

EXHIBIT 59

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IN THE UNITED STATE DISTRICT COURT
FOR THE MIDDLE DISTRICT OF ALABAMA
NORTHERN DIVISION

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BRIANNA BOE, et al, :

Plaintiffs, :

UNITED STATES OF AMERICA, :

Intervenor Plaintiff :

-verus- : CIVIL ACTION NO.

: 2:22-CV-184-LCB

:

HON. STEVE MARSHALL, in his:

official capacity as :

Attorney General of the :

State of Alabama, et al, :

Defendants :

-----x

Deposition of DR. MEREDITHE McNAMARA, taken pursuant to Rule 30(b) of the Federal Rules of Civil Procedure, held at SANDERS, GALE & RUSSELL COURT REPORTING, 555 Long Wharf Drive, First Floor, New Haven, Connecticut, before Julia Flynn Cashman, RPR, CSR 250 and Notary Public in and for the State of Connecticut, on Thursday, April 4, 2024, at 9:00 a.m.(Eastern)

Page 2

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Page 4

1 DR. MEREDITH McNAMARA,
 2 15 York Street, New Haven, Connecticut 06511,
 3 having been first duly sworn by Julia Flynn
 4 Cashman, a Notary Public in and for the State of
 5 Connecticut, testified on her oath as follows:
 6 MR. BROOKS: I'd ask the reporter to
 7 mark as McNamara Exhibit 1, the Curriculum Vitae
 8 of Meredith McNamara.
 9 (DEFENDANT'S EXHIBIT 1 FOR
 10 IDENTIFICATION Received and Marked.)
 11 DIRECT EXAMINATION
 12 BY MR. BROOKS:
 13 Q. Dr. McNamara, good morning.
 14 A. Good morning.
 15 Q. My name is Roger Brooks. I represent the
 16 defendants in this action. The Curriculum Vitae
 17 that I have marked as Exhibit 1 was attached to
 18 your Expert Report.
 19 Let me just ask you to take a look at this
 20 and see whether you believe it to be -- it's dated
 21 January '23. Are there any important changes to
 22 your responsibilities or publications as listed on
 23 this Curriculum Vitae?
 24 A. I have submitted a newer CV with my Rebuttal
 25 Report. This one is a little over a year old.

Page 3

1 STIPULATIONS
 2
 3 IT IS HEREBY STIPULATED AND AGREED by and between
 4 counsel for the respective parties hereto that all
 5 technicalities as to proof of the official
 6 character before whom the deposition is to be
 7 taken are waived.
 8 IT IS FURTHER STIPULATED AND AGREED by and between
 9 counsel for the respective parties hereto that the
 10 reading and signing of the deposition by the
 11 deponent are waived.
 12 IT IS FURTHER STIPULATED AND AGREED by and between
 13 counsel for the respective parties hereto that all
 14 objections, except as to form, are reserved to the
 15 time of trial.
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Page 5

1 Q. And does that new one contain any important
 2 changes in your professional responsibilities?
 3 A. Not in my professional responsibilities.
 4 Q. Let me ask a few questions to kind of get a
 5 scope of the boundaries of your expertise.
 6 I see at the bottom of the page, it's marked
 7 28, that you have board certification in General
 8 Pediatrics and Adolescent Medicine. Do you have
 9 any other board certifications?
 10 A. No, sir.
 11 Q. Am I correct that you do not consider
 12 yourself a mental health professional?
 13 A. That's correct, I do not.
 14 Q. You're not a psychiatrist?
 15 A. No, sir.
 16 Q. You're not an expert in psychology?
 17 A. No, sir.
 18 Q. You have no expertise in adolescent
 19 development psychology?
 20 A. No, sir.
 21 Q. You're not an expert in cognition or the
 22 study of cognitive development?
 23 A. No, sir.
 24 Q. You're not a neurologist?
 25 A. No.

<p style="text-align: right;">Page 6</p> <p>1 Q. Do you consider yourself an expert in the 2 diagnosis and treatment of intersex conditions or 3 disorders of sexual development? 4 A. No, I do not. 5 Q. Your peers don't consult you on that topic? 6 A. No, they have not. 7 Q. Do you consider yourself an expert in 8 medical ethics beyond that which any medical 9 doctor needs to know? 10 A. No, I do not. 11 Q. Do you have any publications in the field of 12 medical ethics? 13 A. Not as of now. 14 Q. Have you submitted something that, in that 15 field, that you hope to get published? 16 A. Yes, I have. 17 Q. And tell me what that is. 18 A. I submitted a paper on the Ethics of Bans on 19 Gender Affirming Care. 20 Q. To what journal? 21 A. To a journal called the Journal of 22 Pediatrics, a medical ethics special edition. 23 It's under consideration. 24 Q. And have you ever taught a course in medical 25 ethics?</p>	<p style="text-align: right;">Page 8</p> <p>1 A. I was not. 2 Q. Now, you're not an endocrinologist either; 3 am I correct? 4 A. I am not an endocrinologist. 5 Q. You are not a member of the Endocrine 6 Society? 7 A. I'm not a member of the Endocrine Society. 8 Q. And had no participation in the development 9 of the 2009 Endocrine Society Guidelines For 10 Treatment of Gender Dysphoria, nor in the 2017 11 update of those guidelines; am I correct? 12 A. I haven't participated in either guideline 13 development process. 14 Q. And you don't know with regard to either 15 WPATH or the Endocrine Society, how the members of 16 the committees that did that drafting were 17 selected, do you? 18 A. I do not. 19 Q. Nor what their qualifications might have 20 been? 21 A. I don't know about that. 22 Q. Do you consider yourself an expert in 23 clinical experimental methodology? 24 A. I'm unsure of what you mean by "clinical 25 experimental methodology."</p>
<p style="text-align: right;">Page 7</p> <p>1 A. No, sir. 2 Q. Have you, yourself, ever participated in the 3 conduct of any clinical trial on any topic? 4 A. No, sir. 5 Q. Certainly nothing relating -- no clinical 6 trial related to gender dysphoria? 7 A. No. 8 Q. Are you a member of WPATH? 9 A. No. 10 Q. Have you ever attended any WPATH meetings? 11 A. Yes. 12 Q. Is there a reason that you're not a member 13 of WPATH? 14 A. Yes, their membership is expensive and I 15 have limited educational funds. 16 Q. Do you know whether you satisfy the 17 professional qualifications for membership? 18 A. I'm unaware of what those professional 19 qualifications may be. 20 Q. Have you had any role in the development of 21 either WPATH's standard of care or SOC 7 or SOC 8? 22 A. No, I have not. 23 Q. Were you invited to review or comment on any 24 draft materials of either of those standards of 25 care?</p>	<p style="text-align: right;">Page 9</p> <p>1 Q. Have you ever published any peer-reviewed 2 article relating to experimental methodology? 3 A. Again, I'm unsure of what you mean by 4 "experimental methodology." 5 Q. Do you consider yourself an expert in the 6 field of evidence-based medicine? 7 A. Yes, I do. 8 Q. Have you ever taught a course in 9 evidence-based medicine? 10 A. No, I have not. 11 Q. Have you ever taken a course in 12 evidence-based medicine? 13 A. Yes, I have taken several. 14 Q. And where did you take those courses? 15 A. I obtained a Master's in Clinical Research, 16 a MSCR degree, at Emory University in 2013. It 17 was two years of training in clinical research and 18 the courses included in that program were 19 biostatistics, epidemiology, study design, 20 research bioethics, statistical programming, grant 21 writing, among others. And I completed a mentored 22 senior thesis project, which I published in that 23 two-year span. 24 Q. Have you ever studied any texts on 25 evidence-based medicine authored in whole or in</p>

<p style="text-align: right;">Page 10</p> <p>1 part by Gordon Guyatt? 2 A. I have familiarized myself with Dr. Guyatt's 3 work. I have not read a book of his cover to 4 cover. I have read many of his peer-reviewed 5 articles. 6 Q. And were those articles that you read in the 7 course of the education that you've described just 8 now? 9 A. No, those articles and his body of work was 10 not covered in my evidence-based medicine 11 training. 12 Q. Do you have any understanding of Dr. 13 Guyatt's reputation in the field of evidence-based 14 medicine? 15 A. I'm loosely familiar with him as a founding 16 member of the grade working group. 17 Q. And what is the, quote, great working group? 18 A. It is a cohort of -- 19 Q. Pardon me, I may have misunderstood you. 20 Did you say "great" or "grade"? 21 A. I said "grade." 22 Q. G-R-A-D-E. 23 A. Correct. 24 Q. Pardon me. For the record, now let me ask 25 you the right question. What is the grade working</p>	<p style="text-align: right;">Page 12</p> <p>1 anything been added to that list since the 2 beginning of 2023? 3 A. Yes. 4 Q. And what is that? 5 A. It was an article published in Pediatrics 6 sometime in July, I believe, on my working groups 7 process for developing and disseminating reports 8 on scientific mis- and disinformation, and policy 9 discussions pertaining to bans on gender affirming 10 care. 11 Q. Now, was that paper a paper that reported on 12 original clinical research? 13 A. It was not clinical research. 14 Q. When I see the three items listed here, I 15 see a case -- a single case report. Am I correct 16 that a case report reports on a single patient, 17 rather than on a study across multiple patients? 18 A. Under the section entitled Peer-Reviewed 19 Original Research, I do not see a case report. 20 Q. I'm sorry. I was -- 21 A. There's a peer-reviewed case report at the 22 very bottom of this page. 23 Q. Yes. And that's -- sorry, I was focusing on 24 the "peer-reviewed." Am I correct that the case 25 report deals with a single patient?</p>
<p style="text-align: right;">Page 11</p> <p>1 group? 2 A. It is a cohort of statisticians and 3 clinicians with research experience who have 4 developed a methodology for assessing clinical 5 evidence and devising recommendations utilizing 6 guidelines of care. 7 Q. Have you, at any point in your professional 8 work, made a special study of suicide or 9 suicidality? 10 A. Could you be a little more specific with the 11 meaning -- with what you mean by "special study"? 12 Q. Is that an area that you have made a focus 13 of professional research? 14 A. Professional research is what you mean by 15 "special study"? 16 Q. Yes. 17 A. No, I have not. 18 Q. Let me ask you to turn to 32 in your CV. 19 And here, if I have missed something by 20 using the older version, you can tell me. I'm 21 looking at, on page 32 of Exhibit 1, the heading 22 that says "Peer-Reviewed Original Research." Do 23 you see that? 24 A. Yes, I do. 25 Q. And there are three items listed there. Has</p>	<p style="text-align: right;">Page 13</p> <p>1 A. Correct. 2 Q. And that is a paper that has nothing to do 3 with gender dysphoria issues or any issues 4 relating to identity; correct? 5 A. No. 6 Q. Not correct? 7 A. Let me be a little clearer. This paper is 8 about a genetic deletion in a patient who had 9 epilepsy and brain malformations. This patient 10 was a toddler and one that I cared for in 11 residency. And I coauthored this with some 12 colleagues and supervising attending in my 13 residency program. 14 Q. And, again, that case report and that case 15 had nothing do with gender identity, am I correct? 16 A. Correct, it had nothing do with gender 17 identity. 18 Q. Okay. And when I look at the heading that 19 says "Peer-Reviewed Original Research," the first 20 item there is a paper that you coauthored with 21 authors' last names Kempton and Antun, correct? 22 A. Yes, that's correct. 23 Q. And that, again, related to hemophilia and 24 had nothing to do with gender identity; am I 25 correct?</p>

Page 14	<p>1 A. That's correct.</p> <p>2 Q. You have no peer-reviewed publications</p> <p>3 reporting original research by you on any topic</p> <p>4 relating to gender identity; am I right?</p> <p>5 A. That is correct.</p> <p>6 Q. We may come back to this, but you can set it</p> <p>7 aside.</p> <p>8 MR. BROOKS: I'd like to mark as</p> <p>9 McNamara Exhibit 2, transcript of proceedings on</p> <p>10 August 10, 2023, in the Northern District of</p> <p>11 Georgia.</p> <p>12 (DEFENDANT'S EXHIBIT 2 FOR</p> <p>13 IDENTIFICATION, Received and Marked.)</p> <p>14 Q. And Dr. McNamara, let me ask you to turn in</p> <p>15 this transcript to page -- let me ask you first,</p> <p>16 am I correct that you testified in a hearing in</p> <p>17 Georgia in August of last year?</p> <p>18 MS. LEVI: You have to take a look</p> <p>19 through it.</p> <p>20 Q. What I believe I have provided here is the</p> <p>21 subset of the transcript of that day's hearing</p> <p>22 that includes all of your testimony. You will see</p> <p>23 yourself introduced on page 76 at line 14, --</p> <p>24 MS. LEVI: Take your time.</p> <p>25 Q. -- you're sworn in. And I will I -- I am</p>	Page 16	<p>1 A. I have prescribed puberty-blocking</p> <p>2 medications for people who do not have gender</p> <p>3 dysphoria for uses outside of that context.</p> <p>4 Q. And was that in the context of precocious</p> <p>5 puberty?</p> <p>6 A. No, that's not a condition I diagnose or</p> <p>7 manage.</p> <p>8 Q. For what conditions have you prescribed</p> <p>9 puberty blockers?</p> <p>10 A. For adolescent females with autoimmune</p> <p>11 conditions that require therapies that would be</p> <p>12 toxic to their ovaries, we will utilize</p> <p>13 puberty-blocking medications to stop cellular</p> <p>14 development temporarily in their ovaries and</p> <p>15 protect them while they receive those medications.</p> <p>16 That is something that I have done since this</p> <p>17 testimony.</p> <p>18 Q. Okay. It remains true that you yourself</p> <p>19 have not had, professionally, prescribed puberty</p> <p>20 blockers as a therapy for gender dysphoria?</p> <p>21 A. That's correct.</p> <p>22 Q. In the next line here, line 14 and</p> <p>23 continuing, you testified, "I take care of</p> <p>24 patients up to about age 25. My position at Yale</p> <p>25 is a little unique. I'm kind of their generalized</p>
Page 15	<p>1 not going to ask you whether the entire transcript</p> <p>2 is accurate. I'm going to ask you about a couple</p> <p>3 of specific portions.</p> <p>4 Let me ask you to turn to page 104.</p> <p>5 Let me ask you to turn to page 104.</p> <p>6 A. Yes, I'm working my way there.</p> <p>7 Q. Well, if need be, I'll ask you to just put</p> <p>8 the thing aside. I'm not going to take time for</p> <p>9 you to read the whole transcript.</p> <p>10 A. Okay. Let me get to that page. Okay.</p> <p>11 Q. At page 104, beginning at line 7, you</p> <p>12 testified -- and you can tell me if, in your</p> <p>13 recollection, anything about this transcript is</p> <p>14 not correct as I read it -- but you testified "I</p> <p>15 provide full spectrum care for adolescents and</p> <p>16 that includes youth who experience gender</p> <p>17 dysphoria."</p> <p>18 Then counsel asked you, "Do you prescribe</p> <p>19 hormone therapy, puberty blockers, or hormones?"</p> <p>20 And you responded, "I don't prescribe</p> <p>21 puberty blockers."</p> <p>22 Let me ask you now, a few months later, does</p> <p>23 it remain true that in your professional practice,</p> <p>24 you yourself are never responsible for prescribing</p> <p>25 puberty blockers?</p>	Page 17	<p>1 medicine person and we have a gender clinic." Do</p> <p>2 you see that testimony?</p> <p>3 A. Yes.</p> <p>4 Q. And am I correct that Yale has a gender</p> <p>5 clinic, but you are not a member of the staff of</p> <p>6 that gender clinic?</p> <p>7 A. That's correct.</p> <p>8 Q. And you don't hold and have never held an</p> <p>9 appointment as a member of any gender clinic; am I</p> <p>10 correct?</p> <p>11 A. That's correct.</p> <p>12 Q. The leading members of Yale's gender clinic</p> <p>13 include Drs. -- I may say these names</p> <p>14 incorrectly -- Boulware, Oleszki and Patel?</p> <p>15 A. Those are some of them, correct.</p> <p>16 Q. And do you consider them to be expert in the</p> <p>17 treatment of gender dysphoria?</p> <p>18 A. Yes, I do.</p> <p>19 Q. If a patient who you see as a pediatrician</p> <p>20 raises issues to you that suggest to you that they</p> <p>21 may suffer from gender dysphoria, do you yourself</p> <p>22 undertake to diagnose whether that patient does or</p> <p>23 does not suffer from gender dysphoria?</p> <p>24 A. Generally, no, if that patient is a minor, I</p> <p>25 do not.</p>

<p style="text-align: right;">Page 18</p> <p>1 Q. And in what context have you diagnosed 2 gender dysphoria in adults? 3 A. I have diagnosed gender dysphoria in adults 4 when they meet diagnostic criteria for gender 5 dysphoria according to the most recent edition of 6 the DSM. 7 Q. I'm just curious, given that your 8 appointment seems to relate to Pediatrics, in what 9 context do you find yourself treating or 10 diagnosing and dealing with adults who may suffer 11 from gender dysphoria? 12 A. So I'm an adolescent medicine physician and 13 I'm board certified and able to care of patients 14 up until the age of 25, with some flexibility 15 there. 16 Q. And am I correct that you have never been a 17 physician with primary responsibility for 18 prescribing treatment for gender dysphoria in a 19 minor? 20 A. That's correct. 21 Q. You testified in Georgia -- and I'll skip 22 down to the bottom on page 104, that "I only have 23 20 minutes per appointment and I see a lot of 24 other things. I see a lot of complex trauma, 25 sexual reproduction health needs, sports medicine</p>	<p style="text-align: right;">Page 20</p> <p>1 learn from her anything about her actual 2 practices? 3 A. I have had two conversations with Dr. 4 Ladinsky that were largely surface level and not 5 pertinent to her practice. 6 Q. So you yourself don't have any knowledge and 7 don't plan to offer any testimony as to what 8 extent the University of Alabama Gender Clinic and 9 Dr. Ladinsky have or have not followed WPATH 10 standards of care in the course of their treatment 11 of minors for gender dysphoria? 12 A. I cannot offer any testimony to that regard. 13 Q. You don't know anything about how long they 14 require a patient, a minor patient, to undergo 15 psychological evaluation before authorizing 16 puberty blockers or cross-sex hormones? 17 A. That's not something I'm aware of. 18 Q. Have you reviewed their Informed Consent 19 disclosures to form an opinion as to whether those 20 are adequate? 21 A. I have not seen those forms. 22 Q. Have you ever been asked to review the 23 Informed Consent disclosure forms of the Yale 24 Pediatric Gender Clinic to form a view as to 25 whether those were adequate disclosures?</p>
<p style="text-align: right;">Page 19</p> <p>1 issues, other menstrual concerns, dermatology. I 2 could go on and on, but it's just where my 3 institution needs me is to provide general 4 adolescent care." 5 Does that continue to accurately describe 6 your responsibilities today? 7 A. I have been able to expand some of my 8 appointment times to 40 minutes, which is nice and 9 allows me to go in further depth with some of my 10 patients about complex issues. But otherwise I 11 would say that that characterizes the type of 12 clinical care that I provide. 13 Q. You don't claim to be an expert in the 14 specifics of administration of either puberty 15 blockers or hormones, cross-sex hormones, to use 16 to treat endocrine disorders or gender dysphoria, 17 correct? 18 A. If you are describing minors, that is 19 correct. 20 Q. What steps, if any, have you taken to 21 familiarize yourself with the actual practices in 22 the gender clinic at the University of Alabama 23 Birmingham Gender Clinic? 24 A. I haven't taken any steps. 25 Q. Have you ever talked with Dr. Ladinsky to</p>	<p style="text-align: right;">Page 21</p> <p>1 A. I have not reviewed those forms. 2 Q. When was the Yale Pediatric Gender Clinic 3 founded? 4 A. I don't know. 5 Q. How many minors have you, in your practice, 6 ever referred to that clinic? 7 A. Just give me a moment while I search my 8 recollection. 9 Q. And I will say, approximately, roughly. 10 A. I believe two. 11 Q. And were both those minors who you referred 12 to the clinic in fact ultimately diagnosed with 13 gender dysphoria? 14 A. One has not yet been seen. That patient is 15 still awaiting their appointment, I believe. And 16 I am unfamiliar with the specific details of the 17 patient who was assessed off the top of my head. 18 Q. Would you tell me -- of course, not names -- 19 but ages and sexes of those two patients that you 20 referred and when you made those referrals? 21 A. One was -- 22 Q. And to be clear, I refer to natal sex 23 particularly. 24 A. I understand that. Thank you for the 25 clarification. I'm pausing just to gather my</p>

Page 22

1 recollection.
 2 Q. Mm-hmm.
 3 A. One was 14 at the time of referral, assigned
 4 female sex at birth, received an assessment at the
 5 age of 15. And one was 15 at the time of referral
 6 and assigned female sex at birth.
 7 Q. And that second one is the one who's waiting
 8 her first appointment?
 9 A. Yes.
 10 Q. The one natal female who you referred at age
 11 14 who received an assessment, I think you said at
 12 age 15 -- am I remembering that correctly?
 13 A. Yes.
 14 Q. Do you know what medical treatments, if any,
 15 have now been prescribed to her by the clinic?
 16 MS. LEVI: Object as to form.
 17 A. That patient has not received any
 18 prescriptions since the time of their assessment.
 19 Q. Do you know whether the Yale Pediatric
 20 Gender Clinic takes systematic steps to monitor
 21 the mental and physical health of patients who
 22 treat for gender dysphoria past the age of 18?
 23 MS. LEVI: Object as to form.
 24 A. I do know that they do.
 25 Q. And what steps do you know that they take to

Page 23

1 monitor the mental and physical health of those
 2 patients past the age of 18?
 3 A. They maintain continued relationships with
 4 their patients into adulthood. They transition
 5 their patients to other services on a highly
 6 individualized basis. And those patients meet
 7 with a multidisciplinary mental health team with
 8 whom they've been working for some time as
 9 adolescents.
 10 Q. Do you have any knowledge as to what
 11 percentage of patients who are referred by any
 12 physician to the Yale pediatric gender clinic are
 13 ultimately prescribed gender affirming or
 14 cross-sex hormones by that clinic while they're
 15 minors?
 16 MS. LEVI: Object as to form.
 17 A. I don't know.
 18 Q. And do you know what percentage of patients
 19 who are prescribed puberty blockers or hormonal
 20 medications as a treatment for gender dysphoria by
 21 the Yale Gender Clinic ultimately desist from
 22 pursuing a transgender identity and cease taking
 23 those medications?
 24 MS. LEVI: Object to form.
 25 A. I have no awareness of that.

Page 24

1 Q. And do you know whether any minors who have
 2 been treated by the Yale Pediatric Gender Clinic
 3 with puberty blockers or cross-sex hormones have
 4 later been able to achieve healthy levels of
 5 fertility and have a healthy child?
 6 MS. LEVI: Objection to form.
 7 A. That's not something that I would have
 8 access to as a physician, apart from their
 9 services.
 10 MR. BROOKS: Let me mark as McNamara
 11 Exhibit 3, a chapter from the DSM-V-TR manual
 12 headed "Gender Dysphoria."
 13 (DEFENDANT'S EXHIBIT 3 FOR
 14 IDENTIFICATION Received and Marked.)
 15 Q. And Dr. McNamara, I will represent to you
 16 that this is what I have described as the chapter
 17 from the DSM-V-TR edition. Is this a document
 18 that you are -- is this a chapter that you are
 19 familiar with?
 20 A. Yes, I have seen this before.
 21 Q. Let me ask you to turn to page 517 in
 22 Exhibit 3.
 23 A. My page numbers are cut off.
 24 Q. All right, it is a page -- I see that; I
 25 apologize. The text begins -- it's a ways in. At

Page 25

1 the very top of the page, begins in italics, "Late
 2 onset or pubertal/postpubertal onset gender
 3 dysphoria." Do you have that page?
 4 A. Yes.
 5 Q. I apologize for --
 6 MS. LEVI: Can you give me one minute?
 7 MR. BROOKS: Of course.
 8 MS. LEVI: Okay, thank you.
 9 I'm sorry, can you represent the actual
 10 page number, for the record?
 11 MR. BROOKS: Yes, I can. And while I
 12 won't mark my highlighted copy, I'll show you 517
 13 is the page number there.
 14 MS. LEVI: Okay, thank you.
 15 Q. The language that I read refers to "late
 16 onset or pubertal/postpubertal onset gender
 17 dysphoria." And it goes on to say that that can
 18 occur "even much later in life" than puberty.
 19 Is adult onset gender dysphoria a mental
 20 health condition that you are familiar with
 21 professionally?
 22 A. I'm not aware that there's a
 23 characterization with that specific terminology in
 24 the literature.
 25 Q. Well, let me flip it around. Are you

Page 26

1 familiar -- are you professionally familiar with
 2 the phenomena of gender dysphoria that first
 3 manifests itself after puberty?
 4 A. After puberty has completed?
 5 Q. Yes. I just read you language from the
 6 DSM-V that referred to gender dysphoria that may
 7 occur "even much later in life" than puberty. And
 8 my question is, has your professional work made
 9 you familiar with the phenomena described in DSM-V
 10 there?
 11 A. My professional work has not -- let me say
 12 that differently. I have not encountered a
 13 patient who has been -- an adult who did not have
 14 gender dysphoria, and then developed gender
 15 dysphoria in my care.
 16 Q. Okay. That has not been part of what you,
 17 yourself, have observed professionally?
 18 A. That's correct.
 19 Q. Do you have any opinion as to whether
 20 clinical observation of adults who, at least as
 21 far as reported, have developed gender dysphoria
 22 only after the completion of puberty, whether
 23 clinical observation of that population is
 24 relevant to medical decisions for the treatment of
 25 adolescents who experience gender dysphoria?

Page 27

1 MS. LEVI: Objection to form.
 2 A. I'm sorry, I don't understand your question.
 3 MR. BROOKS: Let me ask the reporter to
 4 read it back.
 5 (THE REPORTER READ THE RECORD)
 6 MS. LEVI: Same objection.
 7 A. I am sorry, her reading it back did not help
 8 me understand it better.
 9 Q. All right. I'll return to that with
 10 specific articles from this.
 11 At the end of the paragraph at the top of
 12 page 517 that I have directed you to is a sentence
 13 that reads "Parents of individuals with gender
 14 dysphoria of pubertal/postpubertal onset often
 15 report surprise, as they saw no signs of gender
 16 dysphoria during childhood."
 17 In the two cases that you have referred to
 18 the pediatric gender clinic, both of those, am I
 19 correct, were cases that first presented in young
 20 people who were well into adolescence; correct?
 21 A. At this time, I -- just give me a moment to
 22 try to remember.
 23 Q. Let me break it apart. The first you
 24 mentioned was a girl who was 14, correct?
 25 MS. LEVI: Objection to form.

Page 28

1 Q. And am I correct that at age 14, she was
 2 well into adolescence?
 3 A. I don't remember the exact age that that
 4 patient began puberty.
 5 Q. And as you picture her in your mind, you
 6 have no recollection as to whether she was well
 7 into the process of adolescence?
 8 MS. LEVI: Objection to form.
 9 A. Where I am pausing is that the patient and
 10 parent presenting to my care was sometime after
 11 the patient began expressing a gender diversity.
 12 And I do not know off the top of my head at this
 13 time today if that disclosure and beginning of
 14 expressing that identity occurred before or after
 15 pubertal onset.
 16 Q. In either of the two cases that you have
 17 referred on to the Yale Pediatric Gender Clinic,
 18 did the parents report surprise and tell you that
 19 they had not seen signs of gender dysphoria prior
 20 to puberty?
 21 A. I don't recall either -- parental figures
 22 for either adolescent reporting any measure of
 23 surprise in my clinical encounters with them.
 24 Q. And you referred to parental figures. In
 25 those two cases, were you interacting with

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1 biological parents of the child?
 2 MS. LEVI: And I just want to be clear,
 3 nothing that would disclose confidential
 4 information.
 5 MR. BROOKS: Of course.
 6 A. I use the term "parental figures" generally.
 7 Those were biological parents of both children.
 8 Q. Do you consider it as a matter of science,
 9 known or at present not known, whether an
 10 adolescent onset gender dysphoria population
 11 exists which in fact experienced no gender
 12 dysphoric symptoms prior to puberty?
 13 A. I am aware that there are adolescents who
 14 experience gender dysphoria at pubertal onset or
 15 after who did not report awareness of symptoms
 16 before puberty. I am also aware that there's a
 17 lot of heterogeneity in that.
 18 MR. BROOKS: Let me ask the reporter to
 19 mark as Exhibit 4, the Expert Report of Meredith
 20 McNamara.
 21 (DEFENDANT'S EXHIBIT 4 FOR
 22 IDENTIFICATION Received and Marked.)
 23 Q. And Dr. McNamara, does this indeed appear to
 24 be a copy of your original Expert Report?
 25 A. Yes, that's what this is.

