q. So, Doctor, let me ask you about a particular point raised  
24 in this article.

25 MR. JAZIL: If we can look at page 13 of 27, please?

1           The second paragraph, *Our review highlights.*

2 BY MR. JAZIL:

3 Q.    Doctor, where it says: *First, randomized controlled trials*  
4 *are lacking in gender dysphoria research, we can all agree*  
5 *that's true; right?*

6 A.    Yes.

7 Q.    The second sentence that follows says: *We call for such*  
8 *studies, which may be the only way to address biases that we*  
9 *have noted in the field.*

10       Then it goes on to say: *Given the current lack of evidence*  
11 *for hormonal therapy improving gender dysphoria, another*  
12 *ethically feasible option would be to randomize individuals to*  
13 *hormone therapy with all the study participates, independent of*  
14 *intervention status receive psychological and psychosocial*  
15 *support.*

16       Do you see that, Doctor?

17 A.    Yes.

18 Q.    Do you think that's one way to get to better, more  
19 high-quality studies on the efficacy of gender dysphoria  
20 treatment?

21 A.    Well, I think that that is -- you know, so the one proposal  
22 is providing psychological and psychosocial support to -- so  
23 this is saying randomized individuals to hormone -- so hormone  
24 therapy to all study participants, independent of intervention  
25 status.

1           So are they saying giving people hormones and not giving  
2 people hormones, but giving everyone psychotherapy? I'm not  
3 quite sure exactly what they mean in this proposal.

4 Q.    Doctor, I think if you read the next sentence, that may  
5 give you more guidance.

6           *However, controlled trials do not necessarily require*  
7 *placebo treatment, but could for example build on the date or*  
8 *time of starting hormonal therapy to generate comparison groups.*

9 A.    Right.

10 Q.    Is that one way to build control groups that would give you  
11 better high-quality data?

12 A.    Well, you know, I think that's an approach, but I also  
13 think, you know, given what I talked about -- you know, this is  
14 based on a systematic review that it does -- when we are talking  
15 about complexity, you know, you can be talking about efforts to  
16 reduce the complexity of the intervention, but I still don't  
17 think that you're going to get high certainty on systematic  
18 review given the complex intervention.

19 Q.    Fair enough.

20           Doctor, you testified about the work you do for Maximus?

21 A.    Yes.

22 Q.    Do you recall that testimony?

23 A.    Yes.

24 Q.    And my understanding is that Maximus is subcontracting with  
25 the State of California; right?

1 A. Yes.

2 Q. And Maximus gives you a set of files for individuals who  
3 were denied coverage for gender-affirming care; right?

4 A. Yes.

5 Q. And your job is to review those files and decide whether or  
6 not to change the initial determination of denial; is that  
7 right?

8 A. Right.

9 I'm supposed to make a determination of whether there's  
10 an -- there's a question as posed about medical necessity, and  
11 I'm supposed to answer that request.

12 Q. Okay. And, again, my understanding of your early testimony  
13 is that because of your experience in the field, you get the  
14 difficult cases?

15 A. Yes.

16 Well, what's happened is in the beginning I got a lot of  
17 denials. Years ago I was getting a lot of denials, simply  
18 because insurance companies in their bureaucracy had not updated  
19 their, you know, systems for approving or denying surgery where  
20 people were, you know, clearly -- and under California law they  
21 qualified for care, were receiving denials and then they appeal,  
22 and it was a very easy thing.

23 Over the years, there are fewer and fewer of those. And  
24 the ones I'm getting are actually more likely to be quite  
25 challenging in terms of the medical necessity.

1 Q. And, Doctor, correct me if I'm wrong, but you recommended  
2 that the treatment be made available to the individuals who were  
3 initially denied in about 80 percent of the cases?

4 A. I said in the deposition 70 or 80 percent. But if I  
5 would -- I guess you might -- I'm not sure if it's since the  
6 deposition, but the ones that I've done in recent times -- I've  
7 just done four recent ones, and two were denials -- and two were  
8 I said it was medically necessary, and two I said it was not  
9 medically necessary, in my most recent ones.

10 But early on, I would get a whole slew of them where there  
11 didn't seem to be any reason for the insurance company to be  
12 denying it. And so my percentage of approval started out very  
13 high, and it's gradually been going down, because I think the  
14 insurance companies are now approving more of the appropriate  
15 ones, and the denials tend to be ones that are -- where there is  
16 a little more question.

17 Q. Understood.

18 I have one last set of questions. And I want to make sure  
19 I understood your testimony correctly on this.

20 You testified earlier that you were on the APA, the  
21 American Psychiatric Association, Work Group on gender  
22 dysphoria?

23 A. Yes.

24 Q. And while you were on that Work Group, the APA endorsed the  
25 WPATH Version 8 Standards of Care, if I've got the chronology

1 right?

2 A. So I'm not involved in -- our Work Group is not involved in  
3 position papers or endorsements of the APA. That's a separate  
4 process. Our charge as the Work Group on gender dysphoria was,  
5 basically, what's the research. There were two position papers,  
6 one before I joined the Work Group and one after -- not position  
7 papers. I'm sorry -- research papers that basically discussed,  
8 you know, issues and care for psychiatrists, and which, within  
9 this kind of big APA, it's just a totally different track than  
10 the assembly and work trustees kind of track of approving the  
11 statement.

12 So there were times when I might be in touch with a  
13 scientific committee about something, but it was not about the  
14 position papers of the APA.

15 Q. Understand.

16 But the APA did endorse the WPATH Version 8 Standards of  
17 Care?

18 A. The APA has, in various documents, endorsed the use of  
19 WPATH Standards of Care and the provision of gender-affirming  
20 care in various statements, and has opposed discrimination  
21 against transgender people in the provision of health care.

22 I don't -- if they've -- I don't think they've specifically  
23 endorsed Standards of Care 8. They may have, because I'm not,  
24 kind of, involved in that kind of wing of the APA. Standards of  
25 Care only came out in September, and the APA usually doesn't

1 move that fast.

2 Q. They endorsed the Version 7 Standards of Care?

3 A. Well, it was in multiple documents, including our research  
4 papers and elsewhere, about, you know, referring to WPATH  
5 Standards of Care as -- for practice guidelines by the APA.

6 Q. Okay. And when the APA in various documents says that the  
7 Version 7 or Version 8 Standards of Care are to be considered as  
8 a clinician, do they send out a membership email blast? Do you  
9 know?

10 A. They usually -- APA doesn't usually send out a membership  
11 email blast, so I'm not -- I mean -- yeah, I'm not aware that  
12 they -- that they did. I'm just thinking of, you know, things  
13 like research papers and things like that that -- if they talk  
14 about transgender care, that they -- they refer to the WPATH  
15 Standards of Care.

16 Q. And these resource papers would be on the membership part  
17 of the website for the APA?

18 A. Well, for example, you know, I mean, I'm familiar with a  
19 resource paper that I was involved in, and a version of that got  
20 published in *Transgender Health*, which was openly available to  
21 everyone. There was a version that -- a shortened version that  
22 was in *American Journal of Psychiatry*, which is the journal  
23 owned by the APA. And then within APA there resides kind of a  
24 resource document on considerations in transgender care that  
25 also was a result of that document.

## Redirect Examination - Dr. Karasic

1           And then there was a document a few years earlier, before I  
2 was on the committee, that was published as an article and that  
3 also I think is a resource document for the APA.

4           Q.    Do you know how many people at the APA are responsible for  
5 putting these resource materials up?

6           A.    No.

7                       MR. JAZIL: I have no further questions, Your Honor.

8                       THE COURT: Redirect?

9                       MS. DeBRIERE: Yes, Your Honor, just a few.

10                                       REDIRECT EXAMINATION

11          BY MS. DeBRIERE:

12          Q.    Dr. Karasic, at the beginning of my friend's  
13 cross-examination, he was talking about the process for  
14 approving the Standards of Care 8.

15                       Was approval by the board the only step taken to develop  
16 the Standards of Care 8?

17          A.    I'm sorry. Can you repeat the question?

18          Q.    Was approval by the board the only step taken to develop  
19 and adopt the Standards of Care 8?

20          A.    No, there was a hands-off quality between the board and the  
21 Standards of Care committee -- the editors and the committee,  
22 and the board was involved initially in appointing the -- the  
23 editors, and then they were involved at the end in approving the  
24 documents.

25                       And there were members of the board who were also members



1 of various Standards of Care 8 committees, but they weren't  
2 operating as board members. They were just experts, you know,  
3 in a particular field. But the board did not -- did not --  
4 right, just -- was just -- had that initial appointment of  
5 editors and then final approval of the document, and everything  
6 that went on with the Standards of Care really were -- the three  
7 editors were the bosses.

8 Q. Were the authors adopters of Standards of Care -- Standards  
9 of Care 8, did they consider divergent viewpoints in developing  
10 and adopting the Standards of Care?

11 A. Yes. You know, Dr. Levine and others often will mention  
12 Laura Edwards-Leeper, and she was one of the only people --  
13 there may have been one other -- who was on both the adolescent  
14 committee and the child committee. So, you know, somebody who  
15 the defendants' experts, you know, make reference to was on the  
16 Standards of Care adolescent committee, which is the most  
17 controversial committee, in a sense, because you did have these  
18 laws being passed or these, you know, debates about denying care  
19 to adolescents that were already kind of rumbling near the end  
20 of the process.

21 So, yes, there was a -- quite a -- there was an agreement,  
22 I think, among people who are on the committee about the utility  
23 of gender-affirming care, but there were also, you know,  
24 disagreements on all kinds of things.

25 And the Standards of Care's use of the Delphi process,

1 where recommendations were put to a vote, and everyone voted and  
2 also commented on any potential changes they would make -- if it  
3 got 75 percent, the statement, in essence, could stay, and if it  
4 got less than 75 percent, then it could be resubmitted, but only  
5 in an altered way, to Delphi, taking into account the comments.  
6 And so there was a process for resolving those kind of  
7 differences.

8         And then near the end of the process, there were two  
9 things. One was the Standards of Care were revealed publicly  
10 and actually as just -- you know, being chapter lead on the  
11 mental health chapter, some of it I saw for the first time at  
12 that time, and it got public comment. And so then public  
13 comment was incorporated.

14         And there was also an effort with the editors to bring  
15 together people on the various chapters to -- you know, if an  
16 inconsistency was found between something that was said in one  
17 chapter and something that was said in another.

18 Q. My friend also mentioned a Dr. Hilary Cass and whether --

19 A. Yes.

20 Q. -- she was involved in any of this process.

21         To your knowledge, does Dr. Cass provide gender-affirming  
22 care?

23 A. No, not to my knowledge. And I had never heard of her when  
24 we were actually doing this process, you know, most of which  
25 took place years ago and -- because she wasn't somebody -- I

1 think she was, you know, just somebody within DNHS and not  
2 somebody providing transgender help.

3 Q. How did you -- as the chapter lead, what was the process  
4 for selecting the authors?

5 A. So we had a whole pile of PDF -- virtual pile of PDFs of  
6 people's CVs, very impressive people, and I met with the three  
7 editors, and we went through the CVs. And we -- we definitely  
8 wanted people who were experts and also people who were leading  
9 efforts for gender care, in this case mostly psychiatrists in  
10 various systems, and so that's -- you know, we had experts from  
11 different places.

12 Q. How did you obtain those CVs?

13 A. So there was a -- WPATH had sent out a call for CVs for  
14 people who wanted to be involved in the effort.

15 Q. Did Hilary Cass submit a CV?

16 A. No.

17 Q. Did any of the other applicants my friend was discussing  
18 during your cross-examination --

19 A. No, Stephen Levine did not submit an application to be  
20 involved in Standards of Care 8.

21 Q. We discussed a bit about Cecilia Dhejne and your  
22 conversations with her and her viewpoint on gender-affirming  
23 care.

24 Did defendants at any time, their experts, rely on Dhejne's  
25 research in their own expert reports?

1 A. So did you say did the defendants rely on Cecilia Dhejne?

2 Q. Yes.

3 A. Yes.

4 Q. Okay. Shifting gears a little bit, what's your response to  
5 defendants' assertion that once an adolescent receives  
6 puberty-delaying medications that they're put on this conveyer  
7 belt of care and then they won't receive hormone therapy and,  
8 inevitably, surgery?

9 A. Yeah. So it's not true. For some reason it always brings  
10 into mind the "I Love Lucy" chocolate factory where Lucy and  
11 Ethel are stuffing, you know, the conveyer belt. To me, it's  
12 not an analogy that's relevant at all.

13 First of all, if you look at -- that criticism was often  
14 done in England where the wait for youth to be seen in the  
15 adolescent gender clinic -- that there was a three-year wait for  
16 the child in the adolescent gender center. So that doesn't seem  
17 to me like a very sufficient conveyer belt.

18 And then, secondly, once you get care, you have to  
19 continue, you know, taking the care. Presumably, the people who  
20 continue care are not trapped on a conveyer belt. They are  
21 feeling better, and if they are feeling worse, then they, you  
22 know, would stop the medication. And I gave the example of  
23 participants who had second thoughts and stopped the process for  
24 their kid. And you know, parents can do that.

25 Q. Judge Hinkle asked if there are transgender people who are

1 perfectly comfortable living as they are.

2 To get a better understanding of that, what is your view of  
3 how a transperson would be impacted if they are not able to live  
4 consistently with their gender identity?

5 A. Right. I guess I was a little confused. Just in the area  
6 of, like, living as they are, it could be living as they are  
7 when they're already living in a gender other than their sex  
8 assigned at birth.

9 It could be, you know, the people out there that I don't  
10 see who have endorsed on a phone survey that they have a  
11 transgender identity, and we don't know if they have clinically  
12 significant distress because they haven't presented to doctors.

13 Did I -- am I on the right track? I'm not quite sure.

14 Q. How would an individual be impacted if they weren't able to  
15 live consistently with their gender identity?

16 A. Right. And so for people who are needing to transition and  
17 when a halt is put to that, there can be tremendous distress,  
18 and that's something I've witnessed with many of my patients who  
19 have had -- one circumstance or another has kept them from  
20 social transition, from hormones, from surgery. And I've had  
21 patients who have suffered tremendously, patients who made  
22 suicide attempts as a result, people who have just had  
23 prolonged, you know, misery as a result.

24 And so I would say that's not something I would -- you  
25 know, I don't think that's, like, a reasonable option, to just

1 deny people from -- you know, from living as they need to live.

2 Q. Are there transpeople who do not have gender dysphoria  
3 because they can live consistently with their gender identity  
4 through social transition --

5 A. Yes.

6 Q. -- without gender-affirming medical care?

7 A. Yes. And so -- you know, I was talking about the example I  
8 see most often with people who are nonbinary identified, and I  
9 see some young people for depression or anxiety who are -- have  
10 a nonbinary identity and are not desiring hormones or surgery,  
11 at least at this time. You never know in the future.

12 Q. And others are able to live consistently with their gender  
13 identity with the use of medications --

14 A. Yes.

15 Q. -- or surgery?

16 A. Or surgery, yeah.

17 Q. So what is the predictable effect, then, in your opinion,  
18 of a transperson -- transgender person not being able to live  
19 consistently with their gender identity?

20 A. Suffering.

21 Q. Just a few more question, Dr. Karasic.

22 Are side effects unique to gender-affirming medical care?

23 A. No. And, you know, when the bone mineralization thing came  
24 up, I think about antidepressants. There are a number of  
25 studies that show that people who have been on antidepressants

1 after the age of 55 have higher rates of hip fractures, and yet  
2 not much is really even discussed, I think, with most patients  
3 about that fact.

