EXHIBIT 39 SUBMITTED UNDER SEAL

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1	IN THE DISTRICT COURT OF THE UNITED STATES
2	FOR THE MIDDLE DISTRICT OF ALABAMA
3	NORTHERN DIVISION
4	
5	BRIANNA BOE, et al,
6	Plaintiffs,
7	and
8	UNITED STATES OF AMERICA,
9	Intervenor Plaintiff,
10	vs. Civil Case No. 2:22-cv-184-LCB
11	HON. STEVE MARSHALL, in his
12	official capacity as Attorney General
13	of the State of Alabama, et al,
14	Defendants.
15	
16	
17	The Remote Zoom Videoconference Deposition of
18	DANIEL SHUMER, M.D.,
19	Taken at 211 West Fort Street, Room 2330,
20	Detroit, Michigan,
21	Commencing at 9:11 a.m.,
22	Tuesday, April 2, 2024,
23	Before Leisa M. Pastor, CSR-3500, RPR, CRR.
24	
25	

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10	renee.williams3@usdog.gov	10	EXHIBIT 21 Clinical Study	158
11	coty.montag@usdog.gov	11	EXHIBIT 22 Article	161
12	Appearing on behalf of Plaintiff.	12	EXHIBIT 23 Article	165
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14	CHRISTOPHER MILLS	14	EXHIBIT 25 Article	178
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	Page 6	Τ	Page 8
1	Detroit, Michigan	1	A. Yes.
2	Tuesday, April 2, 2024	2	Q. Is it fair to say you agree with or follow the
3	9:11 a.m.	3	Endocrine Society's approach to medical gender
4		4	transition of minors?
5	DANIEL SHUMER, M.D.,	5	MS. WILLIAMS: Objection.
6	was thereupon called as a witness herein, and after	6	A. Yes.
7	having first been duly sworn to testify to the truth,	7	MARKED FOR IDENTIFICATION:
8	the whole truth and nothing but the truth, was	8	EXHIBIT 1
9	examined and testified as follows:	9	9:13 a.m.
10	MS. WILLIAMS: Renee Williams, United	10	BY MR. MILLS:
11	States.	11	Q. I'm going to show you what I'm marking as Exhibit 1.
12	MS. MONTAG: Coty Montag, United States.	12	Do you recognize this article?
13	EXAMINATION	13	A. Yes.
14	BY MR. MILLS:	14	Q. This is an article you coauthored; is that right?
15	Q. Good morning, Dr. Shumer. Thanks for coming today.	15	A. That's correct.
16	You've given deposition testimony before, right?	16	Q. And you were the lead author on this article?
17	A. Yes.	17	A. Yes.
18	MS. WILLIAMS: Oh, sorry, just before we	18	Q. And it was published in the Journal of Advanced
19	get started, we would like the to be able to	19	Pediatrics; is that
20	reserve and to read and sign, if that's okay.	20	(Knock at the door.)
21	MR. MILLS: Sounds good.	21	MS. WILLIAMS: Can we go off?
22	MS. WILLIAMS: All right.	22	MR. MILLS: Sure.
23	MR. MILLS: Anything else we need to cover?	23	(Off the record at 9:14 a.m.)
24	MS. WILLIAMS: I don't think so.	24	(On the record at 9:14 a.m.)
25	MR. MILLS: Okay. If we discuss any sealed	25	BY MR. MILLS:
	Page 7		Page 9
1	material, we'll designate those parts as sealed, but	1	Q. Okay. We can go back on, sorry.
2	we can get to that when we get there.	2	So this was published in Advanced
3	BY MR. MILLS:	3	Pediatrics?
4	Q. So yeah, of course if you don't understand a question,	4	A. I'm not sure if that's the title of the article. I
5	please free to ask for me to clarify. If you need a	5	think it might be Advances in Pediatrics.
6	break, just let me know. We'll aim to take regular	6	Q. Okay, Okay, I think you're right. Okay, perfect.
7	breaks, but also know that people would like to get home, so I'll try and balance those things.	7	Thanks. If you could look at page 2 with me just
8 9	If you could remember to answer verbally so	8 9	under the heading "Definitions." It says the first
10	the transcription can happen, that would be great.	10	sentence, "Gender identity describes one's internal
11	Did you meet with anyone to prepare for	11	feeling of gender, for example, boy or girl, man or
12	today's deposition?	12	woman, agender (identifying as having no gender), or a
13	A. I met with Renee and Coty here.	13	nonbinary understanding of one's gender."
14	Q. Did you discuss the deposition with anyone other than	14	Do you still agree with that definition?
15	your counsel?	15	A. Yes.
16	A. No.	16	MARKED FOR IDENTIFICATION:
17	Q. And did you review any documents in preparation for	17	EXHIBIT 2
18	today's deposition?	18	9:15 a.m.
19	A. Yes. I reviewed my expert report and rebuttal report	19	BY MR. MILLS:
20	and the defendant expert reports and yeah.	20	Q. Okay. I wanted to show you this was I'm handing
21	Q. Okay. Is it fair to say that you think the Endocrine	21	you what I'm marking as Exhibit 2. This is a question
22	Society is a reputable organization?	22	and answer you did with through the University of
23	A. Yes.	23	Michigan Medical School; is that right?
24	Q. Do you generally follow the Endocrine Society's	24	A. Yes.
25	guidelines?	25	Q. Could you look at page 1 under the bold "What is the
1		1	

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		1	
1	Page 10	1	Page 12 MARKED FOR IDENTIFICATION:
1	difference between sex and gender," the second	1	MARKED FOR IDENTIFICATION: EXHIBIT 3
3	sentence, "Gender identity is something you can't measure with a blood test or x-ray. It's only	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	9:19 a.m.
4		4	BY MR. MILLS:
	something a person can tell you about themselves from	'	
5	their lived experience."	5	Q. This is a scientific statement from the Endocrine
6	Do you still agree with that description? A. Yes.	6 7	Society.
7		1	Endocrinology is your specialty, right? A. Yes.
8	Q. You can go back to the first document again under "Definitions." This is the next sentence after the	8	
9		9	Q. And we've already talked about the Endocrine Society.
10	one we already read.	10	Do you recognize the names, any of the names who
11	"This is in contrast to biologic sex which	11	coauthored this statement?
12	describes the chromosomal, hormonal, and anatomic	12	A. I'm familiar with a couple of the names.
13	determinants which result in characterizing people as male or female."	13	Q. If you could look at page 2 with me the first
14		14	paragraph under the line kind of in the middle of the
15	Do you still agree with that?	15	page. Yeah, page 2.
16	A. Yes, but I would add that due to the biologic	16	It says, "Sex is an important biological
17	underpinnings of gender dysphoria, I would include	17	variable that must be considered in the design and
18	gender dysphoria as a component of sex. Q. So you don't think that gender identity is in contrast	18	analysis of human and animal research. The terms sex
19 20	to biologic sex any more?	19	and gender should not be used interchangeably. Sex is
	-	20 21	dichotomous with sex determination in the fertilized
21 22	A. So I think that the the definition of gender identity is is an internal sense of one's self as	22	zygote stemming from unequal expression of sex"
23	outlined here, boy, girl, man, or woman, agender or	23	COURT REPORTER: Can you slow down just a
23	nonbinary.	24	hair, please? MR. MILLS: Sure.
25	If I were writing this paragraph again, I	25	COURT REPORTER: You lost me at zygote.
23		23	
1	Page 11 don't think I would use the words "in contrast," and I	1	Page 13 BY MR. MILLS:
2	would include gender identity as a component of	2	Q. "Sex is dichotomous with sex determination in the
3	biologic sex.	3	
4			fertilized zygote stemming from unequal expression of
	O Has something changed since you wrote this in 2017		fertilized zygote stemming from unequal expression of
5	Q. Has something changed since you wrote this in 2017 that would lead you to change that description?	4	sex chromosomal genes."
5	that would lead you to change that description?	4 5	sex chromosomal genes." Did I read that correctly?
6	that would lead you to change that description? A. Yes, my understanding of gender identity as as	4 5 6	sex chromosomal genes." Did I read that correctly? A. Yes.
6 7	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings.	4 5 6 7	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean?
6 7 8	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in	4 5 6 7 8	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and
6 7 8 9	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding?	4 5 6 7 8 9	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate.
6 7 8 9 10	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships	4 5 6 7 8 9	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the
6 7 8 9 10 11	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the	4 5 6 7 8 9 10 11	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote?
6 7 8 9 10 11 12	 that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including 	4 5 6 7 8 9 10 11 12	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and
6 7 8 9 10 11 12 13	 that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with 	4 5 6 7 8 9 10 11 12 13	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I
6 7 8 9 10 11 12 13 14	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to	4 5 6 7 8 9 10 11 12 13 14	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that.
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6 7 8 9 10 11 12 13 14 15 16 17	 that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to population-based brain anatomic differences. Q. And which studies in particular have come out since this was published in August 2017 that would support 	4 5 6 7 8 9 10 11 12 13 14 15	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that. Q. So you agree that sex is dichotomous? A. I don't I don't know that I agree with with that specifically. I agree with it when talking about
6 7 8 9 10 11 12 13 14 15 16 17 18	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to population-based brain anatomic differences. Q. And which studies in particular have come out since this was published in August 2017 that would support that description?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that. Q. So you agree that sex is dichotomous? A. I don't I don't know that I agree with with that specifically. I agree with it when talking about chromosomal sex being XX or XY predominantly, but I
6 7 8 9 10 11 12 13 14 15 16 17 18 19	that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to population-based brain anatomic differences. Q. And which studies in particular have come out since this was published in August 2017 that would support that description? A. I think many of the studies that are related to those	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that. Q. So you agree that sex is dichotomous? A. I don't I don't know that I agree with with that specifically. I agree with it when talking about chromosomal sex being XX or XY predominantly, but I think saying that sex is dichotomous misses some of
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to population-based brain anatomic differences. Q. And which studies in particular have come out since this was published in August 2017 that would support that description? A. I think many of the studies that are related to those topics that I outlined came out before 2016; however, 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that. Q. So you agree that sex is dichotomous? A. I don't I don't know that I agree with with that specifically. I agree with it when talking about chromosomal sex being XX or XY predominantly, but I think saying that sex is dichotomous misses some of the nuance of how sex can be more complicated.
6 7 8 9 10 11 12 13 14 15 16 17 18 19	 that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to population-based brain anatomic differences. Q. And which studies in particular have come out since this was published in August 2017 that would support that description? A. I think many of the studies that are related to those topics that I outlined came out before 2016; however, my thinking through these topics and understanding how 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that. Q. So you agree that sex is dichotomous? A. I don't I don't know that I agree with with that specifically. I agree with it when talking about chromosomal sex being XX or XY predominantly, but I think saying that sex is dichotomous misses some of the nuance of how sex can be more complicated. Q. If you could flip to page 10 of this document. On the
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 that would lead you to change that description? A. Yes, my understanding of gender identity as as having biologic underpinnings. Q. And what is the basis for that change in understanding? A. Research outlining those biologic relationships between gender identity, and research outlining the biologic underpinnings of gender identity, including twin studies, studies related to children with disorders of sex development, studies related to population-based brain anatomic differences. Q. And which studies in particular have come out since this was published in August 2017 that would support that description? A. I think many of the studies that are related to those topics that I outlined came out before 2016; however, my thinking through these topics and understanding how gender identity and sex are related and intertwined 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	sex chromosomal genes." Did I read that correctly? A. Yes. Q. What does dichotomous mean? A. I would I would say dichotomous means two and separate. Q. And do you agree that sex is determined in the fertilized zygote? A. I think that they're referring to chromosomal sex, and if they're if my assumption is correct, then I would agree with that. Q. So you agree that sex is dichotomous? A. I don't I don't know that I agree with with that specifically. I agree with it when talking about chromosomal sex being XX or XY predominantly, but I think saying that sex is dichotomous misses some of the nuance of how sex can be more complicated.
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4 (Pages 10 - 13) Veritext Legal Solutions

gender cannot influence sex."

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Exhibit 3.

Page 14 Page 16 Would you agree with that statement? 1 1 A. That's correct. 2 A. Well, there's a lot of parts of that, so let me try to Q. And gender dysphoria is not a DSD? 3 break it down. A. That's correct. 4 Gender is a human phenomenon. I agree that Q. Transgender status is not a DSD, correct? 5 humans have gender identity. I'm not sure if other A. That's correct. 6 animals have gender identity, so I think that I would 6 Q. And when you treat transgender patients with gender 7 7 agree with that. dysphoria, you are not treating an endocrine disorder; 8 8 Sex often influences gender. I think that is that right? 9 makes sense to me. A. That's correct. Well, I would say that I'm treating a 10 Gender cannot influence sex, I think that 10 disorder with hormones. So whether we call that an 11 -- to me that means that someone's gender identity 11 endocrine disorder or not, they don't have --12 doesn't influence the other components of sex, so in 12 typically they don't have an abnormality in their sex 13 that way I would agree, but I would also put forward 13 hormone production as it relates to their sex assigned 14 that my definition of sex includes gender identity as 14 at birth. 15 15 Q. But transgender status is not an endocrine disorder, a component. 16 Q. So you would say this statement is wrong because it 16 correct? 17 17 just says outright gender cannot influence sex? MS. WILLIAMS: Objection. 18 A. No, that's not what I said. I don't think that gender 18 A. I think that -- that the semantics there are hard for 19 identity can influence the other components of sex so 19 me to parse out. You know, I think it's a disorder 20 I wouldn't disagree with that. 20 that endocrinologists treat. We treat it with 21 21 Q. But you would agree this statement doesn't say "other hormonal interventions, so whether it's called an 22 22 components," it just says "sex"? endocrine disorder or not, you know, I think is not 23 23 A. I agree that it doesn't say "other components." important. 24 Q. So you wouldn't have written this like it's written? 24 BY MR. MILLS: A. I don't think I would have. Q. But in 2017, you wrote the vast majority of 25 Page 15 Q. If you could flip to page 8, near the top of the first 1 1 transgender persons do not have an endocrinopathy, or column, the second sentence, "Gender identity is a 2 2 as you said, an endocrine disorder, so are you 3 3 psychological concept that refers to an individual's changing your view on that since 2017? 4 self perception." A. No, I'm saying in this article that we're not treating 5 Do you agree with that statement? 5 hormonal perturbation or a hormone problem. An 6 6 endocrinologist is treating transgender people with 7 7 Q. I wanted to go back to Exhibit 1, which was your hormones, so whether we call that an endocrine problem 8 8 article in the Advances in Pediatrics. This is on or not, I think that could be open for debate. 9 page 5. At the end of the second to last paragraph 9 Dismissing that transgender status is an 10 10 the last sentence says, "Yet, the vast majority of endocrine problem out of hand I think misses the 11 transgender persons do not have an identified DSD or 11 larger point that endocrinologists treat transgender 12 endocrinopathy." 12 people with gender dysphoria. 13 13 Did I say that right? Q. And gender dysphoria is not an endocrine disorder? 14 14 A. You did. Q. A DSD refers to a disorder of sexual development? Q. The Endocrine Society's statement we looked at a 15 15 16 A. That's correct. 16 minute ago refer to different levels of sex steroids. 17 Q. And what does endocrinopathy mean? 17 What is the typical level of testosterone 18 in an adult male? 18 A. An endocrine disorder. 19 Q. And so do you agree with this statement that the vast 19 A. Typical level of testosterone in an adult male is 20 20 majority of transgender persons do not have either roughly 200 to 900 nanograms per deciliter. 21 one? 21 Q. What about the typical level of estrogen in an adult 22 A. Yes. 22 23 Q. So when you treat transgender persons with gender 23 A. It's low, less than 30 picograms per deciliter, if I'm

Case 2:22-cv-00184-LCB-CWB

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correct?

dysphoria, you are not typically treating for a DSD,

5 (Pages 14 - 17)

Q. And what is the typical level of estrogen in an adult

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getting my units correct.