<p style="text-align: right;">Page 30</p> <p>1 Q. Let me ask you to turn to page 11 in that 2 document. And there, there's a heading, 3 "Defendants' Experts' Statements About Suicide." 4 Do you see that? 5 A. Yes, I do. 6 Q. Part way into that paragraph, and then you 7 discuss in the beginning of that paragraph, a 8 study, a published paper, by authors, leading 9 with -- there's so many names that I don't know 10 how to pronounce -- Dhejne, D-H-E-J-N-E. 11 At the end of that, or late in that 12 discussion, you say, "The Dhejne study has no 13 applicability to adolescents." 14 Let me ask you to explain the basis of your 15 opinion that the findings of the Dhejne study 16 relating to suicide in adult years has no 17 applicability to adolescents. 18 A. Just give me a moment, I'll refresh my 19 memory by reading this paragraph. 20 Q. Of course. 21 A. This study evaluated a cohort of adults. 22 Q. And what is the basis for your conclusion 23 that the incidence in suicide among the cohort of 24 adults who had received cross-sex hormones had no 25 applicability to adolescents?</p>	<p style="text-align: right;">Page 32</p> <p>1 adults? 2 MS. LEVI: Objection to form. 3 Q. This is an easy question, but it's not a 4 trick question. 5 A. It's interesting sometimes when physicians 6 and lawyers communicate. Adolescents do grow up 7 to become adults, yes. 8 Q. Every single one who survives adolescence 9 becomes an adult. 10 A. Yes. 11 Q. You would agree with me, would you not, 12 therefore, that health outcomes among adults who 13 have received and are receiving cross-sex hormones 14 are something that you, as a physician, would want 15 to take into account when advising an adolescent 16 as to whether or not to start taking cross-sex 17 hormones? 18 MS. LEVI: Objection to form. 19 A. With this particular study -- 20 Q. I'm not asking you a question about this 21 study. 22 MR. BROOKS: Let me ask the reporter to 23 read back the question. 24 (THE REPORTER READ THE RECORD) 25 A. I would want to take into account any data</p>
<p style="text-align: right;">Page 31</p> <p>1 A. They are very different populations in 2 several regards. The study did not gather data on 3 adolescents specifically. It undertook no 4 comparative analysis. One would have to perform 5 several logical leaps in order to apply data in 6 adults of older ages to minors. 7 Q. What leads you to conclude that for purposes 8 of studying suicide and suicide attempts, that 9 adolescents are different in important ways from 10 adults? 11 A. Could you repeat that question. 12 MR. BROOKS: I'll ask the reporter to 13 read it back. 14 (THE REPORTER READ THE RECORD) 15 A. Adolescents have very different social 16 circumstances, different risks and experiences 17 with mental health issues. But more so, my 18 conclusion here is that a study that only reports 19 on adults can only report on adults. 20 Q. Is it also your opinion that adolescents 21 differ in important ways from prepubertal 22 children? 23 A. That is the case, yes. 24 Q. And it is also your opinion, is it not, that 25 barring catastrophe, all adolescents grow up to be</p>	<p style="text-align: right;">Page 33</p> <p>1 that -- or any research with methodology and 2 statistical design that was able to establish 3 causal links between intervention and an outcome. 4 And I regularly do so with some adult data in some 5 ways. 6 This particular study does not lend itself 7 to establishing a causative -- a causative -- 8 excuse me, a causal relationship between 9 gender-forming hormones and suicide, as the 10 authors state, and as I quote in my Declaration. 11 Q. Dr. McNamara, is it your testimony that 12 unless an outcome study is designed and structured 13 so that it can establish a causal relationship, 14 you, as a physician, do not wish to take into 15 account the reported outcomes in providing medical 16 advice? 17 A. That is not my testimony generally and 18 across the board. 19 Q. But it's your testimony with regard to adult 20 suicide statistics? 21 A. If I were to review evidence in a population 22 that differed significantly from my population, I 23 would probably have an extremely high standard for 24 understanding causal relationships before I were 25 to base clinical decisionmaking on that data.</p>

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1 Q. Have you yourself made any study of
 2 differences that may or may not exist between
 3 adolescent gender dysphoria patients and adult
 4 gender dysphoria patients when it comes to suicide
 5 and suicidality?
 6 A. I have seen studies that report on findings
 7 in both groups.
 8 Q. And have you yourself made any efforts to
 9 understand to what extent there are important
 10 differences or not important differences between
 11 adolescents who suffer from gender dysphoria and
 12 adults who suffer from gender dysphoria when it
 13 comes to the experience of suicidality or actual
 14 completed suicide?
 15 MS. LEVI: Objection to form.
 16 THE DEPONENT: Can I have the question
 17 back?
 18 (THE REPORTER READ THE RECORD)
 19 MS. LEVI: Same objection.
 20 A. I'm not sure that reading it back helps me
 21 understand the question better.
 22 Q. Do you know, as you sit here today, whether
 23 rates of suicidality are significantly different
 24 among adolescents who are receiving cross-sex
 25 hormones and adults who are receiving cross-sex

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1 hormones in both case as treatment for gender
 2 dysphoria?
 3 A. I'm -- off the top of my head, I cannot
 4 recall data that helps me make that comparison.
 5 MR. BROOKS: Let me ask the reporter to
 6 mark as Exhibit 5, an article entitled "Long Term
 7 Follow-Up of Transsexual Persons Undergoing Sex
 8 Reassignment Surgery: Cohort Study in Sweden,"
 9 authored by Cecilia Dhejne and others.
 10 (DEFENDANT'S EXHIBIT 5 FOR
 11 IDENTIFICATION Received and Marked.)
 12 Q. Dr. McNamara, at the top, you will see that
 13 many, perhaps most of the authors, are associated
 14 with the Karolinska Institute in Stockholm,
 15 Sweden. Are you familiar with the reputation of
 16 that institute when it comes to the diagnosis and
 17 treatment of gender dysphoria?
 18 A. I only know this institution by name.
 19 Q. You don't know to what extent scientists
 20 associated with that institution have been
 21 responsible for important research in the area of
 22 treatment of gender dysphoria?
 23 A. Not relative to anywhere else.
 24 Q. Well, let me ask about anywhere else. Has
 25 any particular institution or institutions that

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1 you consider to be responsible for foundational
 2 work in this field, that are most known as sources
 3 of research in the field?
 4 A. Many institutions have produced robust
 5 research. Many institutions have collaborated to
 6 produce robust research. At this point in time, I
 7 don't consider anyone to be superior or leading
 8 the field compared to others.
 9 Q. Is it consistent with your understanding
 10 that the Vrije University in Amsterdam is
 11 particularly noted for its foundational research
 12 in this field?
 13 A. It's my understanding that they produced
 14 some of the initial studies on medical treatments
 15 for gender dysphoria and youth.
 16 Q. Do you know whether their doctors continue
 17 to publish some of the most respected work in this
 18 field?
 19 A. I personally have not seen research from, to
 20 the best of my knowledge, from an individual with
 21 that institutional affiliation within the past six
 22 months or so.
 23 Q. Let me ask you to look at Exhibit 5. And is
 24 this a paper that you have studied with some care
 25 in connection with preparing your Expert Report

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1 for this litigation?
 2 A. Yes, we just reviewed a paragraph that I
 3 read about it.
 4 Q. And looking in the abstract, there's a
 5 heading that says "Participants." And it refers
 6 there to, and states there, that all 324 sex
 7 reassigned persons in Sweden across a span of 30
 8 years were included in the study; correct?
 9 A. That's what it says.
 10 Q. And by including all subjects who received
 11 sex reassignment surgery across those years, this
 12 study design avoids possible methodological
 13 problems that might be related to cherry-picking
 14 an unrepresentative sample, correct?
 15 MS. LEVI: Object to form.
 16 A. I would not be able to say that.
 17 Q. And why is that?
 18 A. Let me review the methodology.
 19 Q. Let me ask you a question separate from this
 20 paper, then, to save time.
 21 Do you have a view as to whether a study
 22 that includes all patients who have undergone a
 23 certain procedure within a clinic avoids potential
 24 methodological risks associated with
 25 cherry-picking an unrepresentative sample that may

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1 afflict a study that is based on only a subset of
 2 patients treated for a particular condition?
 3 A. I don't agree with that categorically. It
 4 would be highly dependent on several factors, such
 5 as the time period during which that study was
 6 conducted, the methods that the study used, the
 7 diagnostic criteria that the investigators used to
 8 identify patients of interest, and the way that
 9 outcomes were measured.
 10 Q. In the Dhejne study, it tells us on page 2,
 11 at the top of the second column, that mental
 12 health issues were measured by reference to -- not
 13 based on self reports, but by reference to
 14 national health records. Is that consistent with
 15 your understanding?
 16 A. The National Health System captured
 17 diagnostic codes in accordance with international
 18 classification of disease codes from 1969 to 1986,
 19 and then 1987 to 1996; and then 1997 to the
 20 study's time of publication, which I believe
 21 was --
 22 Q. 2011, if you look at the bottom of the page.
 23 A. So then it would have been the time at which
 24 the data capturing period concluded, which was
 25 2003.

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1 Q. And my question was, are you aware that in
 2 the Dhejne study to measure mental health, they
 3 referenced national registry records, rather than
 4 self reports by patients. Is that consistent with
 5 your understanding of the study?
 6 A. Can I have the question back one more time.
 7 Q. I'll just say it, I'll ask again.
 8 Is it consistent with your understanding of
 9 the Dhejne study that the authors measured mental
 10 health of the subjects by reference to diagnostic
 11 records from national registers, rather than self
 12 reports from the study subjects?
 13 A. They used international classification of
 14 disease categorizations that are very different
 15 now than they were at the time regarding diagnoses
 16 pertinent to gender dysphoria.
 17 Q. That has nothing to do with the question I
 18 asked.
 19 MR. BROOKS: Let me ask the reporter to
 20 read it back.
 21 (THE REPORTER READ THE RECORD)
 22 A. What I said is true and important for
 23 contextualizing this study. And what I'm also
 24 pausing on is how you're characterizing mental
 25 health versus how the investigators are

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1 characterizing their outcomes.
 2 Q. Let me ask a simpler question.
 3 Dr. McNamara, do you know or not know
 4 whether in this Dhejne, et al study from 2011, the
 5 authors relied on self reports from patients; or,
 6 on the contrary, whether they relied only on
 7 medical and mental health records?
 8 A. The authors themselves did not engage with
 9 the patients and ask them specific questions. But
 10 some of the measures that were captured in the
 11 medical records were gathered on the basis of
 12 physicians talking to their patients.
 13 Q. Do you have any knowledge from your study of
 14 the Dhejne, et al paper as to how many of the
 15 subjects of that study had experienced childhood
 16 onset gender dysphoria?
 17 A. I would need to review the paper in depth to
 18 see if there's any mention of that. Off the top
 19 of my head, I'm not sure.
 20 Q. That's not something you recall. Okay,
 21 we'll leave it there. Let me ask you to --
 22 MS. LEVI: Do you need a break?
 23 THE DEPONENT: We could take a break.
 24 Are you done with this study?
 25 MR. BROOKS: I am done with that study.

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1 MS. LEVI: Going close to an hour, I
 2 think.
 3 MR. BROOKS: That's fine. We can spend
 4 our seven hours however you like.
 5 MS. LEVI: I understand.
 6 THE DEPONENT: We won't shortchange you.
 7 (R E C E S S)
 8 BY MR. BROOKS:
 9 Q. Let me ask you to find, again, Exhibit 4,
 10 your Expert Report. And if you would find page 23
 11 in that report. At the very bottom, there's a
 12 heading, text that carries over, that says
 13 "Research shows gender identity has a strong
 14 innate biological basis." Do you see that?
 15 A. Yes.
 16 Q. When I turn over to the text underneath that
 17 heading, is there anywhere in that, the two
 18 paragraphs under that heading, in which you
 19 identify any research that you believe shows a
 20 strong innate biological basis for gender
 21 identity?
 22 A. I believe I cited various articles that
 23 contained discussions of research supporting
 24 biological basis of gender identity. And I would
 25 need to source citation 63, 65, Bauer, et al, and

<p style="text-align: right;">Page 42</p> <p>1 some others in order to point to you where. 2 Q. Is there any sentence in those two 3 paragraphs that you would point me to that 4 addresses the question of biological basis for 5 gender identity? 6 A. Again, I would have to point to the 7 citations. This report is heavily cited. 8 Q. My question is this: Did you write a single 9 sentence of text in support of the proposition 10 that gender identity has a biological basis? 11 A. No, not in this section. 12 MR. BROOKS: Let me ask the reporter to 13 mark as Exhibit 6, Endocrine Society Guidelines 14 from 2017. 15 (DEFENDANT'S EXHIBIT 6 FOR 16 IDENTIFICATION Received and Marked.) 17 Q. And Dr. McNamara, you cite these guidelines 18 in your report, do you not? 19 A. I do. 20 Q. And do you consider yourself to be well 21 familiar with them? 22 A. I have reviewed them a few times. 23 Q. Do you have occasion to consult them in the 24 ordinary course of your professional practice? 25 A. Generally not. In clinical practice, I</p>	<p style="text-align: right;">Page 44</p> <p>1 Q. And up to the present, so far as you know, 2 there's nothing in the literature that has 3 identified any hormonal marker that would enable a 4 doctor to take a blood sample from a child and 5 determine or predict whether that child would 6 develop a transgender identity, correct? 7 A. I am not aware that there's any hormonal 8 marker that would predict gender identity. 9 Q. And when you have seen a teen who may be 10 suffering from gender dysphoria, you're not aware 11 of any genetic test or hormone test that could 12 tell you whether an adolescent presenting in a 13 clinic actually has a transgender identity? 14 A. No, I'm not aware of any tests like that. 15 Q. Outside of genes and hormones, what, in your 16 professional opinion, is a strong biological basis 17 for gender identity? 18 A. I'm familiar with studies that I have not 19 cited in my Declaration, but that I have reviewed, 20 that show differential brain structures between 21 cisgender people and transgender people with the 22 same sex assignment at birth. And I also know, 23 based on other studies, that gender identity is 24 highly resistant to change when subject to efforts 25 to try to change it.</p>
<p style="text-align: right;">Page 43</p> <p>1 have. 2 Q. They're not relevant to your practice to any 3 extent? 4 A. I have practiced in accordance with some of 5 the guidelines when it comes to referrals and 6 how -- but otherwise, no. 7 Q. Let me ask you to turn to page 3876. In the 8 first column, I'm going to direct your attention 9 to the first paragraph. 10 Let me ask you to read -- well, let me just 11 read into the record the first sentence. 12 "With current knowledge, we cannot predict 13 the psychosexual outcome for any specific child." 14 Let me ask you this: Are you aware -- and 15 these guidelines, just to be clear, are from 2017. 16 Are you aware of any of the literature up to the 17 present that has identified any measurable genetic 18 basis that permits doctors to, for instance, take 19 a blood sample from a newborn and predict whether 20 that child will develop a transgender identity? 21 A. Not familiar with that. 22 Q. You're not aware that any such genetic 23 marker has been identified? 24 A. I'm not aware that any such genetic marker 25 has been identified.</p>	<p style="text-align: right;">Page 45</p> <p>1 Q. You have written, however, have you not, 2 that an adolescent's self experience gender 3 identity does sometimes change. 4 A. I have -- are you referring to my 5 Declaration? 6 Q. I'm not referring to your declaration. 7 A. Okay. Well, that is what some muse 8 experience what gender dysphoria is. They may 9 have grown up socialized and considered themselves 10 in a conscious level as a gender that aligns with 11 their sex assigned at birth, and then their 12 conscious experience changed. 13 Q. Am I correct that it is your professional 14 opinion that there is no definitive basis for 15 determining an individual's gender identity other 16 than their self perception? 17 MS. LEVI: Object as to form. 18 A. The diagnostic criteria are not a binary 19 question of yes or no. They require six different 20 areas, some of which must be satisfied for a 21 minimum period of six months, to determine whether 22 or not somebody has gender dysphoria. I would not 23 consider that to be self report. I would consider 24 that to be a diagnosis made after a clinical 25 assessment.</p>

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1 Q. Is it your testimony and/or belief that an
 2 individual cannot have a transgender gender
 3 identity unless they satisfy diagnostic criteria
 4 for gender dysphoria?
 5 A. No, not necessarily. Those things are not
 6 mutually exclusive.
 7 Q. So let me ask you again. In your opinion,
 8 is there any basis for definitively determining an
 9 individual's gender identity, other than that
 10 individual's self perception?
 11 A. Self perception is a way to understand a
 12 person's gender identity, as it is a way to
 13 determine many different experiences one might
 14 have with various health or disease issues.
 15 Migraines, for instance, we can only use self
 16 report. I only say that so that I can
 17 contextualize what I'm saying so that it's clear
 18 that that's not exceptional or unique to gender
 19 identity.
 20 Q. It's not your view, is it, that every child
 21 who suffers from gender dysphoria necessarily has
 22 a stable transgender identity?
 23 MS. LEVI: Object as to form.
 24 A. I would not be able to opine on that because
 25 it's an absolute comment -- excuse me, it's an

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1 absolutist comment about every child. So I
 2 don't -- I don't have an opinion on your specific
 3 question.
 4 Q. Well, do you consider the question of
 5 whether every child who satisfies the diagnostic
 6 criteria for gender dysphoria must necessarily
 7 have a transgender -- a stable, true transgender
 8 identity to be beyond your professional expertise?
 9 MS. LEVI: Object as to form.
 10 A. I don't perform those assessments myself, so
 11 I don't have clinical experience in the area that
 12 you're asking me about.
 13 Q. Do you consider it to be beyond your
 14 professional expertise?
 15 A. Say what you're considering to be beyond
 16 my --
 17 Q. I will.
 18 A. Please repeat your question.
 19 Q. The question is -- let me start, is the
 20 question of whether every child who satisfies
 21 diagnostic criteria for gender dysphoria has an
 22 innate transgender identity, one that is beyond
 23 your professional expertise?
 24 MS. LEVI: Object as to form.
 25 A. It's not something that I can opine on

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1 today.
 2 Q. And is that because it's outside of your
 3 professional expertise?
 4 A. It's because I can't opine on it today.
 5 Q. Well, let me ask it differently.
 6 Do you consider that question to be one
 7 that's within your professional expertise, but you
 8 just don't know the answer to it?
 9 A. What I said before is that I don't perform
 10 psychological assessments on prepubescent children
 11 with gender dysphoria. That is outside of my
 12 professional expertise.
 13 MR. BROOKS: Let me ask the reporter to
 14 mark as McNamara Exhibit 7, a Scientific Statement
 15 from the Endocrine Society dated 2021, titled
 16 "Considering Sex As a Biological Variable."
 17 (DEFENDANT'S EXHIBIT 7 FOR
 18 IDENTIFICATION Received and Marked.)
 19 Q. Dr. McNamara, is this a document that you're
 20 familiar with?
 21 A. I don't believe so.
 22 Q. You have referred to the 2017 Endocrine
 23 Society Guidelines that we looked at earlier in
 24 your Expert Report, correct?
 25 A. That's correct.

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1 Q. And do you consider the Endocrine Society to
 2 be a respected and reliable scientific voice?
 3 A. I do.
 4 Q. You have never reviewed this document so far
 5 as you recall?
 6 A. I don't believe so, no.
 7 Q. The document is entitled a Scientific
 8 Statement from the Endocrine Society published in
 9 Endocrine Reviews in 2021. So it's about four
 10 years more recent than the guidelines that you
 11 cited. Do you see that is in the date at the top,
 12 as it happens.
 13 A. I do see that, yes.
 14 Q. And, as such documents tend to be, has a
 15 long list of authors that I will not attempt to
 16 read into the record. But the first is Bhargava,
 17 B-H-A-R-G-A-V-A.
 18 Let me ask you to turn in this document, I'm
 19 just going to ask you about a few factual
 20 assertions in the document to see whether they
 21 match your scientific understanding.
 22 Page 221, column one, there's a heading that
 23 says "Biological Sex: The definition of Male and
 24 Female."
 25 A. I'm with you.

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1 Q. It says in the third line of text under that
 2 heading, "All mammals have two distinct sexes."
 3 You've been in medical school. You've had
 4 high school biology. Is it consistent with your
 5 scientific understanding that all mammals have two
 6 distinct sexes?
 7 A. I am more familiar with sex as a
 8 multidimensional variable that takes into account
 9 endogenous hormone production, genitalia,
 10 genetics, and other features.
 11 Q. So if the Endocrine Society, in their
 12 Scientific Statement published in 2021, asserts
 13 that "All mammals have two distinct sexes," you
 14 simply disagree?
 15 A. No, not necessarily. The rest of this
 16 document goes into detail, many other things that
 17 I have just laid out very briefly. There are also
 18 other places where sex is discussed.
 19 Q. Well, let me take you to another one of
 20 those, just a little bit farther down, maybe eight
 21 lines down, the same section. I'll read the
 22 following text:
 23 "The classical biological definition of the
 24 two sexes is that females have ovaries and make
 25 larger female gametes (eggs), whereas males have

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1 testes and make smaller male gametes (sperm)."
 2 Obviously, that expression here in the context of
 3 mammals.
 4 Is that definition of the classical
 5 biological definition of the two sexes one that --
 6 let me start that question again.
 7 Do you agree or disagree that what the
 8 Endocrine Society authors have recited here is
 9 indeed a classical biological definition of the
 10 two sexes?
 11 MS. LEVI: Object as to form.
 12 A. The word "classical" seems quite subjective
 13 here. I'm not sure how the authors are using it.
 14 I might need a little bit more context on the
 15 intention in using that word before I could offer
 16 an opinion either way.
 17 Q. Based on your own medical knowledge and
 18 education, do you agree or disagree that, among
 19 mammals, a widely used biological definition of
 20 the two sexes is that females have ovaries and
 21 make larger female gametes, generally referred to
 22 as eggs, whereas males have testes and make
 23 smaller male gametes, referred to as sperm?
 24 A. In medical school, I didn't learn about
 25 mammalian biology as a general concept. I learned

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1 about human biology. And I learned about
 2 variations in sex based on several nuanced
 3 biological factors.
 4 Q. Let me take you down, there's a paragraph
 5 that begins, "In mammals, numerous sexual traits."
 6 Do you see that?
 7 A. Yes.
 8 Q. And the second sentence in that paragraph
 9 begins "The type of gonads is controlled by the
 10 presence of XX or XY chromosomes." Do you see
 11 that language?
 12 A. Yes.
 13 Q. And do you agreed or disagree with that
 14 assertion by the Endocrine Society authors?
 15 A. That's correct.
 16 Q. Let me ask you to turn to 225. And there, I
 17 call your attention -- let's see here. Give me a
 18 moment to find it.
 19 Midway down the column, 225, is a sentence
 20 that begins, "Similar masculinizing effects." Do
 21 you see that?
 22 A. No, are you in the --
 23 Q. 225, column two.
 24 MS. LEVI: It's right here.
 25 Q. I may not have said column two. And right

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1 after that is sentence that I will read into the
 2 record.
 3 "Second, all aspects of neural development
 4 are capable of being organized or programmed by
 5 sex steroids. This includes cell generation(as
 6 read), migration, myelination, dendritic and
 7 axonal growth and branching, synapse formation,
 8 synapse elimination, and neurochemical
 9 differentiation."
 10 MS. LEVI: Just, I think you said
 11 "generation," and it's "genesis."
 12 MR. BROOKS: I'm sure you're right.
 13 MS. LEVI: Okay.
 14 MR. BROOKS: You try reading that.
 15 MS. LEVI: Fair enough. Just would like
 16 the record to be accurate.
 17 MR. BROOKS: Thank you.
 18 Q. Let me ask whether you agree or disagree or
 19 consider it outside your professional expertise
 20 whether all these listed aspects of neural
 21 development are capable of being organized or
 22 programmed by sex steroids?
 23 A. So just getting some context with this
 24 paragraph here, it does seem like they might be
 25 referring to a differentiation between primates

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1 and rodents.
 2 "To discern whether the biological basis of
 3 sexual differentiation of sexual differentiation
 4 of brain and behavior differs between primates and
 5 rodents, one needs to identify mechanisms by which
 6 steroids transduce signals to modify the
 7 trajectory of the nervous system. While those
 8 mechanisms are incompletely understood, a few
 9 general principles are clear. First" -- and this
 10 is one concept. I'll skip to what you just read.
 11 "Second, all aspects of neural development
 12 are capable of being organized or programmed by
 13 sex steroids."
 14 Q. My question for you about the second
 15 sentence you just read is do you believe that to
 16 be true, false, or outside your personal
 17 expertise?
 18 A. And my response is this sentence seems to
 19 pertain to primates and rodents, and that does
 20 definitely fall outside of my expertise.
 21 Q. And if I ask the same question about human
 22 development, that is, is it true in the case of
 23 human development, brain development, that all
 24 aspects of neural development are capable of being
 25 organized or programmed by se steroids, do you

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1 consider that also to be outside your expertise?
 2 A. That seems like it would fall much more
 3 under the expertise of a neuroscientist. And
 4 that, I am not.
 5 Q. Okay, all right.
 6 MR. BROOKS: Let me ask the reporter to
 7 mark as Exhibit 8, an article entitled "Protecting
 8 Transgender Health and Challenging Science
 9 Denialism and Policy" by Dr. McNamara and two
 10 other authors.
 11 (DEFENDANT'S EXHIBIT 8 FOR
 12 IDENTIFICATION Received and Marked.)
 13 Q. And Dr. McNamara, is this in fact an article
 14 that you coauthored sometime in 2022?
 15 A. Yes, it is.
 16 Q. And am I correct that the authors -- you're
 17 obviously a doctor. Anne Alstott is a law
 18 professor; am I correct?
 19 A. Yes.
 20 Q. And Christina Lepore was a law student?
 21 A. No, Ms. Lapore is a soon to be graduating
 22 medical student.
 23 Q. A medical student. And obviously, two years
 24 earlier from graduating when this was written. Is
 25 it the case that the medical and scientific

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1 assertions in this article are based on your
 2 knowledge?
 3 A. Based on the combined knowledge of all
 4 authors.
 5 Q. Well, were you resting scientific assertions
 6 on the knowledge of a lawyer?
 7 A. Certainly not.
 8 Q. Oh, good. So the science, you would say, is
 9 the combined input of you and Christina Lepore, a
 10 medical student?
 11 A. Mm-hmm.
 12 Q. Okay. Let me ask you to turn -- and did you
 13 edit this carefully? Before it went out the door,
 14 did you consider every sentence in this to
 15 represent your professional opinion?
 16 A. Absolutely.
 17 Q. Let me ask you to turn to the first page.
 18 And there, you refer, towards the bottom of the
 19 first column, to a false -- "false claims about
 20 risks associated with treatment." Do you see
 21 that?
 22 It's an inch from the bottom of the first
 23 column.
 24 A. Yes.
 25 Q. Is it your testimony that any scientist or

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1 medical policy maker who expresses -- who asserts
 2 that there are potentially serious risks relating
 3 to administering puberty blockers or cross-sex
 4 hormones to minors, is making false claims?
 5 A. In preparation for writing this piece in the
 6 New England Journal, I did a thorough inventory of
 7 claims regarding risks of treatment and how
 8 emphatic or emphasized they were. And I
 9 identified several claims that were incorrect or
 10 overly emphasized at the expense of discussing the
 11 benefits of care.
 12 It is not my opinion that everybody who
 13 discusses risk is denying scientific fact. That
 14 would not be a fair characterization of what this
 15 sentence means here.
 16 Q. And that's exactly the clarification I am
 17 asking for. That is, it is not your opinion that
 18 every doctor or medical authority who expresses
 19 concern that there may be serious risks associated
 20 with administering puberty blockers or cross-sex
 21 hormones to minors is making false claims?
 22 MS. LEVI: Object as to form.
 23 A. We would need to review specific claims in
 24 detail so that I could offer my opinion, my expert
 25 opinion on whether or not I felt that those claims

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1 were false or overemphasized.
 2 Q. And if you look at the third column, also
 3 about an inch from the bottom, there's a sentence,
 4 maybe an inch and a half, that reads "State laws
 5 banning gener-affirming care make similarly
 6 unsupported claims about risks of cardiovascular
 7 disease, thromboembolic events, and cancer
 8 associated with administration of exogenous
 9 estrogen and testosterone."
 10 To clarify, it is not your expert opinion,
 11 is it, that any medical authority or doctor who
 12 asserts that there are serious risks associated
 13 with administering puberty blockers or cross-sex
 14 hormones to minors is necessarily making
 15 unsupported claims?
 16 MS. LEVI: Object as to form.
 17 A. Your use of the word "serious" is subjective
 18 and I'm unsure of its meaning. But it is entirely
 19 possible and common, and what I'm referring to
 20 here, that risks have been overrepresented,
 21 incorrectly characterized and overemphasized.
 22 Q. Let me ask you to turn to the second page of
 23 your article. And in the third column, the final
 24 paragraph begins "Bans on gender-affirming care
 25 are grounded in science denialism." Do you see

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1 that?
 2 A. I do.
 3 Q. Is it your expert opinion that anyone who
 4 asserts that hormonal interventions in minors
 5 imposed serious risks of harm that have not yet
 6 been adequately studied is guilty of science
 7 denialism?
 8 A. I would need to review specific statements
 9 and comments in order to opine as to whether or
 10 not that is the case. And in this article, I cite
 11 numerous instances of that.
 12 Q. A little bit above this, in the previous --
 13 the preceding paragraph in column three of page
 14 1920 in Exhibit 8, you refer to reports that are
 15 "composed by subject matter experts without
 16 conflicts of interest." Do you see that?
 17 A. Yes.
 18 Q. And what is your understanding of what
 19 constitutes a conflict of interest?
 20 A. A conflict of interest entails some sort of
 21 compensation for the work. Usually it's financial
 22 or something that could be construed as having
 23 some sort of financial value.
 24 Q. In your opinion, does a clinician who
 25 derives a significant percentage of his or her

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1 practice from treatment of minors for potential
 2 gender dysphoria, face a conflict of interest in
 3 opining on the risks or benefits of such
 4 treatments?
 5 A. No. Physicians discuss risks and benefits of
 6 treatment as part of their commitment to patient
 7 care. It's far removed from the concept of
 8 conflicts of interest.
 9 Q. Well, I thought you just told me that a
 10 financial conflict of interest would exist where
 11 an individual had a financial interest in the
 12 performance or nonperformance of the treatment at
 13 issue.
 14 MS. LEVI: Object as to form.
 15 A. Conflicts of interest in the medical world
 16 pertain to specific services outside of your
 17 clinical care; things that don't necessarily
 18 pertain to clinical care.
 19 If a researcher or physician had received
 20 compensation for writing something or endorsing a
 21 product, that would be a conflict of interest and
 22 that would need to be disclosed. But the
 23 provision of patient care, which does receive
 24 financial remuneration, is not considered to be a
 25 conflict of interest in my profession.