4       So, you know, there are side effects to every -- or, you  
5 know, one that has gotten more attention is -- that what -- and  
6 involves my work is young people getting antidepressants, that  
7 for people under 24, antidepressants can cause increased  
8 suicidal ideation, and we always talk about that with our young  
9 people, that -- you know, we're making the judgment with the  
10 parents that giving them the antidepressant is going to do more  
11 benefit for them than harm, but there's always a chance it could  
12 make them suicidal and, you know, that they could end up, you  
13 know, needing to be hospitalized as a direct result of my  
14 prescription. So it's something we live with -- you know,  
15 doctors live with -- with every intervention we do.

16 Q. Are there any other types of medical care that may impact  
17 fertility?

18 A. Yes.

19 Q. Does the existence of that mean that the care should not be  
20 recommended?

21 A. No.

22 Q. And then, finally, my friend read select passages from the  
23 Endocrine Society guidelines.

24       But those guidelines taken as a whole, do they recommend  
25 gender-affirming medical care when medically necessary?

1 A. Yes.

2 MS. DeBRIERE: That's all I have, Your Honor.

3 THE COURT: Dr. Karasic, I have several questions.

4 THE WITNESS: Okay.

5 THE COURT: Mr. Jazil asked you a question about the  
6 reference in the Endocrine Society paper --

7 THE WITNESS: Yeah.

8 THE COURT: -- what everyone calls that track, that  
9 referred to animal studies.

10 THE WITNESS: Yeah.

11 THE COURT: And you said something about you're not a  
12 veterinarian. If they were bringing you their pets, it would  
13 concern you.

14 I take it whoever did this animal study wasn't trying  
15 to determine the effect of these hormones on the animals. They  
16 were trying to determine the effect of -- puberty blockers, I  
17 guess, not hormones.

18 THE WITNESS: Yes.

19 THE COURT: They were trying to determine the effect  
20 of puberty blockers on people.

21 THE WITNESS: Yes. And -- so I apologize for being  
22 glib. I actually saw a presentation that could be the one that  
23 was referred to. I think it was at the WPATH conference in 2009  
24 in Oslo. And it was -- they had sheep who were going through  
25 puberty, and they had puberty blockers, and then they dissected



1 their brains and were looking at comparisons of people's brains.

2           The thing is that there are potential side effects of  
3 all kinds of drugs in animals where we don't know that that  
4 affects people, and we don't warn people about potential animal  
5 side effects unless we really have a sense that this is -- that  
6 there's substantial evidence that's going to cross over. For --

7           THE COURT: I get it --

8           THE WITNESS: Yeah.

9           THE COURT: -- not everything that affects animals  
10 affects people.

11          THE WITNESS: Right.

12          THE COURT: Lots of studies are done using animals,  
13 and sometimes that carries over; sometimes it doesn't --

14          THE WITNESS: Yeah.

15          THE COURT: -- sometimes the dosages are different. I  
16 understand you have to be very careful with this.

17          THE WITNESS: Yeah.

18          THE COURT: But I have to tell you, as I listened to  
19 that exchange --

20          THE WITNESS: Yeah.

21          THE COURT: -- I think if I'd been the parent  
22 deciding -- helping to decide for my 12-year-old --

23          THE WITNESS: Yeah.

24          THE COURT: -- what I was going to do, I wouldn't be  
25 very pleased if I found out later that there was an animal study

1 that at least had this and the doctor didn't even tell me.

2 THE WITNESS: Yeah.

3 THE COURT: I think what I would have expected the  
4 doctor to say is, We've got this animal study. We don't know  
5 how it carries over.

6 THE WITNESS: Yeah.

7 THE COURT: It's not something that concerns me, but  
8 it's there.

9 THE WITNESS: Yeah.

10 THE COURT: But if I understood what you told me, you  
11 don't tell people about this at all.

12 THE WITNESS: Well, first of all, I am not usually the  
13 person counseling people for puberty blockers at the start of  
14 puberty, which is when this happens. So it's not part of my  
15 usual practice. I see post-prepubertal adolescents.

16 So there can be -- puberty blockers are sometimes used  
17 up even through age 17 even alongside -- sometimes they start  
18 people on puberty blockers, and then they add in hormones even  
19 when people are past Tanner Stage 2.

20 And that is the kind of more common experience with my  
21 patients, because I'm not seeing the prepubescent children that  
22 are then being, you know, followed for when they start puberty.  
23 So I'm not usually in that situation to give that kind of  
24 counseling.

25 But the -- it is true that there are kind of a legion

1 of side effects for almost any drug that we give, and what I do  
2 prescribe all time and where I'm the -- because I'm the  
3 prescriber, I'm the main responsible person for prescribing --  
4 for talking about risks and benefits.

5           Every psychiatric medicine I prescribe has a list of  
6 potential side effects that's so long that it is up to me to try  
7 to filter out what's relevant in part of the discussion, and I  
8 can tell people that, you know, of course they can read more on  
9 it. But, you know, it's like if you watch a commercial for  
10 medication, there's this long list. Well, if you say the actual  
11 list of things that are possible, it is actually even much  
12 longer and so --

13           THE COURT: I get it.

14           THE WITNESS: I don't know if -- I just don't know if  
15 I would tell -- you know, discuss an animal model unless I felt  
16 that that was -- that there was some reason to connect it.

17           And I think the same -- in the same passage they said,  
18 you know, the one -- a study in people did not show a cognitive  
19 difference.

20           THE COURT: Or at least on executive function.

21           THE WITNESS: On executive function.

22           THE COURT: I'm not going to get down into the weeds  
23 about --

24           THE WITNESS: Right, right, right.

25           THE COURT: -- whether that's different than

1 cognitive.

2 Let me ask you about something else.

3 There was some discussion back and forth about what  
4 may be described rather imprecisely as detransitions.

5 THE WITNESS: Yes.

6 THE COURT: I take it that there are some people, some  
7 kids, who start on puberty blockers, and at some point they go  
8 back to the gender identity matching their natal sex; true?

9 THE WITNESS: Probably, yes. There have not -- there  
10 are not a lot of them.

11 THE COURT: Well, I'm not talking about how many. I  
12 understand --

13 THE WITNESS: Okay. Sure. Yes.

14 I would say -- I would say it's probably true.

15 THE COURT: There are examples; people have testified  
16 to it; right?

17 THE WITNESS: Right.

18 No, I think that's true that somebody -- you're saying  
19 somebody goes on puberty blockers, and then when they are still  
20 in puberty, they decide to stop because -- yeah, I think that's  
21 true.

22 THE COURT: There are some people who -- we'll just  
23 pick one gender to start with -- sex assigned at birth is male.

24 THE WITNESS: Right.

25 THE COURT: They identify as female.

1 THE WITNESS: Yes.

2 THE COURT: They see a doctor; they start  
3 gender-affirming care.

4 THE WITNESS: Yeah.

5 THE COURT: And at some point the person then  
6 identifies again as male.

7 THE WITNESS: Yes.

8 THE COURT: That happens?

9 THE WITNESS: Yeah. Yes.

10 THE COURT: And the other way around, too?

11 THE WITNESS: Yes.

12 THE COURT: Somebody natal sex, female identifies as  
13 male.

14 THE WITNESS: Yes.

15 THE COURT: Goes back --

16 Is that always the result of one of the two things I'm  
17 going to describe?

18 The first, I think you referred to change in gender  
19 identity?

20 THE WITNESS: Yeah.

21 THE COURT: So I take it a person can identify and  
22 then change their identification?

23 THE WITNESS: Yeah.

24 THE COURT: The second would be malpractice, or close  
25 to it; a doctor that fails to ask all the questions and do the

1 treatment and get it right, so start somebody that shouldn't  
2 have been started in the first place.

3 Is it always one of those two things?

4 THE WITNESS: Well, no. The example that I gave was  
5 one where the adolescent did not change her gender identity, but  
6 the parents decided that they didn't want to support it. And  
7 that was -- that's the one patient that I've had that has had  
8 that experience.

9 THE COURT: I would not --

10 THE WITNESS: So there might be a third.

11 THE COURT: I would not have included that in my  
12 description. I get that.

13 THE WITNESS: Yeah.

14 THE COURT: But I'm talking about the patient who  
15 really identified and got treatment and then so-called  
16 detransitions.

17 THE WITNESS: I would think in terms of the first case  
18 that there are some people who might identify in a binary way as  
19 trans and then later realize that they may be more comfortable  
20 identifying as nonbinary and, thus, don't want to make a binary  
21 transition.

22 That's as opposed to -- although I'm sure there are  
23 some -- as opposed to people who, you know, are diagnosed with  
24 gender dysphoria, have six months or more of gender dysphoria  
25 that's strong enough to be impairing, and then it just vanishes.

1           In my experience, when I've seen people make changes,  
2 it's more just to -- kind of a reconceptualization of how to  
3 make sense of the symptoms they have, and that some feel like a  
4 binary transition doesn't feel right for them either and chose  
5 to be identified as nonbinary.

6           THE COURT: So you don't think there's going to be  
7 somebody that says at, say, 12 years old, born male but identify  
8 as female, and then sometime later says, I just got it wrong. I  
9 really -- I was born male and now I identify as male? You don't  
10 think that happens?

11           THE WITNESS: So -- and you are saying within --  
12 within adolescents, and then stopping the puberty blocker, or  
13 are you saying that they have regret later on?

14           THE COURT: I'm trying to eliminate all that.

15           THE WITNESS: Okay.

16           THE COURT: All that other stuff.

17           THE WITNESS: Yeah.

18           THE COURT: And, I mean, I may have it wrong.

19           THE WITNESS: Yeah.

20           THE COURT: You're the first witness in the case.

21           THE WITNESS: Sure.

22           THE COURT: And apparently there are going to be a lot  
23 more.

24           THE WITNESS: Yeah.

25           THE COURT: And I say that just to show we can all be

1 glib every now and then.

2 THE WITNESS: Yeah.

3 THE COURT: So I'm not trying to prejudge anything or  
4 say I know this.

5 THE WITNESS: Yeah.

6 THE COURT: But I think I understand the defense  
7 position to be that sometimes people come in for this treatment  
8 and get the treatment, and it turns out they shouldn't have  
9 gotten it; they were wrong, that they believed --

10 THE WITNESS: Right.

11 THE COURT: They may think -- they may assert it's  
12 from social media or from peer pressure or whatever.

13 But I take it that's part of the theory, that  
14 sometimes impressionable kids -- and peer pressure is a big  
15 thing when you are 12 or 13 -- that sometimes the peer pressure  
16 causes somebody to say that they identify as the opposite sex  
17 when they really don't, and later they realize that they really  
18 didn't. That's the theory.

19 Apparently there are some people who will testify  
20 that, Yes, that's what happened to me.

21 THE WITNESS: Yeah.

22 THE COURT: And I sort of had the impression from your  
23 testimony when Mr. Jazil was asking questions that you think  
24 that just never happens.

25 THE WITNESS: No, I wouldn't say it never happens.



1 It's -- in my experience I haven't had -- I've had patients  
2 detransition for various reasons, but they've continued to have  
3 gender dysphoria and then retransition again with gender  
4 dysphoria.

5 THE COURT: I understand.

6 THE WITNESS: But I'm not denying --

7 THE COURT: There is a reason why somebody would stop  
8 the treatment or whatever.

9 THE WITNESS: Sure.

10 THE COURT: But I'm talking about what -- the real  
11 subjective --

12 THE WITNESS: Yeah.

13 THE COURT: -- identity the person has.

14 THE WITNESS: Right.

15 THE COURT: So I'm saying somebody who says --

16 THE WITNESS: Right.

17 THE COURT: -- I identify as female; later comes to  
18 say, I was wrong. I really identify as male, my sex assigned at  
19 birth, and did all along, I was just incorrect.

20 THE WITNESS: Right.

21 THE COURT: And then we can talk about how often it  
22 happens and what difference it would make.

23 But does it happen, or are you telling me it just  
24 never happens?

25 THE WITNESS: I always counsel people that there's a

1 chance of regret. And that we -- you know, that people don't  
2 always -- doctors or patients are not always able to foretell  
3 the future, and as part of weighing risks and benefits, and for  
4 every drug, for every prescription, for every intervention we  
5 make, there's a set of risks and benefits.

6           For many of those, the risks are actually far more  
7 common and far more severe, even than, let's say, going on a  
8 puberty blocker and then stopping the puberty blocker where,  
9 presumably, one would resume normal puberty, like the patient  
10 that I described his parents stopped.

11           So no intervention is risk free. And, you know,  
12 certainly there can be people who wished they had never had  
13 gender-affirming care. It's a small minority people, but it  
14 doesn't make their experiences any less valid.

15           But there's also risks and benefits to everything.

16           THE COURT: Yeah. I really wasn't getting into that.

17           THE WITNESS: That's what -- I'm just -- what I mean  
18 to say is, like, the present -- the fact that there are some  
19 people who may be coming later to testify, you know, of course,  
20 their stories are important and valid. But it doesn't -- when  
21 I'm providing care for people, I'm looking at, you know, risks  
22 and benefits, including the risk of regret. But that risk has  
23 just been very small in my -- you know, in my practice, in terms  
24 of numbers of -- you know, numbers of people.

25           THE COURT: Well, and that is a little different than

1 what I was trying to get at. But that's very much what I was  
2 going to ask you about next.

3           You're right, there are bad outcomes in almost any  
4 medical treatment. Maybe there are exceptions, but very few.  
5 Any kind of medical treatment, there's sometimes bad outcomes.  
6 And often the medical provider can put that in some kind of a  
7 percentage. So -- and we've all had these experiences. It's  
8 kind of a common experience. But I can tell you several that  
9 I've known people involved with.

10           So there's a procedure where you replace a heart valve  
11 in elderly people that's too old to crack open the chest and do  
12 it the old way, and you can run a heart valve up through the leg  
13 and push the old valve out of the way and put in the new one.  
14 And there's, of course, the risk of stroke and infection and  
15 various things. And they'll tell you before they do that look,  
16 here's our experience. We get -- you know, the average in the  
17 country of doing these are 6 percent infections, and we've got  
18 our rate down to 3 percent.

19           They can replace your hip, and they'll tell you, Look,  
20 the biggest problem you are going to have with this is if you  
21 get an infection, it's not good. And we are running about  
22 2 percent.

23           For all of us that get old enough, at some point if  
24 you grew up in Florida, or you wind up with cataracts and  
25 they'll tell you, you know, 80 percent of the people come out of

1 this and do fine, and 20 percent are going to wind up with halos  
2 when you are driving down the road.

3 THE WITNESS: Yeah.

4 THE COURT: Percentages. Anybody got any percentages  
5 for how many folks that go through with puberty blockers lined  
6 up with bad outcomes or less than optimal outcomes? Anybody put  
7 percentages on any of this?

8 THE WITNESS: Yes.

9 So the Dutch have been following -- because they were  
10 the first people to really use puberty blockers for children  
11 with gender dysphoria, and so they've been following people for  
12 years. And they published some data that -- of people  
13 started -- who started on puberty blockers in the program who  
14 were followed for several years, that 98 percent of them were  
15 still on hormones.

16 And so the Dutch, of course, are very good, careful  
17 clinicians. Does that apply in every circumstance? You know --  
18 but I think the percentages are very high of people who -- and  
19 particularly when we are talking about -- you know, we were  
20 talking about people on puberty blockers and then going to  
21 hormones. The percentage of people who stay on hormones is very  
22 high in the information that we have.

23 And the Dutch -- the number that the Dutch have is  
24 98 percent.

25 There was, I think, a survey -- an American survey of

1 people who had gone off hormones at any point that was higher,  
2 but most of those people were people who went -- who had gone  
3 off hormones for other reasons, not because they weren't --  
4 because of a change in gender identity. And that was not done  
5 as carefully as the Dutch who were just following their whole  
6 population longitudinally.