		Page 18		Page 20
1		female?	1	is about the third sentence down.
2		The typical level of estrogen in an adult female	2	"The term transgender typically refers to
3		varies through the month, but it can be between 50 and	3	those individuals for whom genotype and phenotype are
4		300 picograms per deciliter.	4	mismatched, therefore, biologically male children may
5		And what is the typical level of testosterone in an	5	self-identify as female and vice versa, or youth may
6		adult female?	6	not fit neatly into either category."
7		Generally I would say less than 40 nanograms per	7	Do you understand the term transgender to
8		deciliter.	8	include youth who, as you sit here, do not fit neatly
9	Q.	And do these levels that you've just said assume any	9	into either category?
10		medical treatments?	10	A. I think generally transgender is an umbrella term to
11	A.	These are typical normal ranges for biologic men and	11	define someone whose gender identity does not match
12		women not on medical treatments.	12	their sex assigned at birth.
13	Q.	So assuming no medical treatment, still is the typical	13	Q. So a person who considers them self nonbinary could be
14		testosterone level of an adult transgender woman the	14	transgender; is that right?
15		same as an adult natal male?	15	A. Yes.
16	A.	It likely would be.	16	Q. And a person who considers them self agender could be
17	Q.	Is that also true of estrogen?	17	transgender?
18	A.	Yes.	18	A. Yes.
19	Q.	And is the typical estrogen level of an adult	19	Q. And a person who considers themselves gender queer
20		transgender male the same as an adult natal female?	20	could be transgender?
21	A.	I would expect it to be.	21	A. Yes.
22	Q.	And that's also true of testosterone?	22	Q. So if you want to flip to page 8 in that same document
23	A.	Yes.	23	with me.
24	Q.	So those typical levels are manifestations of the	24	COURT REPORTER: If you could hold on for
25		person's biological sex; is that right?	25	one second, somebody rang in here.
		Page 19		Page 2
1		Yes.	1	It's okay.
2		Is there a typical level of those two sex steroids,	2	BY MR. MILLS:
3		testosterone and estrogen, in transgender adults?	3	Q. So we're on page 8 just before the heading toward the
4		So did we just answer that for untreated transgender	4	bottom, this is the second to last sentence before the
5		adults?	5	"Challenges and Dilemma" heading.
6	_	Mm-hmm.	6	"We also want to ensure that the child
7		Yes.	7	adolescent who may be gender variant does not feel
8	Q.	So the I'll ask it a different way.	8	compelled to choose a gender male/female when in
9		The typical level of those two sex steroids	9	actuality they may not fit into a typically recognized
10		in transgender adults would depend on whether they've	10	gender identity."
11		been treated with hormones; is that fair to say?	11	So some youth with divergent gender
12		The goal of treatment in someone being treated with hormones for gender dysphoria would be to bring their	12	identities may not have the opposite identity as their biological sex; is that right?
14		hormone levels in line with that which is typical of	13 14	A. Although most patients that I see do identify as the
15		other people of that sex.	15	other sex, there are some individuals that identify
16		Okay. I'm going to show you what I'm marking as	16	somewhere somewhere else on a gender spectrum.
10		Exhibit 4.	17	Q. How many gender identities would you say there are?
17				
17 18		MARKED FOR IDENTIFICATION:	18	A. I don't think of gender identities would you say there are.

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EXHIBIT 4

Q. This is an article you published with some others, is

Q. If you could flip to page 2 at the top with me. This

that right, concerning transgender youth?

9:31 a.m.

21 BY MR. MILLS:

sex as a biological variable," page 9, and looking at 6 (Pages 18 - 21)

gender identities. Gender identity is a concept of

Q. If you could flip back to the Endocrine Society's

scientific statement, this is what we marked as

Exhibit 3, with me, and I'm going to page 9 of this

document. This is the "Endocrine Society considering

knowing oneself and one's gender.

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demonstrated?

Do you agree that a clear causative

underpinning of gender identity remains to be

A. I agree that we don't have biologic variable that

7 (Pages 22 - 25)

childhood to adolescence to adulthood.

boy, girl, man, woman, and I would describe gender

development as the -- the progress of understanding

gender as one grows from infancy to toddlerhood to

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Society scientific statement, this is Exhibit 3, and

Page 26 Page 28 1 Q. So a factor that influences gender development would 1 if you'd go to page 9, the bottom of the first column. 2 2 necessarily influence gender identity; is that right? The very bottom of the first column says, 3 A. I don't know. I think the -- the point here is that 3 "Attempts to identify specific genes governing gender 4 gender identity is a really complicated human 4 identity have been plagued by small numbers of 5 5 characteristic that probably has lots of different subjects and low statistical significance." 6 inputs and factors. 6 Do you agree with that statement? 7 The -- the factors here, the relationship A. I would -- I would just back up for a second and put 8 8 between parent and infant, cognitive learning, this in context because the sentence before says 9 9 parental expectations and societal norms, may they genetics may play a role in gender identity. 10 influence gender identity? I think it's possible. I 10 Monozygotic twins have a 39 percent 11 think that we have a -- a -- we have a really 11 concordance for gender dysphoria, which I think 12 complicated human characteristic here that -- that is 12 references one of the articles that I included in my 13 incompletely understood, but -- but the assertion that 13 expert report. So the following sentence that you 14 there's biologic factors that are related to it 14 read I would agree is that those studies that -- that 15 15 remains -- remains clear. highlight that point are relatively small, and so Q. If the postnatal environment is important in gender 16 16 further study to help understand the genetics of 17 development, do you agree that it is desirable to 17 gender identify would certainly be helpful. 18 structure that environment in such a way that a child 18 Q. And if it were purely genetic, monozygotic twins would 19 becomes comfortable with their natal sex so they don't 19 have a 100 percent concordance for gender dysphoria; 20 have to undergo medical gender transition? 20 is that right? 21 21 MS. WILLIAMS: Objection. A. Yeah, I think I tried to explain this in more detail 22 22 A. I think in the best case scenario a child would in my rebuttal report, but there are certain medical 23 23 understand that whatever their gender identity is conditions that we would call Mendelian traits which 24 would be met with love and support. 24 involve a specific gene, and one -- one gene when --25 BY MR. MILLS: 25 when mutated, for example, or -- or when there's a Page 29 1 certain allele will 100 percent of the time express Q. I'm going to show you what I'm marking as Exhibit 6, 1 2 2 which is an article you coauthored entitled that condition. 3 3 "Transgender and gender nonconforming adolescent care, So, for example, Huntington's disease is a 4 psychosocial and medical considerations." 4 Mendelian trait where you have that gene 100 percent 5 MARKED FOR IDENTIFICATION: 5 of the time you'll have Huntington's disease, but many 6 6 **EXHIBIT 6** human characteristics while there is a genetic link 7 7 9:43 a.m. are not 100 percent, you know, gene equals outcome. 8 BY MR. MILLS: 8 Q. Sure. So the next sentence here is, "No specific gene 9 9 has been reproducibly identified." Q. This was an article you coauthored; is that right, 10 Dr. Shumer? 10 Would you agree with that? A. Yes. 11 11 A. Correct. There's not a specific gene when mutated a 12 Q. If you could look at page 2, the second paragraph 12 certain way or when a certain allele is present would 13 under "Gender Identity," the second paragraph there, 13 be 100 percent predictive of a certain difference or 14 the second sentence. 14 lack of difference in gender identity. 15 15 "For example, a prepubertal child who is Q. So if we go up to the second sentence in the big 16 gender nonconforming or has apparent gender dysphoria 16 paragraph in the first column on page 9 it says, "A 17 17 may or may not identify as transgender later in life." general issue is that the association of sex, gender 18 18 Would you still agree with that statement? or sexual orientation with specific brain structures 19 19 or with other biological variables does not establish A. Yes. 20 20 Q. So some children with gender dysphoria will identify whether the biological variables are causes or 21 21 with their biological sex later in life? consequences or noncausal correlates of the behavioral 22 22 A. Yes. contribution or function of the individuals studied." 23 23 Q. Sorry, I'm just getting back to where we are. Do you agree that that issue remains sort 24 24 If we could flip back to the Endocrine of an open question in the studies you discussed?

8 (Pages 26 - 29)

A. So that's a complicated question, so let me just try

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studies that -- that I referenced in my report, I think each time we'd have to think about how that could be and not discount it out of hand that -- that the cause and effect could be one way versus the other.

> Page 31 So if we -- if we take individual studies,

we could try to answer that question more -- more specifically.

- 4 Q. But you agree that this could be an issue with 5 specifically the brain studies?
- 6 A. So I think this comes up a lot in -- in -- in brain 7 studies where, let's say, there's a difference in a
- 8 brain structure in someone with a certain
- 9 characteristic, is that -- is there something that
- 10 caused that difference that is also attributed to the 11 condition we're talking about, or is -- is the 12 causation the other way around. And so that could be

13 something that you would need to think about with 14

brain studies.

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And -- and so, you know, when we're thinking about gender identity as this variable, you know, I think, you know, whether or not the difference occurred after hormone exposure or before, those sorts of questions would be important to think through when you're trying to understand the importance of the study in answering your question.

MARKED FOR IDENTIFICATION:

23 **EXHIBIT 7**

24 9:51 p.m.

25 BY MR. MILLS:

Page 30

Page 32 1 Q. I'm showing you what I'm marking as Exhibit 7, which

2 is an article by a professor of psychology Kristina 3

Are you familiar with her work?

5 A. Yes.

4

6 Q. Sorry, I may have given you two copies; just ignore 7 one of them.

8 Is she generally a knowledgeable person in 9 this field of gender identity and gender dysphoria?

10 A. I don't know what area we're going to be talking 11

12 O. And how are you familiar with her?

13 A. She -- she presented -- she published studies related 14 to gender identity outcomes, I believe, related to

15 social transition and comparing children with their 16 peers and other unrelated -- unrelated age-matched

17 controls, and that's how I'm most familiar with her 18 work.

19 Q. I'm -- if you want to flip to page 6 of the page 20 numbers that are at the bottom here, the first full 21 paragraph the end of the paragraph says, "Whereas, the 22

topic" -- sorry, I'll go back. 23 So this paragraph is talking about 24 neuroscience studies about the brain structures of

25 trans people. The end of the paragraph says,

1 "Definitive conclusions about genetic and neural

> correlates of gender identity remain elusive." 3 Would you agree with that statement?

4 A. If you don't mind --

5 O. Sure.

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6 A. -- I'd just like to read the whole paragraph to

7 myself --

8 Q. Of course.

9 A. -- for a second.

> Yes, I think the whole paragraph nicely summarizes sort of a lot of the topics we've been talking about, how we have these differences that we've measured in the brains of transgender people, that forming a causative link is difficult in these types of studies, and so I certainly I don't disagree with the sentence that you read, and I would just add that, you know, by presenting -- bringing the study data in my expert report, I'm certainly not purporting a causative link to a certain size nuclei equals a certain gender identity, but rather using that to expand on the -- or to include it in the data that helps to demonstrate this biologic origin of gender identity.

24 Q. Do you agree that the brain studies you cited in your report analyzing gender identity did not control for

9 (Pages 30 - 33)

Page 33

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Page 36 1 connote gender dysphoria or desire to seek an 2 intervention." 3 So is it correct to say that some 4 transgender persons do not have gender dysphoria? 5 A. Yes. Q. And for transgender persons without gender dysphoria, 6 7 medical gender transition would not be proper; is that 8 right? A. That's correct. 10 Q. Even for some transgender persons with gender 11 dysphoria, medical gender transition might not be 12 proper; is that right? 13 A. Sorry, can you way that one more time? 14 Q. Sure. So I'm talking about transgender persons with 15 gender dysphoria, medical gender transition in the 16 sense of puberty blockers and cross X hormones would 17 not necessarily be the proper course of treatment; is 18 that right? 19 A. In assessing anyone with gender dysphoria, medical 20 transition would be considered as an option and may or 21 may not be appropriate. 22 Q. Can individuals who do not identify as transgender 23 have gender dysphoria? 24 A. Well, you said in an individual who does not identify as transgender, so I think to me that means that that 25 Page 37 1 person them self is applying that term transgender to 2 their identity, so there may be -- may be a person 3 that identifies as a sex different from their assigned 4 sex at birth that eschews the term transgender and, 5 therefore, wouldn't themselves state that they 6 identify as transgender that have gender dysphoria, 7 but in my definition of transgender, which is a person 8 whose gender identity is different than their sex 9

6 BY MR. MILLS: 7 Q. -- which is a chapter that you wrote in a book 8 entitled Transgender Medicine. 9 And do you recall this chapter? 10 A. Yes. 11 Q. Sorry, there's two pages of preliminary material, but 12 then Chapter -- it looks like you were a coauthor of 13 Chapter 9, entitled "Endocrine care of transgender 14 children in adolescence"; is that right? 15 A. Yes. 16 Q. If you could flip to -- sorry, the pages are a little 17 conflicting here -- page 166, which is the second page

of your chapter; it just skips ahead to your chapter.

Q. That's right. And this is in the middle of the page

individuals who identify with a gender that is

You wrote, "An umbrella term describing

different from gender assigned at birth may or may not

you're defining the term transgender.

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There we go.

A. 166?

assigned at birth, then, no, someone would need to fit 10 that definition to have gender dysphoria. 11 I'm not sure if I explained that. 12 Q. I think I understand. Thanks. 13 14 Q. So you would potentially treat an individual who does 15 not identify as transgender but has gender dysphoria 16 if you considered them to be transgender? 17 A. I don't think that -- I don't think of transgender as 18 a medical term, so I'm really as a pediatric 19 endocrinologist more interested if they have gender 20 dysphoria. 21 Q. Do you diagnosis gender dysphoria under the DSM-5

without the input of a psychiatrist or psychologist or
 other mental health professional?
 MS. WILLIAMS: Objection.

5 A. So there's a couple parts to that question. I

10 (Pages 34 - 37)

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"The psychological evaluation performed is not

batteries of psychological screening."

standardized with different clinics performing diverse

11 (Pages 38 - 41)

to see where that patient's gender identity half

progresses over time would be a helpful tool.

Q. But to go back to my question, it is possible that the

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	Page 42		Page 44
1	same child would be could be diagnosed with gender	1	others," "and an item on the maladaptive subscale,
2	dysphoria in one by one provider and not by another	2	"Does not change behavior to match the environment,"
3	provider?	3	"might capture expected observations in the gender
4	A. I don't think that's very likely. I think that it's	4	dysphoria child.
5	hard to say that that would be impossible, but the	5	"Thus, scrupulous attention to symptomology
6	the DSM pretty clearly outlines how to make this	6	during ASD diagnostic evaluation of gender
7	diagnosis so I wouldn't expect that to happen.	7	nonconforming youth is essential to minimize any risk
8	Q. You said that children in this country are generally	8	of misclassifying gender dysphoric youth with high
9	treated in pediatric gender clinics. What is the	9	functioning ASD due to symptom overlap."
10	basis of that statement?	10	And then the next sentence, "Importantly,
11	A. As someone that works in the field, I I have	11	certain symptoms may be associated with both
12	knowledge of the options for pediatric patients and	12	diagnoses, but stem from vastly different origins."
13	where they're able to receive the care that they need.	13	Do you still agree with that discussion?
14	Q. Do you know what percentage of children with gender	14	A. Yes.
15	dysphoria who are undergoing medical transition are	15	Q. And so would you agree that there's also risk of
16	treated in pediatric gender clinics?	16	misclassifying high-functioning ASD youth as gender
17	A. I don't know a percentage, but I expect it to be very	17	dysphoric?
18	high.	18	A. Give me one second.
19	Q. You're not aware of a survey of children with gender	19	Q. Yeah.
20	dysphoria being medically transitioned as to in what	20	A. It's a complicated paragraph, so let me just reread
21	context they're being treated?	21	it.
22	A. If there's a survey, I don't recall it.	22	So the paragraph that we read was talking
23	Q. And you're not aware of what percentage of children in	23	about how patients with gender dysphoria may be over
24	Alabama are treated at a pediatric gender clinic	24	classified as ASD simply because of some of these
25	there?	25	examples on the ASDS.
	Page 43		Page 45
1	A. No.	1	So your question is a reverse, correct?
2	Q. Are you aware of any pediatric gender clinics in	2	Could patients with gender dysphoria be misclassified
3	Alabama?	3	and really have ASD?
4	A. I don't I'm not intimately familiar with any	4	Q. (Shakes head in the positive.)
5	pediatric gender clinics in Alabama, although I have	5	A. I think that's harder for me to explain. So I'm not
6	an awareness that there is one in Birmingham.	6	I'm not sure that that's what this paragraph would
7	Q. And you're not familiar with any others?	7	support.
8	A. No.	8	Q. So why would the symptom overlap only lead to a risk
9	Q. Do you know of any way of gathering data on children	9	of error in one direction?
10	who are treated outside of pediatric gender clinics in	10	A. Because these questions appear appears to be aware
11	terms of how many children are treated that way?	11	that he or she is different from others and does not
12	A. No.	12	change behavior to match environment. These are
l .		-	J

Q. So to go back to this paper, in the second column in 13 14 about the middle of that big paragraph you say, "Some items on the ASDS may be naturally observed in non-ASD 15 15 16 gender dysphoric youth" --

A. My apology, I'm not following you yet. Where are we? 17

- 18 Q. Sure, sure. So the second column on 389, and we're in
- 19 the one, two, three, fourth sentence. You say, "For
- 20 example."
- 21 A. "For example," gotcha, yeah.
- 22 Q. "For example, some items on the ASDS may be naturally 22
- 23 observed in non-ASD gender dysphoric youth,
- 24 specifically an item on the cognitive subscale,
- 25 "Appears to be aware that he or she is different from

13 questions that are trying to diagnose autism spectrum 14 disorder, but they're not questions that you would use to diagnose gender dysphoria.