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1 Q. So in your view, a physician who derives his
 2 larger share of his or her personal income from
 3 providing hormonal treatment of minors for gender
 4 dysphoria, does not face the financial conflict of
 5 interest in commenting on a law that prohibits
 6 such treatments?
 7 A. Say that one more time, please, if you don't
 8 mind.
 9 MR. BROOKS: I'll ask the reporter to
 10 read that.
 11 (THE REPORTER READ THE RECORD)
 12 A. I don't think so, no.
 13 Q. And in your view, does a clinician who would
 14 face large malpractice liability if juries
 15 ultimately conclude that hormonal intervention in
 16 minors were harmful and unjustified, face a
 17 financial conflict of interest in commenting on a
 18 law that prohibits such therapies?
 19 MS. LEVI: Object as to form.
 20 A. I feel like that's outside my scope of
 21 expertise. I have very little knowledge of
 22 medical malpractice.
 23 Q. My question wasn't about medical practice,
 24 it was about conflict of interest.
 25 A. You referenced medical malpractice.

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1 Q. You're aware of the concept of doctors being
 2 held financially responsible for harming patients?
 3 A. My understanding of medical malpractice is
 4 that physicians can obtain insurance and their
 5 covering institutions protect them from being
 6 financially vulnerable to such cases. That's
 7 where my knowledge ends. And I am unsure how to
 8 answer your question without knowing more.
 9 Q. All right. Do you have any understanding of
 10 the conflict -- of the concept of intellectual
 11 conflict of interest?
 12 A. No.
 13 Q. All right. Let me ask you to find your
 14 Expert Report, Exhibit 4, and turn with me to page
 15 6. And just under the heading C, you begin, the
 16 first paragraph there, with the statement
 17 "Adolescents undergo a critical period of
 18 cognitive and social development between the ages
 19 of 11 to 18." Do you see that?
 20 A. I do.
 21 Q. And you would agree with me, would you not,
 22 that both those endpoints are -- let's just say
 23 soft numbers. That is, there's -- for example,
 24 there's evidence that cognitive development
 25 continues after the age of 18.

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1 A. Correct.
 2 Q. Okay. Can you explain to me what you meant
 3 when you wrote that adults undergo a critical
 4 period of cognitive development within that
 5 general age range?
 6 A. You said "adults." I believe you meant to
 7 say "adolescents."
 8 Q. Let me ask it again. Explain to me what you
 9 meant when you wrote that "Adolescents undergo a
 10 critical period of cognitive...development between
 11 the ages of 11 to 18."
 12 A. I said "Adolescents undergo a critical
 13 period of cognitive and social development between
 14 the ages of 11 to 18."
 15 And by that, I mean that that time period of
 16 a young person's life, which does not exclude the
 17 possibility of similar changes before or after,
 18 undergo a great deal of change and development in
 19 those domains. They begin to experience formative
 20 social relationships outside of their families and
 21 their immediate home environments. They begin to
 22 develop romantic relationships. They develop
 23 skills and talents as connections between the
 24 midbrain and the prefrontal cortex are being
 25 formed. And that can help those young people

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1 retain those skills and talents in adulthood.
 2 Q. Let me focus, if I may, on the cognitive
 3 development. You've testified that you're not a
 4 developmental psychologist or a neurologist, all
 5 these things. But what did you -- what were you
 6 referring to specifically when you wrote that
 7 adolescents in that time period undergo critical
 8 stages of cognitive development?
 9 A. So as an Adolescent Medicine specialist,
 10 adolescent cognitive development regarding
 11 risk/benefit analysis, health decisionmaking,
 12 educational function, all of that being pertinent
 13 to cognition and cognition change, is becoming
 14 more adult-like during those years. Adolescents
 15 are undergoing changes that are highly
 16 individually dependent.
 17 Q. Are you familiar with the term "executive
 18 function"?
 19 A. Yes.
 20 Q. And what does that refer to in the area of
 21 cognitive development?
 22 A. "Executive," meaning to execute or to make
 23 decisions in various scenarios.
 24 Q. You're asking me?
 25 A. That's not a question. Sorry. Would you

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1 like me to rephrase what I just said?
 2 Q. Please.
 3 A. So executive function refers to the ability
 4 to execute or make decisions in various scenarios.
 5 Q. And is that a capability that is known to
 6 develop in important ways across the adolescent
 7 years that you've bracketed here?
 8 A. It's certainly known to change. It's
 9 present in many ways, but it is known to change
 10 during this time.
 11 Q. Well, let me take you out of the clinic for
 12 a moment. Have you, yourself, raised a child
 13 through adolescence?
 14 A. I would prefer not to answer any personal
 15 questions about my life in this deposition.
 16 Q. I'm sorry, but I'm asking the question.
 17 A. And when you say "raised," do you mean as a
 18 parent?
 19 Q. I do.
 20 A. I have not raised an adolescent.
 21 Q. But you have seen many adolescents in your
 22 practice.
 23 A. Yes, I have.
 24 MR. BROOKS: Let me mark as Exhibit 9 an
 25 article with the lead author Diane Chen from 2023

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1 entitled "Psychosocial Functioning and Transgender
 2 Youth after Two Years of Hormones."
 3 (DEFENDANT'S EXHIBIT 9 FOR
 4 IDENTIFICATION Received and Marked.)
 5 MS. LEVI: You okay to keep going?
 6 THE DEPONENT: Yes, we can go through
 7 this one.
 8 Q. And Dr. McNamara, is this an article that
 9 you refer to in your Expert Report?
 10 A. Yes, it is.
 11 Q. Are you familiar with the reputation of
 12 Diane Chen?
 13 A. Yes, I am.
 14 Q. And what is that reputation, in your view,
 15 in the field of gender medicine?
 16 A. Dr. Chen is a well-regarded psychologist who
 17 has contributed a great deal of clinical research
 18 to this field.
 19 MR. BROOKS: Let me ask the reporter to
 20 mark as Exhibit 10, another article with Diane
 21 Chen as the lead author entitled "Consensus
 22 Parameter: Research Methodologies to Evaluate
 23 Neurodevelopmental Effects of Pubertal Suppression
 24 in Transgender Youth" from 2020.
 25 (DEFENDANT'S EXHIBIT 10 FOR

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1 IDENTIFICATION Received and Marked.)
 2 Q. And let me ask whether this is a paper that
 3 you are familiar with.
 4 A. I have skimmed this before. I don't believe
 5 it's one that I have cited --
 6 Q. I think that's the case.
 7 A. -- in any of my Declarations.
 8 Q. But you have read it yourself?
 9 A. Yes, as I mentioned, I skimmed it.
 10 Q. And without asking you to read all of them,
 11 going through the list of affiliations of the
 12 coauthors which appear on the first page, you
 13 would agree with me, would you not, that this
 14 paper is could authored by a lineup of authors
 15 from quite a number of high reputation research
 16 institutions.
 17 A. I would agree with that.
 18 Q. Are you familiar with a process called a
 19 Delphi Consensus Procedure?
 20 A. I am only very loosely familiar with it.
 21 Q. Then I will not ask you questions about
 22 that.
 23 A. Okay.
 24 Q. You haven't participated in a Delphi --
 25 A. No, I have not.

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1 Q. -- Consensus process yourself, okay.
 2 Let me ask you to turn to page 248.
 3 A. Of which document?
 4 Q. I'm sorry, Exhibit 10. You can put Exhibit
 5 9 to one side. We won't -- probably won't be
 6 coming back to that. We'll see.
 7 MS. LEVI: I'm sorry, 248, did you say.
 8 MR. BROOKS: 248.
 9 Q. And just to kind of connect this to what
 10 we've just been discussing, midway down, a
 11 sentence begins "The pubertal and adolescent
 12 period is associated with profound
 13 neurodevelopment." You see that language?
 14 A. I do.
 15 Q. And that's consistent with what you were
 16 just explaining to me, am I correct?
 17 A. Yes, I would say so.
 18 Q. And that goes on to say "including
 19 trajectories of increasing capabilities for
 20 abstraction and logical thinking, integrative
 21 thinking (e.g., consideration of multiple
 22 perspectives), and social thinking and
 23 competence." Do you see that language?
 24 A. I do.
 25 Q. And do you agree or is it outside your

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1 expertise that now well-established neuroscience
 2 tells us that the maturation process that we call
 3 puberty and adolescence includes profound
 4 developments that affect the capability for
 5 logical thinking, social thinking, and competence?
 6 A. Could you -- could I hear your question
 7 again, please.
 8 MR. BROOKS: Yes, I'll ask the reporter
 9 to help me out.
 10 (THE REPORTER READ THE RECORD)
 11 A. Social thinking, competence, and then there
 12 was one initial thing you mentioned.
 13 Q. Logical thinking, which is a clause that I
 14 took out of the sentence that we --
 15 A. I see.
 16 Q. -- just read.
 17 A. Yeah, I would agree with that.
 18 Q. And let me ask, take you a little bit
 19 farther down.
 20 An inch and a half down, there's a sentence
 21 that begins, two-thirds of the way along the
 22 line -- it's hard to find these things -- that
 23 begins "At the level of the brain." Let me ask
 24 you to find that.
 25 A. I see it.

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1 Q. Okay. And that says "At the level of the
 2 brain, several primary neurodevelopmental
 3 processes unfold during adolescence, including
 4 myelin development and changes in neural
 5 connectivity, synaptic pruning, and gray matter
 6 maturation, changes in functional connectivity,
 7 and maturation of the prefrontal cortex and the
 8 social brain network."
 9 MS. LEVI: There's no -- there's no
 10 quote at the end of the sentence.
 11 MR. BROOKS: I'm closing my quotation.
 12 MS. LEVI: Got it.
 13 Q. And this is referring more to physical,
 14 measurable brain development, rather than more
 15 abstract descriptions of capabilities, correct?
 16 A. That's correct.
 17 Q. And is it -- are the physical changes in
 18 brains during adolescence that are described in
 19 the sentence I just read into the record accurate,
 20 to your knowledge, or going beyond your
 21 professional expertise?
 22 A. I have enough expertise to agree with the
 23 sentence.
 24 Q. Okay. Would you agree that these known
 25 facts about brain development during puberty raise

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1 the possibility, at least, that blocking normal,
 2 healthy puberty hormones produced by the child's
 3 body may have some effect on the child's brain
 4 development?
 5 MS. LEVI: Object as to form.
 6 A. So I would say that these processes are not
 7 solely and exclusively dependent on pubertal
 8 maturation to unfold. Adolescence is also
 9 characterized by rapidly changing social
 10 environment and that sex hormones are one of a few
 11 influential factors that support this type of
 12 brain development.
 13 Q. What knowledge do you have, if any -- strike
 14 that.
 15 Can you point me to any study that informs
 16 us as to what extent the changes described in the
 17 sentences I just read from Chen, et al 2020, are
 18 driven by puberty-linked hormones versus other
 19 factors, such as social environment that you've
 20 just described?
 21 A. I'm looking at the reference list to see if
 22 I reviewed any of the papers that they cite in
 23 this paragraph. Nothing looks familiar to me.
 24 This is a fact that I generally understand
 25 from my fellowship training, understanding that

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1 this is a criteria of my board certification.
 2 For my immediate recollection, I cannot list
 3 a study. However, I am sure I could source some
 4 if given the opportunity.
 5 Q. Well, let me back up and ask you again. The
 6 known facts about brain development during puberty
 7 that are recited in Chen, et al, that you have
 8 agreed with a moment ago, you would agree, raise
 9 the possibility that blocking normal pubertal
 10 hormones produced by the child's body may have
 11 some effect on the child's brain development?
 12 A. This paragraph as it's written does not
 13 contain any information about pubertal blockade or
 14 the presence or absence, or the influence of sex
 15 hormones specifically.
 16 Q. My question for you as a scientist is, do
 17 you agree, disagree, or consider it outside your
 18 expertise to say that the known facts about brain
 19 development during puberty raise the possibility
 20 that blocking normal, healthy pubertal hormones
 21 produced by the child's body may have some effect
 22 on the child's brain development?
 23 A. I am loosely aware of research that has
 24 listened to that question. It would not be proper
 25 for me to offer an opinion without having done an

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1 in-depth analysis on relative research that could
 2 be used to answer your question. So I consider
 3 cognitive development in the setting of pubertal
 4 blockade to be something that is outside the scope
 5 of my expertise as it's represented in the
 6 literature.
 7 Q. All right. Based on your review of Chen, et
 8 al 2020, you understand that what that paper does
 9 is propose some methodology or metrics that the
 10 authors believe should be deployed to study the
 11 question of whether pubertal blockade may have an
 12 impact on the child's brain development; correct?
 13 A. Let me just read the abstract for a second
 14 to refresh myself.
 15 So the purpose of this study was to identify
 16 methodologies for studying the impact of pubertal
 17 blockade on cognitive function in adolescents by
 18 gender dysphoria.
 19 Q. To your knowledge, no study applying the
 20 methodology recommended by Chen, et al in 2020 has
 21 yet been published, correct?
 22 A. I couldn't opine on that one way or the
 23 other.
 24 Q. So far as you know today -- let me put it in
 25 a way that's easier to answer.

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1 As you sit here today, you're not aware of
 2 any study applying the methodology recommended by
 3 Chen, et al in 2020 that is in process today?
 4 A. I cannot offer any answer to that question.
 5 I don't know.
 6 Q. The sense of the question was you're not
 7 aware; you can't offer an answer, you're not
 8 aware --
 9 A. I'm unaware.
 10 Q. -- of any such study, okay.
 11 A. I would not have a reason to be aware,
 12 having not done an in-depth look at the
 13 literature.
 14 Q. And in your report, in your supplemental
 15 report, you don't actually offer any opinion as to
 16 whether the use of puberty blockers in adolescents
 17 as a treatment for gender dysphoria, does or does
 18 not have any negative effect on the child's brain
 19 development, do you?
 20 A. I don't discuss any studies pertinent to
 21 brain development in my supplemental report. But
 22 I do discuss several studies that describe
 23 psychosocial functions and mental health
 24 improvements.
 25 Q. It is also the case in your original report,

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1 you don't offer any opinion as to whether applying
 2 puberty blockers adolescents as a treatment for
 3 gender dysphoria does or does not have any harmful
 4 effect on the child's brain development?
 5 A. Similarly, I don't source any studies on
 6 cognitive development. But I do discuss several
 7 studies that show stability or improvements in
 8 various domains of mental health and/or gender
 9 dysphoria.
 10 Q. You would agree, would you not, that mental
 11 health and cognitive development are not the same
 12 concept?
 13 A. I would not agree that they're entirely
 14 distinct; that there is overlap. And that
 15 untreated or worsening mental health conditions
 16 can certainly limit one's ability to develop
 17 cognitive skills in adolescence.
 18 Q. You would agree, would you not, that mental
 19 health and cognitive development are not the same
 20 concept?
 21 A. I agree that they're overlapping concepts
 22 that are interrelated.
 23 Q. Would you agree that they are not the same
 24 concept?
 25 A. They don't overlap completely, but they're

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1 intrinsically linked.
 2 MS. LEVI: I think she's answered the
 3 question. You asked it three times now.
 4 MR. BROOKS: Fine.
 5 Q. Do you agree, as a clinician, that knowing
 6 whether the administration of puberty blockers
 7 adolescents during years of natural pubertal
 8 development has a lasting negative impact on brain
 9 development, is an important question for
 10 clinicians, for parents, for health policy
 11 experts, tasked to decide whether or not to
 12 administer puberty blockers to minors?
 13 MS. LEVI: Object as to form.
 14 A. Can I have the question back, please.
 15 (THE REPORTER READ THE RECORD)
 16 A. It is one of many questions that should be
 17 considered in a medical decisionmaking process
 18 between a physician, a parent, and a patient. And
 19 there are many others that should be considered
 20 simultaneously.
 21 Q. You, as a clinician, would want to know the
 22 answer to that question if at all possible, right?
 23 A. I would want to know the answer to that
 24 question alongside and at the same time as the
 25 answer to the question of what happens to

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1 cognitive function when gender dysphoria
 2 progresses without intervention.
 3 Q. And in fact, there's a great deal about
 4 brain development in adolescents undergoing
 5 alternative treatment for gender dysphoria that
 6 just isn't known at present, correct?
 7 MS. LEVI: Object as to form.
 8 A. I am unaware of any alternative treatments
 9 to gender dysphoria or what you may mean by that.
 10 Q. Let me rephrase the question. There's a
 11 great -- there's a great deal about the effect of
 12 puberty blockers or cross-sex hormones in the
 13 brain development of adolescents that we simply
 14 don't know yet, correct?
 15 A. Can I have the question back?
 16 (THE REPORTER READ THE RECORD)
 17 A. There is a great deal that is known and
 18 unknown, as is the case in many different domains
 19 of medicine.
 20 MR. BROOK: Let me ask the reporter to
 21 mark as Exhibit 11, an article by Drs. Leibowitz
 22 and de Vries entitled "Gender Dysphoria in
 23 Adolescence."
 24 A. Shall we set these aside?
 25 Q. Yes.

<p style="text-align: right;">Page 78</p> <p>1 (DEFENDANT'S EXHIBIT 11 FOR 2 IDENTIFICATION Received and Marked.) 3 Q. Let me ask first whether you professionally 4 know either Dr. Leibowitz or Dr. de Vries? 5 A. I don't. 6 Q. Do you know -- do you have any opinion as to 7 the professional reputation of Dr. de Vries? 8 A. I know that Dr. de Vries is a well-known 9 researcher and clinician in this field. 10 Q. And she is associated with the Vrije 11 University clinic that I mentioned earlier. Is 12 that consistent with your recollection? 13 A. I will take your word for that. I'm not 14 sure what VU University Medical Center in 15 Amsterdam refers to, but perhaps that's an 16 abbreviation. 17 Q. It refers to -- and I'll spell this for you 18 since it's Dutch -- Vrije, V-R-E-I-J, University. 19 So when I say "Vrije," it's V-R-E-I-J. 20 Is this a paper that you are -- you believe 21 you have reviewed before now? 22 A. That's what I'm trying to figure out. It 23 doesn't immediately look familiar to me. 24 Q. Do you know anything about Dr. Leibowitz's 25 reputation?</p>	<p style="text-align: right;">Page 80</p> <p>1 A. I have no information to help me answer that 2 question either way. 3 Q. Do you consider Dr. Leibowitz and Dr. de 4 Vries to be science deniers? 5 A. No. 6 Q. Do you believe either of them to be 7 transphobes? 8 MS. LEVI: Object as to form. 9 A. I do not know either of them at all. 10 Q. But you know their professional reputations 11 to some extent, correct? 12 A. What you're describing reflects more of a 13 personal belief that I would not have any 14 knowledge of. 15 Q. And you would -- it is beyond your 16 professional knowledge that Dr. De Vries is widely 17 considered to be one of the seminal researchers in 18 the field of treatment of gender dysphoria in 19 minors? 20 A. I tend not to think about experts in this 21 field on a concrete hierarchy like that, 22 especially at this point in time, when there are 23 so many who have produced solid research and 24 contributed extensively to the field. 25 Q. You're not prepared to offer expert</p>
<p style="text-align: right;">Page 79</p> <p>1 A. I'm a little bit more familiar with Dr. 2 Leibowitz, and that he is a well-respected 3 psychiatrist who cares for gender diverse youth. 4 Q. Let me ask you to turn to page 30. And 5 there's Table 2 there with two columns. One says 6 "What is Known," and the second says "What is Not 7 Known." Do you see that? 8 A. Yes. 9 Q. And these authors in the "What is Not Known" 10 column say -- writing in 2016; I don't want to try 11 to blur the years. Find what I'm looking for. 12 Under the "What is Not Known" column, they 13 write "Unclear long-term effects on brain 14 development in this population." 15 Do you consider these authors to be, in 16 stating that it's unclear what the effect of 17 pubertal suppression on brain development in 18 adolescents may be, to be deploying scare tactics? 19 MS. LEVI: Object as to form. 20 A. Can I have the question back. 21 Q. Do you consider Dr. de Vries and Dr. 22 Leibowitz, in stating that it is unknown what the 23 long term effects on brain development in the 24 adolescent population of pubertal suppression, to 25 be deploying scare tactics?</p>	<p style="text-align: right;">Page 81</p> <p>1 testimony that it has been established by reliable 2 evidence that use of puberty blockers to treat 3 gender dysphoria in adolescents does not have 4 negative long term effects on brain development in 5 that adolescent population, are you? 6 A. What I can tell you is that a statement in a 7 paper from 2016 is likely outdated, given the 8 possibility of eight years of subsequent research 9 that is not included in this paper. 10 MR. BROOKS: Let ask the court reporter 11 to read back the question. 12 (THE REPORTER READ THE RECORD) 13 A. And as I answered, what I can tell you, and 14 what I did tell you at the beginning, is that I 15 had seen several articles looking into pubertal 16 suppression and cognitive development, that I did 17 not review them extensively for any of my reports; 18 that I do not know what years they were published 19 in. And I do not know whether or not they 20 resulted from any of the methodologies that Chen 21 and colleagues described in the 2020 paper. And 22 that referring to a sentence in a paper from 2016 23 that describes unclear long-term effects may not 24 hold true eight years later. 25 Q. My question for you today, as you sit here,</p>

<p style="text-align: right;">Page 82</p> <p>1 is are you willing, today, to offer expert 2 testimony that it has been established by reliable 3 evidence that use of puberty blockers to treat 4 gender dysphoria in adolescents does not have 5 negative long-term effects on brain development? 6 A. That is not an area that I have formed an 7 opinion on in this case. 8 Q. All right. Do you have an opinion as to 9 whether that's a question on which, on the state 10 of the science today, there's room for reasonable 11 disagreement among scientists? 12 A. I don't have an opinion on that either. 13 Q. Let me take you a little closer to the 14 present and ask the reporter to mark as Exhibit 15 12, a 2023 article by Dr. De Vries and another 16 author named Hannema. 17 (DEFENDANT'S EXHIBIT 12 FOR 18 IDENTIFICATION Received and Marked.) 19 Q. Is this an article that you believe you have 20 seen before -- 21 A. Yes, I have seen this before. 22 Q. -- today. And is it an article that you 23 have referenced for any reason other than 24 preparation for this litigation? 25 A. I don't believe so. It's not something I</p>	<p style="text-align: right;">Page 84</p> <p>1 Q. And there, Dr. de Vries writes "Finally, 2 benefits of early medical intervention, including 3 puberty suppression, need to be weighed against 4 possible adverse effects - for example, with 5 regard to bone and brain development and 6 fertility." Do you see that sentence? 7 A. Yeah. 8 Q. And Dr. De Vries here, just last year, 9 writes that benefits needs to be weighed against 10 what she refers to as possible adverse events, 11 including adverse effect on brain development; 12 correct? 13 A. That is what the authors go on to say. 14 Q. So these authors, at least, as of last year, 15 considered that adverse impact on brain 16 development was still a possibility as of 2023; 17 correct? 18 MS. LEVI: Object as to form. 19 A. It would not -- let me say that differently. 20 One could not tell, based on this sentence, what 21 evidence the authors had reviewed, if any. 22 Q. My question simply is, these authors, at 23 least, as of last year, expressed the view that 24 the possibility of adverse effects on brain 25 development was or remains something that needed</p>
<p style="text-align: right;">Page 83</p> <p>1 cited in my reports, either. 2 Q. Do you know anything about the reputation of 3 Dr. Hannema? 4 A. Nothing. 5 Q. And as to Dr. de Vries, you have already 6 testified. This is obviously much more recent; 7 down the bottom it says January of 2023. 8 Let me call your attention -- and this is, 9 just to be clear, this is not an article that is 10 reporting on original research. This is a 11 short -- what would you call it, a scientific 12 comment? Is there a term you prefer for this sort 13 of article? 14 A. It's in the editorial section of the New 15 England Journal. 16 Q. And the New England Journal being a highly 17 respected publication? 18 A. Yes. 19 Q. The New England Journal of Medicine, that 20 is, to be clear. 21 Let me ask you to turn to page 276, in the 22 second column. And an ultimate paragraph in the 23 second column begins "Finally." Do you see that 24 paragraph? 25 A. I do.</p>	<p style="text-align: right;">Page 85</p> <p>1 to be put in balance against benefits of puberty 2 suppression; correct? 3 A. They express the need for weighing the risks 4 and benefits, as is common practice. 5 Q. And indeed, you would agree that clinicians 6 need to weigh possible adverse effect of puberty 7 blockade, including possible harm to brain 8 development and fertility, against potential 9 benefits of puberty blockade; correct? 10 A. I would agree that they need to and further, 11 that they do. 12 Q. And it's not science denialism to say that 13 those possible negative impacts on brain 14 development and fertility should be considered? 15 A. No, it's not. 16 Q. Indeed, you would agree, would you not, that 17 ethical decisionmaking regarding the use of 18 puberty blockers on adolescents need to weigh 19 those risks? 20 A. Ethical decisionmaking needs to weigh the 21 risks and the benefits simultaneously. 22 Hyper-focusing on the risks without considering 23 the benefits is not scientific. 24 Q. That is, leaving either the risks or the 25 benefits out of the equation is not the way to go</p>

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1 about ethical decisionmaking?
 2 A. Ethical decisionmaking risks on a careful
 3 balance and consideration of risks and benefits,
 4 in partnership with a patient and the legal
 5 decisionmaker, if that applies.
 6 Q. Let me ask you to find -- I think it's in
 7 the stack where -- the Endocrine Society 2017
 8 Guidelines. That's Exhibit 6.
 9 MS. LEVI: Are you likely to go back to
 10 Exhibit 12?
 11 MR. BROOKS: I think the answer is no.
 12 Or if I do --
 13 MS. LEVI: It's fine. It won't be far.
 14 It won't be far.
 15 THE DEPONENT: And I think after this
 16 set of questions --
 17 MR. BROOKS: Would you prefer to stop,
 18 take a break?
 19 MS. LEVI: Take a break now?
 20 THE DEPONENT: Yeah.
 21 MS. LEVI: Just in terms of timing, do
 22 you want to take a short break, have more and then
 23 lunch? Do you want to take a longer break.
 24 THE DEPONENT: Let's take about 10
 25 minutes now and then come back.