7 THE COURT: Questions just to follow up on mine,  
8 Ms. DeBriere?

9 MR. GONZALEZ-PAGAN: No, Your Honor.

10 THE COURT: Mr. Jazil?

11 MR. JAZIL: No, Your Honor.

12 THE COURT: Thank you, Dr. Karasic. You may step  
13 down.

14 THE WITNESS: Okay. Thank you.

15 (Dr. Karasic exited the courtroom.)

16 THE COURT: Please call your next witness.

17 MR. GONZALEZ-PAGAN: Yes, Your Honor. Ms. Coursolle  
18 will be calling our next witness.

19 MS. COURSOLLE: Dr. Daniel Shumer, Your Honor.

20 (Dr. Shumer entered the room.)

21 THE COURTROOM DEPUTY: Please remain standing and  
22 raise your right hand.

23 **Dr. DANIEL SHUMER, PLAINTIFFS WITNESS, DULY SWORN**

24 THE COURTROOM DEPUTY: Please be seated.

25 Please state your full name and spell your last name

## Direct Examination - Dr. Shumer

1 for the record.

2 THE WITNESS: Daniel Evan Shumer, S-h-u-m-e-r.

3 DIRECT EXAMINATION

4 BY MS. COURSOLLE:

5 Q. Thank you, Dr. Shumer.

6 Can you share your profession with the Court, please?

7 A. Yes. I'm a pediatric endocrinologist.

8 Q. Can you please summarize for the Court your education and  
9 training?

10 A. Certainly.

11 I did my undergraduate and then continued medical school at  
12 Northwestern University. Afterwards I was a pediatrics resident  
13 at the University of Vermont in Burlington. I stayed for  
14 another year as for the chief resident. Afterwards I did a  
15 pediatric endocrinology fellowship at Boston Children's  
16 Hospital. And concurrent with that I received a master's of  
17 public health from the T.H Chan School of Public Health at  
18 Harvard University. And that completed my training.

19 Q. What is your current position?

20 A. I'm a pediatric endocrinologist at the University of  
21 Michigan. I'm the clinical director of the child and adolescent  
22 gender clinic at our Mott Children's Hospital at the University  
23 of Michigan. I'm also the medical director for something called  
24 the Comprehensive Gender Services Program at the University of  
25 Michigan, which is how that university provides care to the

1 transgender population in general, adult and pediatric.

2 Q. So what is your patient population overall at the  
3 University of Michigan?

4 A. Yes. So as a pediatric endocrinologist I don't only see  
5 patients in the Child and Adolescent Gender Clinic, but I do two  
6 half days a week, and then another half day a week I see  
7 patients in Type 1 diabetes clinic, and then another half day a  
8 week I see patients in general pediatric endocrinology clinic.

9 So I'm seeing patients with a whole cast of pediatric  
10 endocrine issues, about half of the time seeing patients with  
11 gender-related issues, the other part of the time other  
12 endocrine problems that children may have.

13 Q. What is the age range of the population -- the patient  
14 population that you see?

15 A. In the Child and Adolescent Gender Clinic, we are primarily  
16 seeing kids from maybe just before puberty or at the start of  
17 puberty on up to 18.

18 Q. And in your other clinics?

19 A. So other endocrine problems may occur in infancy or younger  
20 childhood. So, you know, kids with Type 1 diabetes is developed  
21 at that age. Other endocrine problems have more to do with  
22 infancy. So generally birth to 18.

23 In the -- my role as the medical director for the  
24 comprehensive gender services program, I help to coordinate the  
25 care for both the pediatric and adult population.

1 Q. Of your own patients, approximately what percentage  
2 comprise adults?

3 A. So I will oftentimes see patients as new patients that may  
4 be 16 or 17, for example, because they can't be seen on the  
5 adult -- in the adult clinics. And as they turn 18, I don't  
6 automatically just send them over to the adult clinic. I  
7 sometimes have a problem hanging onto patients too long because  
8 it's hard to say good-bye sometimes. So that 18- to 21-year age  
9 group is a time where we will talk about transition to adult  
10 care.

11 So I would say I don't have any patients probably older  
12 than about 22 that I personally take care of.

13 Q. And about what proportion of your patient population --  
14 speaking of the patients to whom you're providing -- or you're  
15 seeing in the gender clinic, what proportion are prepuberty?

16 A. Well, of course, if a child is prepubertal, then they  
17 wouldn't require or be eligible for any medical intervention.  
18 So it's not very frequent that I'll see a young person, you  
19 know, much younger than the expected age that puberty starts.

20 Sometimes the parents of a young person, you know, maybe 5  
21 or 6 years old, that patient may be referred to the pediatric  
22 gender clinic, and, you know, when a patient is referred,  
23 whether -- whatever age they are, the very first step is a  
24 triage phone call with our social worker.

25 And at that time the social worker gathers information



1 about, okay, Why were you referred? What are your goals and  
2 expectations for this referral?

3 The parents of a 5-year-old might say, you know, This is so  
4 new to us. We don't know where to turn. We'd like -- you know,  
5 we'd like to see you for assessment.

6 The social worker may then schedule that assessment but  
7 explain to the parents, You don't need to see a doctor, that --  
8 you know, one of the nice things about prepubertal kids with  
9 differences in gender identity is they can just focus on being a  
10 kid and safely explore their gender identity, that seeing a  
11 doctor isn't needed. Sometimes those parents do want to see me  
12 to sort of learn a little bit more about the state of, you know,  
13 health care for their kid down the road, but it's kind of  
14 uncommon.

15 But I always am happy to see those types of families to  
16 just provide the reassurance that if their child does have a  
17 difference in gender identity, that they have gender dysphoria  
18 as puberty is starting, and that we'll be there to help. If  
19 they don't have gender identity at that time, then it was nice  
20 to meet you.

21 Q. Over the course of your career, how many people -- to how  
22 many people have you provided gender-affirming care?

23 A. I'd estimate somewhere between 4- and 500.

24 Q. And I think you said earlier that you do two half days a  
25 week in the gender clinic currently and two days in other

1 endocrine clinics.

2 Does that mean about half of your concurrent practice is  
3 comprised of gender-affirming care?

4 A. Yes.

5 Q. Will you summarize your professional affiliations for the  
6 Court, please?

7 A. Yeah. So I'm a member of the Pediatric Endocrine Society,  
8 and I'm a member of the Endocrine Society.

9 Q. Dr. Shumer, are you a member of the World Professional  
10 Association for Transgender Health, or WPATH?

11 A. I'm not.

12 Q. When you submitted your expert report in this case, did you  
13 submit a copy of your CV?

14 A. I did.

15 Q. And does that CV accurately summarize your professional  
16 activities and qualifications?

17 A. It does.

18 MS. COURSOLE: Your Honor, Dr. Shumer's CV is  
19 Plaintiffs' Exhibit 360 in the stipulated exhibits provided to  
20 the Court.

21 THE COURT: That's admitted.

22 (PLAINTIFFS EXHIBIT 360: Received in evidence.)

23 MS. COURSOLE: Great.

24 At this time we'd move to have Dr. Shumer qualified as  
25 an expert in endocrinology and specifically the treatment of

1 gender dysphoria.

2 THE COURT: Questions at this time?

3 MR. JAZIL: No questions, Your Honor.

4 THE COURT: You may proceed.

5 MS. COURSOLE: Thank you, Your Honor.

6 BY MS. COURSOLE:

7 Q. Dr. Shumer, what is puberty?

8 A. Puberty is a stage of life, basically where a child becomes  
9 an adult through a process of physical changes.

10 Q. And do clinicians think of puberty in any kind of stages?

11 A. Yeah. Oftentimes it's helpful for a doctor to specifically  
12 describe where a person is in puberty. There's, you know,  
13 changes in the chest, changes in the genitals, changes in  
14 secondary hair, and those can be described in Tanner stages.

15 Dr. Tanner was someone that came up with this system of  
16 describing puberty, I think in the 1930s.

17 And so, for example, Tanner Stage 1 means that there's no  
18 visible signs that puberty has started.

19 Tanner Stage 2 is the stage where there's the first sign  
20 that there's physical changes associated with puberty. So, for  
21 example, in someone assigned female at birth, the present of  
22 breast buds would be Tanner Stage 2. A small amount of pubic  
23 hair and testicular enlargement would be the first signs that  
24 someone assigned male at birth is in Tanner Stage 2.

25 3, 4, and then, subsequently, Tanner Stage 5 is adult

1 pubertal status.

2 Q. At what age does someone assigned female at birth typically  
3 reach Tanner Stage 2?

4 A. The average is in the 11 age range, but there's a range  
5 where it's considered normal for someone assigned female at  
6 birth to reach Tanner Stage 2 anywhere between -- around 8 to  
7 13.

8 Q. What about for someone assigned male at birth? When does  
9 Tanner Stage 2 usually begin?

10 A. Averaging in the 11 and a half sort of window, but  
11 considered normal for someone assigned male at birth to start  
12 puberty anywhere in the window from about 9 to 14.

13 Q. As an endocrinologist, what is endocrine treatment?

14 A. So endocrinology is -- has to do with hormones. So  
15 endocrinology is the science of hormones. An endocrinologist  
16 treats hormone problems or hormone differences.

17 So I think a hormone -- people think they might know what  
18 the word means, but it really means any chemical that's made in  
19 a -- one part of the body but then circulates throughout the  
20 body and does something.

21 So the place where a hormone is made is called a gland.  
22 So, for example, endocrinologists take care of people with  
23 diabetes because insulin is a hormone. Insulin is made in the  
24 pancreas, which is a gland, and insulin goes throughout the  
25 whole body and has an effect on blood sugar.

1 Thyroid hormone is a hormone made in a gland called the  
2 thyroid, and that thyroid hormone goes throughout the body and  
3 regulates metabolism.

4 Testosterone and estrogen are hormones made in testes or  
5 ovaries that go throughout the body and have a variety of  
6 different effects on the body, including the development of  
7 puberty.

8 Q. What kind of treatments do you provide as an  
9 endocrinologist?

10 A. Most endocrine treatments involve assessing and managing  
11 someone that may have a hormone that's underproduced or a  
12 hormone that's overproduced, right.

13 So with diabetes -- Type 1 diabetes, we are treating with  
14 insulin because insulin -- that hormone is underproduced in Type  
15 1 diabetes.

16 Someone with Graves' disease has hyperthyroidism. We are  
17 giving medicine to suppress down the thyroid hormone level.

18 When someone has precocious puberty, puberty that starts  
19 too young, we are using medications like GnRH agonists to lower  
20 hormone levels. When someone has delayed puberty, we would be  
21 using hormones to raise hormone levels, to get that hormone  
22 level into the normal range for a person that age.

23 Q. Are those treatments usually provided in the form of  
24 medication?

25 A. Yes, the majority of endocrine treatments, because we are

1 raising or lowering hormones to a goal range, involve giving  
2 medications to make that happen.

3 Q. How do endocrinologists determine that a particular  
4 medication is effective to treat a particular endocrine  
5 condition?

6 A. So I think there's two things there, right. So using the  
7 example of hypothyroidism, if someone has hypothyroidism, they  
8 have low thyroid hormone. Then they have symptoms related to  
9 hypothyroidism. So they may be tired, have trouble with sleep.  
10 They may be gaining weight. And we can measure that their  
11 hormone level is lower than normal. So by giving them  
12 medication like thyroid hormone, one goal is to bring the  
13 thyroid hormone level into the normal range and, second, sort  
14 of, I'd say, bigger picture goal is are they feeling better, are  
15 those symptoms of hypothyroidism improved with the treatment.

16 So I think as an endocrinologist seeing that patient in  
17 follow-up we're saying, Here's where the labs are showing. We  
18 are within the normal range. And how are you feeling? Are you  
19 feeling better since we started that treatment? And let's now  
20 reevaluate the plan. Is the prescription we prescribed the  
21 right dose? Do we need to make an adjustment? Do you still  
22 need treatment for hypothyroidism? How do we move forward?

23 Q. How do endocrinologists determine that a particular  
24 medication is safe?

25 A. I think that the job of physicians is to stay up to date on

1 available medical literature on a whole host of topics.

2 Every medication that is available for prescription in the  
3 United States has been tested through a process of FDA approval,  
4 and that process involves testing the medication on humans to  
5 determine safety profile so we understand the range of possible  
6 side effects, how frequent those side effects occur.

7 And so we have that information from a review of the  
8 literature and also, you know, review of the approval process  
9 for a medication.

10 Q. When you're looking at a particular medication and looking  
11 at the literature and the results of the FDA process you  
12 described, do those speak to the safety of the drug with respect  
13 to treating a particular condition, or is it looking at the  
14 safety of the drug overall?

15 A. Right. So I think that when the FDA approves a drug, it  
16 goes through a process of approval where first it's determined  
17 whether the medication is safe, what side effects are found when  
18 someone takes this medication and at what rates. And so  
19 regardless of what a medication is being used for, we have that  
20 information.

21 I think another part of the approval process for a specific  
22 indication is what is the outcome related to that particular  
23 indication. So, for example, I think we'll be talking a lot  
24 about GnRH agonist today. That -- we know that GnRH agonists,  
25 which have been referred to as puberty blockers, are medications

1 that endocrinologists use all the time for precocious puberty  
2 and in treatment of precocious puberty. We know exactly how  
3 they work; right? We know that they suppress the signals from  
4 the brain that tell the pituitary gland to send messages to the  
5 ovaries or testes and -- so subsequently those hormones are  
6 suppressed.

7         And we know from, you know, the process that those  
8 medications went through to get approval that they're extremely  
9 safe medications to give, that in precocious puberty they're  
10 effective at stopping puberty. And they also -- when taken  
11 away, puberty picks up where it left off. So we have, you know,  
12 decades worth of experience using that particular medicine and  
13 have a really clear safety profile of its use even prior to it  
14 being used for gender dysphoria.

15         I think that in -- when used in precocious puberty, the  
16 outcome is does it suppress puberty -- right? -- and the answer  
17 is, of course, yes, it does. It works very well.

18         I think when used for gender dysphoria, one question is  
19 does it suppress puberty, and, just like in precocious puberty,  
20 yes, it certainly does.

21         I think another question is, is this intervention then  
22 helpful for a person's quality of life -- right? -- does it  
23 reduce gender dysphoria over time. And so we can talk more  
24 about that later.

25         But the long and short of it is that the literature does



1 support the effectiveness in both logistically stopping puberty,  
2 but also -- probably the more important question, does that  
3 help.

4 Q. As an endocrinologist, do you ever rely on clinical  
5 guidelines?

6 A. I do.

7 Q. And who publishes those guidelines on which you rely?

8 A. Well, so I think we've been talking some about the  
9 Endocrine Society today. I think that for many endocrine  
10 problems that endocrinologists treat, there's a whole host of  
11 sources that we rely on for how to chose the treatments, you  
12 know, review of the literature. You know, when I'm treating  
13 someone with hypothyroidism, I don't have to go back to the  
14 literature anymore. I know the standard of care. I know how to  
15 adjust thyroid hormone doses.

16 But I think what the Endocrine Society has done in some of  
17 these, you know, maybe more common endocrine conditions have  
18 helped endocrinologists by compiling that data, organizing it  
19 for us, and then providing these recommendations called  
20 Endocrine Society Clinical Practice Guidelines.

21 Q. You touched on this a little bit already, but maybe you can  
22 expand.

23 When the Endocrine Society is developing those guidelines,  
24 do they consider the quality of the evidence when they're  
25 compiling the literature on which they -- that go into those

1 guidelines?