16 Q. You don't think those questions could be relevant

under the DSM-5?

- 18 A. Pertaining to the diagnosis of gender dysphoria?
- 19 Q. That's right.
- 20 A. Not without context including discussion of gender 21 identity, no.
- Q. I'm showing you what I'm marking as Exhibit 10, which 23 was an article you coauthored, "Mental health of 24 transgender youth in care at an adolescent urban 25

community health center."

12 (Pages 42 - 45)

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health by a person that is competent in performing

that evaluation is something that I believe to be

	Page 46		Page 48
1	Do you recognize this article?	1	important.
2	A. Yes.	2	BY MR. MILLS:
3	MARKED FOR IDENTIFICATION:	3	Q. And you would agree that the WPATH standards call for
4	EXHIBIT 10	4	a comprehensive psychosocial assessment by a qualified
5	10:12 a.m.	5	mental health provider, right?
6	BY MR. MILLS:	6	A. I'm not sure if those are the exact words, but
7	Q. If we could just go to page 8 of the article under	7	something to that effect is something that I would
8	"Conclusion" the first paragraph. This is the last	8	support.
9	two sentences of that first paragraph under	9	Q. So if that doesn't happen, you would say that the
10	"Conclusion."	10	patient has not received the standard suggested by
11	"Patients with a transgender identity or	11	WPATH?
12	history should be recognized as having higher risk for	12	A. If they haven't received the care as outlined by WPATH
13	mental health concerns and should be carefully	13	Standards of Care, then they haven't received the
14	screened and evaluated. Patients identified with	14	standard of care as outlined by WPATH by definition.
15	cooccurring transgender identity and mental health	15	Q. And would you say that would then be a substandard
16	concerns should be seen by a mental health provider	16	quality of care?
17	who is qualified to provide evidenced-based care with	17	MS. WILLIAMS: Objection.
18	sensitivity to the diversity of gender identity and	18	A. I don't know if there's a specific definition for
19	expression."	19	substandard quality of care, but it wouldn't be the
20	Why do you think this is important?	20	type of care that I would support or suggest.
21	A. I think the first sentence is important to point out	21	BY MR. MILLS:
22	that the pediatric transgender population is	22	Q. In the context of medical gender transition, should
23	vulnerable from a mental health standpoint and having	23	the treating endocrinologist be aware of cooccurring
24	extra mental health support in place when managing	24	psychiatric conditions the patient may have?
25	gender dysphoria is critical.	25	A. Sorry, can you repeat that once more?
	Page 47		Page 49
1	I think the second sentence is important	1	Q. Sure. So within medical gender transition for
2	because if someone has gender dysphoria and you're	2	patients with gender dysphoria, should the treating
3	treating that gender dysphoria, but they have unmet	3	endocrinologist be aware of cooccurring psychiatric
4	other unmet psychiatric needs, like depression or	4	conditions the patient may have?
5	anxiety that are unrelated to their gender dysphoria,	5	A. Yes.
6	that by not managing those things, you're not	6	Q. And should the treating endocrinologist be aware of
7	maximizing that child's health and potential.	7	other issues that may affect gender dysphoric
8	Q. Do you think this screening and evaluation should	8	treatment such as a past history of sexual trauma?
9	occur before any medical interventions?	9	A. That one's a little bit harder for me to answer. I
10	A. I do think that assessment of a patient's overall	10	think that it it if that history of sexual
11	mental health is important prior to proceeding with a	11	trauma was important in the narration of that child's
12	medical intervention, yes.	12	gender identity, then then yes, but not I
13	Q. So if a patient is not seen by a qualified mental	13	wouldn't suggest that all sexual trauma would impact
14	health provider before medical intervention, you would	14	one's gender identity, so it's so I'm not sure.
15	say that would be a substandard quality of care?	15	Q. In your experience, is it common for the sexual trauma
16	MS. WILLIAMS: Objection.	16	to not affect gender identity?
17	A. My if we think about the, you know, WPATH Standards	17	A. Yes.
18	of Care, the recommendation is to involve a	18	Q. Would you agree that the mental health provider
19	multidisciplinary team when providing care to gender	19	working as part of an interdisciplinary team should
20	dysphoric youth, so there are certainly many ways to	20	still know about issues that may affect gender
21	do that, and so the composition of that team could	21	dysphoria treatment such as a past history of sexual
22	look different in different places, but having	22	trauma?
23	having some sort of evaluation of a child's mental	23	A. So we're in that question assuming that past history
24	health by a margan that is assume tent in marfamains	24	of savual trauma does impact one's gander identity, so

13 (Pages 46 - 49)

of sexual trauma does impact one's gender identity, so

I -- I'm not sure that I can answer that question

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sure.

23 Q. Sure. Do you know the error rate of diagnosing gender 24 dysphoria?

A. Well, I would say that -- that because there's 25

seeing a patient, you know, the fact that they meet 1 criteria for gender dysphoria is only one component of 2 -- of the decisionmaking. That -- that much more

But I -- I -- I would -- I would posit

that, you know, when I'm -- when I'm thinking about

your question clinically and I'm the endocrinologist

3 important to me is the richness of that psychosocial 4 assessment. 5 So -- so I think we're missing the boat if 6

we're focused on meeting the -- you know, what the error rate of gender dysphoria is. Someone could have or not have gender dysphoria, but that -- what's more important to me as the clinician is understanding what their -- how their gender identity impacts their life and whether or not, you know, they require any medical intervention.

- Q. Would you treat a patient who does not have gender 14 dysphoria with medical gender transition?
- 15 A. They wouldn't require it because there's not distress 16 associated with their gender identity difference.
- 17 Q. So it does matter to your treatment whether they have 18 gender dysphoria?
- 19 A. Right. That would be the basic low bar that would 20 qualify someone to consider treatment, but certainly 21 not sufficient.
- 22 Q. By low bar, what do you mean?
- 23 A. If you don't have gender dysphoria, you don't require 24 a medical intervention.
- 25 Q. Is it possible to misdiagnose gender dysphoria?

Page 51

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specific criteria that -- that you use to diagnose gender dysphoria, the -- the clinician that's using those criteria wouldn't have the ability to have an error in making the diagnosis if using that criteria. I think what you're asking is does that

diagnosis of gender dysphoria and the subsequent treatment is that the correct treatment for that particular person. So I'm not sure I've explained that right, so let me -- let me try again.

of me, they either meet the criteria for gender dysphoria or they don't. So in that time and place there wouldn't be an error rate, but that's not the question that's relevant, right? The question is what do we do with that information.

You know, if a person is sitting in front

Q. So you said wouldn't have the ability to make an 16 17 error. Are you saying that someone applying the DSM-5 18 criteria could not make an error in diagnosing gender 19 dysphoria?

20 A. I'm saying that if you're sitting with a patient and 21 you're going through the criteria for gender

22 dysphoria, it's you either meet each criteria or you

23 don't, and then as a sum, you either do have the

24 diagnosis of gender dysphoria or you don't in that 25

interview that day and time.

14 (Pages 50 - 53)

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Q. If they were not experienced in making the diagnosis,

would you expect their rate to be higher?

A. I don't -- I don't know that the error rate would be

high for anyone that's familiar with how to use the

	Page 54		Page 56
1	A. I think that I tried to answer that question already.	1	DSM, and if someone isn't familiar with using the DSM,
2	Q. I'm going to mark as Exhibit 11 a deposition you gave	2	then they probably wouldn't be making the diagnosis in
3	in another case, Casey versus individual members of	3	the first place, so the question seems a bit abstract.
4	medical licensing board.	4	Q. You would say a person not familiar with the DSM
5	MARKED FOR IDENTIFICATION:	5	should not be making the diagnosis of gender
6	EXHIBIT 11	6	dysphoria, correct?
7	10:25 a.m.	7	A. Correct.
8	BY MR. MILLS:	8	Q. Do patients ever lie?
9	Q. If you could flip to page 41 and these are just	9	A. About anything?
10	excerpts because it was quite long. So this is the	10	Q. Mm-hmm.
11	small page 41.	11	A. Sure.
12	A. Oh, gotcha.	12	Q. Do adolescent patients ever lie?
13	Q. Under line 15 to 16 you said, "I don't know what the	13	A. Sure.
14	error rate of diagnosis of gender dysphoria is."	14	Q. Just a few more questions and then we can take a
15	Did I read that correctly?	15	break, if that works for everyone.
16	A. You did.	16	So you are not a mental health
17	Q. And is that what you said in this deposition?	17	professional; is that right?
18	A. Yes.	18	A. That's correct.
19	Q. And do you still agree with that statement?	19	Q. You're not a psychiatrist or a psychologist?
20	A. So if we're talking about patients that are presenting	20	A. No.
21	to gender clinic and either meeting or not meeting the	21	Q. And you're not offering your opinion here as a mental
22	criteria for gender dysphoria, I would expect the	22	health expert, correct?
23	error rate to be extremely small. And so do I know	23	A. Correct.
24	what the error rate is? No, but I would posit what	24	Q. You don't have a residency or fellowship in
25	I've said before, that meeting the diagnostic criteria	25	psychiatry?
	Page 55		Page 57
1	for gender dysphoria is is objective, and and as	1	A. No.
2	a treating clinician on I'm interested to know that	2	Q. You don't have a degree in child and adolescent
3	the whether or not the child meets those clinical	3	development and psychology?
4	criteria, but	4	A. No.
5	Q. So	5	Q. Do you consider yourself trained and professionally
6	A it's not a yes/no, treat if yes scenario. It's -	6	competent in using the DSM-5 to make child and
7	if the patient doesn't have gender dysphoria, then	7	adolescent mental illness or psychiatric diagnoses
8	they don't even need to see me.	8	generally beyond gender dysphoria?
9	Q. So just to go back to my question, would you say it is	9	MS. WILLIAMS: Objection.
10	possible or not possible to misdiagnose gender	10	A. As a general pediatrician, I'm comfortable making
11	dysphoria?	11	as a person that has gone through general pediatrics
12	A. I think it's possible. You know, a patient may appear	12	residency, I do feel comfortable making certain
13		1	diagnoses like major depression major depressive
14	to meet the criteria, but or may I guess the	13	diagnoses like major depression major depressive
1	to meet the criteria, but or may I guess the answers a patient or client makes to the mental health	13 14	disorder, generalized anxiety disorder, and then
15	The state of the s		
	answers a patient or client makes to the mental health	14	disorder, generalized anxiety disorder, and then
15 16 17	answers a patient or client makes to the mental health professional may be misinterpreted, but I find that challenging to to expect to happen on an even remotely frequent basis.	14 15	disorder, generalized anxiety disorder, and then certainly other more complex psychiatric conditions I
15 16 17 18	answers a patient or client makes to the mental health professional may be misinterpreted, but I find that challenging to to expect to happen on an even remotely frequent basis. Q. Would you expect that to be more frequent if the	14 15 16 17 18	disorder, generalized anxiety disorder, and then certainly other more complex psychiatric conditions I do not feel competent in making those diagnoses. BY MR. MILLS: Q. Sure. And you are not an epidemiologist, correct?
15 16 17 18 19	answers a patient or client makes to the mental health professional may be misinterpreted, but I find that challenging to to expect to happen on an even remotely frequent basis. Q. Would you expect that to be more frequent if the diagnosis is made by a nonmental health provider?	14 15 16 17 18 19	disorder, generalized anxiety disorder, and then certainly other more complex psychiatric conditions I do not feel competent in making those diagnoses. BY MR. MILLS: Q. Sure. And you are not an epidemiologist, correct? A. Correct.
15 16 17 18 19 20	answers a patient or client makes to the mental health professional may be misinterpreted, but I find that challenging to to expect to happen on an even remotely frequent basis. Q. Would you expect that to be more frequent if the diagnosis is made by a nonmental health provider? A. Not if that person is experienced in making the	14 15 16 17 18 19 20	disorder, generalized anxiety disorder, and then certainly other more complex psychiatric conditions I do not feel competent in making those diagnoses. BY MR. MILLS: Q. Sure. And you are not an epidemiologist, correct? A. Correct. Q. You don't claim to be an expert in statistical
15 16 17 18 19	answers a patient or client makes to the mental health professional may be misinterpreted, but I find that challenging to to expect to happen on an even remotely frequent basis. Q. Would you expect that to be more frequent if the diagnosis is made by a nonmental health provider?	14 15 16 17 18 19	disorder, generalized anxiety disorder, and then certainly other more complex psychiatric conditions I do not feel competent in making those diagnoses. BY MR. MILLS: Q. Sure. And you are not an epidemiologist, correct? A. Correct.

15 (Pages 54 - 57)

A. I do have a master's of public health, and as part of

Q. And when you coauthor papers involving statistical

that degree I was trained in epidemiology and

statistics, but that's not my career.

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16 (Pages 58 - 61)

multidisciplinary care model, correct?

25 A. I have no particular knowledge of them outside of my

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Q. You've never conducted a survey about the parameters

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A. No.

Page 62 1 answer to the previous question. Q. So about how many patients would you see a month of 2 Q. And you're only aware of a single multidisciplinary 2 minors considering medical gender transition? 3 care model being provided in Alabama; is that right? A. Are you asking minors -- are you asking how many 4 A. That's the clinic that I'm aware of. I'm not aware of 4 patients under 18 that I see are considering, or we're 5 others, but don't claim to know all of the gender 5 assessing for, or are being seen that are already on, 6 clinics across the country. 6 or what is your more precise question? Q. You have no knowledge of how many minors nationwide Q. Sure, sure. That you see that are either considering 8 are prescribed medical gender transition 8 or are already on medical gender transition 9 interventions? interventions, do you? 10 A. A number, no. 10 A. Oh, okay. So probably about 60. Per month you asked? 11 Q. Your earliest publication or presentation on a topic 11 Q. Yes. 12 related to transgender medicine was in 2013; is that 12 A. Yeah. 13 right? 13 MR. MILLS: I think it's a good time for a 14 14 A. That sounds correct. break, if that's okay with everyone. 15 15 Q. And when did you begin treating minors with gender All right, we can go off the record. 16 16 dysphoria? (Recess taken at 10:40 a.m.) 17 A. I was involved with the gender clinic at Boston's 17 (On the record at 10:48 a.m.) 18 Children Hospital as a fellow, so I was seeing 18 BY MR. MILLS: 19 patients under supervision and completed my training 19 Q. Would you agree that puberty is a sexually dimorphic 20 in 2015 at which point I began practicing 20 process? 21 21 independently. A. Puberty means -- puberty is a stage in life where a 22 22 child's body becomes an adult's body and typically Q. And have you -- do you have any knowledge of how the 23 23 that goes one of two directions according to the -- of what has happened subsequently with the patients 24 you were treating at Boston Children's while you were 24 hormonal sex of the individual. 25 25 a fellow? Of course there can be variability. You Page 63 Page 65 A. So I -- all -- certainly not all of the patients that 1 1 2 2 I've been treating are enrolled in a longitudinal androgen levels. There can be other endocrine 3 study and have interval follow-up in their twenties 3 differences, but generally there's a masculinizing and 4 4 and thirties. So similarly to patients that I saw in a feminizing puberty as the -- if we're dichotomizing. 5 fellowship for any other condition, I don't have a 5 Q. So would you agree with this definition: Puberty is 6 mechanism for longitudinal follow-up for all of those 6 7 7 parents. sorry, I'll start over. 8 8 Q. So in 2015, if the oldest patient you saw that was a Pubertal is the process of physical

- 9 minor was age 18, that would mean the oldest minors
- 10 who you helped treat with medical gender transition
- 11 interventions would be around 27 now; is that right?
- 12 A. The math seems to check.