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1 MR. BROOKS: I generally recommend to my
 2 witnesses that we not break at 12:00 because the
 3 afternoon is just brutally long.
 4 MS. LEVI: I'm there. I just want to do
 5 whatever you need to do physically as well.
 6 THE DEPONENT: We'll take a break.
 7 MS. LEVI: We're just going to take a
 8 10-minute break.
 9 (R E C E S S)
 10 MR. BROOKS:
 11 Q. Do you now have Exhibit 10, Chen 2020, in
 12 front of you again?
 13 A. Yeah, I do.
 14 Q. Let me ask you to turn in that document to
 15 page 252. And there, about an inch and a half
 16 from the bottom, the sentence begins "The effects
 17 of pubertal suppression may not appear." Do you
 18 see that?
 19 A. No.
 20 Q. I'll give you a moment.
 21 A. Could you tell me where it is again?
 22 Q. First column, inch and a bit more from the
 23 bottom, the sentence begins towards the end of the
 24 line.
 25 A. I got it.

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1 Q. All right. Let me just read that into the
 2 record.
 3 It says "The effects of pubertal suppression
 4 may not appear for several years. Any
 5 GnRHa-related difference in brain structure is
 6 likely to be observed over the long term, rather
 7 than immediately."
 8 Do you agree with the Chen, et al authors,
 9 or is it outside your expertise, that any effects
 10 of pubertal suppression on neurodevelopment might
 11 not appear for several years?
 12 A. Outside the scope of my expertise.
 13 Q. And do you agree or is it outside the scope
 14 of your expertise that any difference in brain
 15 structure resulting from puberty blockade is
 16 "likely to be observed over the long term, rather
 17 than immediately"?
 18 A. Similarly, that is outside my scope of
 19 expertise.
 20 Q. And you're not, as you sit here today, aware
 21 of any long-term study that has been undertaken of
 22 the effects of pubertal suppression on brain
 23 structure; correct?
 24 A. "Long-term" is a very general phrase.
 25 Q. Let me ask a more precise question. You're

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1 not aware, as you sit here today, of any multiyear
 2 study of the effect of pubertal suppression on
 3 brain structure?
 4 A. I am not, and I have not done an in-depth
 5 analysis of the literature to try to find such
 6 studies.
 7 Q. When discussing potential treatments for
 8 gender dysphoria with your patients, do you warn
 9 them that respected scientists have stated that
 10 effects on the child's brain development might not
 11 appear for several years?
 12 A. I do not perform any clinical counseling
 13 regarding pubertal suppression used beyond a few
 14 months in patients who do not have gender
 15 dysphoria.
 16 Q. Let me call your attention to the next
 17 sentence, beyond the one I read, which, still in
 18 column one, page 252, says "Shifts in social and
 19 affective learning processes might cause subtle
 20 short-term differences that could ultimately
 21 result in clinically impactful longer-term
 22 effects."
 23 Let me ask what you think you understand
 24 what the authors are saying there.
 25 A. It's difficult to discern the meaning of the

<p style="text-align: right;">Page 90</p> <p>1 sentence without understanding the article as a 2 whole. 3 Q. Before I called your attention to this 4 language, were you aware that the Chen, et al 5 authors had expressed concern that administration 6 of puberty blockers to adolescents might result in 7 "clinically impactful long-term effects"? 8 MS. LEVI: Object as to form. 9 THE DEPONENT: Can I have the question 10 back? 11 (THE REPORTER READ THE RECORD) 12 A. So I have not learned anything new from that 13 language. I'm referring back to the abstract of 14 this paper and the purpose of this study. Final 15 sentence of the section "Purpose" under the 16 abstract states "Given the widespread changes in 17 brain and cognition that occur during puberty, a 18 critical question is whether this treatment 19 impacts neurodevelopment," in the context of 20 preliminary evidence suggesting pubertal 21 suppression improves mental health functioning. 22 Q. So as you have worked with patients and 23 referred them to the gender clinic, you were aware 24 that these authors, at least, had expressed 25 concern that administration of puberty blockers to</p>	<p style="text-align: right;">Page 92</p> <p>1 between the ages of 11 and 18? 2 A. I don't understand your question. 3 Q. It is not your testimony, is it, that a 4 14-year-old girl has completed all aspects of 5 neurodevelopment associated with puberty and 6 adolescence? 7 A. Adolescence is still ongoing in a 8 14-year-old. It's a chronological, just as it is 9 a social and developmental phase. And this 10 particular patient we're discussing had not 11 completed many aspects of puberty. But, in terms 12 of physical maturation, the patient was Tanner 13 Stage 5, which meant that in accordance with the 14 standards of care and the Endocrine Society 15 Guidelines, there would be no utility in using the 16 puberty-blocking medication. 17 Q. Got it. Let me ask you to turn to page 248 18 in this Chen 2020. And if I can take you perhaps 19 two inches down in the second column. It is a 20 paragraph that begins, "The combination of 21 animal." Just tell me when you've found that 22 paragraph. 23 A. Got it. 24 Q. And the authors say that this evidence 25 "supports the notion that puberty may be a</p>
<p style="text-align: right;">Page 91</p> <p>1 adolescents could result -- could ultimately 2 result in clinically impactful long-term effect? 3 MS. LEVI: Object as to form. 4 A. Sir, I would draw your attention back to my 5 prior testimony, when I discussed that I had two 6 patients who I referred as minors to gender 7 competent clinical services. And both patients 8 had completed puberty. That was not context that 9 I gave earlier. 10 I have not yet encountered a patient with 11 gender dysphoria who may be eligible for pubertal 12 blockade and referred them to a gender clinic. 13 Further, I would not endeavor to perform 14 counseling on medications that I myself would not 15 be prescribing or managing. 16 Q. Is it your testimony that the 14-year-old 17 girl that you referred to had, to use your phrase, 18 quote, completed puberty? 19 A. Yes, that was my clinical assessment. The 20 patient was Tanner Stage 5 in all domains of 21 pubertal development, which means that puberty had 22 been completed. 23 Q. And what is the relationship between that, 24 and your opinion that we referred to earlier where 25 you talked about puberty-related neurodevelopment</p>	<p style="text-align: right;">Page 93</p> <p>1 sensitive period for brain organization; that is, 2 a limited phase when developing neural connections 3 are uniquely shaped by hormonal and experiential 4 factors, with potentially lifelong consequences 5 for cognitive and emotional health." 6 Do you see that language? 7 A. I do. 8 Q. And again, you've described the purpose of 9 the Chen, et al paper and the questions that it 10 poses. 11 Do you believe that by warning that 12 interference with the normal process of puberty 13 may have "potentially lifelong consequences for 14 cognitive and emotional health," the Chen, et al 15 authors are engaging in false and deceptive 16 claims? 17 THE DEPONENT: Could I have the question 18 back. 19 (THE REPORTER READ THE RECORD) 20 A. I don't hear that as a fair characterization 21 of the writing of these authors. In the sentences 22 that we are reviewing now, they do not appear to 23 be referring to pausing puberty with 24 puberty-blocking medications. 25 Q. That indeed is the focus and context of</p>

<p style="text-align: right;">Page 94</p> <p>1 their entire paper and project; am I correct? 2 A. They are discussing endogenous puberty as 3 well, and offering a great deal of background 4 information. It's not the case that every 5 sentence in the paper refers exclusively and 6 directly to blocking puberty. 7 Q. Then let me take you to some sentences that 8 do. 9 Just below that, two sentences, I believe, 10 says "There is also some evidence to suggest that 11 delayed puberty onset predicts slightly poorer 12 adult functional outcomes." Do you see that 13 language? 14 A. That is a sentence that refers to a study in 15 citation 49 in the paper. And the title of that 16 paper is on "Cognitive Consequences of the Timing 17 of Puberty." I would need to look at that study 18 and the study population that those authors 19 reviewed, if this is even a clinical research 20 study, in order to offer further context on the 21 sentence you read. It's not clear to me if the 22 citation itself is discussing people with gender 23 dysphoria, adolescents with gender dysphoria. So 24 I'm not sure how the sentence is relevant. 25 Q. Then let me take you to these authors'</p>	<p style="text-align: right;">Page 96</p> <p>1 Q. To your mind, for these authors to raise a 2 concern that one of the costs, one of the risks 3 that needs to be balanced is that puberty blockers 4 could alter neurodevelopment in ways that are not 5 beneficial, is not science denialism? 6 MS. LEVI: I think she's answered the 7 question, but you can answer it again. 8 A. I think I -- 9 MR. BROOKS: Let's hear the question 10 back because I don't think you have. 11 A. So this paper provides a substantive 12 introduction that summarizes evidence on positive 13 outcomes observed in youth with gender dysphoria 14 who qualify for and are offered pubertal 15 suppression. And it also discusses the 16 possibility of risks. 17 To me, that is an example of an instance 18 where there is no science denialism, but rather a 19 faithful engagement of risks, benefits, potential 20 unknowns, and knowns. 21 Q. Is it fair to say that in evaluating whether 22 a treatment should be offered or not offered for 23 an individual, just picking up on what you just 24 said, that a clinician, or for that matter, a 25 parent, should consider both known benefits, known</p>
<p style="text-align: right;">Page 95</p> <p>1 conclusion, how they think it's relevant. 2 The next sentence reads "Taken as a whole, 3 the existing knowledge about puberty and the brain 4 raises the possibility that suppressing sex 5 hormone production during this period could alter 6 neurodevelopment in complex ways, not all of which 7 may be beneficial." Do you see that language? 8 A. I do. 9 Q. And in your view, by stating the possibility 10 or asserting that the existing evidence "raises 11 the possibility that pubertal suppression could 12 alter neurodevelopment in complex ways, not all of 13 which may be beneficial," these authors are 14 engaging in science denialism? 15 A. These authors wrote a sentence describing 16 the possibility that there may be some 17 nonbeneficial impacts of suppressing [uberty. And 18 that implies that there would be beneficial impact 19 of suppressing puberty. I am presuming that 20 they're referring now to the patient population of 21 interest, which is patients with gender dysphoria. 22 And I would take this sentence as a measured and 23 thoughtful comment in isolation, and not as a 24 denial of fact, because the sentence includes a 25 balance between risks and benefits.</p>	<p style="text-align: right;">Page 97</p> <p>1 risks, and potential unknowns? 2 A. That's what Informed Consent discussions 3 entail. 4 MR. BROOKS: And let me ask the reporter 5 to mark as Exhibit 13, a 2023 Review Article by 6 Sallie Baxendale of the University College London. 7 (DEFENDANT'S EXHIBIT 13 FOR 8 IDENTIFICATION, Received and Marked.) 9 Q. Let me ask first, Dr. McNamara, whether this 10 is an article that you have seen before today? 11 A. I have seen this article. 12 Q. And are you familiar with the journal Acta 13 Paediatrica in which it was published? 14 A. I have heard of it before. 15 Q. Do you know anything about its reputation in 16 the field? 17 A. I do not. 18 Q. And are you familiar generally with the 19 reputation of the University College London as a 20 research institution? 21 A. Not really, no. 22 Q. Now, this is a review article; so it says at 23 the top. Do you have an understanding generally 24 of what a review article -- what it means that an 25 article is a review article?</p>

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1 A. Yes, I do.
 2 Q. What is that?
 3 A. A review article does not present original
 4 previously unpublished research. It summarizes
 5 existing evidence in a particular area of
 6 interest.
 7 Q. When did you first read this article?
 8 A. This article was accepted January 30th of
 9 2024. I believe I reviewed it perhaps a month
 10 ago.
 11 Q. Okay. In connection with your work for this
 12 litigation?
 13 A. Correct.
 14 Q. Let me take you to the second page. Down
 15 towards the bottom of the first column is a
 16 heading that reads "Puberty as a Critical Window
 17 in Neurodevelopment." And that paragraph
 18 continues into the second column. I want to read
 19 the first sentence that begins in the second
 20 column.
 21 That says "A period is defined as a critical
 22 window if the brain requires a specific input to
 23 allow for the optimal development of a particular
 24 function, e.g., exposure to language or visual
 25 stimuli. If the neural network is left without

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1 the correct input or stimulation, the functions
 2 served by that circuit will be permanently
 3 compromised."
 4 Is the concept of a critical window in
 5 neurodevelopment one that you are familiar with,
 6 or do you consider that to be outside your
 7 personal expertise?
 8 A. As a pediatrician, I'm certainly familiar
 9 with its importance in the three life periods
 10 mentioned, infancy, childhood and adolescence. I
 11 haven't performed any original research on the
 12 neuropsychology of their critical window, but I
 13 clinically have considered it in relevant
 14 patients.
 15 Q. And can you describe for me at a high level
 16 what you understand by "critical window of
 17 neurodevelopment," your own understanding?
 18 A. A critical window is a time in which the
 19 optimization of wellbeing, enrichment, support,
 20 and health, can pay off in dividends throughout
 21 that person's life.
 22 Q. Or conversely, if they don't obtain the
 23 appropriate stimulation, to use the term from Dr.
 24 Baxendale's article, during that time period, that
 25 may have negative impact for life?

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1 A. So using my understanding of the critical
 2 window, if somebody is deprived of resources, such
 3 as food, attention, nurturing, if they endure
 4 traumatic experiences and then don't receive
 5 adequate support, if they have medical problems
 6 that go insufficiently addressed, then they are
 7 likely to experience the harms of that past the
 8 critical window.
 9 And yet, if deprivation of that kind were to
 10 occur outside of the critical window, it is less
 11 likely that that deprivation would be as harmful
 12 in a long-term sense.
 13 Q. Let me ask you to turn to page 3. And in
 14 this first column, down towards the bottom,
 15 there's a paragraph that begins "In summary." Do
 16 you see that?
 17 A. I do.
 18 Q. And what it says in the first sentence is
 19 that "In summary, puberty is characterized by both
 20 regressive and progressive stages of brain
 21 development. Unlike earlier developmental
 22 milestones, many of these processes are associated
 23 with pubertal stage, rather than chronological
 24 age." Do you see that language?
 25 MS. LEVI: It's not the end of the

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1 sentence.
 2 MR. BROOKS: You're right.
 3 A. I see it.
 4 Q. Close quote, period. You mentioned earlier
 5 that, I think, both pubertal hormones and age and
 6 social environment affect neurodevelopment, to
 7 your understanding. Am I correct?
 8 A. I offered a little bit more context and
 9 descriptors there, I believe.
 10 Q. And I wasn't trying to cut anything out, I
 11 was just taking us to a topic --
 12 A. Certainly.
 13 Q. -- and trying to be open. Is it consistent
 14 with your understanding, or do you disagree, or is
 15 it outside your expertise, that many of the
 16 neurodevelopmental stages associated with puberty
 17 are associated with pubertal stage, rather than
 18 chronological age?
 19 A. Can I have the question back?
 20 Q. Yes. Is it -- do you agree, disagree, or
 21 consider it to be outside your expertise, to say
 22 that many of the neurodevelopmental processes
 23 known to occur during puberty are associated with
 24 pubertal stage, rather than chronological age?
 25 MS. LEVI: Object as to form.

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1 A. Your question, to me, as an adolescence
 2 medicine physician, feels overly simplistic and is
 3 vague. "Many," as a qualifier, is not specific
 4 enough so that I can grasp your question.
 5 Q. Do you have any opinion as to whether
 6 important aspects of neurodevelopment in the
 7 adolescent brain are more strongly associated with
 8 pubertal stage than with chronological age?
 9 A. I do not understand the utility in comparing
 10 chronological age with pubertal stage when there
 11 are other key determinants of development that are
 12 neither of those things, that shape one's pubertal
 13 experiences.
 14 Q. Well, you're familiar with the concept of a
 15 multivariable function, are you not?
 16 A. That is not a term that I'm familiar with.
 17 But we may have a shared understanding if you
 18 explain more.
 19 Q. You studied a certain amount of math and
 20 statistics in your day?
 21 A. I did. That's why I think it's significant
 22 that the term you're using is not one that I'm
 23 familiar with.
 24 Q. A multivariable function is not a term
 25 you're familiar with?

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1 A. Could you describe what you mean by it, and
 2 then I can see if we have a shared understanding.
 3 Q. I mean a function, the outcome of which
 4 depends on more than one variable.
 5 A. When you say a function --
 6 Q. If you don't understand what a function is,
 7 I'm not going to waste time on that. But let me
 8 ask you to turn to page -- to the second column,
 9 and it says on the top --
 10 MS. LEVI: Is that on page 3?
 11 MR. BROOKS: Yes.
 12 Q. It says at the top, at the end of the first
 13 partial paragraph, "The male and female brain
 14 develops differently during adolescence both in
 15 terms of structural connectivity and developmental
 16 trajectory."
 17 A. I don't see where -- oh, okay, I found it.
 18 Q. In the first partial paragraph. Is that
 19 consistent -- statement consistent with your
 20 understanding as a doctor, or not?
 21 A. I am loosely familiar with that. I have not
 22 done an in-depth search of the literature to
 23 ascertain what the current status of evidence is
 24 on that.
 25 Q. Is it consistent with your general

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1 understanding that in recent years, data
 2 documenting differential development between male
 3 and female brains has increased?
 4 A. I have no knowledge one way or the other.
 5 Q. All right. Immediately below that is the
 6 sentence that reads "Completely reversible
 7 neuropsychological effects would not be predicted
 8 given our current understanding of the windows of
 9 opportunity model of neurodevelopment." Do you
 10 see that?
 11 A. I do see that on the page.
 12 Q. And is the assertion that completely -- is
 13 the assertion that given our current understanding
 14 of the windows of opportunity model of
 15 neurodevelopment, complete reversibility of
 16 impacts on that development from puberty blockers
 17 would not be predicted, consistent with your
 18 understanding, inconsistent with it, or outside
 19 your expertise?
 20 MS. LEVI: Object as to form.
 21 THE DEPONENT: Can I have the question
 22 back?
 23 (THE REPORTER READ THE RECORD)
 24 A. I'm so sorry, it's -- it feels, to me, a
 25 complex question and I need it back one more time.

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1 (THE REPORTER READ THE RECORD)
 2 A. I have no opinion on that.
 3 Q. Have you yourself made any effort to review
 4 published animal studies relating to the
 5 neurological impact of puberty blockers?
 6 A. It's my understanding that the
 7 interpretation of animal studies is best done by
 8 people who have scientific expertise at an
 9 in-depth level in a particular area. I do not
 10 consider myself an expert in neuropsychology, in
 11 the endocrinologic processes of pausing puberty,
 12 and so I would not review an animal study in-depth
 13 to be able to determine whether or not its results
 14 might be generalizable to humans.
 15 Q. Is it your view as a scientist that in
 16 general, animal studies may raise hypotheses
 17 relating to human impact, or are they -- strike
 18 that. This may not be achievable.
 19 You would agree, would you not, that in
 20 general, what animal studies can do is raise
 21 hypotheses or questions with regard to impact of a
 22 therapy on humans, but are rarely directly
 23 generalizable to humans?
 24 MS. LEVI: Object as to form.
 25 A. So, again, I raise the initial caveats, that

<p style="text-align: right;">Page 106</p> <p>1 I myself do not review or consider myself capable 2 of engaging with animal research. But I would 3 also say that I cannot agree or disagree with your 4 statement because it would depend on the specific 5 study, the methodology used, the sample size, the 6 duration of follow-up, and the clinical research 7 question of interest. 8 Q. All right. Let me ask you to turn to page 7 9 in the Baxendale 2024 article. And there, under 10 -- there's a heading that says "Central Precocious 11 Puberty," a third of the way down. Do you see 12 that? 13 A. Yes. 14 Q. And that begins, "In the only human study 15 that established a baseline prior to treatment, 16 Mul, et al examined," and it goes on. 17 Have you yourself reviewed the Mul, et al 18 study that Baxendale refers to here? 19 A. This is a study entitled "Psychological 20 Assessment Before and After Treatments of Early 21 Puberty in Adopted Children." It was published in 22 2001. I have not read this study. 23 Q. Okay. Baxendale says that this is the only 24 human study that establishes a baseline prior to 25 treatment and then follows the administration of</p>	<p style="text-align: right;">Page 108</p> <p>1 Q. Looking back at page 7, Baxendale's summary 2 of the findings of Mul -- and I recognize that's 3 layers -- says that "Three years after treatment 4 commenced, the group as a whole had experienced a 5 loss in both performance IQ and full scale IQ, 6 with a decline of seven points in the latter." 7 Now, let me ask you a hypothetical question. 8 I don't have the Mul to put in front of you. You 9 don't recall having read it. But if in fact a 10 study found that girls treated with puberty 11 blockade for central precocious puberty 12 experienced a loss of 7 IQ points across three 13 years, would you agree with me that that would be 14 quite a concerning result? 15 MS. LEVI: Object as to form. 16 A. Again, I could not answer your question 17 without reviewing the study to assessing the rigor 18 of its methodologies, the sample size, the 19 analysis. 20 Q. Well, if it were a fact that treatment with 21 puberty blockade for central precocious puberty in 22 girls resulted, over a span of years, in an 23 average decline of IQ of 7 points, you would agree 24 with me, would you not, that that would be quite a 25 concerning result?</p>
<p style="text-align: right;">Page 107</p> <p>1 puberty blockade, albeit, as you've noted, for a 2 different condition. 3 Are you aware, yourself aware, of any other 4 human study that has established a baseline and 5 then done posttreatment measurement of factors 6 that Mul measures, such as IQ? 7 A. Later in this paper, Baxendale cites 8 Arnoldson, et al, which is titled "Association 9 Between Pretreatment IQ and Educational 10 Achievement After Gender-Affirming Treatment, 11 Including Pubertal Suppression, in Transgender 12 Adolescents." I have read that study. I would 13 need to be able to answer -- I'd need to review 14 it. But I believe that the study does do a pre 15 and posttreatment assessment of a similar type of 16 measure -- 17 Q. Okay. 18 A. -- in a more heterogenous population, not 19 specifically youth with gender dysphoria. I have 20 not done an in-depth analysis of the literature 21 and it's not an area of my expertise. So I'm 22 unsure if this sentence saying that this is the 23 only study -- 24 Q. All right. 25 A. -- is correct.</p>	<p style="text-align: right;">Page 109</p> <p>1 A. That information would need to be 2 contextualized with the -- with observations in a 3 comparable group of individuals who did not 4 receive treatment, if one were to -- let me just 5 stop there. 6 Q. Well, and I'm not asking about ultimate 7 conclusions. 7 points in an IQ scale is 8 significant, you would agree with me, right? 9 A. I don't know if I know one way or the other 10 to agree or disagree. 11 Q. And you just don't have any -- you're not 12 able to offer any opinions, as you sit here today, 13 as to whether a finding that girls treated with 14 puberty blockade for central precocious puberty 15 lost 7 IQ points over three years on average would 16 concern you as a clinician? 17 A. There's so many other factors that would 18 need to be considered before weighing in on that. 19 Q. Let's look at page 8. At the bottom of 20 column two -- I'm sorry, at the bottom of column 21 one, Baxendale begins a discussion of a single 22 case study, Schneider, et al from 2017. 23 A. Mm-hmm. 24 Q. Are you familiar with the Schneider, et al 25 case study?</p>

<p style="text-align: right;">Page 110</p> <p>1 A. No.</p> <p>2 Q. Baxendale's summary of the findings in</p> <p>3 that -- and just let me stop.</p> <p>4 Would you agree as a general matter that a</p> <p>5 single case -- a case study of a single patient</p> <p>6 really can simply raise questions and concerns; it</p> <p>7 can't provide statistically sound information,</p> <p>8 correct?</p> <p>9 A. If even, yes.</p> <p>10 Q. If even, yes. The finding in this case</p> <p>11 study as summarized by Baxendale included that</p> <p>12 where treatment was initiated -- and I'm at the</p> <p>13 top of the second column -- where treatment was</p> <p>14 initiated with puberty blockades at age 11 years</p> <p>15 11 months, by age 13 years and 3 months, a loss of</p> <p>16 9 IQ points had occurred.</p> <p>17 MS. LEVI: Just so I'm clear, are you</p> <p>18 summarizing from the bottom of the left-hand</p> <p>19 column, to the top of right-hand column?</p> <p>20 MR. BROOKS: I am doing exactly that.</p> <p>21 MS. LEVI: Okay, thank you.</p> <p>22 Q. And specifically, the first -- the second</p> <p>23 full sentence beginning on the second column,</p> <p>24 treatment with GnRH was initiated as the start and</p> <p>25 finish time that I gave.</p>	<p style="text-align: right;">Page 112</p> <p>1 other illnesses. They may or may not have</p> <p>2 experienced a number of other factors that could</p> <p>3 influence IQ over time.</p> <p>4 So as a clinician who is interested in the</p> <p>5 totality of the evidence, I would not draw any</p> <p>6 conclusions from this case report.</p> <p>7 Q. So just to be clear, as a clinician, you are</p> <p>8 not willing to say that Mul's observation based on</p> <p>9 25 girls of a decline of IQ of 7 points, or</p> <p>10 Schneider's observation based on a single patient</p> <p>11 of a decline of 9 IQ points, causes you concern?</p> <p>12 A. I haven't reviewed either study. I can only</p> <p>13 take the summaries that are presented here as an</p> <p>14 indicator of what those studies might show.</p> <p>15 Regardless, a study of the impact of the</p> <p>16 medication on a population that is likely very</p> <p>17 different from the population that we are</p> <p>18 discussing and is of interest, in a single case</p> <p>19 report that does not control or assess for</p> <p>20 confounders, do not lead me in a -- down a path of</p> <p>21 being able to consider the import of either study</p> <p>22 in the question we're discussing.</p> <p>23 Q. Let me ask you to turn to the next page, and</p> <p>24 there's this section headed "Discussion" at the</p> <p>25 end of the first full paragraph.</p>
<p style="text-align: right;">Page 111</p> <p>1 MS. LEVI: On the left-hand column, I'm</p> <p>2 sorry, I just want to be clear. You're focusing</p> <p>3 on the Schneider study in the context of the three</p> <p>4 studies that are being discussed? I just want the</p> <p>5 record to be clear and I want to make sure I'm</p> <p>6 understanding.</p> <p>7 MR. BROOKS: The language that I have</p> <p>8 focused on concerns only the Schneider study,</p> <p>9 which is only a case study of a single patient, --</p> <p>10 MS. LEVI: Thank you.</p> <p>11 MR. BROOKS: -- and reports a loss of 9</p> <p>12 IQ points across the two plus years of treatment.</p> <p>13 Q. And my question to you, similarly to the Mul</p> <p>14 study that we looked at, does that result cause</p> <p>15 you, as a clinician, concern about the</p> <p>16 administration of puberty blockers to adolescents?</p> <p>17 A. Well, case studies are case studies. And it</p> <p>18 is not possible to control for confounders in a</p> <p>19 rigorous way to elucidate the relationship between</p> <p>20 the exposure and the outcome of interest.</p> <p>21 In this single young person, it's unclear</p> <p>22 what other factors might have been going on in</p> <p>23 their life that may have impacted their</p> <p>24 intellectual quotient. They may or may not have</p> <p>25 been in school. They may or may not have had</p>	<p style="text-align: right;">Page 113</p> <p>1 Dr. Baxendale writes "There have been no</p> <p>2 human studies to date that have systematically</p> <p>3 explored the impact of these treatments" -- the</p> <p>4 subject being puberty blockers -- "on</p> <p>5 neuropsychological function with an adequate</p> <p>6 baseline and follow-up." Do you see that</p> <p>7 language?</p> <p>8 A. Yes, I do.</p> <p>9 Q. Do you agree with Dr. Baxendale that there</p> <p>10 have not yet been studies done on the impact of</p> <p>11 puberty blockers on neuropsychological function</p> <p>12 that did adequate baseline measures and follow-up?</p> <p>13 A. Unfortunately, the language "adequate</p> <p>14 baseline and follow-up" is vague. And I am not</p> <p>15 able to agree or disagree without knowing what</p> <p>16 this author had in mind, and whether that might be</p> <p>17 clinically relevant to the subject matter at hand.</p> <p>18 Q. Well, let me ask you, based on your own</p> <p>19 understanding of sound methodology, can you point</p> <p>20 me to any study that you believe has systemically</p> <p>21 explored the impact of puberty blockers on</p> <p>22 neuropsychological function with what you consider</p> <p>23 to be adequate baseline and follow-up</p> <p>24 measurements?</p> <p>25 A. As we have discussed before, and as I have</p>

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1 defined my area of expertise in this case,
 2 puberty-blocking medications and cognitive
 3 functioning is not something I have done an
 4 in-depth analysis on in preparing any reports. So
 5 I do not have an opinion on your question.
 6 Q. On page 9, in the first column, Dr.
 7 Baxendale writes in the second paragraph of the
 8 discussion, "While there is some evidence that
 9 indicates pubertal suppression may impact
 10 cognitive function, there is no evidence to date
 11 to support the off cited assertion that the
 12 effects of puberty blockers are fully reversible."
 13 Do you see that?
 14 A. Yes.
 15 Q. And are you able to point me to any study
 16 today that you believe demonstrates that the
 17 effect of puberty blockers on adolescents as a
 18 treatment for gender dysphoria have only fully
 19 reversible effects on neurodevelopment?
 20 A. In order to answer your question, I would
 21 have needed to do an in-depth analysis of the
 22 literature on that question, and I haven't done
 23 so.
 24 Q. Are you able to identify any medical
 25 association that has taken any official position

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1 stating that puberty blockade is fully reversible
 2 with respect to impact on an adolescent's brain
 3 development?
 4 A. Again, I could not answer your question
 5 either way because I have not done an in-depth
 6 analysis on this topic.
 7 Q. Do you know whether any medical association
 8 has taken any position - has taken the position
 9 that cross-sex hormones administered to minors
 10 have no irreversible effect on brain development?
 11 This is not a topic that Baxendale speak to.
 12 A. I know.
 13 THE DEPONENT: Can I have the question
 14 back?
 15 (THE REPORTER READ THE RECORD)
 16 A. I have not seen that, to the best of my
 17 knowledge.
 18 Q. Is it consistent with your understanding
 19 that every cell in an individual's brain contains
 20 either XY, male sex chromes, or XX, female sex
 21 chromosomes?
 22 A. There are disorders of sexual development
 23 where people have different numbers of
 24 chromosomes. I do not know whether or not neurons
 25 contain chromosomal distribution patterns that are

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1 hallmarks of those disorders in people who have
 2 those disorders.
 3 Q. Let me exclude those who suffer from genetic
 4 disorders of sexual development and ask whether,
 5 apart from that category of genetic defect, it's
 6 consistent with your understanding that every
 7 human individual's brain contains either XY male
 8 sex chromosomes in every cell and every neuron, or
 9 XX female sex chromosomes in every cell, every
 10 neuron?
 11 MS. LEVI: Object as to form.
 12 A. I'm not sure who or what neuroscientific
 13 researcher could speak with certainty to the
 14 chromosomal contents of every neuron in a person's
 15 brain. I certainly cannot.
 16 Q. Is it outside your knowledge that every cell
 17 in my body, except somatic cells, contains XY
 18 chromosomes?
 19 A. I believe it's outside the realm of
 20 knowledge of anyone to be able to decide that with
 21 certainty. There are millions of neurons in the
 22 human brain.
 23 Q. Let me ask you to find your Expert Report.
 24 MS. LEVI: Put these aside?
 25 MR. BROOKS: Yes, for the moment.