2 A. They do. You know, I think with all of these Endocrine  
3 Society Clinical Practice Guidelines, there is a section at the  
4 beginning which kind of goes through how they've assigned grades  
5 of quality and abundance of evidence based on their sort of  
6 systematic review before writing their recommendations, and then  
7 subsequently throughout the document they then are able to  
8 explain, you know, this is the -- both the amount and quality of  
9 evidence that we use to make this particular recommendation.

10 Q. We've already talked -- you've been here all day. We've  
11 talked a lot about gender dysphoria already.

12 So maybe just tell me briefly, as an endocrinologist, what  
13 is gender dysphoria?

14 A. I describe gender dysphoria as a difference between  
15 someone's sex assigned at birth and their current gender  
16 identity which also is causing distress to that person that's  
17 affecting them clinically in their life.

18 Q. And something we talked a little bit about already today.  
19 Do all transgender people have the clinical diagnosis of gender  
20 dysphoria?

21 A. No, not -- transgender is sort of an umbrella term to  
22 describe someone whose gender identity does not exactly match  
23 the sex they were assigned at birth. So you can have -- you can  
24 be transgender but not have distress associated with that.

25 Sometimes I find it helpful to sort of compare to another

1 medical problem which we may have more familiarity with, which  
2 is anxiety, right. So if someone says they're anxious, right,  
3 that's not necessarily a clinical diagnosis. But there are  
4 recommend -- there are descriptions in the *DSM* to diagnosis  
5 someone with clinical anxiety.

6 So someone could say, I'm an anxious person, but they don't  
7 have clinical anxiety. Then someone could have -- meet -- they  
8 could meet the criteria for clinical anxiety, and then what do  
9 we do about it; right? So there's lots of treatment options for  
10 anxiety. Some are nonmedical, and some are medical.

11 So if an adolescent has anxiety, they're going to meet with  
12 their family, with their mental health team, with their doctor,  
13 and they are going to say, Okay. We have this anxiety. The  
14 goal is to reduce the anxiety.

15 So we can do nonmedical things like seeing a therapist, or  
16 avoid things that make us anxious, or meditating. And we also  
17 have medical options like antidepressants, anti -- anxiolytics.  
18 So the right combination of nonmedical and medical approaches  
19 that young person, their family, and their health team would  
20 decide upon together, and enact that plan, and then continuously  
21 reevaluate the anxiety: Is it getting better? Maybe we modify  
22 this part of the plan and continue that relationship with the  
23 goal of continuing to reduce that anxiety.

24 So someone who identifies as transgender would be someone  
25 that says, I'm anxious, but they don't have a clinical diagnosis

1 of gender dysphoria unless they meet certain criteria. Someone  
2 may have gender dysphoria and meet that criteria that the  
3 previous witness was describing. And they meet with their  
4 parents, their mental health provider, their doctor, and they  
5 say, Okay. I think that -- let's try a social transition. And  
6 the goal of that would be, Does that reduce my dysphoria?

7 So someone may, you know, bind their chest, or use a  
8 different name or pronouns, or, you know, do any host of things  
9 that are nonmedical. And for some people, that might really  
10 help, and a lot of them feel more comfortable and confident in  
11 the world, and that person wouldn't necessarily need another  
12 intervention, wouldn't need to see me, perhaps, wouldn't need a  
13 medical intervention.

14 But for some people, their gender dysphoria is more  
15 significant or severe, or those nonmedical interventions have  
16 helped but not enough. They're still having a really  
17 challenging time, and then that's where discussion of what  
18 medical interventions are available, what are those risks and  
19 benefits of those interventions, making a decision with that  
20 adolescent and family about what to do, and then, just like any  
21 other medical decision, coming back together, reevaluating: Is  
22 this helpful? Is this working? Should we continue treatment?

23 THE COURT: Ms. Coursolle, let me interrupt you.  
24 We're getting a reflection. That skylight is probably not  
25 helping you.

1 MS. COURSOLLE: Yeah, I would appreciate that. Thank  
2 you, Your Honor.

3 (Pause in proceedings.)

4 MR. JAZIL: Your Honor, might I indulge the Court for  
5 a five-minute break?

6 THE COURT: Sure. Six minutes. Let's start back at a  
7 quarter to 4:00.

8 (Recess taken at 3:39 PM.)

9 (Resumed at 3:47 PM.)

10 THE COURT: Dr. Shumer, you are under oath.

11 Ms. Coursolle, you may proceed.

12 MS. COURSOLLE: Thank you, Your Honor.

13 BY MS. COURSOLLE:

14 Q. Dr. Shumer, there is no blood test for gender dysphoria, is  
15 there?

16 A. There's not.

17 Q. You mentioned -- sorry. Let me reformulate that question.

18 You mentioned earlier the criteria that are used to  
19 determine whether someone meets the standard for clinical gender  
20 dysphoria diagnosis; is that right?

21 A. Yes.

22 Q. So how do doctors determine whether someone meets those  
23 criteria?

24 A. Well, in adolescents, most pediatric gender clinics are  
25 what we call a multidisciplinary team. For example, in the

1 clinic that I work in, we have four medical doctors, a nurse  
2 practitioner, two social workers, a psychiatrist, and we work  
3 together as a team.

4       So when a patient is referred, as I said, the social worker  
5 does the triage phone call. And then the majority of the time  
6 the next step is a biopsychosocial assessment, as I think those  
7 words were used by the last witness. What that means is the  
8 social worker will meet with the child, meet with the parents,  
9 meet with the family all together, to really get a better  
10 understanding of the child's experience with gender identity,  
11 sort of the history of the evolution of understanding of gender  
12 identity as described by the child, what the parents have  
13 noticed along the way with respect to gender identity, how that  
14 gender identity is perhaps affecting them in their daily life,  
15 how it's manifesting in their world, and, of course, getting  
16 more information about any other medical or mental health  
17 problems that the individual may have, really understanding  
18 their social situation, where did they go to school, how is  
19 school going, who is in their family, who lives at home. Sort  
20 of a really comprehensive view of who this person is who is  
21 coming to see us for help.

22       And at the end of that assessment phase, the social worker  
23 is able to, number one, tell the team whether that person does,  
24 in fact, meet *DSM* criteria for the diagnosis of gender  
25 dysphoria, but then also provide that richness and subcontext

1 that's helpful for subsequent interactions with the team. For  
2 example, if that family is going to meet with me, then I know  
3 some of the issues that they've been thinking about, some of the  
4 challenges that the child may be facing. And it gives me a good  
5 idea of sort of where to pick up that conversation and whether  
6 or not the child may benefit from any medical interventions,  
7 what sort of questions that family might be coming in to ask me  
8 about.

9 Q. Is the bio -- I knew I was going to trip that up. Is the  
10 biopsychosocial assessment -- is that used to diagnosis any  
11 other conditions, in your experience?

12 A. Yeah. So I think that mental health professionals -- when  
13 I say "biopsychosocial assessment," I'm talking about bio  
14 meaning, you know, their medical and mental health history;  
15 psychosocial, more about how their mental health is interplaying  
16 with the world around them.

17 And so biopsychosocial assessment I think is really just a  
18 really careful and comprehensive assessment of a person for a  
19 variety of different reasons, right. So if there is a need for  
20 assessment for the potential diagnosis of a whole host of mental  
21 health disorders, the term "biopsychosocial assessment" is used  
22 to imply that a mental health professional is getting a thorough  
23 history and trying to determine if a person does meet a certain  
24 standard for a diagnosis.

25 Q. Something else that we talked about earlier today is the

1 idea of persistence and desistance with respect to gender  
2 dysphoria.

3       What is your experience with gender dysphoria persisting or  
4 desisting?

5 A.    So I think this is a topic that requires sort of a review  
6 of what people are meaning by these terms, and also the  
7 literature, right.

8       So a person that's prepubertal, right, is -- a child is  
9 prepubertal all the way from birth until around, you know, 8, 9,  
10 10, 11. It's normal for all children to explore the world  
11 around them, get to know who they are as a person, get a better  
12 understanding of lots of different aspects of their person,  
13 right, their gender identity, their likes and dislikes. Do they  
14 like to play sports? Do they prefer plays? Sexual orientation.  
15 Right. Childhood is a time of normal exploration and social  
16 learning.

17       And so it's quite normal for children to explore gender  
18 identity, even to, you know, go through phases of preferring  
19 this or that that may seem gender to parents. So exploring in  
20 that way is not gender dysphoria, right. It's just normal  
21 childhood.

22       If a child does meet clinical criteria for gender dysphoria  
23 of childhood, that -- that's something different, right, and  
24 that we do know that a child's gender identity isn't as  
25 predictive of their gender identity in adolescence and



1 adulthood, that there are some clues, certainly. And I think  
2 some of the work by Kristina Olson that was mentioned before, I  
3 think, and Diane Ehrinsaft's writing helps us to understand that  
4 there is a difference between "I feel like a girl" and "I am a  
5 girl," right.

6 Those are -- sound similar, but there's differences there  
7 is -- there's differences between "I feel like a girl" and "I  
8 want to change my name and I want you to call me she/her,"  
9 differences between "I like dresses" versus "I'm not leaving the  
10 house without being in a dress," right.

11 So there's different levels of insistence, consistence,  
12 persistence through childhood of some of these things. So I  
13 would say that the kids that are very profoundly describing  
14 intense identification with the other gender, I do think that  
15 that is somewhat predictive of future gender identity. But kids  
16 that maybe are going through phases or trying on different hats  
17 when it comes to gender identity, I wouldn't say that's very  
18 predictive.

19 I think that, as has been pointed out, some of the  
20 desistance literature from the 1970s and '80s is using different  
21 denominators when we are thinking about, you know, rates of  
22 persistence and desistance.

23 But that being said, the nice thing is it actually doesn't  
24 really matter when it comes to making medical decisions, because  
25 regardless of what someone's gender identity is when they are 5,

1 6, 7 years old, there is no medical intervention that's being  
2 made at that time.

3 What's more important is what happens at the start of  
4 puberty, that a child's gender identity may become more intense,  
5 dysphoria become more intense, more debilitating as that  
6 adolescent now is starting to see physical manifestations of  
7 puberty: I know myself to be a girl, and I'm hearing my voice  
8 get deeper, and that's making me really upset.

9 You know, if you think about a -- someone assigned male at  
10 birth who is living their life as a little girl, you grow your  
11 hair; you wear stereotypical feminine clothes, and everyone sees  
12 you as a girl. Puberty starts; your voice gets deeper; your  
13 facial structure starts to change; your body shape starts to  
14 change. Those adolescents that now have intensification of  
15 gender dysphoria when those things are starting, that now is  
16 very predictive of continued persistent gender identity  
17 difference later on in adolescence and adulthood.

18 So, you know, we reference the Dutch. You know, the Dutch  
19 original papers were describing the onset of puberty not only as  
20 an important time because that would be the only time that you  
21 would need to start medication, right, because before puberty  
22 there is no hormones to suppress, but also a helpful diagnostic  
23 time, right. It's a time where maybe some of those feminine  
24 boys figure out that their feeling was a feeling of being gay,  
25 right.

1 But for those individuals, those adolescents that as  
2 puberty is starting, as those, for example, masculine features  
3 are emerging, they are feeling more and more distress and more  
4 and more certain of a female gender identity or, of course, vice  
5 versa, that that is very helpful and predictive of future gender  
6 identity persistence.

7 So the Dutch were still wanting to be cautious, right.  
8 Because, as we discussed, puberty does start when you are pretty  
9 young; 10, 11, 12 years old. And the Dutch were feeling like,  
10 okay, this is a time where we know we want to intervene  
11 medically, but ethically we also want to delay decision-making  
12 that has a more permanent on the body.

13 So that's where they came up with sort of the concept of  
14 using GnRH agonists -- which is a term that I use to describe  
15 puberty blockers, because that's the medical term -- and in so  
16 doing, preventing further development of an unwanted and  
17 dysphoria-inducing puberty, but also delaying decision-making  
18 about things like testosterone or estrogen until later  
19 adolescence when that adolescent has even more capacity for  
20 assent.

21 And so I think -- you know, when I think about the use of  
22 GnRH agonists, I think of it as sort of a conservative approach  
23 that we are saying, you know, even though your gender dysphoria  
24 is intensifying at the start of puberty, and even though that is  
25 a helpful predictor that this is your gender identity likely to

1 continue into adulthood, we still want some more time. And so  
2 GnRH agonists provide that time.

3 After several more years, gender dysphoria is still  
4 present. That person is still identifying -- no surprise, but  
5 still identifying as a gender identity different from their sex  
6 assigned at birth. Now the child is more capable of making a  
7 more informed decision, still with their parents, about the next  
8 potential step, which would be hormonal care.

9 Q. Dr. Shumer, you testified that you've provided  
10 gender-affirming care to hundreds of young people; is that  
11 right?

12 A. Yes.

13 Q. About how many of those -- to how many of those  
14 approximately have you provided GnRHs?

15 A. Probably about a quarter. Because I think that there's  
16 sort of two groups of patients primarily that are coming to  
17 pediatric gender clinics. One are patients who are coming in  
18 the peri-pubertal window, sort of at the cusp of puberty, or  
19 just after puberty has started, and then another relatively  
20 larger group of people that are not presenting to medical  
21 attention until later on in puberty.

22 So for those adolescents, if puberty has already happened,  
23 we are not really talking about GnRH agonists anymore. GnRH  
24 agonists are the most helpful for that age group where, you  
25 know, progression of puberty would potentially be devastating,

1 but we are at an age where we want to forestall decisions about  
2 hormones. I'd say about, you know, a quarter to a third of  
3 patients that I see are in that younger age group where the  
4 discussion of GnRH agonists is had.

5 Q. In your clinical experience with that population, what is  
6 your experience with your patients either persisting with their  
7 gender dysphoria or desisting?

8 A. So I think that -- first, I would say that there's a lot of  
9 people that are referred -- a wide variety of types of patients  
10 that are referred to pediatric gender clinics, right. There may  
11 be parents of young people who, you know, their child came to  
12 them, you know, relatively recently and is exploring gender  
13 identity, and they may see us, have an assessment, and don't  
14 meet criteria for having gender dysphoria, right.

15 There may be people who are adolescents who have more  
16 recently been thinking about their gender identity but were  
17 given more time to see where that gender identity goes.

18 However, I would say that patients that end up being  
19 diagnosed with gender dysphoria in that early puberty window who  
20 are eligible to receive GnRH agonists, the vast majority of them  
21 do persist with that gender identity into adolescence and  
22 adulthood.

23 Q. And you said the greater majority of your patient  
24 population are older adolescents, you know, transitioning into  
25 adulthood.

1           In your experience treating that population, what is your  
2 clinical experience with persistence and desistance?

3 A.    Yeah.  Again, I'm so fortunate to work with really smart  
4 mental health professionals who can get this really helpful  
5 assessment of these patients and families.  But when that  
6 assessment yields a conclusion that someone does have gender  
7 dysphoria, that that gender identity is persisting across time  
8 and is causing that person significant distress or impairment,  
9 then persistence of that identity is by far the most likely  
10 outcome.

11 Q.    I'm going to switch gears a little bit.

12           In your practice, Dr. Shumer, treating gender dysphoria,  
13 are there clinical guidelines you rely on?

14 A.    Yes.  So as has been mentioned, both the WPATH Standards of  
15 Care, Version 8, and the Endocrine Society Clinical Practice  
16 Guidelines, which has been discussed, don't disagree very much  
17 with each other, but, you know, were written in slightly  
18 different times, are primarily the -- sort of the guidelines  
19 that help you inform modern care.

20 Q.    Do your colleagues rely on these guidelines as well, in  
21 your experience?

22 A.    I'm sorry?

23 Q.    In your experience, do your colleagues also rely on those  
24 two guidelines?

25 A.    They do.

1 Q. When -- we've talked about this a little bit already here  
2 and there, but maybe we can be a little more systematic about  
3 it.