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- 13 Q. So you aren't aware of any follow-up with your
- 14 patients beyond the age of 27?
- 15 A. Correct.
- 16 Q. How did you come to be involved in this case?
- A. I believe the legal representation for the -- the US 17
- 18 reached out to me directly.
- 19 Q. How often does your clinic see patients for gender
- 20 dysphoria? Well, sorry, minor patients for gender
- 21 dysphoria?
- 22 A. So there's several physicians that work in the clinic
- 23 and several mental health professionals, so every day
- 24 someone is seeing patients. I see patients two half
- 25 days a week.

- know, female body people with PCOS can have higher

- the process of physical maturation where an adult --

- 9 maturation where an adolescent reaches sexual maturity 10 and becomes capable of reproduction?
- 11 A. I think that captures some of what I was talking
 - about. And, you know, I would -- I would say that
- 13 there's more elements to puberty than simply contained
 - in that one sentence.
- 15 Q. Would you agree that developing reproductive capacity
- 16 is a fundamental purpose of puberty?
- 17 A. It's something that occurs during puberty. I'm not
- 18 sure that you can say that a stage has a purpose.
- 19 That, you know, sort of to me implies that puberty is
- 20 an entity itself that has a particular purpose in
- 21 mind, but reproductive potential -- the development of
- 22 reproductive potential is something that occurs during
- 23 a stage in life that we're talking about which is
- 24
- 25 Q. Would you say it is the central aspect of puberty?

17 (Pages 62 - 65)

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A. I -- I think that I'm not sure that I hold

significance to children versus adolescents in that

Page 66 1 A. I don't know how I would respond to that. I think 1 particular way, but I think that's a reasonable way to 2 2 there's lots of different elements of puberty, so to think about it. 3 say that gaining reproductive potential is the central 3 Q. Can puberty cause adolescents' view of their own 4 aspect, no, I'm not sure that I would agree with that. 4 gender identity to evolve? 5 5 Q. So evolutionarily do you think there are other A. Could you say that again, please? purposes of puberty? Q. Yeah. Can puberty cause adolescents' view of their 6 6 7 7 A. Sure. own gender identity to evolve? 8 Q. What would those be? 8 A. The experience that I hear from adolescents is that, 9 A. Increasing height and strength. Those are a couple 9 you know, their -- an adolescent may describe that 10 examples. 10 they had a particular feeling, that they were 11 Q. When does puberty typically begin? 11 uncertain what that feeling was, and then as puberty A. On average between ages 10 and 12. 12 progressed and they started to tangibly see the Q. And does it vary in males and females? 13 development of secondary sex characteristics, they had 14 a better understanding of that feeling as a difference 14 A. To some extent, yes. 15 15 Q. So female puberty could start as early as 8 to 9; is in gender identity, so in that way, yes. 16 that typical? 16 Q. Does sexual attraction usually emerge during puberty? 17 A. It would be considered precocious puberty or 17 A. I don't -- I don't think that I know the answer to 18 abnormally early puberty if female puberty started 18 that question specifically. I think that -- that as a 19 prior to age 8. So 8 is a reasonable cutoff for what 19 pediatric endocrinologist I hate to posit an expert 20 would be considered normal, and then can be also 20 response on that. 21 21 normal to not start puberty until 12. I think there are certainly children that 22 Q. And what about for boys; what would be the cutoff for 22 are prepubertal that have attractionality, either same 23 23 precocious puberty? sex or opposite sex attraction, so the evolution of 24 24 sexual orientation is something that I -- I hesitate A. Generally the ages that pediatric endocrinologists 25 25 think about would be 9. Starting male puberty younger to speak on further. Page 69 than age 9 would be precocious, and absence of puberty Q. But would you agree generally that puberty can lead to 1 2 2 by age 14 would be delayed. an increase in feelings of sexual attraction? 3 Q. So a 10-year-old boy who was starting puberty --3 A. I would agree with that. 4 sorry. Would you consider a 10-year-old boy starting 4 Q. Can the emergence of sexual attraction or the 5 puberty to have precocious puberty? 5 development of sexual attraction -- I'll start over. 6 Can the development of sexual attraction 6 7 Q. Physical changes associated with puberty often cause during puberty cause adolescents' view of their own 8 8 anxiety or distress regardless of gender identity; is gender identity to evolve? 9 that right? A. That's not something that I heard from patients that 10 10 A. I'm not sure how frequently that's true. Is there a -- that explain their gender identity to me that 11 source that I could refer to? 11 they're talking about sexual orientation and 12 Q. I just was curious in your experience, you know, do 12 attractionality as a different concept than their 13 13 you find that adolescents starting puberty are worried gender identity, so I don't think that I would agree 14 about their physical changes? 14 with that statement. 15 Q. If you could go back to Exhibit 1. This was your 15 A. Some may be. 16 16 Q. Do you think that's -- in your experience is that Advances in Pediatrics article. I'm sorry, I know you 17 17 common? have a stack in front of you. 18 18 A. I don't hear other patients that I take care of A. Advances in Pediatrics. 19 19 Q. Mm-hmm. So this is on page 6 in the middle of the expressing anxiety about puberty in my practice, but 20 20 I'm sure that some patients are anxious about puberty. page. The second full paragraph is talking about 21 Q. When thinking about the dividing line between children 21 children who will persist in their gender identity 22 and adolescents, would you consider puberty to be the 22 during adolescence and adulthood versus those who will 23 23 dividing line starting puberty? desist.

18 (Pages 66 - 69)

On the one, two, three, fourth sentence you

say, "Important factors in early adolescence included

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25 A. Yes.

gender dysphoria as puberty progresses could be a

helpful diagnostic tool; is that right?

Page 70 1 the social environment, feelings toward pubertal 1 Q. Would you agree that a 19-year-old will have a better 2 changes, and the emergence of sexual attraction." 2 sense of their gender identity than an 11-year-old? 3 So you would agree that in the study you're A. No. I think everyone has an equal sense of their 4 talking about here emergence of sexual attraction was 4 gender identity at that time. The question is how 5 considered an important factor in identifying 5 predictive is that gender identity of their future 6 persistent gender dysphoria? 6 gender identity. 7 Q. And so would you agree that a 19-year-old will have --A. Could you tell me what the start of that sentence was? 7 8 Q. Yeah. So you're talking about one of the Dutch 8 will be able to provide a better prediction of their 9 studies here about persistent. So I question was, future gender identity than an 11-year-old? 10 this study that you talked about in your report found 10 A. If that 11-year-old has started to develop secondary 11 that the emergence of sexual attraction was an 11 sex characteristics and is having distress associated 12 important factor in earlier adolescence for the 12 with them, then I would think that 11-year-old's 13 persistence of gender dysphoria, right? 13 assessment of their gender identity would be quite 14 14 A. Yeah, so I think what I'm saying here is that when predictive of their future gender identity similarly 15 15 you're a prepubertal child and you're having -- you're to a 19-year-old. 16 16 exploring concepts like gender and attractionality, Q. Would you still say that the 19-year-old's assessment 17 those concepts can -- can be confusing and sometimes 17 would be more accurate? 18 conflated, but that the emergence of -- as puberty 18 A. Accurate of what? 19 begins and you have the development of secondary sex 19 Q. Their future gender identity. 20 characteristics and you're thinking about 20 A. I would. That's why we use pubertal suppression to 21 21 attractionality and gender in more tangible ways, that buy additional time and processing and understanding; 22 the ability to disconflate, if that's a word, gender 22 that's why we don't treat 11-year-olds with gender-23 23 identity from attractionality becomes easier. affirming hormones. 24 Q. So your report says that, "Persistence or 24 Q. So would you say a diagnosis of gender dysphoria --25 25 intensification of gender dysphoria as puberty begins sorry, scratch that. Page 71 Page 73 1 1 is used as a helpful diagnostic tool as it becomes Would you also agree then that a 2 2 more predictive of gender identity persistence into 19-year-old will have a better sense of their future 3 adolescence and adulthood." 3 gender identity than a nine-year-old who is before 4 Do you still agree with that statement? Tanner stage 2? 5 5 A. Again, you're asking if their -- because everyone's A. Yes. 6 Q. And that's why you don't give puberty blockers before 6 gender identity at that time is a -- is -- you're 7 7 Tanner stage 2; is that right? asking is a 19-year-old's gender identity currently 8 8 A. That's one reason, another being that you don't need more predictive of their gender identity when they're, 9 9 say, 29 compared to a nine-year-old's? to block something that doesn't exist. 10 Q. If you gave puberty blockers before Tanner stage 2, it 10 Q. That's right. 11 would deprive you of what you described as a helpful 11 A. I would agree. 12 diagnostic tool, correct? 12 Q. And just to confirm, you said in your clinic you don't 13 treat with cross-sex hormones at age 11; is that 13 A. Correct. 14 Q. If you gave puberty blockers before Tanner stage 2, it 14 right? 15 would block even the Tanner stage 2 development of 15 A. I don't. 16 secondary sex characteristics, correct? 16 Q. And is that true even if someone started puberty 17 A. It would. 17 blockers, a girl, say, started puberty blockers at Q. And so you allowed those secondary sex characteristics 18 18 Tanner stage 2 at age 9? 19 to begin development up to Tanner stage 2 before 19 A. I have a hard time stating that I would have a hard 20 20 providing puberty blockers? and fast age cutoff for something that I consider more 21 A. Correct. of a developmental decisionmaking process with 22 22 O. By the same token, persistence or intensification of patients and families, but it's not my practice. I

19 (Pages 70 - 73)

haven't had patients at age 11 that I have felt

comfortable starting gender-affirming hormones.

Q. So to go back to the line of questions we were just

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	Page 74		Page 76
1	talking about in terms of future gender identity, you	1	Q. And treating those issues can be necessary for a
2	would agree that an 11-year-old sorry, scratch	2	child's health; is that right?
3	that. We can move on from that.	3	A. Yes.
4	I have an article that I'm marking as	4	Q. So continuing on it says, "In addition, psychotherapy
5	Exhibit 11, which is entitled "Criminalization of	5	enables a deeper exploration of the child's gender
6	gender-affirming care interfering with central	6	dysphoria, the range of gender expression and gender
7	treatment for transgender children." Oh, sorry, this	7	identity questioning, and whether the subjective
8	is 12. I'm just going to change that number.	8	experience fits more into a model of binary identity,
9	A. Oh, yeah.	9	e.g. male/female versus a fluidity of gender and
10	Q. I lost track here.	10	gender nonconformity."
11	MARKED FOR IDENTIFICATION:	11	Do you still agree with that statement?
12	EXHIBIT 12	12	A. Yes.
13	11:05 a.m.	13	Q. Page 7 the start of the second paragraph, really the
14	BY MR. MILLS:	14	first full paragraph, the paragraph right above
15	Q. This is Exhibit 12, "Criminalization of	15	"medical intervention," the first sentence,
16	gender-affirming care." This is an article you	16	"Continuing psychotherapy for youth is typically
17	coauthored; is that right?	17	recommended by our protocol."
18	A. Yes.	18	Is that still true in your clinic?
19	Q. And it was published in the New England Journal of	19	A. I think that every adolescent could benefit from
20	Medicine; is that right?	20	therapy, especially adolescents that are in
21	A. Yes.	21	undergoing gender transition.
22	Q. Okay. If you could go to page the first page of	22	A patient that is not experiencing any
23	579 is the first page. The start of the last	23	mental health problems at all may not require therapy
24	paragraph here in the third column you say, "Gender	24	and wouldn't be required to be in therapy to continue
25	dysphoria can be treated with both nonmedical and	25	treatment, but I as a as a pediatrician, I find
			_
	Page 75		Page 77
1	medical intervention."	1	that therapy is of value for most adolescents.
2	medical intervention." Do you still agree with that?	2	that therapy is of value for most adolescents. Q. But patients with gender dysphoria are experiencing
2 3	medical intervention." Do you still agree with that? A. Yes.	2 3	that therapy is of value for most adolescents. Q. But patients with gender dysphoria are experiencing mental health a mental health issue, correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	medical intervention." Do you still agree with that? A. Yes. Q. So sometimes medical interventions for gender dysphoria are not warranted? A. Correct. Q. And sometimes nonmedical interventions would satisfactorily resolve any gender dysphoria? A. It's possible. Q. If you could flip back to Exhibit 4, which is your article "Serving Transgender Youth." And I'm on page 5 in the middle of the page, kind of right in the middle of the long paragraph on the page, the sentence that starts with, "Further," looks like the fourth sentence, "Further, we have found psychotherapy exceedingly helpful for treating cooccurring mental health issues and for exploring the child and/or adolescent's thought processes, family functioning strength and support systems." Do you still agree with that statement I just read?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that therapy is of value for most adolescents. Q. But patients with gender dysphoria are experiencing mental health a mental health issue, correct? A. Gender dysphoria is a mental health condition outlined in the DSM with the treatment being the medical interventions that we that we have been reviewing. So if a patient has is being treated for gender dysphoria and has has no other mental health problems, while therapy wouldn't be required, I think that it's always helpful to have someone in your corner that you can bounce things off of because adolescence is an unpredictable and challenging time for everybody. Q. So just to go back to the sentence, "Continuing psychotherapy with youth with gender dysphoria is typically recommended by our protocol," is that still true in your clinic? A. Yes. Q. And would you consider that continuing psychotherapy part of the standard of care? A. Well, I don't know that the standard of care outlines that every person that's receiving gender-affirming hormonal care requires psychotherapy, but the fact
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	medical intervention." Do you still agree with that? A. Yes. Q. So sometimes medical interventions for gender dysphoria are not warranted? A. Correct. Q. And sometimes nonmedical interventions would satisfactorily resolve any gender dysphoria? A. It's possible. Q. If you could flip back to Exhibit 4, which is your article "Serving Transgender Youth." And I'm on page 5 in the middle of the page, kind of right in the middle of the long paragraph on the page, the sentence that starts with, "Further," looks like the fourth sentence, "Further, we have found psychotherapy exceedingly helpful for treating cooccurring mental health issues and for exploring the child and/or adolescent's thought processes, family functioning strength and support systems." Do you still agree with that statement I just read? A. Yes. Q. So psychotherapy can be exceedingly helpful for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that therapy is of value for most adolescents. Q. But patients with gender dysphoria are experiencing mental health a mental health issue, correct? A. Gender dysphoria is a mental health condition outlined in the DSM with the treatment being the medical interventions that we that we have been reviewing. So if a patient has is being treated for gender dysphoria and has has no other mental health problems, while therapy wouldn't be required, I think that it's always helpful to have someone in your corner that you can bounce things off of because adolescence is an unpredictable and challenging time for everybody. Q. So just to go back to the sentence, "Continuing psychotherapy with youth with gender dysphoria is typically recommended by our protocol," is that still true in your clinic? A. Yes. Q. And would you consider that continuing psychotherapy part of the standard of care? A. Well, I don't know that the standard of care outlines that every person that's receiving gender-affirming

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20 (Pages 74 - 77)

Q. And sometimes do you treat patients, minor patients

with gender dysphoria with psychotherapy alone?

A. If that helps to address their gender dysphoria or if

they otherwise are unable to receive hormonal

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for you.