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1 Q. And ask you to turn to page 15 of that
 2 report.
 3 A. Okay.
 4 Q. In the top partial paragraph, you have
 5 written "Physicians carefully counsel patients and
 6 their parents on the possibility of impairments in
 7 fertility should the patient continue on cross-sex
 8 hormones." You see that sentence?
 9 A. Yes.
 10 Q. And what is your basis for your
 11 understanding of what physicians do or don't
 12 carefully counsel patients about, given your
 13 earlier testimony that you yourself don't do that
 14 counseling?
 15 A. I am a member of the Society of Adolescent
 16 Health and Medicine. It's the largest
 17 international organization of Adolescent Medicine
 18 specialists. I have professional relationships
 19 with many people who have obtained subspecialized
 20 training in this field. We communicate at
 21 conferences via Listserv. I have coauthored
 22 articles with other people in the field. And I
 23 have had discussions with these people who I
 24 consider to be colleagues from other institutions
 25 about their practices and about the nature of such

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1 conversations. And further, I have read sections
 2 in the clinical practice guidelines, both from the
 3 Endocrine Society and WPATH, that discuss this.
 4 Q. You wrote that "Physicians carefully counsel
 5 patients about the possibility of impairments to
 6 fertility."
 7 In your view, is it important that
 8 physicians carefully counsel patients about that
 9 topic?
 10 A. Since it is an anticipated impact of some
 11 gender-affirming medical treatments, I do.
 12 Q. And do you consider the potential loss of
 13 fertility to be an important impact on
 14 individuals?
 15 A. I believe that all individuals should
 16 consider its relative importance to them.
 17 Q. Do you have any knowledge as to whether
 18 undesired infertility in adults is recognized to
 19 be highly distressing to many individuals?
 20 A. It's not something that I have any clinical
 21 experience in.
 22 Q. Do you have any knowledge as to whether
 23 undesired infertility in adults is associated with
 24 mental health issues in the affected adults?
 25 A. Again, not something that I have experience

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1 with professionally.
 2 Q. Do you have an understanding as to whether
 3 sterilization without Informed Consent is
 4 internationally recognized to be a serious
 5 violation of human rights?
 6 A. I am familiar with that.
 7 Q. Do you believe that to be the case?
 8 A. I do.
 9 Q. And do you have an understanding that
 10 ethical principles preclude parents from giving
 11 consent to the sterilization of their children
 12 except to avoid imminent risk of death?
 13 A. "Sterilization" is a broad term. If you
 14 could be more specific by what you mean about it,
 15 I could answer your question more specifically.
 16 Q. In what way is "sterilization" a broad term?
 17 Is that unclear to you?
 18 A. Yes, it is.
 19 Q. Tell me in what respect it's broad.
 20 A. In many respects.
 21 Q. Well, by "sterilization," I mean loss of the
 22 ability to conceive or father children.
 23 A. So you're describing infertility.
 24 Sterilization is something I understand not to be
 25 the same as infertility.

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1 Q. But you understand sterilization to perform
 2 an action on somebody that causes them to become
 3 infertile, correct?
 4 A. I would understand that as an action that
 5 causes somebody to -- that renders somebody
 6 infertile with the intent of rendering them
 7 infertile.
 8 Q. Do you recognize that ethical principles
 9 preclude parents from giving consent to procedures
 10 that will sterilize their children, except to
 11 avoid imminent risk of death?
 12 MS. LEVI: Object as to form.
 13 A. I am not familiar with that principle as
 14 you've described it. I know of cases in the
 15 literature that would potentially contradict that
 16 point you just raised.
 17 Q. Would you yourself consider a risk that a
 18 certain treatment would reduce an individual's
 19 lifetime likelihood of being able to become a
 20 parent through natural conception, to be a serious
 21 adverse impact?
 22 THE DEPONENT: Can I have the question
 23 back.
 24 (THE REPORTER READ THE RECORD)
 25 MS. LEVI: Object as to form.

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1 A. I don't understand that question.
 2 Q. All right. Would you agree that a critical
 3 aspect of obtaining Informed Consent to any
 4 treatment for gender dysphoria must include
 5 ascertaining whether that adolescent has the
 6 psychological maturity to comprehend the role that
 7 having children may play in that individual's
 8 wholeness and happiness across the years of adult
 9 life?
 10 A. That's a long question. I'd like to hear it
 11 again, please.
 12 (THE REPORTER READ THE RECORD)
 13 A. Could you rephrase your question?
 14 Q. No, I don't think so. You're unable to
 15 answer it?
 16 THE DEPONENT: Maybe I need to hear it
 17 again. It's very long. I apologize.
 18 (THE REPORTER READ THE RECORD)
 19 THE DEPONENT: Okay, thank you. I
 20 appreciate your patience.
 21 A. So what you're describing, and based off of
 22 my professional experiences which I described when
 23 you first pulled up my Declaration, is a
 24 conversation that happens over time with mental
 25 health providers who are skilled in the area of

<p style="text-align: right;">Page 122</p> <p>1 gender diversity and patients and parents, as they 2 consider treatments for gender-affirming care. 3 I bring this up to say that what you're 4 describing is part of the decisionmaking process, 5 to the best of my knowledge. 6 Q. And putting aside how that analysis is done, 7 which I'll come back to, you would agree that in 8 order to conclude that you had Informed Consent, 9 you would want some confidence that that 10 adolescent had the psychological maturity to 11 comprehend the role that having children might 12 play in that young person's wholeness and 13 happiness across the years of adult life? 14 A. I would agree -- 15 MS. LEVI: I'm going to object as to 16 form, and then you can answer. 17 A. I would agree that any discussion along 18 those lines should be informed by the best 19 available evidence on the impact of those 20 medications and fertility, and that patients 21 understand all options for family building. 22 Q. That, however, is not what I asked. My 23 question is, do you believe that in order to give 24 Informed Consent, an adolescent, let's say to -- 25 in order to give Informed Consent to let's say</p>	<p style="text-align: right;">Page 124</p> <p>1 Let me -- when it comes to how, let me take 2 you back to your Georgia testimony, which was 3 Exhibit 2. If you could find that, that would be 4 helpful. 5 I won't take more time with that. Pardon 6 me, put that aside. 7 MS. LEVI: It's one o'clock. I'm just 8 checking. 9 MR. BROOKS: One o'clock is a good time. 10 I'm going to move to a new document, so it's a 11 good time to break for lunch. 12 MS. LEVI: That makes sense, okay. 13 (R E C E S S) 14 BY MR. BROOKS: 15 Q. Dr. McNamara, when it comes to evaluating 16 whether a young person has the capacity to give 17 Informed Consent to puberty blockers or cross-sex 18 hormones, you yourself have never been responsible 19 for making that decision, have you? 20 A. I have not. 21 Q. And indeed, that's a decision that, in your 22 view, would be made by a mental health specialist? 23 A. It's a multidisciplinary team. It's not 24 just one person. 25 Q. In the course of deciding whether an</p>
<p style="text-align: right;">Page 123</p> <p>1 cross-sex hormones, the treating physician or team 2 needs to conclude that that adolescent has the 3 psychological maturity to comprehend the role that 4 having children may play in that young person's 5 wholeness and happiness across the years of adult 6 life? 7 MS. LEVI: And I'm going to object as to 8 form, and you can answer. 9 A. And perhaps to clarify my answer, the best 10 available evidence on the likelihood of that 11 medication impacting that outcome as you described 12 it, should guide that conversation. 13 Q. You're unable to answer the question as to 14 whether, as part of an Informed Consent process, 15 it's important to ascertain that the young person 16 has the psychological maturity to comprehend the 17 role that having children might have in the 18 wholeness and happiness of that individual's adult 19 life? 20 MS. LEVI: Going to object as to form. 21 I think you've asked her at least three times. 22 MR. BROOKS: Maybe if I ask four, I'll 23 get an answer. 24 A. I don't have an different answer for you. 25 Q. That will play an interesting way at trial.</p>	<p style="text-align: right;">Page 125</p> <p>1 adolescent has the capacity to give informed 2 consent, whether it's to puberty blockers or 3 cross-sex hormones, have you yourself been an 4 active participant in that decision process? 5 A. No, I have not. 6 Q. Okay. Do you consider yourself to have the 7 expertise necessary to make that determination? 8 A. No, I do not. 9 MR. BROOKS: Let me mark as Exhibit 14, 10 selected chapters from the WPATH SOC-8. 11 (DEFENDANT'S EXHIBIT 14 FOR 12 IDENTIFICATION, Received and Marked.) 13 Q. And included in here, I believe, at least 14 Chapter 6 -- I've got the Table of Contents in 15 front of me, and turning to C, and I've got here 16 the "Adolescent" Chapter 6, "Children" Chapter 7. 17 And there may be other chapters in here, but I did 18 not include the whole of that document. 19 Let me ask you in here to turn to page 57. 20 And for some reason they're all labeled an S 21 before the number, so S57. 22 Is the WPATH SOC-8 a document that you have 23 studied with some care? 24 A. Yes, it is. 25 Q. You have page 57 in the second column, there</p>

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1 is a paragraph that begins "Currently, there are
 2 only preliminary results." Do you see that
 3 paragraph?
 4 A. (Affirmative nod.)
 5 Q. The authors of SOC-8 write in that
 6 paragraph, "It is important not to make
 7 assumptions" -- let back up to give us a little
 8 context.
 9 This is comment under Statement 6.10, which
 10 speaks to providing information about topics,
 11 including the potential loss of fertility to minor
 12 patients. Do you see that?
 13 A. I do.
 14 Q. I'm not reading the whole thing, but I'm
 15 trying to keep it at a high level.
 16 And on the paragraph that I directed you to
 17 in the second column, it reads "Currently, there
 18 are only preliminary results from retrospective
 19 studies evaluating transgender adults and the
 20 decisions they made when they were young regarding
 21 the consequences of medical-affirming treatment on
 22 reproductive capacity.
 23 SOC-8 goes on to say "It is important not to
 24 make assumptions about what future adult goals an
 25 adolescent may have."

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1 And they go on to note that "Research in
 2 childhood cancer survivors found participants who
 3 acknowledged missed opportunities for fertility
 4 preservation reported distress and regrets
 5 surrounding potential infertility."
 6 And finally, the last sentence of that
 7 paragraph reads, "Furthermore, individuals with
 8 cancer who did not prioritize having biological
 9 children before treatment have reported changing
 10 their minds in survivorship."
 11 Now, SOC-8 advises that it is "important not
 12 to make assumptions" that what an adolescent
 13 thinks today about their interest in having
 14 children necessarily reflects what they will feel
 15 in later years as an adult.
 16 Is that your understanding of this
 17 paragraph?
 18 A. That's a fair summary.
 19 Q. Okay. And do you agree that it's important
 20 not to make that assumption?
 21 A. I do.
 22 Q. And the SOC-8 in this paragraph goes on to
 23 cite a collateral example of young people who
 24 faced cancer treatment decisions when they were
 25 young and thought they didn't care about

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1 preserving the ability to have biological
 2 children, and later changed their minds and
 3 regretted not being able to.
 4 Is that also a fair summary of what they
 5 tell us there?
 6 A. Yes, that is.
 7 Q. As a clinician, does it surprise you to see
 8 evidence that what adolescents think about their
 9 desire to have children in the future may be quite
 10 different than what they actually desire when
 11 they're adults?
 12 A. I am not surprised by that.
 13 Q. Why is that?
 14 A. Because it's not new information to me.
 15 Q. What information did you have that led you
 16 to understand already, apart from what SOC-8 tells
 17 you, that what young people think about their
 18 future desire to have children may be quite
 19 different than their actual desire once they're
 20 adults?
 21 A. So I took your initial question to not be
 22 explicitly pertinent to fertility and family
 23 planning.
 24 Q. So your point was more generally that what
 25 adolescents think can be quite different from what

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1 they think or want when they have matured into
 2 adults?
 3 A. My point is that it's highly individually
 4 dependent.
 5 Q. Do you have any view as to whether, if it is
 6 individually dependent, it's possible to know
 7 whether a specific adolescent is likely to
 8 continue -- strike it. It's too complicated.
 9 Do you know of any studies as to
 10 specifically whether individuals who have
 11 expressed a lack of interest in fertility
 12 preservation when making treatment choices for
 13 gender dysphoria as adolescents, change their
 14 minds on their desire to have children in their
 15 adult years?
 16 A. That area of the literature is not something
 17 that I have gone in depth on in preparation of my
 18 report for this case.
 19 Q. Is it something that you've discussed with
 20 peers and colleagues?
 21 A. I don't believe so.
 22 Q. Let me ask you a question.
 23 MR. BROOKS: I'm going to ask a question
 24 based upon Dr. Ladinsky's deposition transcript in
 25 this case. I don't think it's technically

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1 essential that I mark it as an exhibit. Do you
 2 have a preference as to whether I do or not?
 3 MS. LEVI: It would be easier to have it
 4 marked.
 5 MR. BROOKS: Okay.
 6 MS. LEVI: But is it just a volume issue
 7 that you're asking about?
 8 MR. BROOKS: Yeah, it doesn't matter
 9 much today as it used to since things turned
 10 electronic. I will mark as Exhibit 15, deposition
 11 transcript of Morissa Ladinsky from April 12th of
 12 2023.
 13 (DEFENDANT'S EXHIBIT 15 FOR
 14 IDENTIFICATION, Received and Marked.)
 15 A. May I set aside the Georgia transcript?
 16 Q. Yes, I think you can.
 17 I am guessing, Dr. McNamara, that you have
 18 not seen this transcript. I'm not going to ask
 19 you to look at much of it. Am I right, have you
 20 had a chance to read this before?
 21 A. I have seen it.
 22 Q. Oh, all right. Then let me ask you to turn
 23 to page 250.
 24 A. All right.
 25 Q. And for context, if you look at the previous

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1 pages, you will see that page 248 mentioned the
 2 Rafferty paper, Exhibit 25, which is the -- are
 3 you familiar with a paper authored by Dr. Rafferty
 4 on behalf of the American Academy of
 5 Pediatricians?
 6 A. Yes.
 7 Q. Okay. The questioning was against the
 8 background of that.
 9 Page 250, I asked Dr. Ladinsky, page 250,
 10 line 4, "That is, you don't disagree with the
 11 statement that the effects of sustained puberty
 12 suppression on fertility is unknown?"
 13 And Dr. Ladinsky answered "I agree with that
 14 statement." And went on to say "The question is,
 15 what does sustained mean." Do you see that
 16 testimony?
 17 A. I do.
 18 Q. Do you also agree with the statement that
 19 the effects of prolonged puberty suppression --
 20 pardon me.
 21 Do you also agree with the statement that
 22 the effects of sustained puberty suppression on
 23 fertility is unknown as of today?
 24 A. I have a similar question as Dr. Ladinsky
 25 did, which would be the definition of the term

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1 "sustained" as it's intended here.
 2 Q. Well, let's see if we can find that by
 3 reference to WPATH standards of care. Those
 4 standards of care advocate beginning puberty
 5 blockade for suitable young people at Tanner Stage
 6 2; am I correct?
 7 A. We would need to refer to the specific
 8 language for me to --
 9 Q. You don't know the answer to that?
 10 A. I don't have them memorized. So from
 11 memory, I could neither disagree or agree. But we
 12 could refer to them.
 13 Q. We could, but it would take time. And
 14 Tanner Stage 2 occurs on average at what age among
 15 girls?
 16 A. It's highly dependent on the individual,
 17 their nutritional status, race, ethnicity.
 18 Q. Well, let's take --
 19 A. 9 to 11.
 20 Q. 9 to 11, fair enough. And according to the
 21 protocols that you're familiar with, for a child
 22 who's put on puberty blockers and then ultimately
 23 proceeds to cross-sex hormones, at what stage does
 24 one cease administering puberty blockers to that
 25 adolescent?

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1 A. I don't make those treatment decisions, and
 2 I'm not involved in that care at that level. I'm
 3 not sure I could answer your question.
 4 Q. You just don't have any knowledge on that as
 5 you sit here today?
 6 A. I'd like to give you an informed and
 7 accurate answer, and I don't have clinical
 8 experience to support a response. You're asking
 9 about a stage. I also don't know what you mean by
 10 "stage."
 11 Q. Would you agree, disagree, or consider it
 12 outside your knowledge, that the effects of
 13 puberty suppression for three or more years on a
 14 child, on an adolescent, on fertility, is unknown?
 15 A. It's outside the realm of my expertise, I
 16 have no source data on that.
 17 Q. Let's find the Endocrine Society Guidelines
 18 for 2017, Exhibit 6. And you can put that aside
 19 and we will not return to it.
 20 A. Okay.
 21 Q. Can I ask you to find Exhibit 6, Endocrine
 22 Society Guidelines.
 23 MS. LEVI: Yes.
 24 Q. And there, let me ask you to turn to page
 25 3880.

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1 A. Mm-hmm.
 2 Q. And if you go to the first full paragraph,
 3 it begins "In girls." Do you see that paragraph?
 4 A. I do.
 5 Q. And it reads there that "Clinicians should
 6 inform adolescents that no data are available
 7 regarding either the time to spontaneous ovulation
 8 after cessation of puberty blockers, or the
 9 response to ovulation induction following
 10 prolonged gonadotropin suppression." Do you see
 11 that?
 12 A. I do.
 13 Q. And am I correct that gonadotropin
 14 suppression is also a reference to puberty
 15 blockade?
 16 A. That's correct.
 17 Q. Same thing as GnRH, functionally?
 18 A. Gonadotropin releasing hormones stimulates
 19 the secretion of FSH and LH, and those two
 20 hormones are known as gonadotropins.
 21 Q. You understand the reference to GnRH analogs
 22 to be referring to the same thing as gonadotropin
 23 suppression, correct?
 24 A. GnRH analogs are used to achieve
 25 gonadotropin suppression.

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1 Q. Thank you. I don't know why they chose
 2 different terms there, I couldn't say.
 3 Does it remain true, so far as you know,
 4 that there is no data available regarding the
 5 timing of resumption of ovulation after prolonged
 6 gonadotropin suppression?
 7 A. I am, at this time, as I sit here today,
 8 unaware if there are any other studies on that
 9 topic that have been published in the seven or so
 10 years since these guidelines were issued.
 11 Q. And in fact, you're not aware of any study
 12 that's been published up to the present that
 13 provides data on whether the population of natal
 14 females who are subjected to prolonged
 15 gonadotropin suppression will ever achieve healthy
 16 levels of fertility, are you?
 17 A. It's not a topic that I have endeavored to
 18 do a thorough literature search on.
 19 Q. Would you agree that the answer to that
 20 question is something that a reasonable clinician,
 21 a reasonable parent, and a reasonable health
 22 policy expert, would want to know and consider
 23 when deciding when or whether it's appropriate to
 24 administer puberty blockers to children as a
 25 treatment for gender dysphoria?

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1 A. I would say to that, that it's important to
 2 know whether or not there is sufficient evidence
 3 to answer that question, and to consider the
 4 presence or absence of that sufficient evidence,
 5 if it exists, in the context of other knowns,
 6 including risks and benefits of this treatment.
 7 In short, it's not the only thing that should be
 8 considered.
 9 Q. Fair enough. Are you able to identify any
 10 medical organization that has asserted that the
 11 administration of puberty blockers as a treatment
 12 for gender dysphoria is fully reversible with
 13 respect to its impact on that child's fertility?
 14 THE DEPONENT: Can I have the question
 15 back?
 16 (THE REPORTER READ THE RECORD)
 17 A. I don't have medical statements memorized.
 18 And off the top of my head, I'm unsure.
 19 Q. And are you able to direct me towards any
 20 original research paper in a peer-reviewed journal
 21 that asserts a conclusion that the effects of
 22 puberty blockers administered as a treatment for
 23 gender dysphoria are fully reversible with respect
 24 to the impact on that child's future fertility?
 25 A. I am aware of numerous studies showing

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1 resumption of menses, resumption of ovulation,
 2 resumption of spermatogenesis in individuals who
 3 receive puberty-blocking medications and then stop
 4 receiving them.
 5 Q. Are you aware of a single study in which the
 6 authors state the conclusion that their data
 7 suggests that the effect of puberty blockers
 8 administered as a treatment for gender dysphoria
 9 adolescents is fully reversible with respect to
 10 the impact on that child's fertility?
 11 A. Over what time course?
 12 Q. Ever.
 13 A. I'm not aware of any research study that has
 14 followed such individuals for decades at a time.
 15 Q. Are you aware of any research of study that
 16 asserts, as a conclusion of the authors, that the
 17 effect of puberty blockers on -- administered as a
 18 treatment for gender dysphoria adolescents, is
 19 fully reversible with respect to the impact on
 20 that child's fertility?
 21 A. I think I have answered your question.
 22 Q. I think not.
 23 MR. BROOKS: Let me ask you to read it
 24 back.
 25 (THE REPORTER READ THE RECORD)

<p style="text-align: right;">Page 138</p> <p>1 A. I suppose the question that you're posing is 2 a research question that's incredibly broad and 3 could, as it's presented, span the duration of 4 one's life. And I have not seen any such study. 5 Q. With respect to cross-sex hormones 6 administered to adolescents, would you agree with 7 me that it is widely accepted that sustained 8 exposure to cross-sex hormones may permanently 9 damage a young person's fertility? 10 MS. LEVI: Object as to form. 11 A. I'd need you to be more specific about the 12 term "sustained," and also by what you mean with 13 the phrase "permanent damage." 14 Q. Do you have any understanding about what age 15 congenital cross-sex hormones are commenced for an 16 adolescent as a treatment for gender dysphoria? 17 A. There is no specific chronologic age. It 18 would be a possibility for an adolescent who meets 19 diagnostic criteria, has a consenting parent or 20 guardian, consents to a treatment, and has 21 completed puberty. 22 Q. To your knowledge, based on your reading of 23 the literature and discussion with colleagues, is 24 there a kind of an average age at which cross-sex 25 hormones are started for patients who have begun</p>	<p style="text-align: right;">Page 140</p> <p>1 Two-thirds of the way down, the last in the 2 second series of bullets, says "I know that this 3 treatment may, but is not assured to make me 4 permanently unable to make a woman pregnant." Do 5 you see that? 6 A. No. 7 Q. No? On page 3, there are three sets of 8 bullet points. 9 A. Correct. 10 Q. The last of the second set -- 11 A. I see it now, thank you. 12 Q. -- reads as I have said. And the major 13 heading on the previous page here is "Effects of 14 Feminizing Medications." 15 So these are bullets relevant to a natal 16 male. University of Alabama Birmingham Gender 17 Clinic is telling those natal male patients that 18 hormonal cross-sex treatment may, but is not 19 assured to make me permanently unable to make a 20 woman pregnant. Do you see that? 21 A. I do. 22 Q. And do you consider that to be a deceptive 23 claim about risk? 24 A. I do not. 25 Q. Why is that?</p>
<p style="text-align: right;">Page 139</p> <p>1 to be seen by a clinic from an early -- you know, 2 from a younger age, just an average start time? 3 A. I couldn't commit to an average chronologic 4 age. Highly dependent. 5 Q. Is it highly -- is it commonly begun by, for 6 instance, age 14? 7 A. I could not answer that. 8 MR. BROOKS: Let me have tab 16 and ask 9 the reporter to mark as Exhibit 16, a collection 10 of Informed Consent forms in the University of 11 Alabama Birmingham Pediatric Endocrinology Gender 12 Health Team. 13 (DEFENDANT'S EXHIBIT 16 FOR 14 IDENTIFICATION, Received and Marked.) 15 Q. Is this a document you have seen before? 16 A. No, I have never seen this. 17 Q. The only -- well, let me ask you to -- I 18 will represent to you, based on Dr. Ladinsky's 19 testimony, that this is -- or these are, I think 20 there's a version here for -- this is a form that 21 they use in their Informed Consent process before 22 prescribing cross-sex hormones for minors. 23 Let me ask you to turn to page 3. And look 24 at those numbers in the lower left-hand corner, as 25 well as at the top, that match.</p>	<p style="text-align: right;">Page 141</p> <p>1 A. The statement reads the caveat of "may, but 2 is not assured to." But importantly, I have not 3 done an in-depth analysis on the literature on 4 fertility to be able to render an expert opinion 5 on this statement as it appears in the Informed 6 Consent forms. 7 Q. Let's turn to page 10, according to the 8 numbers in the upper right-hand, in the upper -- 9 the fax numbers, essentially -- the production 10 numbers, I should say, across the top, since 11 there's multiple paginations in the document. You 12 see page 10 of 14 at the top? 13 A. I do. 14 Q. And here, we're in a heading that relates to 15 masculinizing treatments. And it begins 16 immediately to talk about testosterone. 17 Do you even understand that to be referring 18 to cross-sex hormones that would be administered 19 to a natal female; correct? 20 A. That's correct. 21 Q. And the University of Alabama Birmingham 22 tells its patients two-thirds of the way down the 23 page "I know that the effect of testosterone on 24 fertility are unknown. I have been told that I 25 may or may not be able to get pregnant even if I</p>

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1 stop taking testosterone." Do you see that?
 2 A. I do.
 3 Q. And do you believe that in telling its natal
 4 female patients that testosterone may or may not
 5 make them permanently unable to get pregnant, the
 6 university of Alabama Birmingham is engaging in
 7 scare tactics?
 8 A. This reads, to me, like a careful and
 9 measured way to inform a patient about knowns,
 10 unknowns, and potential risks.
 11 Q. You don't consider it to be a deceptive
 12 description of the risk?
 13 A. To agree with that, I would have to know the
 14 intent of the authors of this document. And I do
 15 not, so I can't offer an opinion on that either
 16 way.
 17 Q. Do you believe it to be a false description
 18 of the risks?
 19 A. Given my general knowledge of the
 20 literature, reading this with the potential of
 21 "may or may not" described, might still get
 22 pregnant, should know about birth control options,
 23 and informing a patient a pregnancy would preclude
 24 a receipt of testosterone therapy, I view this as
 25 a thoughtful, measured way to inform patients.