4 When you're treating patients with gender dysphoria, what  
5 is the course of treatment that you provide?

6 A. Yes, so as the endocrinologist, I'm primarily responsible  
7 for conversations about medical interventions. The rest of the  
8 team may also suggest interventions such as connecting with  
9 supportive therapists through transition, working with schools,  
10 you know, other supportive care.

11 But the conversations that I'm having have to do with, you  
12 know, medical options, including GnRH agonists, testosterone,  
13 estrogen, and discussing why those medications may be beneficial  
14 to a patient, what to expect if prescribed, what are some of the  
15 risks or side effects of taking these medications, and working  
16 with patients and families around those decisions.

17 Q. Is the care that you provide consistent with the Endocrine  
18 Society guidelines and the WPATH Standards of Care?

19 A. Yes.

20 Q. We've talked a little bit about GnRH agonists.

21 What are those exactly?

22 A. GnRH agonists are medications that suppress the hormones  
23 that come from the brain to tell the body to make puberty  
24 hormones.

25 So going -- taking a step back for a second, the

1 hypothalamus is a part of the brain that makes a signal called  
2 GnRH, gonadotropin-releasing hormone. GnRH is not produced in  
3 prepubertal years, and then as puberty starts, GnRH is now  
4 secreted in pulses from the hypothalamus. Those pulses tell the  
5 pituitary, another part of the brain, to make their hormones,  
6 called luteinizing hormone, LH, and follicular-stimulating  
7 hormone, FSH. Those hormones then tell the testicles or ovaries  
8 to make their hormones, testosterone or estrogen. So it turns  
9 out you need to make GnRH in pulses for the whole process to  
10 start.

11 So GnRH agonists are actually the same hormone, GnRH, that  
12 the hypothalamus is making, but instead of having it go in  
13 pulses, when you're giving it as a stable dose, you're messing  
14 up those pulses, right, and without the pulses, the pituitary  
15 doesn't make its hormones, LH and FSH. So GnRH basically is a  
16 hormone that's already in the body, just when giving it as a  
17 stable dose, instead of in pulses, the body no longer makes  
18 puberty hormones.

19 Withdrawing the medication takes away that stable dose of  
20 GnRH. The GnRH pulse generator then resumes and puberty  
21 continues.

22 Q. What are GnRH agonists used to treat?

23 A. It's actually several things that GnRH agonists are used to  
24 treat. Pediatric endocrinologists have been most involved using  
25 GnRH agonists both for gender dysphoria and also for precocious



1 puberty.

2       So precocious puberty refers to puberty that starts too  
3 young. If you're 4 years old and your body is starting puberty,  
4 you know, that's not good. There is something wrong there, and  
5 there's lots of reasons that you'd want to not continue to allow  
6 that child to go through puberty. They would go through a  
7 growth spurt but then stop growing and be very short, that --  
8 they would have development of sexual characteristics well  
9 before all of their peers. So GnRH agonists have been a useful  
10 tool to treat precocious puberty for many decades.

11       GnRH agonists have also been used for other indications  
12 that you would want to reduce hormones, such as men with  
13 prostate cancer or women with endometriosis. These conditions,  
14 lowering the production of hormones in the body could help that  
15 particular condition.

16       So for all these conditions, GnRH agonists can be used to  
17 stop those signals and tell the body to stop making estrogen or  
18 testosterone.

19 Q. I think you said earlier that the effect of these  
20 medications are the same, the biological effects, whether they  
21 are used to treat precocious puberty or gender dysphoria.

22       Do I have that right?

23 A. That's correct.

24 Q. Are GnRH agonists considered medically necessary to treat  
25 gender dysphoria for adolescents?

1 A. They are. That's based on the body of evidence supporting  
2 the safety and efficacy of GnRH agonists in treatment of gender  
3 dysphoria as -- as sort of reviewed and summarized by the WPATH  
4 and the Endocrine Society, but also in my clinical experience  
5 seeing, you know, young people who are really suffering,  
6 adolescents that have debilitating gender dysphoria. Seeing the  
7 improvement in that gender dysphoria when provided the  
8 appropriate care informs me that GnRH agonists are part of  
9 medically necessary care for gender dysphoria.

10 Q. Are these medications considered experimental when they're  
11 used to treat gender dysphoria?

12 A. I do not consider GnRH agonists to be experimental based on  
13 the reasons that I just provided.

14 Q. What does the peer-reviewed literature say about these  
15 medications when they're used to treat gender dysphoria?

16 A. So there's a lot of ways to approach answering that  
17 question. I think that there's a lot of data that has been  
18 trying to understand how pubertal suppression works with regards  
19 to treating gender dysphoria.

20 Let's start with longitudinal data. So as has been  
21 previously referred to, the part of the world that has been  
22 using pubertal suppression as part of gender dysphoria  
23 management for the longest is The Netherlands, and in The  
24 Netherlands, they have documented the health and well-being of  
25 people -- of transgender individuals who are diagnosed with at

1 the time, you know, gender identity disorder, now would be  
2 referred to as gender dysphoria, and were treated with pubertal  
3 suppression followed by hormones and in many cases surgery and  
4 are now living as middle-aged adults.

5       And those people have been documented to have equal to or  
6 better-than-average quality of life compared to the general  
7 Dutch population, which is pretty remarkable, because we know  
8 how bleak the statistics can sound. When we're thinking about  
9 mental health outcomes for untreated gender dysphoria to have no  
10 differences between quality of life in these people that are now  
11 my age is quite powerful evidence.

12       There's other ways that investigators have approached these  
13 questions. So, for example, more short-term studies saying --  
14 you know, comparing things like body satisfaction, quality of  
15 life, self-esteem, sort of before and after different elements  
16 of care, before and after pubertal suppression, before and after  
17 hormone provision. And those have also yielded in a variety of  
18 different documents reassuring results that, yes, in fact, there  
19 is -- these improvements that occur with this type of care.

20       Another way that you can approach this is by, you know,  
21 comparing different groups, right. So you can compare people  
22 that have had access to this care, people that for whatever  
23 reason have not, and there's a difference there with people  
24 having access to the care doing better in a whole host of these  
25 psychological parameters.

1           And then I think the final approach that I'd like to speak  
2 to is sort of a retrospective view of the question, so talking  
3 to adults who weren't being studied when they were first getting  
4 the care, but, you know, comparing adults who had access to, for  
5 example, GnRH agonists versus adults who when they were  
6 adolescents did not have access. And, you know, when comparing  
7 those people, you know, the ones that report that they did have  
8 access have better quality of life and mental health indicators,  
9 less suicidality, than people who did not have access to that  
10 care.

11           So the question you're asking has been approached from a  
12 whole host of different angles to compile sort of what we now  
13 consider the evidence base for the safety and efficacy of  
14 gender-affirming care, including GnRH agonists.

15 Q.   We've heard a lot today about potential side effects that  
16 that these medications can have.

17           In your experience, what are side effects of GnRH agonists?

18 A.   I would say the most common side effect of GnRH agonist is  
19 pain at the injection or insertion site, right. So primarily  
20 GnRH agonists are given as every-three-month injections, which  
21 can hurt, which can cause local irritation and pain similar to  
22 having your flu shot or any other vaccine, possibly based as an  
23 implant in the arm, so you can have pain from healing.

24           I think that one issue that has been brought up previously  
25 in this case -- in this trial has been, you know, this

1 discussion around bone health. So I think that deserves sort of  
2 a further explanation from an endocrinologist's perspective.

3 We know that every year a child's bones get stronger. From  
4 age 4, to age 5, to age 6, to age 7, every year the bones get  
5 stronger. An adolescent going through puberty, their bones get  
6 a lot stronger faster. It's those sex hormone, testosterone and  
7 estrogen, that cause the bones to get stronger even faster than  
8 they were before puberty started.

9 So if you take a 13-year-old, let's say, assigned male at  
10 birth and monitor their bone density, and then put them on --  
11 measure their bone density, put them on a GnRH agonist, and  
12 measure bone density again at age 14, it will be stronger than  
13 it was at age 13, because they are one year older, but it  
14 wouldn't have gone through that spurt of getting stronger than  
15 it would have if puberty was going on, right.

16 Also, if you compare two 13-year-olds, one starting GnRH  
17 agonists and one not, and look at them when they're 14, the one  
18 that isn't is going to have a higher bone density score than the  
19 one that is on a GnRH agonist.

20 But the point here is that you don't continue GnRH agonists  
21 forever, that at some point you're going to go through puberty,  
22 whether it's because you're withdrawing the GnRH agonist and  
23 allowing the body to go through puberty itself or providing  
24 hormones for purposes of transition and treatment of gender  
25 dysphoria. In either one of those cases, you are going to have

1 that spurt of bone strengthening. And so we're delaying the  
2 growth -- the bone strength spurt, as I like to call it.

3 But, you know, if you compare people at age 22, now well  
4 past the phase where they may have been treated with GnRH  
5 agonists, there's very little difference in bone density at that  
6 point because now everyone has gone through puberty, some just a  
7 little later than others.

8 I think -- when I think about concerns about bone density,  
9 what are we really talking about here? We're talking about  
10 worrying that someone may develop osteoporosis as an older  
11 person and have a higher risk for fractures. So I've seen no  
12 reports of a whole bunch of transgender people walking around  
13 that have osteoporosis that were previously treated with GnRH  
14 agonists.

15 And so, you know, I think that it's, I think, appropriate  
16 to think about bone health when we're using medications to  
17 affect puberty, but I don't see GnRH agonists as having a  
18 significant risk for osteoporosis, which is really what it comes  
19 down to when we're talking about bone density.

20 I think another thing that -- that has been brought up  
21 previously is brain development, cognition, and, you know, I  
22 have trouble understanding this one myself, that -- you know, we  
23 know that people go through puberty at all different ages,  
24 right. So let's say someone naturally has delayed puberty. A  
25 16-year-old assigned male at birth hasn't started puberty yet.

1 That 16-year-old is not going to score lower on an IQ test;  
2 they're not going to score lower on their exams or SATs compared  
3 to people that had early puberty or normally timed puberty.  
4 Puberty itself does not affect cognition in that way, and we  
5 don't have to test GnRH agonists to know that. We have examples  
6 because kids go through puberty at all different ages.

7 And so with that being said, you know, I haven't seen any  
8 literature sort of explaining why people would think GnRH  
9 agonists would affect cognition, nor have I seen any data to  
10 support that. And so I don't consider GnRH agonists as -- one  
11 of the side effects of GnRH agonists as affecting cognition.

12 Something that I think I've seen brought up in the expert  
13 reports from the defendants is something called pseudotumor  
14 cerebri, which is increased intracranial pressure. So pediatric  
15 endocrinologists are really used to talking about this topic  
16 because of one of the medications that we also use a lot called  
17 growth hormone. This is a side effect that is rare but can  
18 occur with the use of growth hormones.

19 So growth hormone seem to in some people, less than, I  
20 think, 1 percent, cause an increase in cerebrospinal fluid  
21 production, causing what we call spinal headaches. So this is  
22 something that happens for all sorts of reasons, but growth  
23 hormone can lead to an increase in intracranial pressure, which  
24 can cause headaches. The medical term for that is pseudotumor  
25 cerebri.

1           So I think last year there was a report from the FDA saying  
2 that six people have been recorded as having pseudotumor cerebri  
3 that were also taking GnRH agonists. I think five of them were  
4 given GnRH agonist treatments for treatment of precocious  
5 puberty and one for gender dysphoria. And so I think that that  
6 number six out of the many tens of thousands of people that have  
7 been receiving GnRH agonists seems very small, and I guess begs  
8 the question is it actually related to the GnRH agonist or is it  
9 not. Because you're allowed to have pseudotumor cerebri just  
10 for no good reason, so we would expect that maybe some people on  
11 GnRH agonists would have pseudotumor cerebri, true, true, but  
12 unrelated, right?

13           Subsequently, I think that Sweden is the country that  
14 reported their experience with their entire national database,  
15 but they did not have any patients with this side effect that  
16 were also being treated with GnRH agonists.

17           So it's something that I talk about with patients because  
18 the FDA put out this warning, but it's also something that I've  
19 never had the experience of a patient having myself, nor do I  
20 know any colleagues who have had that side effect in a patient  
21 that they've taken care of. It's also something that can be  
22 managed; right? You stop the medication; it gets better, just  
23 like pediatric endocrinologists are used to doing when that side  
24 effect happens with growth hormone treatment.

25 Q.    You said you talk about that particular risk with your



1 patients.

2 Do you also talk to your patients about the potential bone  
3 density implications of GnRH agonists?

4 A. I do, sort of similarly to how I described it to you today,  
5 so they understand why there is discussion about this, sort of  
6 what the literature shows; yes, that someone on this medication  
7 will have continued bone strengthening to a less degree than  
8 people not on the medication. We expect catch-up.

9 So I have a very similar conversation with parents that I  
10 am -- and patients as how I described it to you today.

11 Q. And do you monitor the bone density of patients while they  
12 are taking GnRH agonists?

13 A. Yes. So patients that are at higher risk for fracture or  
14 that are known to have low bone density, we get serial DXA  
15 scans, or bone density scans. For everyone on GnRH agonists,  
16 just because this issue exists, or is being discussed, I monitor  
17 for vitamin D deficiency to make sure vitamin D and calcium  
18 intake are appropriate.

19 Q. We also talked about whether there are any effects of these  
20 medications on brain development or cognition.

21 Are those risks that you talk about with your patients?

22 A. You know, I think that I try to cover all the bases of what  
23 people may be hearing, especially recently in the media, that  
24 parents oftentimes come with really valid questions and maybe  
25 some misinformation. So in a very similar way to how I

1 described it to you today, I have that type of conversation with  
2 patients and families as well.

3 Q. Do you ever prescribe GnRH agonists to treat precocious  
4 puberty?

5 A. I do.

6 Q. Do you have these same kind of conversations when you use  
7 the medications for that purpose?

8 A. I do.

9 Q. Something else that has come up in this case is the  
10 potential for infertility.

11 Do GnRH agonists cause infertility?

12 A. GnRH agonists have no impact on fertility. That  
13 specifically turning off the signals in the brain to suppress  
14 puberty at this time, you know, don't have any direct impact on  
15 the ovaries or the testes.

16 So, no, GnRH agonists themselves don't have any impact on  
17 fertility.

18 That being said, I think fertility is a really important  
19 topic to talk about with patients and families, and something  
20 that I probably spend the majority of time discussing when I'm  
21 talking to patients and families, because it's probably the most  
22 complicated, that we do know that you do need to go through the  
23 puberty that your body makes, at least to a certain degree, to  
24 make sperm or make eggs, right.

25 So that if someone is coming to see me who is 16, right,

1 they have already presumably gone through puberty. And that  
2 person, let's say assigned male at birth, I talk to them about  
3 how -- you know, people that take estrogen, if they wanted to  
4 use their sperms later on, most of them would have to come off  
5 estrogen, wait for their sperm count to come back up, and they  
6 could try to use their sperm to make a baby. But for some  
7 people it might be harder.

8       Subsequent -- similarly, people that are postpubertal  
9 starting testosterone, we have many examples of people taking  
10 testosterone, deciding they want to become pregnant or use their  
11 eggs to make a baby, and they stop their testosterone and wait  
12 for their periods to resume, have the baby, go back on  
13 testosterone.

14       And so -- but there's maybe a subset that that's harder,  
15 that fertility becomes harder if someone is on long-term  
16 testosterone or estrogen. So for those postpubertal people  
17 there is a discussion we always have about, maybe, what are the  
18 options for fertility preservation, saving eggs, saving sperm,  
19 what that process looks like. So I talk to everyone about that.