This is the first sentence under

-	they other wise are unable to receive normonal
5	interventions.
6	Q. And some minor patients see their gender dysphoria
7	resolved with psychotherapy and without additional
8	medical interventions?
9	A. So I think that generally a patient that is receiving
10	psychotherapy as treatment for their gender dysphoria
11	is exploring in that psychotherapy how they can
12	express their gender identity in a way that alleviates
13	their gender dysphoria, so that psychotherapy could
14	involve figuring out safe ways to make a social
15	transition or whether social transition is safe for
16	that patient, you know, exploring things like that.
17	So it's it's not that the psychotherapy
18	is being used to say, you know, despite the fact that
19	you have this difference in gender identity, you know,
20	you're going to, you know, learn to forget about that
21	gender identity and accept the sex that you were
22	assigned at birth. It's more, you know, what
23	nonmedical approaches can we use to to help you
24	cope with this disconnect that you have between your
25	body and your gender identity.
	Page 79
1	Q. And sometimes the psychotherapy plus nonmedical
2	approaches are sufficient to resolve the gender
3	dysphoria; is that right?
4	A. It could be.
5	Q. And this psychotherapy that you're describing would
6	not be conversion therapy; is that right?
7	A. Correct.
8	Q. If you could look at Exhibit No. 1, this is back to
9	your Advances in Pediatrics article. This on page
10	let's see here what page are we on. This is on page
11	4, the paragraph just before the "Development of
12	Gender Identity" heading, this is the second sentence.
13	"Prior to the late 1990s, treatment of
14	
15	children or adolescents with gender dysphoria was not
16	considered."
	considered." Do you still agree with that statement?
17	considered." Do you still agree with that statement? A. In the ways that we're describing today with hormonal
17 18	considered." Do you still agree with that statement?
	considered." Do you still agree with that statement? A. In the ways that we're describing today with hormonal
18	considered." Do you still agree with that statement? A. In the ways that we're describing today with hormonal interventions, that's correct.
18 19	considered." Do you still agree with that statement? A. In the ways that we're describing today with hormonal interventions, that's correct. Q. Right. So this is referring basically to puberty blockers or cross-sex hormones? A. Correct.
18 19 20	considered." Do you still agree with that statement? A. In the ways that we're describing today with hormonal interventions, that's correct. Q. Right. So this is referring basically to puberty blockers or cross-sex hormones? A. Correct. Q. To go back a page to page 3, the first sentence under
18 19 20 21	considered." Do you still agree with that statement? A. In the ways that we're describing today with hormonal interventions, that's correct. Q. Right. So this is referring basically to puberty blockers or cross-sex hormones? A. Correct.

Page 80 1 "Historical Perspectives: Prior to the isolation of

2 sex hormones their development into an injectable or

3 oral compound to be administered in development of

4 surgical techniques, there was no options -- there

5 were no options to change one's secondary sex 6 characteristics."

7 Do you still agree with that statement?

8 A. Yes.

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Page 78

9 Q. And then flipping to page 9 of the same article, in 10 the middle, this is the third sentence under "Overview 11 of Medical Management."

12 "Primary goals of sexual interventions 13 include 1) prevention of" --

A. "Of medical." 14

> Q. Oh, sorry. "Primary goals of medical interventions include 1) prevention of the development of unwanted secondary sex characteristics of the biologic sex; and 2) promotion of the development of desired secondary sex characteristics of the affirmed gender."

So the purpose of puberty blockers is what you said in number 1 there, prevent the development of unwanted sex characteristics of the biologic sex, right?

- 24 A. That would be one of the goals of pubertal blockade.
- Q. And the purpose of cross-sex hormone therapy is to

change the appearance of one's secondary sex

2 characteristics?

3 A. Ultimately the purpose of both of these medications is 4 to treat gender dysphoria and improve quality of life,

5 but more proximally, yes, the gender-affirming

6 hormones would promote the development of the desired

7 secondary sex characteristics.

Q. And so these two purposes which, as you said, both go

9 to the ultimate treating gender dysphoria, these

10 purposes are the same regardless of the patient's

11 biologic sex, right?

12 A. Correct.

14

22

13 Q. And these treatments do not change the chromosomal

sex; is that right?

15 A. That's correct.

Q. They don't change the genetic sex?

17 A. I would think of that as the same as chromosomal sex.

18 Q. Okay. And they do not change the gonadal sex,

19 correct?

20 A. Correct.

21 Q. If we could flip back to Exhibit 8, which was the

chapter in the book, and we are going to the bottom of

23 page 171. In looking at Figure 9.1 here, so this

24 figure shows when you would typically start medical 25

interventions to treat gender dysphoria, right?

21 (Pages 78 - 81)

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25

ability to delay decisions around gender-affirming

hormone treatment."

Page 82 Page 84 1 A. Yes. 1 This refers to puberty blockers, right? 2 Q. Okay. And we talked a little bit about this, but it 2 A. Yes. 3 shows puberty blockers being started around age 10 or Q. And when you use puberty blockers to treat precocious 4 at Tanner stage 2, right? puberty, you are trying to prevent the premature 5 5 A. Right. It says Tanner stage 2 with this karat type development of secondary sex characteristics, right? symbol implying that that could be a variety of 6 6 A. Yes. 7 7 different ages --Q. You are not trying to prevent the development of sex 8 8 characteristics entirely, correct? Q. Sure. 9 A. -- centered around -- around 10, 10 and a half, 11. A. Eventually that person will develop secondary sex 10 Q. Right, yeah, and we discussed that earlier. So let's 10 characteristics upon discontinuation of the GnRH 11 see. Sorry. 11 agonists, so you're delaying the development of those 12 And that use of puberty blockers around age 12 secondary sex characteristics. You're allowing for 13 10 or at Tanner stage 2 is consistent with WPATH and 13 full height potential and other goals of care when 14 Endocrine Society guidelines? 14 you're treating precocious puberty. 15 A. Yes. 15 Q. Right, but a goal is not to prevent the development of 16 16 Q. You wouldn't consider a 10-year-old to be an older sex characteristics entirely forever? 17 adolescent, would you? 17 A. Correct. 18 A. No. 18 Q. And when you -- when you use puberty blockers to treat 19 Q. So it would not be correct to say that under the 19 precocious puberty, you are not trying to mitigate 20 existing guidelines medical interventions for gender 20 gender dysphoria? 21 21 dysphoria are reserved for older adolescents, correct? A. Correct. Q. And you're not trying to delay decisions around A. No. I would -- I would -- I would use hormonal 22. 23 23 gender-affirming hormone treatment when you're using interventions such as testosterone, estrogen in place 24 of medical to make that sentence accurate. 24 them in the context of precocious puberty? 25 Q. Okay. Because puberty blockers are not reserved for 25 A. That's correct. Page 83 1 older adolescents? Q. So these goals of using puberty blockers to treat A. Correct. 2 2 gender dysphoria are different from the goals of using 3 Q. If you'd turn to 169 of this same document at the very 3 puberty blockers to treat precocious puberty, right? 4 top of the page, "The current hormonal management of 4 A. Correct. 5 transgender youth involved from strategies first Q. If you could look at the bottom of page 172. This is 6 described by Delemarre van de Waal and Cohen-Kettenis 6 at the end of the paragraph that's almost at the 7 7 at the Amsterdam gender clinic in 2006." bottom. "The majority of patients presenting to care 8 8 Do you agree with that statement, other may not present at Tanner -- sorry, I'll start over. 9 9 than my butchering of the Dutch names? MS. WILLIAMS: I'm sorry, where -- just a 10 10 minute. Where are you exactly? A. Yes. 11 Q. And did the use of puberty blockers to treat 11 MR. MILLS: This is the last full paragraph 12 precocious puberty originate before 2006? 12 on 172, the end of the paragraph, the last two 13 13 A. Yes. sentences. 14 Q. Does the standard course of treatment for precocious 14 MS. WILLIAMS: Great. 15 puberty present significant risks to fertility? 15 BY MR. MILLS: 16 MS. WILLIAMS: Objection. 16 Q. "The majority of patients presenting to care may not 17 17 A. No. present at Tanner stage 2. In our clinical practice, BY MR. MILLS: 18 18 about two-thirds of adolescent patients present to 19 Q. So if you go back to 172 of this document at the top, 19 care at a more advanced pubertal stage. In these 20 20 the second sentence, "The goals of supervision include cases, the decision regarding whether to consider GnRH 21 i. Prevention of development of unwanted secondary sex 21 agonist treatment is more complex." 22 characteristics, ii, mitigation of the accompanying 22 So you're saying for most patients in your 23 23 dysphoria associated with puberty; and iii, The clinic when you're thinking about using puberty

22 (Pages 82 - 85)

blockers, puberty has already progressed past Tanner

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stage 2, right?

	Page 86		Page 88
1	A. Well, it's a little complicated because the majority	1	Q. Sure. So just to go back to what we read a minute
2	of patients that are presenting postpubertal, you	2	ago, the majority of patients presenting to you for
3	know, we are not considering GnRH agonists, and I	3	gender dysphoria are past Tanner stage 2; is that
4	would say that even for patients that present	4	right?
5	mid-puberty, GnRH agonists may or may not meet our	5	A. Correct.
6	treatment goals.	6	Q. And is that different from the patients you treat for
7	So, for example, a transgender young man	7	precocious puberty?
8	who is midway through puberty and has started the	8	A. That's hard to say. I think that patients with
9	menstrual cycle, you could theoretically give that	9	precocious puberty are also a variable group. Some
10	patient GnRH agonists and stop the menstrual cycle and	10	patients are presenting for to medical attention at
11	prevent progression of breast development, but you	11	the very first sign of pubertal changes, where others
12	could just as easily use other medications to stop the	12	are late to be picked up and may be further progressed
13	menstrual cycle. The breast development has already	13	into puberty before presenting to care.
14	happened, so the advantage of using GnRH agonists in	14	Q. But would you say that most of the patients you see
15	that situation wouldn't be very high. A transgender	15	for precocious puberty are still at Tanner stage 2?
16	girl who is partially into puberty, if she hasn't	16	A. I'm not sure I could say that.
	developed masculine facial features, then perhaps GnRH	17	Q. The risk of delaying a normally timed growth spurt is
17 18		18	present when using puberty blockers for gender
19	agonists would be more helpful. In both of those situations, you know, I'm	19	dysphoria; is that right?
	explaining an example that we wouldn't be yet	20	
20	considering hormones, but whether or not the GnRH		A. Say that one more time, please.
21		21	Q. The risk of delaying the normally timed growth spurt
22	agonists would be helpful or not really depends on the	22 23	is present when using puberty blockers for gender
23	clinical scenario and may or may not be helpful later	1	dysphoria?
24	in puberty.	24	MS. WILLIAMS: Objection.
		1	· -
24	in puberty. Q. Sure. So go to the bottom of the page here. Page 87	24	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89
24 25	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered	24	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender
24 25	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender	24 25	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89
24 25	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more	24 25	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt,
24 25 1 2	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender	24 25 1 2	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes.
24 25 1 2 3	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the	24 25 1 2 3	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS:
24 25 1 2 3 4	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a	24 25 1 2 3 4	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious
24 25 1 2 3 4 5	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the	24 25 1 2 3 4 5	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur
24 25 1 2 3 4 5 6	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female."	24 25 1 2 3 4 5 6	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without
24 25 1 2 3 4 5 6 7	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to	24 25 1 2 3 4 5 6 7	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty?
24 25 1 2 3 4 5 6 7 8	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2	24 25 1 2 3 4 5 6 7 8	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes.
1 2 3 4 5 6 7 8 9	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the	1 2 3 4 5 6 7 8 9	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved
24 25 1 2 3 4 5 6 7 8 9 10	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex?	24 25 1 2 3 4 5 6 7 8 9	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria?
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24 25 1 2 3 4 5 6 7 8 9 10 11 12 13	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex? A. Yeah. For the example Q. Right. A that I just demonstrated to you.	1 2 3 4 5 6 7 8 9 10 11 12 13	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria? A. Right, gender dysphoria is not an indication for use. Q. And that's because the FDA has not received satisfactory data demonstrating safety and efficacy?
24 25 1 2 3 4 5 6 7 8 9 10 11 12 13 14	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex? A. Yeah. For the example Q. Right. A that I just demonstrated to you. Q. Right. Because the and that's just to try and	24 25 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria? A. Right, gender dysphoria is not an indication for use. Q. And that's because the FDA has not received satisfactory data demonstrating safety and efficacy? A. I do believe that would be what would be required to
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex? A. Yeah. For the example Q. Right. A that I just demonstrated to you. Q. Right. Because the and that's just to try and explain what you said, and that's because the the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria? A. Right, gender dysphoria is not an indication for use. Q. And that's because the FDA has not received satisfactory data demonstrating safety and efficacy? A. I do believe that would be what would be required to obtain that indication.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex? A. Yeah. For the example Q. Right. A that I just demonstrated to you. Q. Right. Because the and that's just to try and explain what you said, and that's because the the secondary sex characteristics of males and females	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria? A. Right, gender dysphoria is not an indication for use. Q. And that's because the FDA has not received satisfactory data demonstrating safety and efficacy? A. I do believe that would be what would be required to obtain that indication. Q. So if we go back to the book chapter we've been
24 25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex? A. Yeah. For the example Q. Right. A that I just demonstrated to you. Q. Right. Because the and that's just to try and explain what you said, and that's because the the secondary sex characteristics of males and females differ in their development?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria? A. Right, gender dysphoria is not an indication for use. Q. And that's because the FDA has not received satisfactory data demonstrating safety and efficacy? A. I do believe that would be what would be required to obtain that indication. Q. So if we go back to the book chapter we've been looking at page 174, and again this is Exhibit 8, this
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	in puberty. Q. Sure. So go to the bottom of the page here. Page 87 "The following factors should be considered when discussing GnRH agonist use for the transgender adolescent presenting at a pubertal stage more advanced than Tanner stage 2." And then there's a couple things, and flip over to page number 4, "Is the patient male or female." So when you're thinking about whether to use puberty blockers in those post-Tanner stage 2 patients, that discussion might vary based on the patient's sex, right, biological sex? A. Yeah. For the example Q. Right. A that I just demonstrated to you. Q. Right. Because the and that's just to try and explain what you said, and that's because the the secondary sex characteristics of males and females differ in their development? A. Correct. A mid-pubertal trans boy may be most	24 25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. WILLIAMS: Objection. A. So when you're using pubertal suppression for gender Page 89 dysphoria, you're delaying the pubertal growth spurt, yes. BY MR. MILLS: Q. When you use puberty blockers to treat precocious puberty, is the goal that the growth spurt will occur at the same time as it would have in a patient without precocious puberty? A. Yes. Q. You would agree that puberty blockers are not approved by the FDA to treat youth with gender dysphoria? A. Right, gender dysphoria is not an indication for use. Q. And that's because the FDA has not received satisfactory data demonstrating safety and efficacy? A. I do believe that would be what would be required to obtain that indication. Q. So if we go back to the book chapter we've been looking at page 174, and again this is Exhibit 8, this is the third sentence on 174 at the very top, "Unlike"

the patient is a male or a female?

23 (Pages 86 - 89)

secondary sex characteristics, and the additional

benefit of concurrent use of GnRH agonists is likely

Is that one reason why it matters whether

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minimal."

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of a concern. Whereas, trans girl would be -- could

be most concerned about facial masculinization, and

GnRH agonists would be a useful tool to stop further

facial masculinization, but there are simpler ways to

treat the menstrual dysphoria.

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A. Yes.

Q. And according to Table 2, the mechanism of that

treatment is activation of androgen receptors, right?