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1 Q. And in fact, you know it to be the case, do
 2 you not, that it's known that exposure to high
 3 levels of testosterone, for instance normal male
 4 ranges, damages ovaries?
 5 MS. LEVI: Object as to form.
 6 A. I don't know what is meant by "damage."
 7 Q. Reduces their ability to produce viable
 8 eggs.
 9 A. While in use, or while in one's system,
 10 either because it's endogenously produced or
 11 exogenously received, testosterone suppresses
 12 ovulation to varying degrees.
 13 Q. And whether testosterone permanently damages
 14 the ability of ovaries -- pardon me, whether
 15 prolonged exposure to high levels of testosterone
 16 permanently damages the ability of ovaries to
 17 produce viable healthy eggs, that, you don't know?
 18 A. That would not be an appropriate question
 19 for me because it's not my area of expertise.
 20 Q. All right. Go to the SOC-8 tab again,
 21 Exhibit 14. And I'll ask you to turn to page 157.
 22 A. See if I can find it.
 23 Q. Towards the very bottom of the second
 24 column --
 25 A. 157.

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1 Q. 157.
 2 A. The very bottom of the second column, okay.
 3 Q. There is a sentence, an inch or little more
 4 up, it begins "However, there have been." Do you
 5 see that?
 6 A. Yes.
 7 Q. Let me read that into the record.
 8 In SOC-8 of 2022, WPATH states "There have
 9 been no prospective studies to date evaluating the
 10 effect of long-term hormone therapy on fertility,
 11 i.e. started in adolescence, or in those treated
 12 with puberty blockers in early puberty followed by
 13 testosterone therapy." Do you see that?
 14 A. Mm-hmm.
 15 Q. Do you think you understand that statement
 16 by WPATH?
 17 A. Yes, I do.
 18 Q. Am I correct that you also are not aware of
 19 any prospective studies up to the present
 20 evaluating the effect of either long-term hormone
 21 therapy, or puberty blockers on fertility?
 22 A. Not with great certainty, no.
 23 Q. If you look at the next page, column one,
 24 seven-eighths of the way down, inch and half from
 25 the bottom, is a sentence that begins

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1 "Spermatogenesis might resume." Do you see that?
 2 A. Mm-hmm.
 3 Q. And that sentence reads "Spermatogenesis
 4 might resume after discontinuation of prolonged
 5 treatment with antiandrogens and estrogens, but
 6 data are limited." Do you see that?
 7 A. Yes.
 8 Q. And so far as the data that's available
 9 today, 2024, am I correct that for you also, the
 10 most you can say is that viable spermatogenesis
 11 might resume after discontinuation of prolonged
 12 treatment with antiandrogens and estrogens, but we
 13 just don't know yet?
 14 MS. LEVI: Object as to form.
 15 A. My opinion on the matter is limited because
 16 I have not done an in-depth analysis of any
 17 literature published on this topic since the
 18 issuance of the 8th Edition of the standards of
 19 care in the fall of 2022.
 20 Q. You don't have any basis as you sit here to
 21 disagree with that statement by WPATH?
 22 A. It would require an in-depth analysis of the
 23 literature for me to agree or disagree that this
 24 sentence still holds. It's been about 18 months.
 25 Q. Yes. Time flies when you're litigating.

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1 Correct me if I'm wrong, but I don't believe
 2 that your Expert Report or your Supplemental
 3 Report contain any assertions that cross-sex
 4 hormones don't permanently sterilize some
 5 percentage of those to whom they are administered
 6 as adolescents; am I correct?
 7 MS. LEVI: Object as to form.
 8 A. We would need to review it in depth to see
 9 if there's any particular line. And I believe I
 10 may have touched on --
 11 Q. Well, then we won't do that, so let me just
 12 ask your opinion as sit here today. As you sit
 13 here today, are you able to offer an expert
 14 opinion that cross-sex hormones administered to
 15 adolescents do not permanently sterilize some
 16 percentage of those adolescents?
 17 THE DEPONENT: Let me have the question
 18 back, please.
 19 (THE REPORTER READ THE RECORD)
 20 THE DEPONENT: One more time, please.
 21 (THE REPORTER READ THE RECORD)
 22 A. I am pausing because I'm aware of the fact
 23 that conception diagnoses can occur in
 24 individuals, including adolescents who are in
 25 receipt of cross-sex hormones.

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1 MR. BROOKS: Why don't you read the
 2 question back again.
 3 (THE REPORTER READ THE RECORD)
 4 A. I am -- sorry about that, excuse me. I am
 5 unable to opine either way. I haven't done the
 6 type of literature search that would be required
 7 to answer that question sufficiently.
 8 Q. All right. In this Exhibit 6 that we looked
 9 at before, you and your coauthors state in column
 10 one of page 2920 -- actually, leaking over from
 11 the previous page, "Conception can occur in TGE
 12 people taking hormones." And just for the record,
 13 can you explain what TGE refers to?
 14 A. Transgender and gender expansive.
 15 Q. And by referring to conception, am I correct
 16 that in this particular sentence here, you're
 17 referring to natal females?
 18 A. Not completely. I am referring to pregnancy
 19 of any kind. A transgender female receiving
 20 estrogen could have sex with and conceive a
 21 pregnancy with --
 22 Q. Okay, all right.
 23 A. -- someone capable of carrying a pregnancy.
 24 Q. Am I correct that all examples of conception
 25 after a period of years of taking cross-sex

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1 hormones, in the case of natal females, involves
 2 females who have gone through full normal female
 3 puberty before beginning cross-sex hormone
 4 treatments?
 5 A. I don't know enough to agree or disagree
 6 with your statement as you stated it.
 7 Q. All right.
 8 MR. BROOKS: Ask the reporter to mark as
 9 Exhibit 17, a paper, the first author Light,
 10 L-I-G-H-T, titled "Transgender Men Who Experience
 11 Pregnancy After Female to Male Gender Transition."
 12 (DEFENDANT'S EXHIBIT 17 FOR
 13 IDENTIFICATION, Received and Marked.)
 14 Q. And Dr. McNamara, am I correct that this is
 15 an article that you cited in your expert report?
 16 A. I believe it IS. I would have to look at
 17 this, footnotes, just to make sure it's the right
 18 one.
 19 Q. If you look at page 14 of 38 of your initial
 20 Expert Report, you can I think check that.
 21 Footnote 38, i think it's the second reference, if
 22 I found it correctly.
 23 A. Great, thank you.
 24 Q. And did you study this article with some
 25 care before citing it?

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1 A. Yes, I did.
 2 Q. You state in the footnote that "The majority
 3 of transgender men" -- that is natal females --
 4 "who had regular menses before starting
 5 testosterone therapy are reported to resume menses
 6 if testosterone is discontinued." Do you see
 7 that?
 8 A. Give me just a second.
 9 MS. LEVI: Are you saying that's in the
 10 Footnote 38?
 11 MR. BROOKS: I think it's actually in
 12 the text. I misstated.
 13 Q. And my question for you is, you're not
 14 offering an opinion, are you, that resumption of
 15 menses is itself sufficient evidence to conclude
 16 that those natal females have recovered healthy
 17 levels of fertility?
 18 MS. LEVI: Object as to form.
 19 A. It would depend on how one considers
 20 "healthy" to be meant.
 21 Q. Well, you're not offering an expert opinion
 22 that the occurrence of menses demonstrates that
 23 that woman has the ability to conceive and bear a
 24 child to term, are you?
 25 A. It is certainly an indicator of the

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1 possibility of one's ability to conceive a
 2 pregnancy.
 3 Q. Necessary, but not sufficient, correct?
 4 A. Correct.
 5 Q. Now, the Light paper, as I understand it,
 6 and looking at page 1121, reports on an online
 7 survey of ultimately 41 natal females who claim to
 8 have self identified as male, and then experienced
 9 a pregnancy sometime within the last 10 years. Is
 10 that --
 11 A. Where are you reading from?
 12 Q. I am summarizing the "Materials and
 13 Methods." Some of that is column one, under
 14 "Materials and Methods."
 15 A. Okay. You're summarizing it a little bit
 16 quickly for me. Would you mind if I take a moment
 17 to read this?
 18 Q. Well, let me just give you some guideposts
 19 and then invite you to.
 20 It refers, in the first column, under
 21 "Materials and Methods," to self identification as
 22 male, pregnancy within the last 10 years. And
 23 under "Results," after explaining certain thinning
 24 out, it says about an inch under the heading
 25 "Results," "41 percent remained for final

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1 analysis." Those are the things I was attempting
 2 to summarize.
 3 A. Okay.
 4 Q. And if I could direct your attention to
 5 Table 2, I will ask you about that specifically.
 6 Table 2 is on page 1123.
 7 A. Okay.
 8 Q. Again, to summarize, I'll represent -- and I
 9 know you have seen the article before, you cited
 10 it -- that some percentage of those who had self
 11 identified as male before being pregnant had never
 12 taken testosterone.
 13 Table 2 gives us information about the 25
 14 among those 41 who had reported that they had used
 15 testosterone before pregnancy. I'll represent
 16 that much.
 17 This tells us that, in the first line of
 18 Table 2, that testosterone was first initiated at
 19 an average age of 25, and at age range between age
 20 17 and 35. Do you understand that as I understand
 21 it?
 22 A. I do.
 23 Q. And you would agree that healthy females
 24 have completed maturation of their reproductive
 25 organs and are fully fertile by age 17?

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1 A. Certainly the vast majority are.
 2 Q. And so all test subjects -- well, these
 3 aren't tests. All subjects reported in the Light
 4 article who said they had taken testosterone
 5 before becoming pregnancy -- before becoming
 6 pregnant, had gone through full reproductive
 7 maturation before disrupting their endogenous
 8 hormones with testosterone; correct?
 9 A. I would need to look to see if the study
 10 confirmed that.
 11 Q. Well, I will also represent to you that the
 12 study confirmed nothing. It's all self-report
 13 data, so make of that what you will.
 14 MS. LEVI: Object as to form, if that
 15 was a question.
 16 MR. BROOKS: It wasn't.
 17 A. Then I don't have a response.
 18 Q. Well, let me ask this question. If it is
 19 the case, that all these subjects as reported in
 20 Table 2 began taking testosterone no earlier than
 21 age 17, then it would also be the case that all of
 22 them had gone through full maturation of their
 23 reproductive organs before disrupting their
 24 endogenous hormones with testosterone; correct?
 25 A. I would agree that the study is highly

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1 likely to capture individuals who have completed
 2 puberty before the initiation of testosterone
 3 blockade. Although I would need to review it
 4 again to determine testosterone -- I misspoke, I'm
 5 sorry.
 6 Individuals who received testosterone. I
 7 think I said testosterone blockade. I would need
 8 to review it in depth to see if it mentioned any
 9 participants had any heterogeneity in that.
 10 Q. So far as you recall, and so far as Table 2
 11 tells us, no subject reported on in the Light
 12 paper began taking testosterone during her years
 13 of adolescence while sexual organs and fertility
 14 were still in the process of development; correct?
 15 A. If I were to see a specific sentence where
 16 they said that, that would be helpful.
 17 Q. Well, the sentence I would point you to is
 18 the one that says "Age when testosterone was
 19 initiated, range 17 to 35." Table 2.
 20 A. I'm just looking at the inclusion and
 21 exclusion criteria.
 22 I don't see anything that says whether or
 23 not participants completed puberty before starting
 24 testosterone. I agree with your general
 25 assumption. If I saw something that specifically

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1 said that in the paper, it would be helpful. But
 2 the paper may not include that.
 3 Q. That is, you agree with my general
 4 assumption that healthy women have completed
 5 puberty by age 17?
 6 A. About 95 percent have, that's a rough
 7 estimate.
 8 Q. Is it not the case that for -- that a natal
 9 female who has not completed puberty by age 17 is
 10 considered to be in an unhealthy condition?
 11 A. It's too general of a term. If somebody
 12 were an athlete, a very high performing athlete,
 13 they may not have menstruated yet. They may have
 14 a family history of late age of menarcheal onset.
 15 Q. So far as you recall, this article, this
 16 study that you cited, does not include any
 17 subjects who reported having been subjected to
 18 puberty blockers to prevent undergoing normal
 19 female puberty; correct?
 20 A. I'm scanning the study to see any mention of
 21 that, and I do not see it was. I will note that I
 22 don't see that included either way. I don't think
 23 we can say with certainty whether or not any of
 24 these 25 patients described in Table 2 have or
 25 have not received puberty-blocking medications.

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1 We might have to ask the authors.
 2 Q. So far as you understand, based on this
 3 article, this article does not report any case of
 4 a woman who was exposed to puberty blockers to
 5 prevent ordinary female puberty, and then treated
 6 with testosterone, subsequently becoming pregnant?
 7 A. I don't see anything in this study to say
 8 yes or no to that question.
 9 Q. You understand this to have been data from
 10 some local clinic, or a nationwide survey?
 11 A. We can refer to the "Materials and Methods."
 12 Q. Yes, I think the first paragraph perhaps
 13 answers that, the last sentence of the first
 14 paragraph.
 15 A. The recruiters participated through a
 16 web-based survey. Participation was not limited
 17 by geographic location.
 18 Q. Might even be wider than nationwide.
 19 A. It might be. I don't see any indication if
 20 that were -- oh, wait. There were six patients in
 21 Table 1 who reported residing outside the United
 22 States.
 23 Q. Well, let me ask this: This web-based
 24 survey identified a total of 25 natal females who
 25 claimed to have experienced pregnancy and

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1 childbirth after undergoing testosterone treatment
 2 for at least some period of time. Is that your
 3 understanding?
 4 A. That's a fair understanding, yes.
 5 Q. And you will agree with me, will you not,
 6 that the results of that survey can tell us
 7 literally nothing about how many women who took
 8 testosterone for a period of their lives, later
 9 wished to but were unable to become pregnant?
 10 MS. LEVI: Object as to form.
 11 A. That is not the study question that this
 12 study sought to evaluate.
 13 Q. So it gives you no information about that,
 14 correct?
 15 A. It doesn't seem like that question was
 16 pertinent to what the authors sought to
 17 investigate.
 18 Q. Well, in short, this article tells us
 19 nothing about how many women, if any, have been
 20 permanently sterilized as a result of taking
 21 testosterone as across-sex hormone in support of a
 22 transgender identity.
 23 MS. LEVI: Object as to form.
 24 A. This would not be the study to source to
 25 look for information pertinent to that question.

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1 Q. All right.
 2 MR. BROOKS: Let's look at Schneider
 3 2017. And let me ask the reporter to mark this as
 4 Exhibit 18.
 5 (DEFENDANT'S EXHIBIT 18 FOR
 6 IDENTIFICATION, Received and Marked.)
 7 Q. Is this also an article that you're familiar
 8 with and cited in your Expert Report?
 9 A. Yes, it is.
 10 Q. And you studied it with some care before
 11 citing it?
 12 A. Yes, I did.
 13 Q. Now, you cited it in your report, which feel
 14 free to reference, if you have that, again, text
 15 associated with Note 39, I believe. Let me find
 16 that.
 17 Yes, text associated with Note 39. You
 18 wrote "Reduced spermatogenesis is common while
 19 patients remain on estrogen, but this occurs in
 20 varying degrees with some maintaining fertility
 21 even while on hormone therapy."
 22 Have I read that language correctly?
 23 A. You read the sentence on the page correctly.
 24 Q. If you turn to page 877 in Schneider, et al,
 25 in the first column, the last paragraph above the

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1 heading "Sex Reassignment Surgery," begins "In
 2 children treated with GnRH agonists." You see
 3 that paragraph?
 4 A. Not yet.
 5 Oh, I see it, I'm sorry.
 6 Q. Immediately above that heading. In that
 7 paragraph, they use a lot of big words and fancy
 8 terms. And then they conclude in the last
 9 sentence, "Hence, suppressing gonadotropins early
 10 in the development might hinder the preparation of
 11 the adult testis."
 12 And did you believe you understood that
 13 sentence when you read this article before you
 14 cited it?
 15 A. I'm not sure I can go back into that
 16 specific point in time.
 17 Q. Do you think you understand it today?
 18 A. I do understand it today.
 19 Q. All right. What do you understand by "the
 20 preparation of the adult testis"?
 21 A. They're describing who Rhesus monkeys in
 22 Plant, et al, 2005, postnatal and pubertal
 23 developments of a Rhesus monkey. So potentially,
 24 that refers to one Rhesus monkey.
 25 In that study, the investigator noted that

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1 the density and shape of testicular cells was
 2 dependent on gonadotropins. And thus, a
 3 downstream-related phenomena would be the
 4 secretion of testosterone.
 5 The authors of this study that we're
 6 reviewing now stated that suppressing
 7 gonadotropins early in development would
 8 hinder -- or excuse me, might hinder the
 9 preparation of the adult testis.
 10 Q. And what do you mean, what do you understand
 11 "preparation of the adult testis" to refer to?
 12 A. I would assume that it means something akin
 13 to maturation.
 14 Q. And do you agree, disagree, or consider to
 15 be outside your expertise, to say that the
 16 evidence cited by the Schneider, et al authors
 17 suggests that suppressing the gonadotropins early
 18 in development, which is what puberty blockers do,
 19 might hinder the healthy formation of the adult
 20 testis?
 21 A. Because I did not cite this paper outside
 22 the context of the relationship between estrogen
 23 and spermatogenesis, I do not have an opinion on
 24 your question.
 25 Q. Let me ask you to turn to page 878. And in

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1 the first column, two inches from the bottom, in a
 2 paragraph that begins "Before starting CHT," the
 3 third sentence reads "The desire to reproduce and
 4 raise children is an inadequately studied field in
 5 transsexual persons." Do you see that language?
 6 A. I do.
 7 Q. And do you agree or disagree with these
 8 authors' conclusion that the desire to reproduce
 9 and raise children has been inadequately studied
 10 among transsexual persons?
 11 A. I am loosely aware that there has been
 12 subsequent research in the seven years since the
 13 publication of this paper.
 14 Q. And when it comes to the desire of
 15 transsexual individuals to reproduce and raise
 16 children, what research since this time do you
 17 have in mind?
 18 A. As I said, I'm loosely aware and I did not
 19 do an in-depth analysis of that particular
 20 question in preparing my Expert Report for this
 21 case.
 22 Q. As you sit here today, you don't recall any
 23 particular paper?
 24 A. None off the top of my head.
 25 Q. Do you know whether -- and let's, again, to

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1 be clear, the Schneider, et al cited in your
 2 Expert Report is a review article, not an original
 3 research article; correct?
 4 A. Correct.
 5 Q. So it says. And Schneider discusses and
 6 cites a number of different research articles;
 7 correct?
 8 A. That is correct.
 9 Q. In fact, he has listed on Table 1 on page
 10 876, right?
 11 A. There are 11 studies listed under Table 1 on
 12 that page.
 13 Q. And so far as you recall, none of those
 14 studies involved males who were subject to puberty
 15 blockers to prevent full natural pubertal
 16 development prior to cross-sex hormones, correct?
 17 A. Not that I'm aware of.
 18 MR. BROOKS: Let me ask the reporter to
 19 mark as Exhibit 19, a paper from 2021, lead author
 20 de Nie, D -- well, you'll see it -- entitled
 21 "Histological Study on the Influence of Puberty
 22 Suppression and Hormonal Treatment on Developing
 23 Germ Cells in Transgender Women."
 24 (DEFENDANT'S EXHIBIT 19 FOR
 25 IDENTIFICATION, Received and Marked.)

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1 Q. And Dr. McNamara, this is an article also
 2 that you cited in your Expert Report and studied
 3 before you cited, am I correct?
 4 A. Yes, I'm just trying to find where -- oh,
 5 yes, here we are.
 6 Q. 15, page 15, cited in Footnote 41, I
 7 believe.
 8 Now, you wrote in your report that "In a
 9 cohort of patients treated with puberty blockers
 10 starting at the onset of pubertal development,
 11 Tanner Stages 2 and 3, and adding estrogen
 12 treatment starting at 16 years of age,
 13 histological examination of testicles showed
 14 normal-appearing, immature sperm-producing cells
 15 in the testes, suggesting those individuals had
 16 retained fertility potential."
 17 Do you see that language in your report?
 18 A. Yes.
 19 Q. And you've described the subjects here, they
 20 began puberty blockers at Tanner Stages 2 or 3,
 21 and added cross-sex estrogen at age 16; correct?
 22 I'm summarizing what you wrote in your
 23 report.
 24 A. You're summarizing what I wrote in my report
 25 correctly.

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1 Q. And to your understanding, is that a fairly
 2 standard sequence in terms of when puberty
 3 blockers are begun for natal males and when
 4 estrogen cross-sex hormones are commenced?
 5 A. Could I have the quote back?
 6 Q. Yes. In your understanding, does that
 7 sequence that you've described there reflect a
 8 fairly standard timing of the commencement of
 9 puberty blockers and the timing of adding
 10 cross-sex estrogen treatment for natal males?
 11 A. I'm pausing because I'm not aware of any
 12 study or national repository of data that
 13 describes typical ages of onset because it's so
 14 highly individualized.
 15 Q. Just that --
 16 A. All --
 17 Q. I'm sorry?
 18 A. It depends on when patients present to care,
 19 and what their goals of care are and how the
 20 assessments go.
 21 Q. Does that sequence for that timing
 22 correspond with what you have heard described as
 23 the Dutch protocol?
 24 A. The only difference is that the Dutch
 25 protocol has an age at which -- a chronological

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1 age at which they consider pubertal blockade. And
 2 this is based on pubertal stage.
 3 Q. Well, at any rate, it's done by a bunch of
 4 Dutch people, but we'll move on from that.
 5 A. All right.
 6 Q. Just looking at the abstract study design,
 7 we have 214 male-to-female subjects, all of whom
 8 are adults at the time of the study; correct?
 9 A. I see 214 transgender women included in the
 10 final study cohort.
 11 Q. And the procedure here, all of these are
 12 individuals who have undergone surgery as adults,
 13 and the experimental process after castration, the
 14 testes are examined for the presence or absence of
 15 sperm cells at various stages of maturity;
 16 correct?
 17 I think the first sentence of the study
 18 design, trying to summarize.
 19 A. Of course, I appreciate it. I just need a
 20 moment.
 21 Yes, that's correct.
 22 Q. And if we turn to page 301, Figure 1, let me
 23 see if I can parse this out.
 24 I'm sorry, not Figure 1.
 25 301, column two, it reports that 4.7 percent

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1 of these natal males who had been subjected to
 2 puberty blockers followed by cross-sex hormones,
 3 4.7 percent contained some apparently full mature
 4 sperm; correct?
 5 A. The sentence reads, "In 10 transgender women
 6 (4.7 percent) some seminiferous tubules contained
 7 full spermatogenesis, all of whom had initiated
 8 medical treatment in Tanner Stage 4 or higher."
 9 Q. And let me ask, do you understand full
 10 spermatogenesis to mean the development of, at
 11 least by visual inspection, fully mature sperm
 12 cells?
 13 A. That's what I would take that to mean.
 14 Q. Okay. So in 95 percent of the subjects who
 15 had been subjected to puberty blockers followed by
 16 cross-sex hormones, no mature sperm cells were
 17 found in the testicles, correct?
 18 A. I'm not sure that's what this means.
 19 Q. Why are you not sure that's what that means?
 20 A. Unless I would see that stated specifically,
 21 I don't think I can agree with that statement.
 22 Q. Among those in whom any mature sperm cells
 23 were found, all of those subjects had not begun
 24 puberty blockade until Tanner Stage 4 or higher,
 25 so the authors tell us; correct?

<p style="text-align: right;">Page 166</p> <p>1 A. Say that again. 2 Q. Among those subjects in whom any mature 3 sperm cells were found in their testes, none of 4 them had begun puberty blockade earlier than 5 Tanner Stage 4; correct? 6 A. Just give me a second. 7 Q. I'll call your attention to lines that you 8 read into the record where it says, column two, 9 page 301, referring to those in whom some mature 10 sperm cells were found, "all of whom had initiated 11 medical treatment in Tanner Stage 4 or higher." 12 Do you recall that language? 13 A. This is just quite a detailed study. I'm 14 wrapping my mind around it again. 15 Okay, your question back? 16 Q. In cases involved, that in those 4.7 percent 17 of subjects in whom at least some mature sperm 18 cells were found in their testes, none of those 19 had commenced puberty blockade earlier than Tanner 20 Stage 4, according to these authors. 21 A. Okay. Okay, I would agree with that. 22 Q. And having had more time to study the text 23 and Table 2, would you agree with me also that in 24 95 percent of the subjects who had been subjected 25 to puberty blockade and then cross-sex hormones,</p>	<p style="text-align: right;">Page 168</p> <p>1 spermatocytes and spermatogonia. 2 Q. Now, according to these authors, is it your 3 understanding that having only spermatocytes or 4 spermatogonia is effective in fertility, at least 5 on present technology? 6 I call your attention to page 306, first 7 full sentence at the top of the first column. 8 A. Could you just give me just one second 9 before I look there? 10 Q. Of course. 11 A. Okay, take me to where... 12 Q. Let me take you first to page 298. And 13 there, still in the abstract, right at the very 14 end of the abstract, it reads, "If maturation 15 techniques like in vitro spermatogenesis become 16 available in the future," and then it continues. 17 Do you see that? 18 A. Yes. 19 Q. To your knowledge, at present, there are no 20 technologies available to take spermatocytes or 21 spermatogonia and progress them to viable sperm 22 cells? 23 A. I don't know if, in the three years since 24 the publication of this paper, that's been 25 developed.</p>
<p style="text-align: right;">Page 167</p> <p>1 95 percent of those subjects had no mature sperm 2 cells found in their testes? 3 A. Your question one more time, please. 4 Q. It's the case, is it not, that of the 4.7 5 percent of the subjects in whom at least some 6 fertile sperm cells were found in their testes, 7 none of them had commenced puberty blockers at a 8 stage prior to Tanner Stage 4. 9 MS. LEVI: Object as to form. 10 Q. And my real question is, isn't that what you 11 understand the authors to tell us on page 301 in 12 column two, in the language you previously read 13 into the record? 14 A. So no -- if we're -- so if we're referring 15 to mature sperm cells, that is correct. No 16 other -- no other participants showed histologic 17 signs of mature sperm cells. 18 Q. And in fact, zero percent of the subjects 19 who commenced puberty blockade at Tanner Stage 2 20 or 3, as recommended in the WPATH standards of 21 care, showed signs of any mature sperm cells in 22 their testes; correct? 23 A. Among the 29 participants in this study, 24 none of them developed or had histological signs 25 of spermatozoa, and some had histological signs of</p>	<p style="text-align: right;">Page 169</p> <p>1 Q. These authors say at the top of page 306, 2 "Although these techniques are successful in 3 animal models, they are still experimental and far 4 from the clinical realm." Do you see that 5 language? 6 A. Yes, cited in a 2020 paper by Pelzman, et 7 al. 8 Q. And as you sit here today, you don't have 9 any basis to disagree that technology to take 10 spermatocytes or spermatogonia and achieve mature, 11 viable sperm cells remains "from the clinical 12 realm." Correct? 13 A. I don't know of anything, no. 14 Q. Okay. And the net result of that is that 15 according to de Nie, et al, some 95 percent of 16 their subjects who had been subjected to puberty 17 blockers and cross-sex hormones were infertile at 18 the time of their study; correct? 19 MS. LEVI: Object as to form. 20 A. I don't know that this study is able to 21 comment on anything beyond the testicular 22 histology that was sampled. That's highly 23 dependent on the tissue that's analyzed. 24 I'm just trying to see if the authors say 25 anything similar to what you said.</p>

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1 Q. Let me ask my question differently.
 2 Earlier, you agreed with me that according to the
 3 numbers in this paper, 95 percent of their
 4 subjects had no mature sperm cells detected in
 5 their study; correct?
 6 A. Say that one more time.
 7 Q. You earlier agreed with me, had you not,
 8 that according to the data in this paper, 95
 9 percent of their test subjects -- in 95 percent of
 10 their test subjects, no mature sperm cells were
 11 detected according to the analysis that they did?
 12 A. In Table 2, 4.7 percent of all subjects had
 13 spermatozoa, which is the most mature form of
 14 sperm. The remaining subjects -- in the remaining
 15 subjects, excuse me, the investigators isolated
 16 sperm cells of varying degrees of maturation. Or
 17 among 7, none at all.
 18 Q. And you would agree with me, would you not,
 19 that only mature spermatozoa cells are able to
 20 fertilize an egg?
 21 A. At that very moment in time.
 22 Q. Correct. And so far as these authors study
 23 reports, in 95 percent of their subjects who had
 24 been subjected to puberty blockers followed by
 25 cross-sex hormones, they did not detect evidence

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1 of mature sperm cells necessary for fertility in
 2 those subjects?
 3 A. At that point in time, yes.
 4 Q. And let me ask you to turn to page 301.
 5 In column two, in the last paragraph, the
 6 authors state "Hyalinization of seminiferous
 7 tubules was observed." Do you know what
 8 hyalinization is?
 9 A. I believe it's describing some degree of
 10 histologic maturation of seminiferous tubules,
 11 which is where sperm cells are produced.
 12 Q. Is it your understanding that hyalinization
 13 describes a level of maturation, or some level of
 14 degeneration and blockage?
 15 A. Off the top of my head, I'd have to look it
 16 up.
 17 Q. Fair enough. At the end of the -- that
 18 paragraph, these authors write "The complete
 19 absence of a lumen was most comment in those who
 20 initiated treatment in Tanner Stage 2."
 21 Let me similarly ask whether you understand
 22 what the authors are referring to when they
 23 mention "absence of a lumen"?
 24 MS. LEVI: I just want to say on the
 25 record, that didn't complete the sentence.