20       For someone that is Tanner 2 at the beginning of puberty,  
21 it's not GnRH agonists that have any impact on fertility, but,  
22 at the same time, you need to go through at least some puberty  
23 to have that conversation about freezing eggs or freezing sperm.

24       So someone that went from GnRH agonists to testosterone, or  
25 GnRH agonists to estrogen, and never went further into puberty,

1 just sort of the idea, if someone does have persisting gender  
2 dysphoria, they wouldn't have had that opportunity to make that  
3 decision about preservation of sperm or eggs.

4 Now, presumably, even someone that went through that sort  
5 of -- that sequence of events -- pubertal suppression,  
6 hormones -- they still have testes or ovaries in their body.  
7 They could decide to come off of medication, allow their body to  
8 commence puberty, and try to use their body to make a baby. If  
9 that was unsuccessful, see a fertility doctor to get assistance  
10 with that. I think there is lots of options for trans people  
11 wanting to use their body to make a baby. As long as those  
12 gonads, testes, or ovaries are there, there's fertility  
13 potential, that only removal of the gonads makes someone  
14 permanently infertile.

15 So as a pediatric endocrinologist I'm not really discussing  
16 with anyone permanent infertility, because I don't do surgery.  
17 But I do talk about the fact that you do need to progress at  
18 least -- you know, a significant way into your own body's  
19 puberty in order to be able to produce those gametes that allow  
20 someone to produce biologic children.

21 Q. Have you ever prescribed GnRH agonists to people with other  
22 medical conditions beside gender dysphoria?

23 I'm sorry. That was a poorly worded question.

24 I just mean, you are prescribing the medication for the  
25 gender dysphoria, but the person also has other medical

1 conditions. Does that ever come up?

2 A. Oh, yes.

3 Q. Are there any other conditions that would contraindicate  
4 using GnRH agonists to treat gender dysphoria?

5 A. Well, I think -- as with any condition that I'm treating, I  
6 think it's really important to get a very complete medical  
7 history to understand what medical problems a person may have.  
8 But simply having another medical problem doesn't typically  
9 interfere with the decision to use GnRH agonists.

10 You know, I would say -- we talk about bone density. If  
11 someone already has osteopenia for whatever reason, for example,  
12 they had cancer and they needed chemotherapy and it made their  
13 bones weak, you know, that would be a patient that I would maybe  
14 more concerned about really talking about what we know, what we  
15 don't know about the length of time that person would be on GnRH  
16 agonists.

17 But, you know, typically there's not, you know,  
18 hard-and-fast contraindications for GnRH agonists. But, again,  
19 knowing the complete medical history I think is just important  
20 in any discussion of medical decision-making.

21 Q. These medications are prescribed to minors. What is the  
22 informed consent process that you go through before you  
23 prescribe them?

24 A. So I think that in the course of this question and answer  
25 I've kind of gone through a lot of what I would talk about with

1 patients in that process. And I think as a pediatrician I'm  
2 sort of trained to explain these things, which are sometimes  
3 complicated, at an age-appropriate level and then ascertain  
4 whether the patient is understanding, what questions the patient  
5 may have, what questions the parents may have. And as I'm going  
6 into these conversations, you know, I know a lot about how the  
7 medications work; I know a lot about the risks and benefits as  
8 we've talked about, and I know a lot about that particular  
9 patient, but I'm not making that medical decision in a vacuum by  
10 myself, right. This is a relationship that I'm forming with the  
11 patient and their parents. We are working as a team.

12 And so at the end of that discussion, someone that would be  
13 prescribed GnRH agonists would meet the following criteria:  
14 That they would have a diagnosis of gender dysphoria, that my  
15 understanding of their gender identity and gender dysphoria  
16 would inform me that continuing into puberty would likely cause  
17 them significant distress, that the child understands why the  
18 medication is being prescribed and agrees that it would be  
19 helpful, and that the parents are making an informed consent  
20 decision with their adolescent's health in mind. And if all  
21 those criteria are met, then I would proceed to prescribing.

22 Q. And is that process you just described consistent with  
23 what's recommended in the Standards of Care?

24 A. It is.

25 Q. What is your own clinical experience prescribing GnRH

1 agonists to treat adolescents with gender dysphoria?

2 A. I mean, that's why I continue to wake up in the morning and  
3 smile to go into work, right, because, you know, I have the  
4 opportunity of meeting amazing kids and amazing parents every  
5 single day. Adolescence is a really challenging time in  
6 general, right, and that if you throw in gender dysphoria on top  
7 of that, then it can be really challenging. And when I have an  
8 adolescent coming to talk to me, they've also oftentimes been  
9 circling that appointment on their calendar for many,  
10 many, months. They are very nervous. They are expressing how  
11 they've been suffering, how they are not fitting in in the world  
12 because their body is changing in a way that is making them feel  
13 very uncomfortable.

14 And meeting parents that are there because they love and  
15 support their adolescent, and they're wanting to allow their  
16 adolescent to live the happiest, healthiest most fulfilling life  
17 that they can have.

18 But those stories are often quite painful. And one of the  
19 great things about my job is I get to see these patients back in  
20 follow-up and see them doing so well, and, you know, getting  
21 Christmas cards five years later from patients off at college  
22 and having that healthy, happy, productive life that they didn't  
23 think was possible when they first came. And it's because of  
24 gender-affirming care that that's the case. And I see that  
25 every day. And, you know, it makes -- makes me able to say

1 without hesitation that GnRH agonists are medically necessary,  
2 that it's complicated; we need to make sure we are performing  
3 assessments, really getting to know our patients and their  
4 families, really explaining these complicated things to them,  
5 but can have profound impact on the quality of the life of these  
6 adolescents.

7 Q. I'm going to turn now to ask you some questions about  
8 hormone therapy.

9 In the context of treatment for gender dysphoria, what is  
10 hormone therapy?

11 A. Hormone therapy is providing testosterone or estrogen in  
12 management of gender dysphoria for late adolescents or adults.

13 Q. Are these same medications used to treat any other medical  
14 conditions?

15 A. Yes. So many other medical conditions. But, you know, I  
16 would say maybe helpful in the context, there are patients with  
17 delayed puberty that would receive estrogen or testosterone to  
18 help start puberty, or patients that have a problem making  
19 testosterone or estrogen. So, for example, someone assigned  
20 female at birth may have ovarian failure and need estrogen in  
21 order to process through puberty normally. Or someone assigned  
22 male at birth may have testicle torsion where they lose their  
23 testicles and require testosterone to go through puberty  
24 normally. In those situations we're prescribing testosterone or  
25 estrogen in order to bring that testosterone or estrogen level



1 into the normal male or female range for that person's age so  
2 they are able to progress through puberty at an age-appropriate  
3 predictable path.

4 Q. In the context of using these medications to treat gender  
5 dysphoria, at what point in someone's development does that  
6 usually occur?

7 A. So I think that at early puberty we talk more about GnRH  
8 agonists, right. And then afterwards I think that there's been  
9 various discussions about when to discuss testosterone and  
10 estrogen.

11 You know, the very first Dutch clinics were using at age  
12 16. That was the age that you're able to consent for care in  
13 The Netherlands in the 1990s, and I think that's why they chose  
14 that age.

15 I think subsequently providers understand that it's not so  
16 much an age that's important here, it's the individual case,  
17 right. So there could be patients that really need, you know,  
18 quite a long time on GnRH agonists before they're, you know,  
19 capable of making that informed decision with their families  
20 about testosterone or estrogen, and maybe the exploration of  
21 gender identity is more complicated. There's patients that are  
22 very straightforward, have been living as a boy for their whole  
23 life who are using GnRH agonists now, but as soon as I feel  
24 comfortable providing the testosterone, they are ready for it.

25 So really taking that individualized approach, understand

1 someone's needs, you want to provide hormones at an age that is  
2 appropriate for their understanding. Also, you wouldn't provide  
3 hormones at an age younger than their peers are going through  
4 puberty. So somewhere in that 13 to 16-year-old window is  
5 usually the time where we are having a discussion about whether  
6 someone might benefit from testosterone or estrogen.

7 And then, of course, people that present older than that,  
8 like in adulthood, we are not talking about GnRH agonists; we  
9 are talking about hormonal care.

10 Q. Are estrogen and testosterone considered medically  
11 necessary to treat gender dysphoria?

12 A. Yes.

13 Similarly to how I described GnRH agonists, the body of  
14 literature regarding testosterone and estrogen informs us that  
15 these medications are safe and efficacious. And then people in  
16 this field's clinical experience add to that, that without this  
17 intervention we understand that people with gender dysphoria  
18 would not improve and have worsening outcomes.

19 Q. Are these medications considered experimental when you  
20 treat gender dysphoria?

21 A. They are not.

22 Q. You mentioned that the literature suggests that these  
23 medications are safe. Do they have any side effects?

24 A. Testosterone and estrogen, because they are medicines, will  
25 have risks and benefits and side effects.

1 I'd like to first explain that whenever we are using --  
2 let's take testosterone, for example. Whenever we are using  
3 testosterone as a medication, whether it's in someone assigned  
4 male at birth, someone assigned female at birth, we are trying  
5 to make that person's testosterone level normal for a male that  
6 age, right.

7 So if someone is 16 and lost their testicles in an  
8 accident, I'm using testosterone to bring that young man's  
9 testosterone level up to the normal range for a 16-year-old. If  
10 I'm using testosterone to treat a trans man who is 16, I'm  
11 bringing that testosterone up to what's normal for a young man  
12 that age in the same way.

13 And if we do that right, then some very predictable things  
14 happen. We call it the development of secondary sex  
15 characteristics: The voice gets deeper. Over more time the  
16 body gets more hairy, facial hair, body hair. Bones get  
17 stronger, muscles get stronger, maybe face becomes more  
18 masculine. All of those things are sort of the normal things  
19 that we would expect with any person going through a  
20 masculinizing puberty.

21 Are there side effects of going through puberty? Yes,  
22 right. I'd say the biggest complaint I get with testosterone is  
23 acne. That's because testosterone induces acne, both in people  
24 making their own testosterone, people given testosterone.

25 I'd also say that if you take more testosterone than you

1 need and have a testosterone level higher than normal for a man  
2 your age, then that's not good either, right. So think of the  
3 example of a baseball player who is abusing testosterone to hit  
4 more home runs, right. That person is giving themselves the  
5 whole bottle of testosterone instead of the right dose, and they  
6 are going to maybe hit more home runs, but they are going to  
7 have high blood pressure, put them at risk for diabetes. So  
8 more is not better.

9 But if I'm doing my job right and their testosterone level  
10 is normal, then we would really expect that person's risk for  
11 different medical problems to be very similar to other men,  
12 which might be different than other women. Men and women have  
13 different risks for different things. But if that risk is  
14 related to having a normal male hormone level, then I would  
15 expect that person to have the same risk for those medical  
16 problems as, say, brothers that they might have.

17 Q. You mentioned if you are doing your job right. Is there a  
18 monitoring that you engage in to ensure that those testosterone  
19 levels are appropriate?

20 A. There is. So prior to starting testosterone, it's  
21 recommended to -- and I do measure some baseline labs. So  
22 measure the testosterone level before we start. It's going to  
23 be low. Measure things like cholesterol and hematocrits, liver  
24 function to get a baseline, right. A patient then starts  
25 testosterone three months later.

1           At the follow-up appointment, I'm going to be first  
2 checking in on how things are going, right: What have they  
3 noticed on the testosterone? Does testosterone still feel like  
4 the right choice for them? Asking them very open-endedly --  
5 right? -- because just like any other medical decision that  
6 needs to be reevaluated at each visit.

7           But then also are they noticing anything about the  
8 testosterone that they don't like or that they would consider  
9 side effects -- are they having bad acne, you know -- and then  
10 measuring the same labs that I got before they started to  
11 compare. I'm expecting the testosterone level to rise, but I'm  
12 expecting the other labs to be normal for a young man their age.

13           And I get the baseline labs because someone might have high  
14 cholesterol. Just because they have high cholesterol and if I  
15 only measured it after they started testosterone, I won't know  
16 if it was because of their own cholesterol problem or is the  
17 testosterone contributing.

18           So I'm using that lab and the clinical status and the  
19 patient's experience on testosterone then in potentially  
20 changing the dose or altering the plan in some way to continue  
21 to address the patient's gender dysphoria and continuing to do  
22 that in a safe way.

23 Q.   We've talked about testosterone. What about estrogen?  
24 Does estrogen come with any side effects?

25 A.   Yes, and I can explain it in kind of a similar way. With

1 use of estrogen, we're trying to raise the estrogen level to the  
2 normal female range for someone that age, and women have  
3 different risks for different things than men do simply because  
4 of estrogen, right? So woman are at higher risk for blood  
5 clotting problems. People with breasts are at higher risk for  
6 breast cancer. So -- and I would sort of expect that someone  
7 with a normal estrogen level for that age would have the same  
8 sort of risks as other women that age that are making the same  
9 amount of estrogen. So maybe they'd have the same medical risk  
10 as sisters that they might have.

11 So I think the examples that I tend to use with patients  
12 is, for testosterone, going bald, right. If you never started  
13 testosterone, the chances that you would go bald is very low,  
14 right. On testosterone your chance of going bald is probably  
15 very similar to all the other men in your family, right.

16 With people starting estrogen, while this topic isn't as  
17 maybe lighthearted as baldness, I think breast cancer is a good  
18 example. So if you take breast cancer as an example, women are  
19 at higher risk for breast cancer than men because women have  
20 breasts, and men typically don't. There are some breast glands  
21 in every person, and so some men have breast cancer but much,  
22 much lower than women. So that there's actually screening  
23 guidelines that women with breasts are supposed to have  
24 mammograms, I believe now, starting at 40. If there has been a  
25 history, it shifts to 35 or 30, and that men do not get

1 mammograms for a screening test because of the low incidents.

2       So someone on estrogen will develop breasts. Those glands  
3 will grow. And there is a study suggesting that transgender  
4 women that have been on estrogen have a higher risk for breast  
5 cancer than men and, it turns out, probably lower than cisgender  
6 women, so somewhere in the middle.

7       But I think that that kind of is a helpful example to point  
8 out that, yes, some medical problems are related to the hormones  
9 in our bodies, and that when we're using hormones to bring a  
10 person's hormone level up to what's normal for that gender's  
11 normal range that we expect that health problems might mirror  
12 women in their family more than men in their family, or vice  
13 versa.

14 Q. Do you do any monitoring when you prescribe estrogen to  
15 your patients?

16 A. I do, very similarly to testosterone: Get baseline labs,  
17 subsequent follow-up labs, and then as part of that assessment,  
18 in any return visit talking with the patient about her  
19 experience with being on estrogen, what is she noticing with  
20 regard to changes to her body, changes to her mood and mental  
21 health, any negative impacts that the medication may be having  
22 for her, and then measuring these labs to monitor for safety.

23 Q. Do testosterone and estrogen impair fertility?

24 A. So, again, that's a more complicated question and something  
25 that I do spend a lot of time talking to people about.

1           Let's think about testosterone first. So someone that is  
2 taking testosterone for an extended period of time, there's  
3 studies to suggest that if that person stops testosterone, say,  
4 in order to try to achieve a pregnancy, that 80 percent of  
5 people will have return of menses in six months. And so the --  
6 then that person could then either try to become pregnant or see  
7 an OB/GYN doctor to retrieve eggs to use for a pregnancy. And  
8 there have been many, many babies born to trans men in a variety  
9 of those different contexts. And so, you know, I never think of  
10 testosterone as the end of the story for someone's fertility  
11 options.