24 (Pages 90 - 93)

together we're going to be talking about whether

still feels like the right approach.

continuing the medical intervention is something that

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Page 94 1 Q. So you don't tell them that the therapies would have 1 hormones for gender dysphoria? 2 to be continued indefinitely as long as they wish to 2 A. I do like to maintain baseline hormone levels before 3 continue gender transition? 3 starting treatment. A. Yes, I both tell them that they would continue the 4 Q. Okay. And why is that? 5 medication so long as they would like to promote the A. To compare to follow-up labs. 6 development and maintenance of those secondary sex Q. And is that routine in your practice? 7 7 characteristics, but also that at every visit we would A. Yes. 8 8 Q. If we could keep looking at this same article, go to be reevaluating their goals and need for treatment. 9 9 page 12 in the middle, the second full paragraph. Q. You wouldn't use testosterone for treatment of gender 10 dysphoria in biological males, correct? 10 A. Oh, which --11 11 Q. Oh, sorry. This -- that's right, the Advances A. No. 12 Q. Because that would not treat a biological male with 12 article, and instead of 17 B estradiol, I'm just going 13 gender dysphoria, right? 13 to say estrogen if that's okay? 14 14 A. Correct. A. Yes. 15 15 Q. Would it be in your view malpractice to prescribe Q. So MTF, which I understand is male-to-female 16 testosterone to a biological male for treatment of 16 individuals are treated with estrogen to induce female 17 gender dysphoria? 17 secondary sex characteristics. And then skipping a 18 MS. WILLIAMS: Objection. 18 sentence, "These changes are more effective when 19 A. I can think of scenarios that you might prescribe 19 testosterone production is reduced either by using 20 testosterone to a biological male with gender 20 GnRH agonist medication or a progestin concurrently. 21 21 dysphoria, but it wouldn't be treating their gender Higher doses of estrogen would be required to produce 22 22 dysphoria. feminizing changes if the testosterone concentration 23 23 So, for example, a biological male who is is in the normal male range." 24 having suppression of testosterone and subsequent 24 So your discussion here refers to a biological male whose sex hormones are in the normal 25 erectile dysfunction may be treated with a small 25 Page 95 1 amount of testosterone to treat the erectile 1 male range, right? 2 dysfunction, but that would be treating the erectile 2 A. A male body person who is transitioning with estrogen, 3 3 dysfunction and not the gender dysphoria. yes, this is what I'm describing, the options for 4 4 BY MR. MILLS: treatment to -- to result in female level of estrogen 5 Q. And by the same token, you would not use estrogen in 5 and a female level of testosterone. 6 biological females for treatment of gender dysphoria, Q. And the reason higher doses of estrogen would be 6 7 7 correct? needed if testosterone is in the normal male range 8 8 A. Correct. would be the testosterone has to be suppressed below 9 Q. So let's assume a patient with appropriately diagnosed 9 the normal male range for estrogen to be effective? 10 10 A. Correct. gender dysphoria came into your office and was ready 11 to start sex hormone therapy. What other information 11 Q. And that estrogen level would be above the normal 12 would you need to know to decide what to prescribe? 12 biological male range; is that right? 13 13 A. I would need -- sorry, could you say that one more A. The concern here is that if you're using estrogen by 14 time? 14 itself as monotherapy, then you would need higher than 15 15 Q. Sure, I'll rephrase the question. ideal amounts of estrogen to achieve that goal, so 16 16 So again, take a patient with appropriately that's why we combine estrogen with other antiandrogen 17 17 diagnosed gender dysphoria; they came in your office, medications. 18 they were ready to start on sex hormones. Would you 18 Q. Right. But even in combination, the estrogen level of 19 need to know their biological sex to know what to 19 this male-to-female individual would be significantly 20 20 prescribe? above the estrogen level expected in a biological 21 21 A. I would need to know their anatomical hormonal sex. male, right?

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then yes.

If that's the term we're using for biological sex,

Q. Okay. And do you test existing levels of estrogen or

testosterone before starting treatment with cross-sex

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Q. We have no way of knowing what estrogen or

testosterone level a specific transgender girl would

have arrived at if she had been born female, correct?

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A. Yes.

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- 1 A. We know what the normal range is for -- for female
- 2 body people, and so we use that range as a target and
- 3 also clinical information such as feminization
- 4 progress. But if you're asking counterfactual if this
- 5 person was born assigned female at birth what would
- 6 their estrogen level be, the estrogen level would vary
- 7 throughout the day, but, no, I don't have a way to
- 8 know exactly what the estrogen level would be in that
- 9 counterfactual.
- 10 Q. If a biological female with gender dysphoria needs
- 11 hormone therapy, it doesn't matter what gender
- 12 identity the patient identifies as, correct?
- 13 A. Sorry, one more time.
- 14 Q. Yeah. If a biological female with gender dysphoria
- 15 needs hormone therapy to treat the gender dysphoria,
- 16 it doesn't matter what gender identity the patient
- 17 identifies as, correct?
- 18 MS. WILLIAMS: Objection.
- 19 A. I think it does, it does matter. If that person
- 20 identifies as female, I would have a hard time
- 21 understanding why they would have gender dysphoria, so
- 22 that would be something that I would need to explore,
- 23 that wouldn't make sense to me, so it would matter
- 24 what their gender identity is.
- 25 BY MR. MILLS:

- A. No, I would -- I would call it appropriate medical
- 2 management of gender dysphoria.
- BY MR. MILLS:
- Q. Has anyone ever accused you of discriminating based on

Page 100

- 5 sex for making those treatment decisions?
- 6 A. No.
- 7 Q. Have you ever been investigated by the federal
- 8 government for discriminating on the basis of sex?
- 9 A. No.
- 10 Q. Would you consider yourself to have violated any law
 - prohibiting discrimination on the basis of sex on that
- 12 basis?
- 13 MS. WILLIAMS: Objection.
- 14 A. No.

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- 15 BY MR. MILLS:
- 16 Q. If we have a biological female who was put on puberty
- 17 blockers at Tanner stage 2 and then given testosterone
- 18 as a treatment for gender dysphoria, the testosterone
- 19 will not cause the female to develop reproductive
- 20 capacity, correct?

occur.

- 21 A. I'm not sure that I agree with that statement
 - completely. The patient that you're describing that's
- 23 on GnRH agonists and then testosterone in the clinical
 - scenario where now that patient is 18 and desiring
- 25 fertility capacity, my advice would be to discontinue

Page 99

- Q. If they said -- if the biological female said she was
- 2 nonbinary, you would still be willing to treat the
- 3 gender dysphoria with hormone therapy?
- 4 A. I would need to better understand what that meant to
- 5 that patient and how that identity resulted in gender
- 6 dysphoria, and also whether masculinization would be
- 7 helpful to treat that gender dysphoria in that
- 8 scenario because certainly some patients, like the one
- 9 you're describing, would benefit from testosterone and
- 10 others would not.
- 11 Q. When you decide not to give estrogen to a biological
- 12 female for treatment of gender dysphoria and to give
- 13 testosterone instead, are you discriminating against
- 14 that person based on their sex?
- 15 MS. WILLIAMS: Objection.
- 16 A. I don't think I understand your question.
- BY MR. MILLS: 17

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- 18 Q. So earlier you said you wouldn't give estrogen to a
- 19 biological female for treatment of gender dysphoria
- 20 because you would give testosterone.
- 21 When you decide to use testosterone instead 22 of estrogen based on the person's I think you said
- 23 anatomical sex, would you consider that discrimination
- 24 against that person based on their sex?
 - MS. WILLIAMS: Objection.

- Page 101 the testosterone and allow for endogenous puberty to
- 3 Q. Sure. I'll ask it a little different way, I don't
- 4 think I was clear.
- 5 So in the biological male puberty context
- 6 testosterone leads to the development of reproductive
- 7 capacity through spermiogenesis, right?
- 8 A. I think that's a little oversimplified, but as an
- 9 endocrinologist I would say it's the LH and FSH
- 10 hormones from the pituitary that is stimulating the
- 11 testicles to produce testosterone and sperm cells.
- 12 The testosterone is also required for the maintenance
- 13 of that sperm-making organ to function properly, so in

testosterone, that person is not going to develop

- 14 a longwinded way, I guess I'm agreeing with you.
- 15 Q. Okay. But in the biological female who was put on
- 16 blockers at Tanner stage 2 and then given 17
- 18 sperm?
- 19 A. At the current time that person -- sorry, this is a --
- 20 Q. Biological female.
- 21 A. -- biological female on blockers and then on GnRH
- 22 agonists and then starting on testosterone?
- 23 Q. Right.
- 24 A. So I would not expect that -- that person to be making 25
 - follicles and ovulating. I suppose it's possible, but

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26 (Pages 98 - 101)

Page 102 Page 104 1 I would not expect it during treatment. 1 knowledge of -- of how testosterone works in the body, 2 2 Q. And that person would also not be producing sperm? I would expect that person to be at higher risk for 3 A. Correct. 3 other problems such as polycythemia and hypertension, 4 Q. Okay. Again, I'm sorry, I know that's kind of -- it 4 for example. 5 5 seems like a silly question. Q. And you can come to that conclusion even though you have not prescribed it before to someone who simply 6 And then -- and then the same 6 7 7 consideration, a biological male put on agonists at wanted to get stronger? 8 8 A. Correct. Tanner stage 2 and then given estrogen, that 9 Q. Have you ever prescribed estrogen to arrest growth in treatment -- the estrogen would not cause the male to 10 develop female reproductive capacity in the sense of 10 a biological female without gender identity issues who 11 producing eggs? 11 presented with complaints of tall stature? 12 A. Correct. 12 A. I don't believe so. This was something that was more 13 Q. And those doses of estrogen would also, as long as 13 common several decades ago when -- when tall stature 14 they're administered, preclude the male from 14 was a more common complaint for women, and the use of 15 15 developing male reproductive capacity; is that right? estrogen for tall stature in otherwise healthy woman 16 16 A. I would expect it to be less likely that that person is no longer recommended. 17 would have spermatogenesis while -- while not -- while 17 There are some tall stature conditions that 18 on the treatment as you outlined. 18 you might consider using estrogen to close growth 19 Q. So relative to going through puberty without these 19 plates, some genetic tall stature disorders where it 20 interventions, this biological male would be less 20 could be useful. I'm not sure that I've ever seen a 21 21 likely to develop reproductive capacity? patient that met those criteria, but if I did, then I 22 A. Yes. During the treatment course that you're 22 would be comfortable doing that. 23 23 outlining, that's correct. Q. Sorry, you would be or wouldn't be? 24 Q. Have you ever prescribed testosterone to a biological 24 A. I would be if a female patient had a tall stature 25 male who wished to get stronger for bodybuilding? 25 disorder and was going to be exceedingly tall and that Page 103 Page 105 1 A. I may have prescribed testosterone to someone with low would be interfering with her health, then estrogen 1 2 2 testosterone who also wanted to be stronger, but not could be considered as a treatment modality to arrest 3 3 someone with the normal male testosterone level who the growth plates. 4 simply wanted to be stronger. 4 Q. Have you conducted any clinical trials related to 5 Q. Would you be willing to prescribe testosterone to a 5 gender dysphoria? 6 male who simply wanted to be stronger for 6 7 7 bodybuilding? Q. I'm handing you an article you cited in I think your 8 8 A. No. rebuttal report I'm marking as Exhibit 13, 9 9 "Transgenderism and Reproduction." Q. Why not? 10 10 A. Because it's not recommended by any endocrine Do you recognize this article? 11 11 MARKED FOR IDENTIFICATION: authority or medical body. 12 Q. So you wouldn't consider that treatment to be safe and 12 **EXHIBIT 13** 13 13 11:51 a.m. effective; is that right? 14 A. It would probably be effective. I would have concerns 14 A. I believe so. 15 about putting someone's testosterone level at a higher 15 BY MR. MILLS: than normal level for a male. That would not be -- I 16 16 Q. If you could turn to page 576, which is the second 17 would not consider that safe. 17 page, that key points box in the top left, the third 18 18 Q. And you believe you can opine on that safety even point in that box it says, "Reproductive options for 19 though you don't use this treatment for that 19 all trans persons are not equal because not only the 20 20 indication? gametes are of importance, but also the sex of the 21 A. In order to achieve the goals that you're describing, future partner." 22 22 I think that you're implying that the testosterone Do you agree that statement? 23 A. I think it's a little bit of an odd statement, to be

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27 (Pages 102 - 105)

honest. I think what it's saying is that, you know,

fertility may or may not be valued the same for every

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level would be supratherapeutic or the testosterone

typical male, and in that situation based on my

level in this person would be higher than normal for a

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have had questions about their fertility and had --

and I've advised them that a course being estrogen

should not be considered contraception because you may

28 (Pages 106 - 109)

Q. So my question is really a biological male being

treated for gender dysphoria with puberty blockers at

Tanner stage 2 then five years of estrogen and then

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	Page 110		Page 112
1	halts the treatment.	1	A. I would agree that there's not controlled prospective
2	Are you aware of any such individual who	2	studies, but there are prospective studies, so in that
3	was able to successfully reproduce after stopping the	3	way I would agree.
4	estrogen?	4	Q. The bottom of that paragraph says, "Use of GnRHas for
5	A. I'm neither aware of any such individual, nor am I	5	conditions other than CPP requires additional
6	aware of such individuals who have tried and failed.	6	investigation and cannot be routinely suggested."
7	Q. What about puberty blockers for a biological male at	7	CPP is central precocious puberty; is that
8	Tanner stage 2 followed by two years of estrogen; are	8	right?
9	you aware of any biological male who then stopped the	9	A. That's right.
10	estrogen and was able to successfully reproduce?	10	Q. So the consensus in 2009 was that puberty blockers
11	A. I'm not personally aware, but would find that to be	11	should not be routinely used for conditions other than
12	quite plausible.	12	central precocious puberty?
13	Q. But you don't know of any?	13	A. Can you point me to the sentence that you just read
14	A. No.	14	again? I'm sorry.
15	Q. I'm going to show you as Exhibit 14 an article	15	Q. Yeah, it's the last sentence in the conclusion
16	entitled "Consensus statement on the use of" we'll	16	section.
17	just shorten it to "GnRH hormone analogs in children."	17	A. Yeah, so I guess it depends on what they're calling
18	MARKED FOR IDENTIFICATION:	18	routinely suggested. If they're saying that
19	EXHIBIT 14	19	professionals who are competent in assessing gender
20	12:00 p.m.	20	dysphoria should not use GnRH agonists to treat gender
21	BY MR. MILLS:	21	dysphoria, then I would disagree. If they're but
22	Q. This is a consensus statement published it looks like	22	if that's if they're saying that, then I would
23	in the AAP Journal of Pediatrics.	23	disagree. If they're saying that that using GnRH
24	Are you familiar with this article?	24	agonists routinely without that caveat, then I would
		1	, ,
25	A. Yes.	25	agree.
25	A. Yes.	25	-
25		25	agree.
	Page 111		agree.
1	Page 111 Q. If we could go to page E758, the first column under	1	agree. Page 113 Q. Which do you read this as saying?
1 2	Page 111 Q. If we could go to page E758, the first column under "Conclusions."	1 2	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists
1 2 3	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second	1 2 3	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in
1 2 3 4	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second sentence in the conclusions.	1 2 3 4	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in treatment of gender dysphoria and so, therefore, I
1 2 3 4 5	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second sentence in the conclusions. MS. WILLIAMS: Just a second.	1 2 3 4 5	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in treatment of gender dysphoria and so, therefore, I would disagree.
1 2 3 4 5 6	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second sentence in the conclusions. MS. WILLIAMS: Just a second. All right, go ahead.	1 2 3 4 5 6	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in treatment of gender dysphoria and so, therefore, I would disagree. Q. Flipping back to page E756, the bottom of the first
1 2 3 4 5 6 7	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second sentence in the conclusions. MS. WILLIAMS: Just a second. All right, go ahead. BY MR. MILLS:	1 2 3 4 5 6 7	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in treatment of gender dysphoria and so, therefore, I would disagree. Q. Flipping back to page E756, the bottom of the first column, "Outcomes Reproductive Function," the very
1 2 3 4 5 6 7 8	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second sentence in the conclusions. MS. WILLIAMS: Just a second. All right, go ahead. BY MR. MILLS: Q. "Despite a considerable body of literature on the use	1 2 3 4 5 6 7 8	agree. Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in treatment of gender dysphoria and so, therefore, I would disagree. Q. Flipping back to page E756, the bottom of the first column, "Outcomes Reproductive Function," the very last line basically in the first column on E756
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 111 Q. If we could go to page E758, the first column under "Conclusions." "Despite a" sorry, this is the second sentence in the conclusions. MS. WILLIAMS: Just a second. All right, go ahead. BY MR. MILLS: Q. "Despite a considerable body of literature on the use of GnRHas, few rigorously conducted and controlled prospective studies are available from which to derive evidence-based recommendations." Do you agree that that's true as to the use of GnRHa agonists in children? A. So I agree that there's so I do believe that there is adequate literature to support the use of GnRH analogs for the treatment of gender dysphoria. These are they're not randomized controlled trials as maybe implied here in the conclusion, and so in that way I would agree.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 113 Q. Which do you read this as saying? A. I think that they're implying that GnRH agonists should not be used in the way that I'm using them in treatment of gender dysphoria and so, therefore, I would disagree. Q. Flipping back to page E756, the bottom of the first column, "Outcomes Reproductive Function," the very last line basically in the first column on E756 "Conclusions" A. Okay, hold on. Q. Yep. Yeah, the very last line on E756. A. Okay. Q. "Conclusions: The available data suggests that gonadal function is not impaired in girls treated with GnRHas. Nevertheless, available data are limited. Long-term data on fecundity and ovarian reserve of treated patients of CPP are needed." So in 2009, the effects of puberty blockers for central precocious puberty on fertility were not

29 (Pages 110 - 113)

outlining that a group of women treated for central

appeared to have no diminishment in their fertility.

precocious puberty and followed for fertility outcomes

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You would agree that that is correct, that

there are few rigorously conducted and controlled

prospective studies available?

this, I don't know. Do you feel comfortable?