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1 MR. BROOKS: You are right.
 2 MS. LEVI: I'm sure that wasn't
 3 intentional, but I didn't want to have the
 4 record --
 5 MR. BROOKS: It was an error not in my
 6 favor, so let me correct it.
 7 Q. The sentence reads "The complete absence of
 8 a lumen was most common in those who initiated
 9 treatment in Tanner Stage 2 or 3."
 10 And Dr. McNamara, if all you know about that
 11 is what you would read in this article, then you
 12 tell me that, and I will simply move on.
 13 A. Yeah, I'm just trying to avail myself to the
 14 terminology again.
 15 Q. We can just move on.
 16 A. Sure.
 17 Q. Let me ask you to turn to --
 18 THE DEPONENT: Can I get a break?
 19 MS. LEVI: I'm sorry, are you done with
 20 this article?
 21 MR. BROOKS: I've got probably three
 22 more minutes on this document, if that's all
 23 right. If it's not all right, we can take a
 24 break.
 25 THE DEPONENT: That's all right.

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1 Q. Let me ask you to turn to 305, column two,
 2 where, at the very first sentence at the top,
 3 these authors from Vrije University in this paper
 4 that you cited from 2022, say "It is unknown if
 5 spermatogenesis can recover in if gender-affirming
 6 hormone therapy is stopped and how much time is
 7 needed for this purpose." Do you see that?
 8 A. Yes.
 9 Q. Do you have any basis to disagree with the
 10 authors of this paper that it's unknown if
 11 spermatogenesis can recover if gender-affirming
 12 hormone therapy is stopped?
 13 A. As a general matter, amongst population-wide
 14 samples, I have no reason to disagree.
 15 Q. If you look a little farther down in that
 16 column, a little below halfway is the sentence
 17 that begins "Another study, however, reported."
 18 That's the end of the line. Tell me when you
 19 found that.
 20 A. I'm not seeing it.
 21 Q. Pointing on my page just to help you locate
 22 it.
 23 A. I got it here.
 24 Q. Of course, I cheated and highlighted.
 25 A. That was helpful, though.

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1 Q. It reads "Another study, however, reported
 2 that 48 percent of transgender adolescents
 3 acknowledged that their desires regarding
 4 parenthood might change over time," citing a
 5 Strang, et al paper.
 6 Are you familiar with the Strange, et al
 7 paper?
 8 A. I might have read it at some point. I don't
 9 recall off the top of my head.
 10 Q. Do you, based on your own reading or
 11 experience, have any basis to disagree with the
 12 conclusion of Strang, et al that 48 percent of
 13 transgender adolescents stated that their desires
 14 regarding parenthood might change in the future?
 15 A. Well, that statistic describes the
 16 population that these authors studied. It doesn't
 17 necessarily apply to all transgender adolescents.
 18 Q. And are you aware of some study that reaches
 19 a different conclusion, based on a different
 20 population?
 21 A. I am aware that a finding like this in one
 22 study should not be generalized as it is described
 23 to all adolescents.
 24 Q. And finally, let me ask you to turn to page
 25 306. And there, in the top of the first column,

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1 an inch down, is the sentence that begins
 2 "Furthermore." Tell me when you've found that.
 3 A. Help me out.
 4 Q. (Indicating.)
 5 A. Got you. Thank you.
 6 Q. It reads "Furthermore, future research
 7 should focus on how GHAT influences the quality of
 8 germ cells and the safety of using cells harvested
 9 from orchiectomy specimens for reproductive
 10 techniques."
 11 When you read this article, do you believe
 12 that you understood what the authors were getting
 13 at in that sentence?
 14 A. Yes, I believe I did.
 15 Q. Do you understand the authors to be raising
 16 a concern that even apparently viable sperm cells
 17 that had been subjected to GAHT might be damaged
 18 in some way that would result, for instance, in
 19 birth defects?
 20 A. I'm not interpreting any concern from this
 21 statement. I am interpreting that the authors are
 22 highlighting an area where future research is
 23 needed.
 24 Q. By "quality of the germ cells," did you
 25 understand them to be speaking to -- I should say

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1 "by quality of germ cells and safety of using
 2 them," did you understand the authors to be
 3 referring perhaps, among other things, to the
 4 possibility of genetic defects, birth defects?
 5 A. I'm not reading that in this sentence.
 6 Q. What do you understand that to be referring
 7 to when they refer to safety?
 8 A. I couldn't infer anything else from the
 9 words on the page.
 10 MR. BROOKS: All right, let's take a
 11 break.
 12 THE DEPONENT: Sounds good, thank you.
 13 (R E C E S S)
 14 BY MR. BROOKS:
 15 Q. Let me ask you to find once again the
 16 Endocrine Society Guidelines, Exhibit 6. And I
 17 will ask you to turn to page 3895, and I want to
 18 take you down to the very bottom of the second
 19 column where it reads "Disclaimer." Do you see
 20 that little header?
 21 A. I do.
 22 Q. There, the Endocrine Society states "The
 23 guidelines should not be considered inclusive of
 24 all proper approaches or methods, or exclusive of
 25 others. The guidelines cannot guarantee any

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1 specific ought come, nor do they establish a
 2 standard of care."
 3 Dr. McNamara, were you aware that the
 4 Endocrine Society has explicitly denied that its
 5 guidelines do constitute or could be considered a
 6 standard of care?
 7 A. I am not sure how they mean "standard of
 8 care," what meaning that has for this
 9 organization. It's a -- more of a subjective term
 10 that I think different individuals and
 11 organizations can have difference meanings of.
 12 Q. So in your understanding, "standard of care"
 13 is not a well-defined term?
 14 A. Let me -- for me, personally, as an
 15 individual reading this, I do not know what the
 16 Endocrine Society's intended meaning of "standard
 17 of care" in this particular context might be.
 18 Q. In the first sentence I read, at least
 19 they're telling us that other approaches to
 20 treating gender dysphoria may also be appropriate;
 21 correct?
 22 A. Your question again, please.
 23 Q. The sentence that reads "The guidelines
 24 should not be considered inclusive of all proper
 25 approaches or methods, or exclusive of others."

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1 Do you see that language?
 2 A. I do.
 3 Q. And at the very least, the Endocrine Society
 4 there is telling us that there may be other
 5 appropriate approaches to treating gender
 6 dysphoria, correct?
 7 A. They are saying that these guidelines should
 8 not be considered inclusive of all proper
 9 approaches -- they are saying that these
 10 guidelines should not be considered inclusive of
 11 all proper approaches or methods, or exclusive of
 12 others.
 13 Q. And what that means to you as the reader is
 14 that there might be other proper approaches to
 15 treating gender dysphoria, correct?
 16 MS. LEVI: Object as to form.
 17 A. I don't draw that conclusion from this
 18 sentence.
 19 Q. Interesting. The Endocrine Society tells us
 20 that their guidelines do not establish standard of
 21 care -- strike that.
 22 Can you identify for me any national health
 23 authority, any country, that has endorsed the
 24 WPATH as the standard of care, either 7 or 8, as
 25 the standard of care for their health service?

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1 A. I don't understand, meaning the term "health
 2 service."
 3 Q. Well, you well understand that in many
 4 countries, there is a unified National Health
 5 Service of some sort, correct?
 6 A. In countries outside the United States,
 7 perhaps you can provide some examples so I know
 8 what you're talking about.
 9 Q. Europe. You're well aware in European
 10 countries, there is a National Health Service,
 11 government-funded, unlike anything we have in this
 12 country; correct?
 13 A. Correct.
 14 Q. And are you aware of any National Health
 15 Service anywhere in the world that has endorsed
 16 the WPATH standard of care as the practiced
 17 standard of care in their nation for treatment of
 18 gender dysphoria?
 19 A. I am not aware of whether any country's
 20 nationalized health system has endorsed WPATH's
 21 standards of care in any version, or any other
 22 guidelines for any other medical organization.
 23 Q. And likewise, you're not aware of whether
 24 any National Health Service has endorsed the
 25 Endocrine Society Guidelines?

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1 A. Similarly, my answer to that question is the
 2 same.
 3 Q. If you would find your report, let me ask
 4 you to turn to page 5 of your report.
 5 At the top of page 5, you state
 6 "Organizations such as the American Academy of
 7 Pediatrics, the American Psychological
 8 Association, and the American Academy of Child and
 9 Adolescent Psychiatry have endorsed these
 10 standards of care." And I believe you're
 11 referring to, in that paragraph, to WPATH's
 12 standard of care and Endocrine Society Guidelines.
 13 Am I understanding you correctly?
 14 A. That's correct.
 15 Q. And can you point to any document in which
 16 the American Medical Association has endorsed
 17 WPATH's standard of care?
 18 A. I did not list the American Medical
 19 Association in this paragraph.
 20 Q. Can you point me to any document with which
 21 the American Academy of Pediatrics has endorsed
 22 the WPATH's standards of care, whether Version
 23 seven or 8. There's no cites, so I'm asking.
 24 A. In Dr. Rafferty's article written with the
 25 sexual and gender minority group within the AAP,

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1 they cite both guidelines throughout.
 2 Q. Is it your recollection that Dr. Rafferty's
 3 paper published by the American Academy of
 4 Pediatrics anywhere endorses the WPATH standards
 5 of care?
 6 A. If you'd like us to refer to that paper, I
 7 can point to specific areas where they cite that
 8 paper.
 9 Q. Is it the case, Dr. McNamara, that every
 10 time you cite a paper, you endorse everything in
 11 it?
 12 A. I don't really try to cite things that I
 13 write completely that affirm or support key points
 14 that I'm trying to make. I'll leave it there.
 15 Q. Well, you state that these organizations
 16 have endorsed these standards of care. And my
 17 question for you is for any one of these three
 18 organizations, can you point me to any document in
 19 which that organization states "We endorse, we
 20 approve, these standard of care"?
 21 A. While you and I might have slightly
 22 different understandings of the term "endorse,"
 23 for a medical organization to cite guidelines in a
 24 position statement, that is certainly an
 25 affirmative position that I, as the author of this

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1 expert testimony, drew an opinion on and opined
 2 that it constituted an endorsement, as I
 3 understand an endorsement to be.
 4 Q. Did you make any effort to research whether
 5 any of those organizations had adopted -- had any
 6 formal endorsement of either the WPATH SOC-8 or
 7 the Endocrine Society Guidelines before making
 8 that statement in your report?
 9 A. As I discussed, sourcing statements made by
 10 these organizations where those guidelines are
 11 cited and discussed as expert and authoritative,
 12 is not something that a medical organization would
 13 do lightly.
 14 Q. And so far as you know, it's not something
 15 they've ever done?
 16 A. You were previously referring to
 17 nationalized health care systems when you were
 18 talking about organizations. And now we've
 19 switched to talking about medical organizations,
 20 which are very different.
 21 MR. BROOKS: Let me hear back the
 22 witness's previous answer, not this one, about the
 23 previous answer.
 24 (THE REPORTER READ THE RECORD)
 25 Q. What is it you were saying that a medical

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1 organization would not do lightly?
 2 A. As she just read, a medical organization
 3 would not favorably cite guidelines without -- let
 4 me say that differently. Apologies.
 5 A medical organization would not cite and
 6 describe guidelines lightly.
 7 Q. Let me ask you a different question. What
 8 knowledge do you have as to whether gender clinics
 9 in Alabama, prior to the enactment of the law at
 10 issue in this litigation, consistently followed
 11 WPATH SOC-7 guidelines or the Endocrine Society
 12 Guidelines?
 13 A. So we've already discussed in my testimony
 14 earlier today that I have no in-depth knowledge of
 15 any of the practices in the University of Alabama
 16 at Birmingham gender services.
 17 Q. And what knowledge do you have as to whether
 18 gender clinics across the US consistently follow
 19 the WPATH standard of care or the Endocrine
 20 Society Guidelines?
 21 A. Of my colleagues who I communicate with on
 22 these matters, who practice in gender clinics
 23 throughout the country, they report utilizing the
 24 WPATH's standards of care and the Endocrine
 25 Society Clinical Practice Guidelines.

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1 MR. BROOKS: Let me mark as Exhibit 20,
 2 an article from the Washington Post, coauthored by
 3 Dr. Laura Edwards-Leeper and Dr. Erica Anderson
 4 entitled "The Mental Health Establishment is
 5 Failing Trans Kids."
 6 (DEFENDANT'S EXHIBIT 20 FOR
 7 IDENTIFICATION Received and Marked.)
 8 Q. Do you personally know either Dr.
 9 Edwards-Leeper or Dr. Anderson?
 10 A. No.
 11 Q. Are you aware that Dr. Edwards-Leeper is one
 12 of the named authors of the SOC-8?
 13 A. I don't have it in front of me, so I can't
 14 verify that.
 15 Q. Well, let's find it. Exhibit 14, there's a
 16 lot of names, but I have --
 17 A. I agree with you. I found it myself.
 18 Q. Okay, good. And do you know whether Dr.
 19 Edwards-Leeper has held any, other than being one
 20 of the coauthors of the SOC-8 guidelines, do you
 21 know whether she has held any executive position
 22 in WPATH?
 23 A. I don't know.
 24 Q. Do you have any knowledge as to what level
 25 of professional experience in treating minors with

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1 gender dysphoria Dr. Edwards-Leeper has?
 2 A. I believe she has professional experience.
 3 I'm not sure how much and to what extent.
 4 Q. And are you familiar with the reputation of
 5 Dr. Laura Anderson?
 6 A. I believe her name is Erica Anderson.
 7 Q. Yes, pardon me. Are you familiar with the
 8 reputation of Dr. Erica Anderson?
 9 A. Not really.
 10 Q. Are you aware that Dr. Anderson was
 11 president of the United States USPATH, the United
 12 States Professional Association For Transgender
 13 Health?
 14 A. I am now.
 15 Q. Not really. You shouldn't take my word.
 16 Let me ask you to turn to the first text
 17 page, the second page of this exhibit. Let me ask
 18 you whether you have read this article before
 19 today?
 20 A. No, I haven't.
 21 Q. Do you recall discussion about it about the
 22 time it came out amongst your colleagues and
 23 peers?
 24 A. I don't. This is November 2021.
 25 Q. Right. At the very bottom of -- the

<p style="text-align: right;">Page 186</p> <p>1 subtitle here, of the article, is "Gender 2 Exploratory Therapy As a Key Step. Why Aren't 3 Therapists Providing It?" 4 Now, let me take you to the text at the very 5 bottom of the page, the first text page. And 6 there, Dr. Edwards-Leeper, coauthor of SOC-8, says 7 "A study of 10 pediatric gender clinics there 8 found that half do not require psychological 9 assessment before initiating puberty blockers or 10 hormones." Do you see that? 11 A. No, not yet. 12 Q. Very last sentence on the page. 13 A. Oh, I see. Starts with a different -- 14 "Canada, too," yes. I see the sentence now. 15 Q. And above that, three lines above that, 16 these authors state that many providers are being 17 spurred into sloppy, dangerous care. Do you see 18 that? 19 A. I see that phrase. 20 Q. Do you share Dr. Edwards-Leeper's concern 21 that many providers around the country are 22 providing sloppy, dangerous care to children 23 suffering from gender dysphoria? 24 A. I take this phrase to be from both authors, 25 not just one.</p>	<p style="text-align: right;">Page 188</p> <p>1 that. 2 Q. And it is consistent with your 3 understanding, is it not, that the WPATH standards 4 of care require a psychological assessment before 5 puberty blockers or hormones are initiated? 6 MS. LEVI: Object as to form. 7 A. I would need to refer to the specific 8 section of the Adolescent chapter to refresh 9 myself on the language before I could answer your 10 question. 11 Q. You practice in this area and you can't tell 12 me today that whether or not the WPATH standards 13 of care require psychological evaluation before 14 initiating puberty blockers or cross-sex hormones? 15 A. I want to answer your question as accurately 16 and thoroughly as possible. And I would want to 17 look at the language with you today before I 18 answered the question. I'd be happy to do so if 19 you wanted to find out. 20 Q. I'm not going to spend my time that way. 21 Let me ask you to turn to the second text 22 page. If you look down to the first full 23 paragraph, begins with a big A. 24 These authors state "The pendulum has swung 25 from a vile fear and skepticism around ever</p>
<p style="text-align: right;">Page 187</p> <p>1 Q. Correct. But if I say both their names all 2 the time, it will take too much time. 3 A. Hmm. 4 Q. They're coauthors. 5 A. Correct. Your question, then? 6 Q. My question is do you share these authors' 7 concern that many providers are engaging in 8 "sloppy, dangerous care" for minors suffering from 9 gender dysphoria? 10 A. I only have knowledge of the opposite; 11 careful, measured, thoughtful care. 12 Q. Do you believe that your knowledge of 13 practice around the country is sufficient for you 14 to reject as mistaken these authors' belief that 15 many providers are engaging in sloppy, dangerous 16 care? 17 A. I don't know what these authors are basing 18 that on. And that is knowledge that I would need 19 in order to answer your question. 20 Q. Referring back to the study was actually a 21 Canadian sample. Do you have any knowledge as to 22 what proportion of gender clinics in the United 23 States require psychological assessment before 24 initiating puberty blockers or hormones? 25 A. I don't know whether or not there's data on</p>	<p style="text-align: right;">Page 189</p> <p>1 treating adolescents medically to what must be 2 described in some quarters as an overreaction. 3 Now the treatment pushed by activists, recommended 4 by some providers and taught in many training 5 workshops, is to affirm without question." Do you 6 see that language? 7 A. I do. 8 Q. Do you share these authors' concern that 9 some providers are affirming without question? 10 A. I'm not sure I understand what that means, 11 as they're wording it. 12 Q. Let me ask you to turn to the next text 13 page. And there, in the top partial paragraph, 14 these authors, beginning partway through line 15 three, state "Frequently, those community 16 clinicians" -- that is, those who refer children 17 to specialty clinics -- "just like the parents, 18 assume that a more comprehensive assessment will 19 occur in the gender specialty clinic. But in our 20 experience, and based on what our colleagues 21 share, this is rarely the case. Most clinics 22 appear to assume that referral means a mental 23 health provider in the community has diagnosed 24 gender dysphoria and therefore -- and thereby 25 given the green light for medical intervention."</p>

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1 Do you see that language?
 2 A. I do.
 3 Q. Do you share these authors' concern that in
 4 many cases within the US, neither the primary care
 5 physician, nor the gender clinic, is performing a
 6 thorough diagnosis before medical intervention?
 7 MS. LEVI: Object as to form.
 8 THE DEPONENT: Can I have the question
 9 back?
 10 (THE REPORTER READ THE RECORD)
 11 A. My experiences, as I have described them,
 12 don't include anything along these lines. And my
 13 familiarity with the literature shows that youth
 14 often experience long delays from their first
 15 contact with the gender clinic until receipt of
 16 medication.
 17 Q. Is it possible that your position associated
 18 with Yale has you less in touch with the actual
 19 practice across the nation than these authors, one
 20 of whom is a coauthor of SOC-8?
 21 A. If anything, my position here at Yale as the
 22 only board certified Adolescent Medicine physician
 23 has driven me to connect with people who I
 24 consider to be colleagues across the country and
 25 from other institutions. Being the sole board

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1 certified provider of your institution means that
 2 you often look outside of it for professional
 3 community.
 4 Q. A little farther down in this third page of
 5 text is a paragraph that begins "Some providers
 6 may move quickly." You see that paragraph?
 7 A. I do.
 8 Q. And the second sentence reads, in part,
 9 "Some assume that a person with gender dysphoria
 10 who declares they are transgender is transgender,
 11 and needs medical interventions immediately." Do
 12 you see that?
 13 A. I do see that.
 14 Q. And do you share these authors' belief that
 15 some young people who declare they're transgender
 16 may not need medical intervention immediately?
 17 MS. LEVI: Object as to form.
 18 A. It seems like they're referencing the
 19 subsequent study here to back up that point. I
 20 would probably need to look at that to get more
 21 context into what they're saying here.
 22 Q. Ask you to turn to the next page.
 23 A. Okay.
 24 Q. There, these authors state "Longer term
 25 longitudinal studies are needed to better

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1 understand the role of medical interventions on
 2 lifetime psychological health, particularly with
 3 the newer subset of adolescents presenting with no
 4 childhood dysphoria and significant mental health
 5 concerns."
 6 Is it consistent with your knowledge and
 7 your expert opinion that in recent years, a newer
 8 su set of patients are presenting at gender
 9 clinics who experienced no childhood gender
 10 dysphoria and suffer significant other mental
 11 health concerns?
 12 A. The demographics of patients being referred
 13 to gender clinics are different in some ways than
 14 they were in years past. I would not characterize
 15 that as meaning that they are a separate subset.
 16 Q. So as to that characterization, you disagree
 17 with Dr. Edwards-Leeper?
 18 A. I don't have enough information as it's
 19 written here to understand what information that
 20 individual is basing this statement on.
 21 Q. In the next paragraph, the third line, these
 22 authors state that "Without proper assessment,
 23 many youths are being rushed toward the medical
 24 model, and we don't know if they will be liberated
 25 or restrained by it."

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1 Let me ask whether you share these authors'
 2 concern that today, many youths are being rushed
 3 towards a medical response to gender dysphoria.
 4 A. Again, I'm not sure what data they're basing
 5 that claim on.
 6 Q. Yes, but my question is whether you share
 7 their concern.
 8 A. I base all of my opinions in this case on
 9 evidence and data. And I don't have anything to
 10 go with here. So I can neither agree or disagree
 11 with this statement as it's written.
 12 Q. The very first, the very top of the page, I
 13 asked you about the back half of the sentence, but
 14 let me ask you about the first half.
 15 "Longer term longitudinal studies are needed
 16 to better understand the role of medical
 17 interventions on lifetime psychological health."
 18 You have spent a fair amount of time
 19 studying the literature. Let me ask whether you
 20 agree with these authors that we need longer term
 21 studies to understand the role of medical
 22 interventions in lifetime psychological health of
 23 young people who are presented in clinics?
 24 A. Longer term, larger, multiinstitutional
 25 studies are always a benefit in the field of

<p style="text-align: right;">Page 194</p> <p>1 clinical research and can always guide medical 2 decisionmaking in patient care in a better way. I 3 consider this first half of this sentence to be 4 something that I agree with on that basis. 5 Q. And towards the end of the -- well, the 6 paragraph begins "The pressure by activist medical 7 and mental health providers, along with some 8 national LGBT organizations to silence the voices 9 of detransitioners and sabotage the discussion 10 around what is occurring in the field is 11 unconscionable." 12 Let me ask, have you yourself, as you pay 13 attention to the literature, or the media, or 14 discussions within academia, do you have any view 15 as to whether there is or is not pressure by 16 activists and some LGBT organizations to silence 17 the voices of detransitioners? 18 A. I have not noted that. 19 Q. Let me ask you to take the WPATH standards 20 of care, Exhibit 14, out. And let me ask you to 21 turn to page 46. 22 Is it your testimony that -- let me put it 23 this way: Is it your belief that the WPATH SOC-8 24 recommendations with regard to care of adolescents 25 suffering from gender dysphoria are based on</p>	<p style="text-align: right;">Page 196</p> <p>1 language in column one. About two inches down, 2 the authors of SOC-8 tell us that "There are few 3 outcome studies that follow youth into adulthood." 4 Do you see that language? 5 A. I do. 6 Q. And is that consistent with your 7 understanding of what is out there in the 8 literature? 9 A. Yes, it is. 10 Q. So when it comes adolescents being treated 11 in gender clinics, we simply don't have studies 12 that tell us about either their mental or their 13 physical health of such patients by the time they 14 are, for instance, age 30? 15 A. I have not seen that study, to the best of 16 my knowledge. 17 Q. Or age 40, or age 50? 18 A. There may be studies that have included 19 participants of some of those ages who did receive 20 some type of care as an adolescent. Off the top 21 of my head, I can't recall one. 22 Q. The WPATH authors tell us in language, that 23 because the number of studies is low and there are 24 few outcome studies that follow youth into 25 adulthood, "Therefore, a systematic review</p>
<p style="text-align: right;">Page 195</p> <p>1 systematic reviews of the available evidence? 2 A. Are you referring to a specific chapter? 3 Q. Well, I asked about adolescents. And there 4 is a chapter that pertains specifically to 5 adolescents. 6 A. That might have been what I didn't catch in 7 your last question. Can I have the question back 8 so I make sure I understand completely? 9 (THE REPORTER READ THE RECORD) 10 THE DEPONENT: Thank you. 11 A. This particular chapter, as the authors 12 describe, was not based on a systematic review. 13 It was based on a review of the evidence, which 14 the authors describe a bit further. 15 Q. So far as you're aware, WPATH has not 16 claimed that its recommendations regarding medical 17 transition of adolescents or children are based on 18 any systematic review, correct? 19 A. I have not seen an instance of that 20 organization saying that regarding the care of 21 adolescents. 22 Q. Or children? 23 A. I have not looked at -- excuse me, I haven't 24 looked at the Children chapter. 25 Q. I think you and I are looking at the same</p>	<p style="text-align: right;">Page 197</p> <p>1 regarding outcomes of treatments in adolescents is 2 not possible." Do you see that? 3 A. Yes. 4 Q. And based on your understanding of what is 5 meant today by evidence-based medicine, does it 6 make sense and is it consistent with the way 7 terminology is used in evidence-based medicine to 8 say that a systematic review regarding outcomes in 9 adolescents is not possible? 10 A. It is this organization's prerogative to 11 make that determination about their own standard 12 of care. I don't have an opinion on that sentence 13 further from that. 14 Q. Do you believe the standard of care 15 generated by WPATH to have been generated in 16 compliance with accepted principles of 17 evidence-based medicine? 18 A. I generally agree with that. 19 Q. And yet you think it's their prerogative to 20 define a standard when a systematic view can or 21 cannot be performed? 22 A. As subject matter experts on this particular 23 area, I believe that they're well positioned to 24 make that determination. 25 MR. BROOKS: I ask the reporter to mark</p>

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1 as Exhibit 21, an article from the British Journal
 2 of Medicine, 2023, entitled "Gender Dysphoria in
 3 Young People is Rising and So is Professional
 4 Disagreement."
 5 (DEFENDANT'S EXHIBIT 21 FOR
 6 IDENTIFICATION Received and Marked.)
 7 Q. And Dr. McNamara, I asked you earlier about
 8 the reputation of the New England Journal of
 9 Medicine. Do you have any understanding of the
 10 international reputation of the British Medical
 11 Journal?
 12 A. It is certainly a reputable journal. I am
 13 not aware of whether or not this document was
 14 printed in a peer-reviewed journal or if it was
 15 simply included on their website.
 16 Q. Well, it doesn't purport to be original
 17 research, and it doesn't purport to be a review
 18 article. It is titled -- it is by Jennifer Block,
 19 who is designated as an investigations reporter.
 20 But is it consistent with your understanding that
 21 the British Medical Journal is perceived as one of
 22 the premiere medical journals in the world?
 23 A. It's certainly a high impact, reputable
 24 journal. I wouldn't qualify it further than that.
 25 Q. Well, if somebody testified that it was

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1 viewed as one of the world's premiere medical
 2 journals, would you disagree with that?
 3 A. I think I have given you my opinion on what
 4 this journal means to me as a physician. I don't
 5 have anything else to say about it.
 6 Q. Let me ask you to turn to the fifth page.
 7 The numbers are small type down at the lower
 8 right-hand corner. And the third full paragraph
 9 begins, "For minors." Do you see that?
 10 A. I do.
 11 Q. And there, it reads "For minors, WPATH
 12 contends that the evidence is so limited that a
 13 systematic review regarding outcomes of treatment
 14 in adolescents is not possible. But Guyatt
 15 counters" -- that's G-U-Y-A-T-T -- "that
 16 systematic reviews are always possible, even if
 17 few or no studies meet the eligibility criteria.
 18 If an entity has made a recommendation without
 19 one, he says, they'd be violating standards of
 20 trustworthy guidelines." Do you see that?
 21 A. Mm-hmm.
 22 Q. Do you agree with Dr. Guyatt, who we've
 23 mentioned earlier, the guidelines that are not
 24 based on a systematic review of the relevant
 25 literature do not comply with standards for

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1 trustworthy guidelines?
 2 A. What I'm reading on the page is a little
 3 different from how you're presenting it to me as a
 4 summary. It's a truncated quote. And I'm not
 5 sure in the context with which it's being
 6 attributed to this individual, it doesn't appear
 7 to be citing any peer-reviewed research that this
 8 individual has produced.
 9 Q. Do you believe that you or Dr. Guyatt are
 10 better informed about the definition and
 11 principles of evidence-based medicine?
 12 A. I don't understand the question.
 13 MR. BROOKS: Read it back, please.
 14 (THE REPORTER READ THE RECORD)
 15 A. I'm not sure I have any evidence upon which
 16 to compare my knowledge to somebody who I -- I
 17 have never met, and I think I'll leave it there.
 18 Q. Is it outside your knowledge that Dr. Guyatt
 19 is considered one of the founders of the field of
 20 evidence-based medicine?
 21 A. I am unsure who specifically considers Dr.
 22 Guyatt to be considered a founder of
 23 evidence-based medicine. I would need to
 24 understand that further.
 25 Q. And o you know or not know whether Dr.