12           Now, there may be a subset of people that being on  
13 long-term testosterone may make it harder for them to achieve a  
14 pregnancy and even a smaller subset that it may be impossible  
15 for them to achieve a pregnancy, just like there is a subset of  
16 cisgender woman that have a harder time becoming pregnant and a  
17 subset of cisgender women that are infertile naturally.

18           So I think that prior to starting testosterone, I make sure  
19 that the person knows that, yes, that there's still options, but  
20 that for some people, long-term testosterone may make it harder.

21           That for estrogen, right -- that taking estrogen lowers  
22 testosterone, lowers sperm count, and that people that would  
23 like to subsequently use sperm to make a baby would come off of  
24 estrogen. There would be an expected rise of sperm count and  
25 testosterone over time, and then they could try to use that



1 sperm to make a baby. But just like, vice versa, some trans  
2 women may have a longer time to return of fertility, and a  
3 subset may have failure to return to fertility, just like some  
4 cisgender men have infertility naturally.

5 So people assigned male at birth more than people assigned  
6 female at birth do opt for fertility preservation, saving sperm,  
7 because the process is more straightforward. But in both cases  
8 we counsel people that, you know, fertility preservation is an  
9 option.

10 Now, we don't think that either estrogen or testosterone  
11 has -- you know, it's not black and white, like everyone that  
12 takes it for a certain amount of time, there's no chance in even  
13 trying. There's studies, for example, of people who have had a  
14 hysterectomy and removal of their ovaries for gender-affirming  
15 reasons and their ovaries look healthy compared to -- they were  
16 comparing it to women with polycystic ovarian syndrome and  
17 hyperandrogenism, right. So some cisgender women have high  
18 testosterone levels just normally, naturally, and that's called  
19 PCOS. And when you look at the ovaries of women with PCOS who  
20 are -- tend to be -- have a hard time with fertility, their  
21 ovaries on the microscope look abnormal, but the ovaries of  
22 trans men look more normal. So that's, I guess, some evidence  
23 to suggest that there's not so much of this architectural change  
24 to the ovaries as a result of being on testosterone.

25 Q. Do you ever prescribe testosterone and estrogen for the

1 indication of gender dysphoria to people who have other  
2 co-occurring health conditions?

3 A. I do, yep.

4 Q. Are there any other medical conditions that would  
5 contraindicate prescribing these medications to treat gender  
6 dysphoria?

7 A. There's not many. I think that -- you know, just like our  
8 conversation with GnRH agonists, it's really important to get a  
9 complete medical history. You know, I think that sometimes that  
10 medical history may dictate differences in approaches.

11 So, for example, we think that -- you know, we talked a  
12 little bit about women have a higher clotting risk, right. So  
13 if a trans woman has a family history of blood clots, we might  
14 chose transdermal patches for estrogen rather than pills,  
15 because it seems like transdermal patches have an even lower  
16 risk for clotting problems.

17 You know, if someone is going through cancer treatment, for  
18 example, I might say, Okay. Well, you know what? Let's get  
19 through chemo first, and then let's talk about testosterone,  
20 right. So, you know, there's -- you know, I think putting --  
21 putting this decision in context is what we're all supposed to  
22 be doing.

23 Q. When you prescribe these medications to minors, what  
24 informed consent process do you go through?

25 A. For testosterone and estrogen?

1 Q. Correct.

2 A. Yeah. So I think that -- sort of similar to my answer with  
3 GnRH agonists, basically it's a conversation very similar to  
4 what we're having right now, that we're going through what is  
5 known about why people might benefit from testosterone or  
6 estrogen, what to expect with taking testosterone and estrogen.  
7 I'm trying to get an understanding of what they understand with  
8 regards to those topics. I'm spending a lot of time talking  
9 about some of the risks and benefits, the side effects that  
10 we've talked about, and, similarly, assessing that person's  
11 capacity to understand that information, that they understand  
12 why the medication might be helpful for them, but they  
13 understand the risks of taking the medication, that they are  
14 then assenting to that decision, and their parents are providing  
15 the informed consent.

16 Q. Is that consistent with the Standards of Care?

17 A. Yes.

18 Q. And what is the informed consent process you go through  
19 when you're prescribing these medications to adults?

20 A. So it's very similar. That -- you know, I think the  
21 difference -- sort of the subtle difference in the WPATH  
22 Standards of Care is that the diagnosis of gender dysphoria in  
23 adolescents, it's recommended for that diagnosis to be made by a  
24 mental health professional with -- you know, with experience in  
25 gender dysphoria; that in adults, the diagnosis of gender

1 dysphoria may be made by a healthcare professional with  
2 experience with gender dysphoria, and that could be an adult  
3 endocrinologist.

4 Q. And is that process you described consistent with the  
5 Standards of Care?

6 A. Yes.

7 Q. What is your own clinical experience providing hormone  
8 therapy to treat gender dysphoria?

9 A. Maybe even more powerful than how I described the GnRH  
10 agonists, you know, one of my favorite types of visits is that  
11 three-month follow-up visit where patients are coming back after  
12 having been on testosterone or estrogen for the last  
13 three months, and, you know, my first question, which I've  
14 prepared them for as they left the first visit or the previous  
15 visit, was: The first thing I'm going to ask you after I ask  
16 you to verify what name and pronouns you're using is do you feel  
17 like the decision to be on testosterone or estrogen is still the  
18 right choice for you? Because like any medical decision, we  
19 need to reevaluate that at every visit.

20 But, you know, when I ask that question, I often see a  
21 light go off in these adolescents' faces: Oh, Dr. Shumer,  
22 absolutely. I can't believe, like, my grandma called me from  
23 California and she's like, your voice, your voice sounds  
24 different, and it made my day; right? And I'm feeling so much  
25 more comfortable doing X, Y, or Z, ordering a pizza -- I guess

1 people use an app for that now -- or going to school, or  
2 interacting with friends.

3 That -- that the -- that I have the privilege of watching  
4 adolescents who are withdrawing from life, failing school, not  
5 attending school, you know, having thoughts of self-harm, sort  
6 of unlocking the potential that I knew and their parents knew  
7 that they had inside of them, that they're now able to see a  
8 future where their life is happy and fulfilling.

9 And so I think that's my clinical experience in providing  
10 hormonal care for adolescents.

11 Q. Dr. Shumer, do you ever see patients seeking surgical  
12 interventions to treat gender dysphoria?

13 A. Yes. As a pediatric endocrinologist, I'm not really  
14 involved in decisions around surgery, but I certainly have  
15 patients that, you know -- and I ask patients, you know, what,  
16 if any, surgical goals they may have. You know, in the majority  
17 of cases, chest surgery and genital surgery are typically being  
18 reserved for patients that are over 18. In my hospital system,  
19 there isn't genital surgery offered for people younger than 18.  
20 But I -- I -- you know, I help to, you know, answer questions  
21 that they might have about what those surgical options are, but  
22 ultimately my job would be more to discuss, you know, the route  
23 that someone might go to pursue those services once they're 18  
24 and ask the more specific questions to the surgeon.

25 MS. COURSOLE: Your Honor, I know we're approaching

1 late in the day. I have maybe about 30 minutes left. Would you  
2 like me to finish up on direct?

3 THE COURT: It works if it works for everybody else.

4 Yeah, let's see if we can't finish.

5 MS. COURSOLE: Wonderful. Thank you.

6 THE COURT: If you get to a point where we're not  
7 making progress as fast as we could, we can start in the  
8 morning. It sounds like Dr. Shumer is going to be here in the  
9 morning either way, but if we can finish direct, that would be  
10 good.

11 MS. COURSOLE: I appreciate that. Thank you, Your  
12 Honor.

13 BY MS. COURSOLE:

14 Q. Dr. Shumer, in your opinion, other than the three types of  
15 treatment we've talked about -- GnRH agonists, hormone therapy,  
16 and surgery -- are there alternative treatments for gender  
17 dysphoria?

18 A. Yeah. So how I sort of described it at the beginning of my  
19 testimony, you know, I think that there's a variety of things  
20 that people do every day to help reduce gender dysphoria. They  
21 might not think about it as treatment, right?

22 You know, the clothes you pick out in the morning is  
23 treating gender dysphoria in some respects; right? But that --  
24 you know, so there are some people that maybe have a difference  
25 in gender identity but, you know, are able to modify this or

1 that about their presentation to the world and don't require  
2 medical intervention.

3       Someone who has made a social transition and has  
4 experienced consistent, insistent, persistent distress that's  
5 impairing their life and is continuing to meet criteria for  
6 gender dysphoria, I don't see that degree of gender dysphoria  
7 resolving with alternative treatment besides the type of options  
8 that we've been talking about today.

9 Q. Dr. Shumer, are you familiar with the concept of watchful  
10 waiting?

11 A. I have heard that term before.

12 Q. What does it mean to you?

13 A. How I understand the term "watchful waiting" in this  
14 context is, you know, if someone has gender dysphoria even at  
15 the start of puberty, that allowing them to continue to go  
16 through puberty and continue to watch and wait and delay any  
17 medical decision-making until adulthood is an approach that some  
18 people advocate for.

19 Q. In your opinion, is that approach effective to treat gender  
20 dysphoria?

21 A. I don't find it to be effective, I think for a couple of  
22 reasons. One is that the process of continuing to go through a  
23 puberty that is causing distress seems to only exacerbate  
24 dysphoria for someone who clearly meets criteria for gender  
25 dysphoria.

1 But also, you know, not treating has risks and benefits as  
2 well; right? So a risk of not treating or, as you described it,  
3 watchful waiting is that you go through puberty and develop  
4 these secondary sex characteristics that do not align with your  
5 gender identity and likely never will.

6 All right. So let's say a trans woman who did watchful  
7 waiting throughout her whole adolescence and is now only, you  
8 know, embarking on treatment as an 18-year-old woman is going to  
9 have a very deep voice, is going to have large hands and a  
10 masculine face. All of that not only was very painful for her  
11 at the time it was developing but is now something that she's  
12 going to think about every morning: Are people going to, you  
13 know, see me as a woman because I don't -- I don't look as  
14 feminine as I feel inside? And that's because I went through  
15 puberty; right?

16 And so I think -- I think any medical decision, whether  
17 it's starting a medicine or not starting a medicine, has  
18 consequences.

19 Q. As you've described watchful waiting, Dr. Shumer, is that  
20 form of treatment safe to treat gender dysphoria?

21 A. So for the reason that I've just explained, I would not  
22 consider it safe.

23 Q. And you've defined watchful waiting as the waiting part of  
24 that to refer to waiting until someone has reached the age of  
25 majority to start treatment; is that right?



1 A. That's how I was referring to it. If you have a different  
2 definition, you know --

3 Q. I just wanted to make sure we're on the same page.

4 What is -- in your experience, what is the impact of not  
5 providing treatment, either hormone treatment or surgical  
6 treatment, to treat gender dysphoria for adults?

7 A. So I think that -- that someone with gender dysphoria is by  
8 definition struggling, right, and that -- that because we know  
9 that there's safe and effective treatment options that reduce  
10 that suffering, I think inability to provide that type of care  
11 leads to unnecessary suffering for that adult.

12 Q. A little earlier when you talked about sort of the range of  
13 interventions that people can use to treat gender dysphoria, you  
14 talked about mental health treatment psychotherapy that can be  
15 an appropriate treatment; is that right?

16 A. Yes. In fact, you know, I may have said I feel like every  
17 teenager could use a therapist, maybe every adult too.

18 And -- but certainly going through something like  
19 transition as an adolescent, I always recommend that you have  
20 sort of a non-parent, nonpartisan person to sort of, like,  
21 unload to every week or every other week is -- I think is  
22 helpful for anyone that -- that -- you know, I think that, for  
23 example, someone that isn't able to access gender-affirming  
24 care, working with a therapist to say, Okay, you know, here's  
25 what we know we might need, but we can't get it. How are we

1 going to cope? How are we are going to keep from killing  
2 ourself? Right.

3 So that type of therapy can be helpful, but it doesn't  
4 address the underlying issue of trying to reduce gender  
5 dysphoria.

6 So I think, for example, someone with gender dysphoria and  
7 depression and anxiety, right, you know, all of those things are  
8 allowed to coexist, right.

9 We think that -- an example that I like to use with  
10 patients and families is, you know, your depression and anxiety  
11 is like a loaf of bread, right, and this part of the loaf of  
12 bread is tied into your gender dysphoria. You know, this part  
13 of your anxiety and depression is really at the root of it  
14 because of this gender dysphoria that you are feeling. But you  
15 still got this part of the bread, right, that's totally separate  
16 anxiety and depression.

17 So if we are treating gender dysphoria effectively, this  
18 gets smaller, the loaf gets smaller; your anxiety and depression  
19 is now more manageable. And, you know, that -- that we can  
20 continue to work on with your therapist, right.

21 So -- but I think maybe in answer to your question, you  
22 know, monotherapy with psychotherapy in someone that has  
23 significant gender dysphoria, you know, may be helpful in  
24 keeping someone out of the psych ER, but really doesn't equate  
25 to a high quality of life.

1 Q. Dr. Shumer, are you familiar with the concept of conversion  
2 therapy?

3 A. Yes.

4 Q. And I should specify, conversion therapy relative to gender  
5 dysphoria?

6 A. Yes.

7 Q. What does that mean to you?

8 A. It means, you know, a mental health approach where the goal  
9 of the intervention is to help someone to change their gender  
10 identity.

11 Q. In your opinion, is conversion therapy an effective  
12 treatment for gender dysphoria?

13 A. You know, I'm not a mental health expert, but in my review  
14 of the literature on the subject, I would not consider  
15 conversion therapy to be an effective intervention strategy.

16 Q. Would you consider it a safe intervention?

17 A. You know, again, from my review of the literature, I have  
18 an understanding that many patients that have had attempts of  
19 that type of therapy have -- you know, have had poor outcomes.  
20 And so, no, I wouldn't consider it safe.

21 Q. I just have one more area of questions. I know we are all  
22 anxious to go home.

23 Dr. Shumer, in this case you have reviewed the medical  
24 records, or some of the medical records of our four plaintiffs,  
25 August Dekker, Brit Rothstein, Susan Doe, and K.F.; is that

1 right?

2 A. That's correct.

3 Q. And based on your review of those records, is the care that  
4 each of those plaintiffs received consistent with clinical  
5 guidelines?

6 A. Yes, it was.

7 Q. Do you have any concerns about the care that our plaintiffs  
8 received?

9 A. I don't.

10 MS. COURSOLE: That's all my questions.

11 Thank you, Your Honor.

12 THE COURT: Mr. Jazil, I'll give you the option. You  
13 want to cross now or come back in the morning?

14 MR. JAZIL: Your Honor, I'll come back in the morning.  
15 It will be shorter.

16 THE COURT: And all the lawyers quickly figure out  
17 that by saying it will be shorter you always get to start  
18 tomorrow.

19 Thank you, Dr. Shumer. If you'd be back on the  
20 witness stand at 9:00 o'clock tomorrow morning.

21 Anything else we need to discuss before we break for  
22 the evening?

23 MR. GONZALEZ-PAGAN: Your Honor --

24 THE COURT: Dr. Shumer, you are welcome to step down.

25 Thank you.

1 (Dr. Shumer exited the courtroom.)

2 MR. GONZALEZ-PAGAN: Your Honor, we can move some of  
3 the discussions to tomorrow, but we did want to have at one  
4 point a conversation with the Court, just an early conversation  
5 with the Court. Obviously, there was a bill that was signed --  
6 that was passed by the legislature after our pretrial conference  
7 last Thursday that would establish the same rule in the statute.  
8 It is plaintiffs' intent to move to amend the complaint to  
9 include that into this case.

10 There really are no significant differences in what  
11 the trial would look like or -- but I think -- I just want to  
12 alert the Court about this conversation. The bill is not yet  
13 signed, and that's the trigger for us to have the conversation.