	Page 114		Page 116
1	There's not a pathophysiologic reason that I would	1	A. I'd like to at least read the entire abstract
2	expect GnRH agonists to impair future fertility.	2	BY MR. MILLS:
3	As a pediatric endocrinologist, when I'm	3	Q. Sure.
4	prescribing GnRH agonists for central precocious	4	A before answering.
5	puberty, I do not, and I don't think other pediatric	5	Q. Sure.
6	endocrinologists, do warn of a risk of infertility.	6	MS. WILLIAMS: Okay.
7	So with all that said, there's certainly	7	A. Okay, what was your question?
8	more research that could be done on every topic	8	BY MR. MILLS:
9	including this one, but I don't have an expectation	9	Q. So the sentence says, "Although there have been many
10	that GnRH agonists impair someone's fertility who	10	significant changes in GnRHa usage, there is a
11	don't have another reason for impaired fertility.	11	definite paucity of evidence-based publications to
12	Q. But would you agree with the consensus statement that	12	support them."
13	long-term data on fecundity and ovarian reserve of	13	Do you agree with that description of GnRHa
14	treated patients with CPP are needed?	14	usage?
15	A. I'm not sure that I would agree based on the fact that	15	A. There have been significant changes in GnRH usage.
16	that this isn't something that I I don't I	16	Q. Sorry. Do you agree that there is a definite paucity
17	don't know that the I don't think that the question	17	of evidence-based publications to support how GnRHas
18	about GnRH agonists causing infertility independently	18	are currently used?
19	is one that is commonly debated amongst pediatric	19	A. No, I wouldn't use the word paucity. I presented
20	endocrinologists.	20	research related to the use of GnRH agonists for the
21	I think that if the if the group here	21	treatment of gender dysphoria, so I would I would
22	that wrote this is saying that they're we would	22	disagree.
23	benefit from more data to prove this assertion, then I	23	But in reading this abstract, it seems like
24	can support that, but I'm not accustomed to weighing	24	the authors here are are intentionally trying to
25	the risk of infertility as a potential risk when	25	avoid the type of discussion we're having today about
	Page 115		Page 117
1	deciding about treating central precocious puberty	1	the the decision to use GnRH agonists for treatment
2	with patients with that condition.	2	of gender dysphoria, but rather outlining its use. So
3	Q. I'd like to show you a follow-up statement to this	3	I wouldn't I wouldn't say that the authors here are
4	one, which I'm marking as Exhibit 15.	4	have been tasked to answer the question about the
5	MARKED FOR IDENTIFICATION:	5	recommended treatment of gender dysphoria.
6	EXHIBIT 15	6	Q. You would agree that they are trying to point out what
7	12:08 p.m.	7	they call the deficiencies in the literature, though,
8	BY MR. MILLS:	8	correct?
9	Q. Entitled "Use of gonadotropin-releasing hormone	9	A. I'm not sure what their intention is.
10	analogs in children update by International	10	Q. So on page 365, the start of the second column
11	Consortium."	11	under this is in section "Use of GnRHa and the
12	Are you familiar with this article?	12	management of transgender adults" that were in albeit
13	A. I'm not sure if I've read this article completely or	13	in the second column, the first full sentence.
14	not.	14	"The impact on BMD is concerning since
15	Q. Sure. You would agree it's titled "Guidelines" at the	15	lumbar spines e-scores at age 22 years were found to
16	top?	16	be lower than those observed prior to treatment
17	A. I see the word guidelines there, yes.	17	suggesting a possible permanent decrement in BMD.
18	Q. Yeah. So on this first page in the middle of the	18	Thus, it is unclear how long GnRHa can safely be
19	abstract toward the end of the abstract paragraph it	19	administered."
20	says, "Although there have been many significant	20	Do you agree with that statement?
21	changes in GnRHa usage, there is a definite paucity of	21	MS. WILLIAMS: Again, do you want to read
22	evidence-based publications to support them."	22	it? I mean, it's up to you, but I just want to give
23	Do you agree with that statement?	23	you the opportunity if you don't recall reading this
24	MS. WILLIAMS: Counsel, if he hasn't read	24	article.

30 (Pages 114 - 117)

25 A. I'll just read Section 7 real quickly and then I can

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concern.

31 (Pages 118 - 121)

question and answers you gave on the Michigan

A. Do you feel like you're coming up to a good pause

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website --

break in a little bit?

do not have any concern about using GnRH agonists for

that patient in terms of their bone mineral density.

In other clinical scenarios, I would have more

25

A. So there's -- there's this one study that I'm

referencing here that showed catchup, catchup towards

32 (Pages 122 - 125)

the use of GnRH agonists plus estrogen may result in a

slightly shorter final stature, lots of evidence to

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	Page 126		Page 128
1	support that notion I think I haven't seen, but just	1	potential reasons why that that may be, but this
2	as a pediatric endocrinologist understanding how these	2	isn't saying that bone density in those girls worsened
3	hormones work and how kids grow, I think that GnRH	3	from its baseline z-score.
4	agonists do have an impact on stature, usually an	4	Q. Your next sentence says, "These findings raise
5	impact that is desired.	5	concerns about prolonged GnRHa therapy with and in
6	BY MR. MILLS:	6	some" sorry "without and in some groups with sex
7	Q. Just a couple more if you're okay. Getting close.	7	hormone therapy on bone health in transgender youth
8	I'm going to show you an article that you	8	and adults."
9	coauthored, marking as Exhibit 16, in the Journal,	9	Do you agree that the findings raised
10	looks like, of Clinical Endocrinology.	10	concerns about prolonged GnRH therapy without and
11	MARKED FOR IDENTIFICATION:	11	sometimes with sex hormone therapy on bone health?
12	EXHIBIT 16	12	A. Bone health is certainly a factor that we're using
13	12:27 p.m.	13	when we're making decisions with patients and families
14	BY MR. MILLS:	14	about GnRH agonists length of time on them. I think
15	Q. And are you familiar with this article?	15	that GnRH agonists serve a purpose for patients with
16	A. Yes.	16	gender dysphoria, but shouldn't be used in the absence
17	Q. And you were a coauthor on it?	17	of other of of an indication for use for gender
18	A. Yes.	18	dysphoria.
19	Q. If we could look at page 1565, the second paragraph.	19	Q. So are you saying you no longer have concerns about
20	So it begins, "The literature on the impact of GAHT,"	20	prolonged GnRH therapy
21	which is I believe is gender-affirming hormone	21	A. I would have concern sorry. I would have concern
22	therapy, "in transgender youth is limited."	22	about using GnRH agonists longer than required
23	Would you agree with that sentence?	23	unnecessarily because that would potentially be
24	A. Well, I believe this is talking about bone density,	24	there would be potential risk to bone density without
25	correct?	25	subsequent benefit.
	Page 127		Page 129
1	Q. That's right.	1	Q. And you don't have data about how long GnRHa can
2	A. So I think it in this paper we are outlining the	2	safely be administered?

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literature, so I guess it's up to the reader to say

3 4 how limited it is.

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I would say that it's -- it's limited to the extent that these are the main articles that we have to reference. So there is -- there is data to -to review to answer questions about bone density, but certainly more -- more study on this topic is welcomed.

Q. The second to last sentence of that paragraph, "In one 11 12 of the largest studies of bone mass development, trans 13 girls had low BMD z-scores at the initiation of the 14 study and after three years of estrogen therapy." I

15 believe this was the same study we were just talking 16 about.

6

7

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18 largest studies of bone mass development? 19 A. Yeah, so if we -- if we explore that sentence a little

Do you still agree that this is one of the

20 bit more, the interesting thing here is that trans 21 girls start with low bone mineral density before

22 treatment and then continue to have low bone mineral 23 density at the end of treatment. So it's interesting

24 that there is this difference in baseline bone density 25

in trans girls which, you know, there's -- there's

A. I think I answered that question.

4 Q. Page 1567, the bottom of the first column. This is 5 about four sentences up from the bottom. The sentence 6 is connected to Citation 506.

"Further research is also needed to determine optimal timing and duration of gonadotropin hormone agonist therapy in transgender youth as it relates to bone health and to determine the prevalence of osteoporosis, osteopenia, and fractures among transgender youth and adults."

Do you still agree with that sentence?

14 A. I think more research in this area would be great.

Q. On page 1569 in the second column, the first full paragraph the second sentence, "Prospective studies are needed to determine the timing and duration of gonadotropin hormone agonist therapy in transgender youth that optimizes peak bone mass"; do you still agree with that sentence?

21 A. I think a specific study to help address that question 22 would be wonderful, but the fact that a study doesn't 23 exist doesn't preclude me from safely using GnRH

25 Q. But you wrote last year that, "Prospective studies are

33 (Pages 126 - 129)

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	A CORT		- 19- 1-1
1	needed to determine the timing and duration of GnRH	1	correct?
2	therapy," correct?	2	A. Yes, the average peer in that age group would be going
3	A. Sorry, I wrote what?	3	through pubertal changes.
4	Q. You wrote last year that, "Prospective studies are	4	Q. And that effect would be irreversible, right?
5	needed to determine the timing and duration of GnRHa	5	A. What effect exactly?
6	therapy in transgender youth that optimizes peak bone	6	Q. In other words, you could not go back in time and go
7	mass," correct?	7	through puberty as the same time as one's peers did?
8	A. I'm not sure I wrote that sentence, but it's in this	8	A. That's correct.
9	article that I'm authored on.	9	Q. And could that disconnect negatively effect a person's
10	I agree that more studies on prospective	10	psychological well-being?
11	studies on this topic would be needed to help answer	11	A. I think that I hear from patients that that as
12	that question more definitively, but still doesn't	12	they're seeing their peers start puberty, oftentimes
13	preclude me from using GnRH agonists.	13	they're hoping that they will soon be able to go
14	Q. Do you recall giving a talk at the University of	14	through puberty as well so, yes, that can be socially
15	Michigan around October 21st, 2027 [sic] with a	15	difficult.
16	co-presenter Dr. Ellen Selkie entitled "Doctrine care	16	Q. And it sounds like it can cause can cause social
17	for transgender children and adolescents?	17	distress?
18	MS. WILLIAMS: Objection. I think 2027.	18	A. In patients that were that are feeling social
19	MR. MILLS: 2017.	19	distress related to a delay in their puberty, that
20	BY MR. MILLS:	20	social distress would be less than the distress
21	Q. Yeah, a talk at University of Michigan October of 2017	21	associated with the going through endogenous
22	with Dr. Selkie, do you recall that talk?	22	puberty or else the GnRH agonist wouldn't be
23	A. I'm not sure that I have a strong memory of it, but I	23	indicated.
24	certainly know Dr. Selkie and believe you that I gave	24	Q. But blocking of puberty could cause social distress,
	41 ' 4 11		40
25	this talk.	25	correct?
25	Page 131	25	correct? Page 133
1	Page 131 Q. Sure. You've coauthored papers with Dr. Selkie,	25	Page 133 MS. WILLIAMS: Objection.
	Page 131		Page 133 MS. WILLIAMS: Objection. A. Social distress in the way that we've been discussing
1	Page 131 Q. Sure. You've coauthored papers with Dr. Selkie, right? A. Yes.	1	Page 133 MS. WILLIAMS: Objection. A. Social distress in the way that we've been discussing a desire to be progressing through puberty with at
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34 (Pages 130 - 133)

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that point. I would say as a pediatric

endocrinologist seeing patients with delayed puberty,

So blocking puberty would prevent pubertal

development during the same time as one's peers,

Is this consistent with your experience?

gender-affirming hormone therapy. In my experience,

Q. So that would mean that somewhere between, if you use

this study, in your experience 95 to 98 percent of

patients who start puberty blockers will go on to

A. Yes, which makes sense given that the progression into

Tanner stage 2 is that sort of predictive time where

we're better able to understand the persistence into

pubertal suppression is used to take that extra time,

adulthood of one's gender identity, but still the

A. I would say that the majority of patients that are

Q. About what percent would you say it is in your

the number is higher than 1.9 percent.

prescribed pubertal suppression do go on to start

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experience?

A. I think only about 5 percent.

cross-sex hormones; is that right?

prescribe pubertal suppression to the correct Q. So a provider should assume that a patient prescribed puberty blockers is almost certain to progress to hormonal therapy? A. That is definitely not how I think about it. I would say that when I'm prescribing pubertal suppression I am myself keeping a very open mind and encouraging the patient and the family to keep an open mind to allow continued exploration of gender identity during that time of pubertal suppression and make no assumptions. Q. But as a matter of fact, you know that 95 percent --95-plus percent of those patients will go on to hormonal therapy? A. That's right. So I need to be cognizant of the fact that for the ones that don't, I need to, you know, help -- help to recognize when discontinuation of pubertal suppression is appropriate with patients that no longer require it. Q. So would you consider hormonal therapy part of the standard course of treatment for gender dysphoria that starts with puberty blockers? A. It's -- the treatment with gender-affirming hormones Page 137 is part of the recommended -- is a recommended option for therapy to treat gender dysphoria as outlined by WPATH and the Endocrine Society, yes. Q. I guess what I'm asking is, if it's 95 to 98 percent who go on to hormonal therapy, would you consider that to be the standard course of treatment? A. I don't consider therapy to be a standard course of treatment. I consider every patient to be an individual person with individual needs and decisionmaking. Q. Do you tell patients that 95 to 98 percent of those who start puberty blockers will go on to cross-sex hormones? A. I'm not sure if I've used those exact percentages, but I -- I talk in great detail about the potential for transition to gender-affirming hormones when starting pubertal suppression. Most patients and families assume that they will progress to hormones because they feel stable in their gender identity, and yet it's my job to continue to think critically about each patient and help them to think critically about themselves. Q. And so do you tell families the risks of cross-sex

hormones before you start puberty blockers?