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1 Guyatt has written an entire textbook that's
 2 widely used on evidence-based medicine?
 3 A. I know that he's written textbooks on
 4 evidence-based medicine. I have read several
 5 textbooks on evidence-based medicine. And in my
 6 training on evidence-based medicine, I received
 7 education from several leaders in clinical
 8 research. And Public Health resourced a wide
 9 variety of educational documents on the topic.
 10 And they were not all written by the same person.
 11 Q. At the very last paragraph, let me just ask,
 12 there's a mention also of a Dr. Helfand,
 13 H-E-L-F-A-N-D, who I'll represent to you that he's
 14 a professor of Medicine and Medical Informatics
 15 with the Oregon Health and Science University.
 16 Let me just ask, have you heard his name, do
 17 you know anything about his reputation?
 18 A. I have never heard of him.
 19 Q. Okay. I won't rest anything oh that. And
 20 the final paragraph of this article reads -- the
 21 final paragraph on page 5, not the final
 22 paragraph, I apologize.
 23 A. I see.
 24 Q. "Calling a treatment recommendation
 25 evidence-based should mean that a treatment or

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1 guideline has not just been systematically
 2 studied, says Helfand, but that there was also
 3 finding of high quality evidence supporting its
 4 use.
 5 Now, my question for you is is it
 6 consistent, do you agree or disagree, with the
 7 proposition that in order for a guideline to be
 8 considered evidence-based, it should be based on
 9 high quality evidence?
 10 A. The way that this is written here, what you
 11 just read me doesn't seem to be a quotation.
 12 Q. That's all right, I'm just asking whether
 13 you agree with the proposition.
 14 A. It might be a summary.
 15 Q. Let me ask you a question in my own words:
 16 Do you agree or disagree that in order to be
 17 considered an evidence-based guideline, or an
 18 evidence-based recommendation, that that guideline
 19 or recommendation should be based on what is
 20 deemed high quality evidence according to
 21 principles of evidence-based medicine?
 22 A. High quality evidence often refers to
 23 evidence derived from randomized controlled
 24 trials. And the vast majority of medical practice
 25 is informed by evidence that is not derived from

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1 randomized controlled trials. Vast majority of
 2 medical practice is informed by evidence derived
 3 from observational studies. Which puts us,
 4 according to the way the grade working group
 5 defines "evidence," not often in the realm of high
 6 quality evidence.
 7 So I take this sentence that you read to me
 8 earlier to be a summary of something that a
 9 journalist interpolated from a quote. And I have
 10 good reason to disagree, that the majority of
 11 evidence-based guidelines are supported by high
 12 quality evidence.
 13 MS. LEVI: I apologize, can we just take
 14 a very quick break?
 15 MR. BROOKS: I'm in favor.
 16 (R E C E S S)
 17 BY MR. BROOKS:
 18 Q. Let me ask you to look at your expert
 19 report, Exhibit 4. Turn to page 2. And there, in
 20 your Roman I heading, you assert that
 21 "Transitioning medications are safe and
 22 effective." Do you see that language?
 23 A. I do.
 24 Q. And is it your testimony that using puberty
 25 blockers to block natural, healthy puberty for a

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1 period of years in a child who's suffering no
 2 genetic defect or precocious puberty is known to
 3 medical science to be safe?
 4 A. When accounting for the known adverse
 5 effects, the benefits of treatment, and the risks
 6 of treatment, it is my opinion that the use of
 7 puberty-blocking medications and treatment of
 8 gender dysphoria is safe.
 9 Q. And is it your view that no responsible
 10 medical expert could say that it is presently
 11 unknown in important respects whether such use is
 12 safe?
 13 (The reporter asked for clarification)
 14 Q. Is it your testimony that no responsible
 15 medical expert could be of the view that it is
 16 presently unknown in important respects whether
 17 such use is safe?
 18 A. I would need to know what important respects
 19 were being considered to proceed with answering
 20 your question.
 21 Q. Well, is it your testimony that no
 22 responsible medical expert could be of the view
 23 that it is presently unknown whether the use of
 24 puberty blockers for an extended period of years
 25 in a child suffering no genetic defect or

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1 precocious puberty is safe with respect to
 2 neurodevelopment?
 3 A. There are quite a few qualifiers and double
 4 negatives in there. I need to hear the question
 5 again.
 6 (THE REPORTER READ THE RECORD)
 7 A. I would need to know what was meant by "some
 8 years" in order to answer that question.
 9 Q. Let's say three.
 10 THE DEPONENT: I need the question back
 11 because of our interruption.
 12 (THE REPORTER READ THE RECORD)
 13 A. If someone were to express that view, it
 14 would be proper and correct to engage in a
 15 discussion with them about why they hold those
 16 views, and to review relevant literature pertinent
 17 to this specific issue.
 18 Q. Are you aware that multiple European health
 19 authorities have now published statements to the
 20 effect that it is not known yet whether
 21 administration of puberty blockers for multiple
 22 years to children suffering from no genetic defect
 23 or precocious puberty is safe?
 24 A. I am aware that some European countries have
 25 performed evidence reviews on that topic.

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1 Q. Are you unaware that they have made formal
 2 statements now that it is not yet known whether
 3 such treatments are safe?
 4 A. I did not cite statements from other
 5 countries in any of my reports. And I would need
 6 to review them in detail to comment on their
 7 contents.
 8 Q. As you sit here today, are you aware of
 9 whether or not some European health authorities
 10 have issued statements to the effect that it is
 11 unknown at present whether use of puberty blockers
 12 to treat gender dysphoria is safe?
 13 A. I would need to specifically review the
 14 reports that those countries have produced, look
 15 at their methodology for making those statements,
 16 and then I would be able to answer your question.
 17 Q. And are you telling me that you have not,
 18 either in your normal professional capacity or
 19 your preparation to provide expert testimony to
 20 the court in this case, you have not taken the
 21 time or the trouble to familiarize yourself with
 22 those recent European statements?
 23 A. I don't know what statements specifically
 24 you're referring to. Specific details would help
 25 so I'm sure that we're talking about the same

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1 thing.
 2 Q. Have you read Dr. Katz's interim report
 3 published for the National Health Service?
 4 A. Yes, I have.
 5 Q. Have you read the very recently published
 6 policy statements from the National Health
 7 Service?
 8 A. Not in its entirety.
 9 MR. BROOKS: Let me ask the reporter to
 10 mark as Exhibit 22, a document from NHS England
 11 titled "Clinical Policy Puberty Suppressing
 12 Hormones For Children and Young People Who Have
 13 Gender Incongruence/Gender Dysphoria," dated March
 14 12, 2024.
 15 (DEFENDANT'S EXHIBIT 22 FOR
 16 IDENTIFICATION Received and Marked.)
 17 Q. Dr. McNamara, this document is both very
 18 recent, March 12th, and very short. Is it your
 19 testimony that prior to now, you have not read
 20 this two-page document?
 21 A. I don't think I read this specific document.
 22 Q. Well, it's just out. Let me ask you this:
 23 On the third page, the last line of the text
 24 states "We have concluded that there is not enough
 25 evidence to support the safety or clinical

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1 effectiveness of PSH to make the treatment
 2 routinely available at this time." And PSH is
 3 defined in the beginning of the document as
 4 "puberty suppressing hormones."
 5 My question is this: Is it your testimony,
 6 do you intend to testify to the court that only a
 7 science denier could conclude that as of March
 8 2024, there is not enough evidence to support the
 9 safety or clinical effectiveness of puberty
 10 suppression as a treatment for gender dysphoria?
 11 MS. LEVI: Object as to form.
 12 THE DEPONENT: Can I have the question
 13 back?
 14 (THE REPORTER READ THE RECORD)
 15 A. I am aware of multiple studies in the
 16 literature that show that puberty suppression is
 17 one effective treatment for youth suffering from
 18 gender dysphoria. And that statement does not --
 19 that is my testimony. I'll leave it there.
 20 Q. You're aware of -- you have reviewed the
 21 systematic reviews commissioned for the National
 22 Health Service of England, so-called Cass review,
 23 put out by their NICE organization; correct?
 24 A. I have seen those reviews.
 25 Q. And you're aware that when it comes to

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1 efficacy and benefit, those reviews conclude that
 2 all available evidence is of very low quality?
 3 A. I am aware that as you described, that is a
 4 conclusion of that document.
 5 Q. And you disagree with their evaluation of
 6 that evidence, am I correct?
 7 A. I have seen instances of studies that they
 8 assessed, being assessed using the same
 9 methodology, and the authors come up with
 10 different results.
 11 Q. And in your view, is that the sort of
 12 evaluation on which reasonable experts could
 13 disagree?
 14 A. I would say that using an evidence
 15 assessment tool that is subjective and can be user
 16 dependent, is likely to lead to discrepant
 17 assessment.
 18 Q. Now, backing up, do you intend to tell the
 19 court that only a science denier could conclude
 20 that as of March of 2024, there's not enough
 21 evidence to support the safety or clinical
 22 effectiveness of puberty suppressing hormones as a
 23 treatment for gender dysphoria?
 24 MS. LEVI: Object as to form.
 25 THE DEPONENT: Can I have the question

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1 back?

2 (THE REPORTER READ THE RECORD)

3 A. I would say that the available literature to

4 date demonstrates both short term and medium term

5 beneficial impact of puberty-suppressing

6 medications as a treatment for gender dysphoria.

7 Q. And is it your expert opinion that any

8 medical professional who disagrees with you about

9 that must be denying the relevant science?

10 MS. LEVI: Object as to form.

11 A. It is my expert opinion that a careful

12 assessment of all of the literature would yield

13 the conclusion that in the short or medium term,

14 puberty-suppressing medications confer benefit to

15 youth with gender dysphoria if they qualify for,

16 desire and receive them in accordance with the

17 standard of care outlined by WPATH and the

18 clinical practice guidelines outlined by the

19 Endocrine Society.

20 Q. And therefore, it's your opinion that

21 anybody who disagrees with you on that is simply

22 denying the relevant science, or do you believe

23 that's an issue on which reasonable scientists can

24 differ?

25 MS. LEVI: Object as to form.

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1 THE DEPONENT: I'll take the question

2 again, please.

3 (THE REPORTER READ THE RECORD)

4 A. I don't have a opinion on that.

5 Q. Do you know whether the Endocrine Society

6 has anywhere taken an official position or indeed

7 stated in the guidelines that the use of puberty

8 blockers as a treatment for gender dysphoria is,

9 quote, safe?

10 A. The Endocrine Society undertook a thorough

11 inventory of the evidence on this issue. They

12 sourced available studies at the time the

13 guidelines were developed. And they issued a

14 recommendation regarding the use of

15 puberty-blocking medications for youth with gender

16 dysphoria. I would need to refer to the specific

17 guidelines to pull out the language, but I can

18 tell you without doing so that their process

19 undertook a consideration of the safety of that

20 medication.

21 Q. Well, let's pull that out and see what they

22 said about what they learned about safety through

23 that process that you mention.

24 Exhibit 6, let me ask you to turn page 3874

25 in the Endocrine Society Guidelines. Towards the

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1 bottom of the first column is a paragraph, about

2 two inches from the bottom, that begins "In the

3 future." Find that for me, if you would.

4 A. Yes.

5 Q. It reads "In the future, we need more

6 rigorous evaluations of the effectiveness and

7 safety of endocrine and surgical protocols." And

8 it goes on to call specifically for a careful

9 assessment of "the effects of prolonged delay of

10 puberty in adolescents on bone health, gonadal

11 function, and the brain, including effects on

12 cognitive, emotional, social and sexual

13 development." Do you see that language?

14 A. Yes, I am reading this paragraph with you.

15 Q. All right. And you understand the reference

16 to gonadal function to be a reference to

17 fertility, right?

18 A. Yes.

19 Q. So what the Endocrine Society says here

20 about safety is that we need more rigorous

21 evaluations of the safety of puberty blockers with

22 respect to -- let me start again.

23 What the Endocrine Society said here is that

24 we needs more rigorous evaluations of the safety

25 of endocrine treatments and in particular, with

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1 respect to the prolonged delay of puberty in

2 adolescents on health issues, including those

3 we've been discussing today; that is, fertility,

4 brain development, sexual development; correct?

5 A. So this paragraph does not pertain

6 explicitly to puberty-blocking medications.

7 Q. It does, if I may. The language I read five

8 lines in refers specifically to the effects of

9 prolonged delay of puberty in adolescents.

10 A. Okay, I suppose we're inferring from that --

11 Q. It's a complicated sentence, I grant you.

12 But I'd like to focus on the call for a careful

13 assessment of the following. And item one is,

14 "the effects of prolonged delay of puberty in

15 adolescents on bone health, gonadal function, and

16 the brain." Correct?

17 A. That's correct, that's what it says.

18 Q. That is a reference to potential adverse

19 effects of puberty blockade; correct?

20 A. That's correct.

21 Q. And what the Endocrine Society says is we

22 need careful assessment of those potential adverse

23 effects; correct?

24 A. They don't refer to them as adverse effects.

25 They refer to them as effects.

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1 Q. Well, you would agree that any negative
 2 impact on brain development would be adverse,
 3 would you not?
 4 A. I don't see discussion of negative impacts
 5 on brain development here.
 6 Q. Dr. McNamara, this paragraph begins with a
 7 reference to safety. Do you believe that the
 8 Endocrine Society means, as you read this, to
 9 refer to positive impact?
 10 A. I'm just reading the words on the page.
 11 Q. Is that all? You don't think you understand
 12 it? Let me ask a question.
 13 It's correct, is it not, that what the
 14 Endocrine Society says about safety in this
 15 paragraph, among other things, is that we need
 16 more careful assessment of the effect of puberty
 17 blockade in adolescents on bone health, gonadal
 18 function, and the brain?
 19 A. They're saying that they need more rigorous
 20 evaluations of effectiveness and safety of the
 21 current protocols.
 22 Q. And you agree with that, do you not?
 23 A. In general, I would always agree with the
 24 pursuit of even more rigorous research.
 25 Q. Insofar as you're aware, nowhere in the

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1 guidelines does the Endocrine Society tell the
 2 reader that the prolonged delay of puberty in
 3 adolescents is safe?
 4 A. We would need to turn to the section, the
 5 section in this document, that discusses puberty
 6 blockade further.
 7 Q. Well, before you said in your Expert Report
 8 that puberty blockade is safe. Did you not
 9 carefully review the Endocrine Society Guidelines
 10 to see whether the Endocrine Society thinks it
 11 safe?
 12 A. I certainly did. And if we're going to
 13 discuss it in depth today, it would be best to
 14 move to that section of this document.
 15 Q. And which section is it that you have in
 16 mind? Probably have 2.3 in mind, if I may.
 17 A. The entire section of 2.0, as it begins on
 18 page 3880, would be good to consider on this
 19 topic.
 20 Q. Well, I'll ask you this, due to shortness of
 21 time. 2.3 is the recommendation that says "where
 22 indicated, GnRH" -- that is, puberty suppression
 23 -- should be used "to suppress pubertal hormones,"
 24 correct?
 25 A. If pubertal suppression is being considered,

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1 a GnRH analog would be the proper medication to
 2 consider.
 3 Q. And in the discussion that follows, there is
 4 a section headed "Side Effects" on the next page.
 5 Do you see that?
 6 A. Yes.
 7 Q. And there, in the discussion of what they
 8 refer to as primary risks of pubertal suppression,
 9 the Endocrine Society lists first, compromised
 10 fertility; and second, unknown effects on brain
 11 development. Am I right?
 12 A. That's correct, that's what it says.
 13 Q. And then a few lines down, they go on to say
 14 that a recent study also suggested suboptimal bone
 15 mineral accrual; correct?
 16 A. "Initial data on gender dysphoric
 17 gender-incongruent subjects demonstrated no change
 18 of absolute Areal BMD during two years of GnRH
 19 analog therapy, but a decrease in bone mineral
 20 density Z scores."
 21 So what that means is that that particular
 22 study --
 23 Q. As you recall, is that the Klink study?
 24 A. No.
 25 Q. That's perhaps a more recent study, all

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1 right.
 2 A. This particular study analyzes mineral
 3 density by using Z scores. Z scores of bone
 4 mineral density are a statistical comparison to
 5 age-matched controls. But there are no controls
 6 for interpopulation differences. And it is well
 7 known that youth with gender dysphoria deal with,
 8 unfortunately, certain naturalistic risk factors
 9 for lower bone mineral density.
 10 Q. We're just speaking of risk factors, rather
 11 than causation, what the -- the third risk
 12 identified here, under the section "Side Effects"
 13 of puberty blockers by the Endocrine Society, is
 14 simply they point to a study that suggested
 15 suboptimal bone minimal accrual during puberty
 16 blockade treatment; correct?
 17 A. That's correct.
 18 Q. And they identify risk to fertility, risk to
 19 brain development, risk to bone accrual.
 20 My question for you is, so far as you
 21 recall -- we're not going to look through the
 22 whole document. I just want to ask if you recall
 23 today, does the Endocrine Society anywhere in
 24 these guidelines assert that prolonged pubertal
 25 suppression, that is, for a period let's say of

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1 three or more years, to treat gender dysphoria in
 2 adolescents is, to quote the term you use in your
 3 Expert Report, safe?
 4 A. In making the recommendation to offer
 5 puberty blockade to youth gender dysphoria, the
 6 Endocrine Society accounted for the safety profile
 7 and the risks and benefits of treating versus not
 8 treating.
 9 Q. Well, to say that they accounted for it is
 10 not to say that it's safe. It's to say that they
 11 performed some balancing of potential harms
 12 against potential benefits, correct?
 13 A. To me -- and it's my word that I use in my
 14 report, safe. To me, a consideration of safety
 15 requires balancing.
 16 Q. That is balancing of potential harms versus
 17 potential benefits.
 18 A. And the harms of treating versus not
 19 treating.
 20 Q. Yes. Okay. Let me ask to you to find the
 21 SOC-8 again. And if you turn to page 47, it, in
 22 the first column, more than halfway down, begins a
 23 paragraph "Providers may consider."
 24 A. I'm with you.
 25 Q. And there, WPATH authors write "Providers

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1 may consider the possibility an adolescent may
 2 regret gender-affirming decisions made during
 3 adolescence, and a young person will want to stop
 4 treatment and return to living in the
 5 birth-assigned gender role in the future."
 6 Correct?
 7 A. That's what it says.
 8 Q. They go on to cite certain studies the WPATH
 9 believes show that the likelihood of that is low;
 10 am I correct?
 11 A. That's correct.
 12 Q. But then they say, "At present, no clinical
 13 cohort studies have reported on profiles of
 14 adolescents who regret their initial decision or
 15 detransition after irreversible affirming
 16 treatment. Recent research indicates there are
 17 adolescents who detransition." Do you see that?
 18 A. Yes.
 19 Q. And at the top of the next page, it states
 20 "Some adolescents may regret the steps they have
 21 taken."
 22 Now, let me ask you, in using the word
 23 "regret" to describe the feelings of these
 24 individuals who undergo medical transition as
 25 adolescents and later change their view of

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1 their -- wish they had not go through those
 2 procedures, do you believe that WPATH was using
 3 harmful terminology?
 4 A. What terminology specifically are you
 5 referring to?
 6 Q. "Regret."
 7 A. I don't associate any harm with that word.
 8 Q. And similarly, when WPATH states that there
 9 are adolescents who detransition, do you have any
 10 objection to the use of the word "detransition" to
 11 describe an individual's return to identifying
 12 with his or her natal sex?
 13 A. I prefer birth sex re-identification because
 14 it's more specific and it tells you what it means.
 15 Q. Do you consider the term detransition to be
 16 misleading in any way?
 17 A. I consider it to be somewhat ambiguous.
 18 Q. What is the nature of the ambiguity you're
 19 concerned about?
 20 A. It's hard to describe ambiguity.
 21 Q. Well, you can point to some possible
 22 incorrect interpretation of it. Is there some way
 23 in which you believe that term is misleading?
 24 A. I believe that it could describe many
 25 different experiences or phenomena that may not

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1 necessarily be related. And that is where the
 2 ambiguity, in my mind, stems from.
 3 Q. The WPATH authors in column two, about an
 4 inch and half down, write "Providers should be
 5 prepared to support adolescents who detransition."
 6 Do you agree that it's important that
 7 providers support adolescents who choose to
 8 detransition?
 9 A. I believe that providers should support all
 10 adolescents in all areas of their life. And that
 11 includes agreeing with this sentence.
 12 Q. And you've described earlier that Yale has a
 13 multidisciplinary approach to providing care for
 14 minors with gender dysphoria, correct?
 15 A. That's correct.
 16 Q. And would you agree that providers,
 17 including mental health providers, should support
 18 adolescents who detransition?
 19 A. Yes, I do agree.
 20 Q. And farther down in that, at the very end of
 21 that paragraph, the authors write "Many of
 22 them" -- referring to -- well, to use their term,
 23 detransitioning minors -- Many of them expressed
 24 difficulties finding help during their
 25 detransition process and reported their

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1 detransition was an isolating experience during
 2 which they did not receive either sufficient or
 3 appropriate support." Do you see that?
 4 A. I do see that.
 5 Q. And as a pediatrician and clinician, does it
 6 cause you concern that as WPATH reports here,
 7 minors who have detransitioned have experienced
 8 difficulty in finding support from professionals?
 9 A. I don't read this as saying that these
 10 patients were unable to find support from
 11 professionals. It's more general than that. And
 12 I would need to source the study that they cite to
 13 learn more. And I will say that there are likely
 14 many different reasons why such an individual may
 15 experience challenges in receiving sufficient or
 16 appropriate support.
 17 MS. LEVI: I just want to get a time
 18 check.
 19 MR. BROOKS: I suspect that's it, right?
 20 (DISCUSSION HELD OFF THE RECORD)
 21 MR. BROOKS: Thank you for your time.
 22 See you in Birmingham. Why that has to be in
 23 August is another question.
 24 MS. LEVI: I do have a couple
 25 questions, --

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1 MR. BROOKS: Yes, ma'am.
 2 MS. LEVI: -- if I may. Do you need a
 3 minute?
 4 THE DEPONENT: I'm ready.
 5 MS. LEVI: I also want to give the
 6 attorney from the United States an opportunity if
 7 they want to ask some questions. So can we just
 8 take two minutes to figure out what we're going to
 9 do?
 10 MR. BROOKS: Of course, yes.
 11 (R E C E S S)
 12 CROSS-EXAMINATION
 13 BY MS. LEVI:
 14 Q. I have one question for you. Has anything
 15 that you heard or read today changed your expert
 16 opinion regarding the safety and efficacy of
 17 gender transition medications for adolescents
 18 diagnosed with gender dysphoria?
 19 A. No.
 20 MS. LEVI: I have nothing further.
 21 THE DEPONENT: Thank you.
 22 MS. LEVI: Coty, are you there?
 23 MS. MONTAG: I'm here, but no questions
 24 from the United States.
 25 MS. LEVI: Okay. I think we're off the

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1 record and concluded.
 2 THE REPORTER: Could I just get
 3 clarification on transcripts?
 4 MS. MONTAG: Yes, and I put my email and
 5 title and DOJ info in that chat.
 6 (WHEREUPON, the deposition was concluded
 7 at 5:22 p.m.)
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<p>Page 227</p> <p>1 CERTIFICATE</p> <p>2 I hereby certify that I am a Notary Public</p> <p>3 in and for the State of Connecticut duly</p> <p>4 commissioned and qualified to administer oaths.</p> <p>5 I further certify that the deponent named in the</p> <p>6 foregoing deposition was by me duly sworn and</p> <p>7 thereupon testified as appears in the foregoing</p> <p>8 deposition; that said deposition was taken by me</p> <p>9 stenographically in the presence of counsel and</p> <p>10 transcribed by means of computer-aided</p> <p>11 transcription by the undersigned, and the</p> <p>12 foregoing is a true and accurate transcript of the</p> <p>13 testimony.</p> <p>14 I further certify that I am neither of counsel nor</p> <p>15 attorney to either of the parties to said suit,</p> <p>16 nor of either counsel in said suit, nor related to</p> <p>17 or employed by any of the parties or counsel to</p> <p>18 said suit, nor am I interested in the outcome of</p> <p>19 said cause.</p> <p>20 Witness my hand and seal as Notary Public this</p> <p>21 26th day of March, 2024.</p> <p>22</p> <p>23 </p> <p>24 NOTARY PUBLIC</p> <p>25 My commission expires: 11/30/2027</p>	