14 THE COURT: Well, I don't like making political  
15 projections, but my guess is that bill will be signed. And I'm  
16 not sure I know any of the details.

17 I know that -- I thought I knew that there was a bill  
18 signed that followed up on the rule that's at issue in the other  
19 case.

20 Did the -- does the bill also address Medicaid  
21 payment? Or by implication it would if it made it illegal to  
22 provide this service in the state, then the Medicaid issue kind  
23 of falls by the side.

24 But does the bill explicitly address Medicaid payment?

25 MR. JAZIL: Your Honor, it is Bill 254, Section 3.

1 Arguably addresses the Medicaid issues. There is a Subsection 2  
2 that says a governmental entity or postsecondary educational  
3 institute, a state group health insurance program, a managing  
4 entity as defined in this particular statute, or a managed care  
5 plan providing services under Part 404.09, may not expend state  
6 funds as described in another statute for sex reassignment,  
7 prescriptions, or procedures, as defined in yet another statute.

8 So, Your Honor, the honest answer is I don't know what  
9 the prohibition on State funds necessarily applies to, because  
10 Medicaid funding is both state and federal funding. So I'm  
11 trying to get an answer to whether or not this is --

12 THE COURT: It's the state reimbursed by the fed,  
13 isn't it? But, whatever. Maybe not.

14 In any event, is there any reason -- nobody asked to  
15 consolidate this case with the other case, so I've started this  
16 trial as a Medicaid trial. It overlaps in a lot of respects.  
17 I'm not sure that there is going to be any evidence in the other  
18 case that's not already coming in in this case. But I'll be  
19 willing to listen to what either side says you want to do about  
20 the statute in the other case.

21 MR. GONZALEZ-PAGAN: Sure, Your Honor.

22 If I may, our -- for what it's worth, our intent is  
23 just to -- would be just to amend this case to have it be  
24 focused on public funding for reimbursement and stay within the  
25 Medicaid lane. It wouldn't be to attach the other parts of the

1 bill that affect the overlap of the BOM rule that are part of  
2 the Doe v. Lapado case.

3 THE COURT: I get it, but let me just tell you, there  
4 is a line of cases -- and this comes up, for example, in the  
5 billboard cases. You know, there's the billboard and there's  
6 the free speech problem, but there is some other regulation that  
7 you couldn't put that billboard up anyway. And that gets  
8 analyzed not as a same decision problem but as a standing  
9 problem.

10 And so you ought to think about and we should discuss  
11 the -- this problem.

12 We have this trial, and I make a ruling. And then the  
13 Eleventh Circuit says, All for not, because there's a separate  
14 statute that prohibits this service from being provided in the  
15 state of Florida anyway, so everything you addressed in that  
16 Medicaid trial didn't make any difference. And the way it would  
17 be articulated, at least on one view, is the plaintiffs aren't  
18 affected because they are not going to get care in Florida  
19 anyway.

20 And if it gets articulated that way, then the Circuit  
21 says that's a standing issue. And I haven't gone back and read  
22 it, but I think there is a case from maybe last week where I  
23 think a trial in a commercial case -- not anything to do with  
24 this -- they have a trial and the plaintiff doesn't prove  
25 damages. And the Circuit says there, Well, there was no

1 standing.

2           And, frankly, I kind of scratch my head and say, Wait  
3 a minute. There is a plaintiff putting on a whole lot of money  
4 and they had a trial before the issue was even resolved.

5           So let me just tell you, standing is a major issue in  
6 the Circuit, and we are spending a lot of time and a lot of  
7 effort and a lot of money to have this trial. And I've worked  
8 hard at it. And my plan is to work hard on it the next however  
9 many days we are in trial. But you may want to think about  
10 whether you really want to limit this trial to the Medicaid  
11 issue. And what's your answer going to be when you either win  
12 or lose and you're up in the Eleventh Circuit, and the first  
13 question the judge says is, How do we have jurisdiction? Why is  
14 there standing?

15           And if the answer is, Ah, shucks, because Hinkle  
16 worked really hard on this, that ain't going to get you there.

17           MR. GONZALEZ-PAGAN: No, of course, Your Honor.

18           So, first, I do want to address two quick points with  
19 regards to the standing and why we believe we should still move  
20 forward. But our intent is actually not to get to that, "ah,  
21 shucks" point and, in fact, to prevent that issue and situation.

22           So, first, we would posit that the statutory claim as  
23 to 1557 would still be live and standing. There has been care  
24 that has been denied in the past as a result of the rule, prior  
25 to the enactment of the statute. So that would still keep this



1 case as a live case or controversy.

2 But separate and apart from that, I would also note  
3 that --

4 (Reporter requests clarification.)

5 MR. GONZALEZ-PAGAN: 42 CFR 421.52.

6 While they're dire regulations under Medicaid, states  
7 do have to cover care that is not available within their state,  
8 if available elsewhere and actually pay for the travel of the  
9 Medicaid beneficiary to obtain that care.

10 All that said, however, our intent, actually,  
11 Your Honor, in raising this right now is that we would like to  
12 move to amend the complaint to include this statute, given that  
13 there would be really no difference in what the trial would look  
14 like if it were happening right now versus a month later, to  
15 avoid this issue going, "Ah, shucks," at the Eleventh Circuit,  
16 if you will.

17 THE COURT: But if I understood what you said earlier,  
18 what you want to amend is to challenge only the new part of the  
19 statute that prohibits payment of the care under Medicaid, not  
20 the part of my other case that challenges as unconstitutional  
21 the ban on doctors providing this care in the state.

22 MR. GONZALEZ-PAGAN: I'm happy to revisit with my  
23 team, Your Honor, but that is correct.

24 And the reason why is part A, the Medicaid aspect of  
25 this case, applies to both adults and minors. That other part

1 of the statute is only limited to minors. And even -- and as I  
2 mentioned under the Medicaid regulations, even if the care is  
3 not available in Florida, Medicaid does have to cover it when  
4 available elsewhere in the United States.

5 THE COURT: All right.

6 You object to the amendment?

7 MR. JAZIL: Your Honor, the bill hadn't been signed,  
8 so the amendment is premature, number one.

9 Number two, I think there is an added complication.  
10 If I understood it right, the plaintiffs have, in part, an  
11 animus claim. It's an animus claim rooted to how the rule was  
12 promulgated. If now the statute is the thing that is  
13 prohibiting the availability of care, I think the focus then  
14 shifts from the rule to the statute to look at the process.

15 THE COURT: Well, it does. I mean, I assume it's the  
16 same animus claim with respect to the statute now as opposed to  
17 the rule.

18 MR. JAZIL: The evidence was all, you know, directed  
19 at the rule with Jeff English, the process the State uses to  
20 promulgate the rule, et cetera.

21 THE COURT: Well, that was the evidence so far. The  
22 evidence is what's going to come in during the rest of this  
23 trial.

24 MR. JAZIL: Fair enough.

25 MR. GONZALEZ-PAGAN: For what it's worth, Your Honor,

1 if I may, I would just posit that when it comes to the animus  
2 prong of the claims that are at play, the trial is honestly  
3 focused on Your Honor's guidance on really the medical knowledge  
4 and *Rush v. Parham*.

5           The question of animus is really driven by, frankly,  
6 what would be considered more legislative fact finding by the  
7 Court. That is not -- it's not like we are calling in the  
8 Governor as a witness or anything like that in this case, nor do  
9 we intend to, nor would we in the other case, right?

10           And it wouldn't make any --

11           THE COURT: I never said animus wasn't an issue in the  
12 case. I addressed *Rush versus Parham* and the standards under  
13 the Medicaid statute. Your papers are full of references to  
14 animus.

15           MR. GONZALEZ-PAGAN: Yes.

16           THE COURT: Look, there's a -- I mean, I don't read  
17 the newspapers about this stuff with any care, but I see the  
18 headlines, and some of it just as it comes by. There was a  
19 legislator who on the -- was it a committee hearing that said,  
20 These people are mutants. I mean, animus is in the case.

21           MR. GONZALEZ-PAGAN: And again, a bit premature, but I  
22 would just posit that that doesn't prevent us from continuing  
23 with either the amendment or this trial. We could have separate  
24 truncated findings of fact of discovery with regards to just  
25 that question and proceed with the trial as is with regards to

1 the rest of the aspects, to the extent that my friend thinks  
2 that that question is different with regards to the bill.

3           We do -- I think we both agree that the trigger for us  
4 to amend has not yet come to pass. But once it does, we do  
5 intend to present the Court with a motion if -- for that effect.  
6 And we believe it would just be the most efficient way to deal  
7 with this, to meet the policies and the statutes of the State  
8 that deal with the same issue, one that has both come to pass,  
9 most likely during the pendency of this trial, and to preserve  
10 the resources, frankly, of all parties and the Court, given all  
11 the efforts that have been provided so far into this.

12           THE COURT: Well, I understand the amendment isn't  
13 timely until the new statute is signed. It seems likely to me  
14 that the statute will be signed.

15           I'm all for handling all of this in the most efficient  
16 way it can all be handled. I suspect that this case is not  
17 going to end in the district court. I will -- my ruling likely  
18 will make one side or the other, and perhaps both, dissatisfied  
19 in at least some respects. And one side or the other, or  
20 perhaps both, will wind up appealing. And so there will be a  
21 decision one day in the Eleventh Circuit, possibly in one of  
22 these cases, from one of the states where all this is going on,  
23 one day in the Supreme Court.

24           I view a major part of my job to compile a good  
25 record, at least as good as you folks bring and as well as I can

1 do it on this side. I'd like to do that as efficiently as I  
2 can. I'd rather not repeat stuff unnecessarily.

3 I mean, I don't know that Dr. Karasic would say  
4 anything different testifying in the other trial. I don't know  
5 that Dr. Shumer would say anything different in testifying in  
6 the other trial. By the other trial, I mean the trial of the  
7 new case, the one dealing with the medical profession -- or the  
8 prohibition in the new statute.

9 Now, there are all kinds of ways to deal with that. I  
10 may be wrong about that. There may be particular things they  
11 would say so that we need to have a trial in the other case and  
12 bring them back. But even there, to the extent we can treat  
13 testimony here as admissible and admitted there, that probably  
14 makes sense. But you should both be thinking about how best to  
15 get this presented.

16 I don't think it's a good answer just to say, Well,  
17 we're not going to amend the complaint. And so we just put  
18 things off, and we don't do any coordinating. Amending the  
19 complaint strikes me as fine. Mr. Jazil may persuade me  
20 otherwise, but it strikes me as probably just fine to amend the  
21 complaint, to go forward with the trial. If there really are  
22 new things that we can't get all presented -- one nice thing  
23 about a bench trial is you don't have to worry about bringing  
24 jurors back or whatever. If we just try this case as thoroughly  
25 as we can try it and keep the record open if we have to bring

1 back some other evidence a couple weeks or even a month or a  
2 couple of months down the road, that can be done. You've got  
3 everybody scheduled. So it seems to me that if we can make it  
4 work to keep on the schedule we have now and bring in all the  
5 witnesses on the schedule we have right now, that makes sense to  
6 do that.

7           And then you ought to talk about the other case and  
8 whether there is really anything different in the other case. I  
9 referred to a comment that I saw in the paper having been made,  
10 but the truth is those kind of comments really don't amount to  
11 much. What really matters is -- more is what was passed and if  
12 there's any history of what was introduced and how it got  
13 changed. That probably makes more difference than what one  
14 legislator said. You know the kind of things that go in and get  
15 properly considered on that kind of an issue and whatever else.  
16 There may be other testimony or other experts.

17           But if you can talk to each other about how much of  
18 this trial we can preserve for that other case, and then the  
19 possibility is to take the evidence we have now -- and if you  
20 want to wait and try the other case, it seems to me it shouldn't  
21 take very long because most of it is right here. But if we want  
22 to try the other case, consolidate the records, treat the two  
23 cases together and get a ruling at that point, that's the kind  
24 of thing we can do.

25           I'm very flexible on all of this. I'd like to do it

1 as efficiently as we can. If I can write one opinion instead of  
2 two, that's certainly okay with me. There will be a lot of  
3 overlap.

4 But you must have been thinking about this some  
5 because you knew this statute was in the works. We talked about  
6 it briefly at the pretrial, and everybody just wanted to keep  
7 marching as we are, and so that's why we're here.

8 MR. GONZALEZ-PAGAN: Yes, Your Honor, we're happy to  
9 have all of those conversations, and we do agree that efficiency  
10 here would be welcomed.

11 Just briefly, there's a small overlap between the  
12 team representing the plaintiffs in the other case and our team,  
13 but --

14 THE COURT: That's right. It's a different set of  
15 lawyers.

16 MR. GONZALEZ-PAGAN: It's a whole different set of  
17 attorneys, so -- but we're happy to talk to that -- plaintiffs'  
18 counsel in that case, and my colleague Simone Chriss is on both  
19 cases.

20 THE COURT: I'm sorry. I forgot that. I wouldn't  
21 have been talking about their case so much without them here if  
22 I had recalled.

23 You're in the other case?

24 MR. JAZIL: Yes, Your Honor. And the lead counsel for  
25 the plaintiffs in the other case is in the gallery as well.

1 THE COURT: All right. So I haven't talked too much  
2 behind your back.

3 All right. Well, all of you talk and see how you want  
4 to do, but the plan as of now is to just keep marching. So I'll  
5 be here at 9:00 in the morning, and we'll have Dr. Shumer on the  
6 stand, and we'll keep going with it.

7 MR. JAZIL: Your Honor, I just highlight for the  
8 Court -- I mean, if we're working through the *Arlington Heights*,  
9 *Greater Birmingham* factors, the sequence of events leading up to  
10 the passage of what -- the rule or the legislation, I think the  
11 focus does change a bit, the thing that we're looking at if we  
12 have a process claim. And, again, the State's position is under  
13 *Rush v. Parham* there is no process claim, but I understand --

14 THE COURT: Yeah, I have to tell you I find it --  
15 curious may not be the right word. You're all up in arms  
16 because WPATH won't tell you how they adopted their standards,  
17 but you don't think the State of Florida ought to tell us how  
18 they adopted their rule. It seems to me that one can argue that  
19 how the State of Florida did it ought to be fair game, but how  
20 WPATH did it doesn't matter. But I think it's a whole lot  
21 harder to make the argument that how WPATH did it needs to be  
22 looked at under a microscope, but how the State of Florida did  
23 it doesn't matter. That seems to me to be a very hard argument.

24 MR. JAZIL: I understand, Your Honor. I'm simply  
25 making that argument under the *Rush* paradigm. Under the Equal



1 Protection paradigm, if we're using the *Arlington Heights*  
2 framework, that is all fair, and it is what it is.

3 THE COURT: It is what it is, yeah.

4 All right. Well, we've probably gone as much on this  
5 as we can. We'll keep going with it. But keep me posted. I'll  
6 go back and read the bill so that I've got a better idea of  
7 this, and we'll see where we go. My goal at least is not to  
8 have a trial that winds up being meaningless, so -- and that's  
9 probably everybody else's goal.

10 I'll see you at 9:00 in the morning.

11 MR. GONZALEZ-PAGAN: Thank you, Your Honor.

12 (Proceedings recessed at 5:26 PM on Tuesday, May 09, 2023.)

13 \* \* \* \* \*

14 I certify that the foregoing is a correct transcript  
15 from the record of proceedings in the above-entitled matter.  
16 Any redaction of personal data identifiers pursuant to the  
17 Judicial Conference Policy on Privacy is noted within the  
18 transcript.

18 /s/ Megan A. Hague 5/9/2023

19 Megan A. Hague, RPR, FCRR, CSR Date  
20 Official U.S. Court Reporter

20 I N D E X

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