A. I do talk about the implications of pubertal

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35 (Pages 134 - 137)

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Exhibit 19, which is a book chapter you wrote in

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	Page 138	1	Page 140
	suppression followed by gender-affirming hormones whe	1	"Pubertal suppression and transgender youth."
	2 starting pubertal suppression, yes.	2	MARKED FOR IDENTIFICATION:
	Q. And do you think that is the best practice to use	3 4	EXHIBIT 19
	before prescribing puberty blockers?A. Yes.	5	1:50 p.m. BY MR. MILLS:
		6	Q. That word continues to be a challenge.
	6 Q. If we could go back to Exhibit 1, which is your 7 Advances in Pediatrics article. We're on page 10, and	7	Anyways, I believe after the front matter
	8 this is the third full paragraph about five sentences	8	I've just excerpted your chapter from this
	9 in. It starts, "Although the effects." It's right	9	publication. Do you recognize
10		10	A. Yes.
11		11	Q. And you coauthored this chapter?
12		12	A. Yes.
13		13	Q. If we could turn to page 80 in the chapter. The first
14		14	full paragraph toward the last sentence of the
15		15	first full paragraph it starts with, "The intervention
16		16	with a GnRH agonist." Do you see that?
17	7 So would you agree with just the first part	17	A. Mm-hmm, yes.
18		18	Q. So I'll just read that. "The intervention with a GnRH
19	started with the intent of initiating cross-sex	19	agonist is "reversible" and allows time for a further
20	0 hormones later on?	20	gender identity exploration prior to committing to
2	1 A. I'm not sure I love the word intent. I think that the	21	feminizing medications." And then you say,
22		22	"Initiation of treatment with a GnRH agonist in a
23		23	transgender girl at pubertal stage 2 requires
24		24	discussion about several other considerations. The
25	5 it's very, very unlikely that that gender identity	25	adolescent will continue to grow, but at a prepubertal
	Page 139	1	Page 141
	1 will change and that it would it is very, very	1	speed while on GnRH agonist therapy.
	2 likely that this person will be eligible for for	2	"If estrogen is initialed later in
	gender-affirming hormones in the years to come, but	3	adolescence, a growth spurt and subsequent growth
	I'm still using my diagnostic abilities and working with patients each time I see them to confirm that the	4 5	arrest will occur likely resulting in a shorter final
	with patients each time I see them to confirm that the trajectory of the plan is still correct.	6	adult height than if no intervention were pursued." Do you still agree with that section that I
	7 Q. So do you disagree with what you wrote in 2017 which	7	just read?
	is that puberty blockers are often started with the	8	A. Yes.
	9 intent of initiating cross-sex hormones later on?	9	Q. So skipping one sentence, but now we're talking about
10	_	10	yeah, so skipping one sentence, "Spermatogenesis
11		11	will not occur if puberty is suppressed. Therefore, a
12		12	child treated with GnRH agonist medication followed by
13		13	estrogen would not have the opportunity to preserve
14		14	sperm using the standard methods."
15	5 Q. Okay.	15	Do you still agree with that what I just
16	6 A. But I would just maybe point out that the intent can	16	read?
17	7 change as a patient's clinical course change	17	MS. WILLIAMS: Objection.
18	8 changes.	18	A. Yeah, so I agree, but I would probably say if I were
19		19	to, you know, rewrite the sentence, spermatogenesis
20		20	will not occur while puberty is suppressed, because I
21		21	think the sentence misses the element of the
22	2	22	conversation we were having earlier about how one may
23		23	still have the potential for fertility if they elect
24	4 Q. I would like to show you what I'm marking as	24	to go through puberty at a later time endogenously.

36 (Pages 138 - 141)

But the point remains that discussions

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Case 2:22-cv-00184-LCB-CWB

37 (Pages 142 - 145)

Q. I'm showing you what I've marked as Exhibit 20, which

"Cross-Sex Hormones and Acute Cardiovascular Events in

is an article by Getahun and others entitled

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sentence before conclusions, "Estrogen treatment

likely increases the risk of thrombolic embolic

disease, particularly synthetic ethanol, estradiol,

24

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question.

But I would also say that we have in

pediatrics the risk for thromboembolism is extremely

38 (Pages 146 - 149)

"Development of mature sperm and oocytes

occurs during puberty, therefore, progressing through

natural puberty is a requirement for fertility."

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1 Do you still agree with that statement that

- 2 progressing through natural puberty is a requirement
- 3 for fertility?
- 4 A. Yes.
- 5 Q. And by natural puberty you mean puberty of the 6
 - person's biological sex?
- 7 A. I mean endogenous puberty, puberty created by the body 8
- 9 So if you have a person that has
- 10 hypogonadism and is cisgender, you'd be giving them
- 11 hormones, but that person would not be able to
- 12 reproduce either. Does that make sense?
- 13 Q. But I guess I'm asking a slightly different question
- 14 which is that progressing through puberty of the
- 15 person's biological sex is a requirement for
- 16 fertility?
- 17 A. You have to go through puberty aligning with your
- 18 biologic sex using your own body's hormones, yes.
- 19 Q. If we skip -- skip a sentence and then right after the
- 20 number 36 you say, "Patients considering GnRH agonist
- 21 therapy for gender dysphoria may not decide to allow
- 22 their natal puberty to progress in later adolescence
- 23 choosing instead to bridge to gender-affirming hormone
- 24 therapy. If that decision is made, there will never
- 25 be maturation of sperm or eggs and no opportunity for
 - Page 151

- 1 gamete preservation."
- 2 Do you still agree with what I just said?
- 3 A. Yes. Someone that was on GnRH agonists followed by
- 4 hormones and continues on hormones will not have
- 5 maturation of their germ cells.
- Q. So they would be infertile? 6
- A. At the present time, yes. If that person desired
- 8 fertility, then again I would advise them to
- 9 discontinue their hormones.
- 10 Q. So skipping the short paragraph right after the number
- 11 21, "Patients presenting after puberty should be
- 12 advised that future fertility could be compromised by
- 13 prolonged use of gender-affirming hormones."
- 14 Do you still agree that future fertility
- 15 could be compromised by prolonged use of
- 16 gender-affirming hormones?
- 17 A. Yes.
- 18 Q. If we go back to Exhibit 1, which was the Advances in
- 19 Pediatrics, and we go to page 10, and this is about
- 20 midway through the big paragraph closer to the bottom,
- 21 the sentence starts with, "A child who starts on GnRH
- 22 agonist therapy." Just let me know if you see it.
- 23 A. I got it.
- 24 Q. Okay. "A child who starts on GnRH agonist therapy at 25
 - a similar stage 2 and continues on the" -- I think it

should be "medication as cross-sex hormones are 1

Page 152

- 2 introduced later in adolescence will never have
- 3 spermatogenesis or menarche and will not have the
- 4 opportunity to bank gametes using cryopreservation."
 - Do you still agree with that statement?
 - A. This is almost the exact same statement that we just read, so I have the same answers.
- 8 Q. So that's a yes?
- A. Well, I think that that person would not have -- they 9
- 10 would not be fertile while taking these interventions,
 - and if they desired fertility, my advice would be to
- 12 discontinue treatment.
- 13 Q. Unless putting aside the possibility of discontinuing
 - treatment, this child would never be able to reproduce
- 15 naturally or artificially?
- 16 A. Well, that's a weird way to say it. If you discount
- 17 this option, then -- then you never could do it?
- 18 That's not how I typically would talk.
- 19 Q. Well, that is my question.
- 20 A. Okay, can you say it again?
- 21 Q. Yeah. So putting aside the possibility of
 - discontinuing treatment, this child could never
- 23 reproduce naturally or artificially, correct?
- 24 A. So I think that that's not 100 percent accurate for --
- in terms of some protocols, and at -- at some centers 25

1 transgender men could be stimulated to ovulate despite 2

not having gone through puberty, and this -- this is a 3 -- and germ cells can be harvested from testicular

4 tissue.

5 None of this is standard of care or outside

6 of what I would say experimental, but to say never,

7 I'm not sure that I can agree with that completely

8 given the experimental progress of genetic -- of

9 fertility science.

10 Q. And are you aware of children being born using those

- 11 experimental methods?
- 12 A. No.
- Q. So if we take a biological male who starts puberty 13
- 14 blockers at Tanner stage 2 and then goes on to
- 15 estrogen, let's say he continues those interventions
- 16 until age 45 then decides to align with his biological
- 17 sex and holds treatment, would he go through natural
- 18 male puberty at age 45?
- 19 A. I don't know the answer to that question, but I think
- 20 that it's probable that he would.

whether it would be possible.

- 21 Q. You're aware of no evidence showing that he would?
- 22 A. I'm not aware of anyone that has done that to prove 23
- 24 Q. How likely is it do you think that he would be able to

25 successfully reproduce?

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39 (Pages 150 - 153)

- 1 A. I don't know how likely it would be. I think that his
- 2 fertility could be compromised.
- 3 Q. Do you think there's a greater than 50 percent chance
- 4 that his fertility would not develop?
- 5 A. Yes.
- 6 Q. Same question for a biological female. If she goes
- 7 through puberty blockers at Tanner stage 2 and then
- 8 testosterone and then discontinues interventions at
- 9 age 38, can she go through female puberty and become
- 10 -- and have a child?
- 11 A. There's a couple of different variables here, of
- course, because the female potential for fertility is
- marginal even in cisgender women at 38 sometimes, so I
- would say it's possible, but I think that it would be
- more likely at a younger age.
- 16 Q. Do you think the chance in the scenario I outlined
- 17 would be less than 50 percent that she would be able
- 18 to reproduce?
- 19 A. I'm less certain that it would be less than 50 percent
- in this scenario than in the biologic male scenario.
- 21 Q. And why are you more certain in the biological male
- 22 scenario?
- 23 A. It seems to take less time for the -- the ovary to
- 24 produce oocytes after suppression compared to
- 25 spermatogenesis.

- is 1 irreversible effects that you're avoiding to begin
 - with puberty blockers; is that right?
 - 3 A. Yes.
 - 4 Q. And do you tell patients that?
 - 5 A. Yes.
 - 6 Q. And are you aware of any literature discussing that7 issue?

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Page 157

- 8 MS. WILLIAMS: Object to form.
- A. Yes. That's -- we talked about a lot of issues, but
- there's certainly literature that I highlighted in my
- 11 rebuttal report outlining how -- how patients and
- 12 families think through fertility conversations when
- 13 considering gender-affirming care.
- 14 BY MR. MILLS:
- 15 Q. But you aren't aware of any long-term outcome studies
- 16 examining patients who started puberty blockers at
- 17 Tanner stage 2 then progressed to hormonal therapy and
- then wanted to become fertile, correct?
- 19 A. Correct, and so that is something that needs to be
- 20 discussed when considering treatment.
- $21\,$ $\,$ Q. $\,$ And you're not aware of any literature studying that
- specific issue; is that right?
- 23 A. Is that different than the question you just asked?
- 24 Q. Yeah. So my first question is about long-term outcome
- 25 studies.

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Page 155

- 1 Q. So if these -- if these individuals, and just talking
- 2 generally about adolescents who started at puberty
- 3 blockers at Tanner stage 2 and then went on to
- 4 cross-sex hormones, if they were to halt that
- 5 treatment and start going through their biological sex
- 6 puberty, would that also mean that they would develop
- 7 secondary sex characteristics associated with their
- 8 biological sex?
- 9 A. Yes.
- 10 Q. So if they wished to remain living with their
- transgender identity, this would likely heighten their
- 12 distress?
- 13 A. That's possible, yes.
- 14 Q. So a male who -- a biological male who wishes to be
- able to reproduce would then suffer a permanently
- lower voice?
- 17 A. In order to progress far enough into male puberty to
- have spermatogenesis, I would expect the voice to
- 19 deepen.
- 20 Q. And a female who wishes to reproduce would suffer
- breast enlargement that would only be reversible via
- 22 surgery?
- 23 A. Yes.
- 24 Q. And so when you say that they can choose to become
- 25 fertile later, that would come at the cost of the

- 1 A. Okay.
- 2 Q. But is there any literature about that specific issue?
- 3 Again, thinking about the cohort of patients who
- 4 started blockers at Tanner 2 and then went on to
- 5 cross-sex hormones and then wanted to become fertile,
- 6 are you aware of any literature that tries to examine
- 7 what happens with those patients?
- 8 A. No literature talking about what happens to those
 - patients. The topic is obviously discussed in the
- 10 literature we've been reviewing together.
- 11 Q. If we could go back to Exhibit 19, which is, I
- believe, the other book chapter. This is page 79, the
- first column in the middle. It's about three
 - sentences -- sorry, two sentences before footnote 7.
- 15 A. Okay.
- 16 Q. It starts, "Fertility for transgender men on sex
- steroid treatment testosterone has not been wellstudied."
- Do you agree with that sentence still?
- 20 A. I think since that publication there's been a bit more
- 21 literature on the subject, but I -- I would still
- agree with that statement.
- 23 Q. Has there ever been a live birth using sperm from a
- male who was administered puberty blockers at Tanner stage 2 followed by cross-sex estrogen?

40 (Pages 154 - 157)

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	Page 158		Page 160
1	A. I don't know.	1	treating trans feminine individuals, and if it is a
2	Q. But you're not aware of one?	2	problem, then it's something that we would discuss and
3	A. No.	3	potentially address.
4	Q. Have you studied the literature regarding mental	4	Q. Are you familiar with Marci Bowers?
5	health problems in adolescents sorry in	5	A. Yes.
6	adults I'll start over.	6	Q. She is president of WPATH; is that right?
7	Have you studied the literature regarding	7	A. Yes.
8	mental health problems in adults resulting from	8	Q. And she's one of the foremost surgeons in the field of
9	sterility?	9	gender transition, right?
10	A. No.	10	A. She's a well-respected surgeon, I would agree with
11	Q. And are you aware of any literature exploring mental	11	that.
12	health problems in adults resulting from sterility	12	Q. You said in your report that, "Uniformly, providers in
13	caused by puberty blockers, cross-sex hormones, or	13	this field are motivated by a desire to promote health
14	potential transition surgeries?	14	and well-being in adolescents."
15	A. Not that I'm aware of.	15	Would you say that about Dr. Bowers?
16	Q. I'd like to show you what we'll mark as Exhibit 21,	16	A. I don't know Dr. Bowers other than as the president of
17	which is a short research presentation that you're	17	WPATH and a surgeon that I've heard of that is
18	listed as a coauthor on.	18	well-respected in the field, so beyond that I can't
19	MARKED FOR IDENTIFICATION:	19	say.
20	EXHIBIT 21	20	Q. Well, your report says, "Uniformly, providers in this
21	2:21 p.m.	21	field are motivated by a desire to promote health," so
22	BY MR. MILLS:	22	I'm just wondering if that applies to Dr. Bowers.
23	Q. Was this a study done through your clinic?	23	A. I would think so, although Dr. Bowers isn't a
24	A. Yes.	24	pediatric endocrinologist. She doesn't do the type of
25	Q. So on page 209, this table in the first block on the	25	care that we're discussing today.
	Page 159		Page 161
1	right under quote, it says, "A 17-year-old trans woman	1	Q. Would you say that would you say that Dr. Laura
2	gave the quote, "I have lost 100 percent of my sex	2	Edwards-Leeper is motivated by a desire to promote
3	drive, all of it.""	3	health and well-being in adolescents?
4	Was this one of your patients?	4	A. I'd hope that anyone that's a licensed professional in
5	A. I don't know who it was because it's a deidentified	5	any field is motivated to do good. To speak
6	study.	6	specifically about individuals, makes me
7	Q. But all of these adolescents were recruited from your	7	uncomfortable.
8	gender clinic?	8	Q. Would you say that about Dr. Paul Hruz?
9	A. There's seven physicians in our clinic so I don't know	9	A. I think that Dr. Hruz also has the best interests of
10	if I took care of this patient or not.	10	children in mind and wouldn't disparage any person
11	Q. But this was a patient in your clinic?	11	individually for any reason.
12	A. Yes.	12	Q. And would you also agree that legislators in Alabama
13	Q. Did you have any follow-up indicating that this	13	who voted this law are motivated by a desire to
14	changed?	14	promote well-being in adolescents?
15	A. Again, this is a deidentified study so I don't know	15	A. I would hope so, although my hope is that by listening
16	who this is.	16	to experts in the field that they would decide that
17	Q. Have you seen this in other patients, trans female	17	their that their output in that regard falls short.
18	patients?	18	Q. You're not aware of any evidence, though, that
19	A. Diminishment in sex drive? Yes.	19	legislators in Alabama who voted for this law were
20	Q. Would you say that's common?	20	motivated by transgender animus?
21	A. I would say it's not uncommon. Sometimes patients	21	A. No.
22	report, for example, diminishment in erections as a	22	Q. I'm going to show you what I'm marking as Exhibit 22,
23	very positive finding, positive effect of hormone	23	which is an article in the Carolina Journal at Duke.
24 25	treatment.	24	MARKED FOR IDENTIFICATION:
1 / 7	It's something that I ask about when I'm	25	EXHIBIT 22

41 (Pages 158 - 161)

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specifically.

1	Page 162	1	Page 164
$\frac{1}{2}$	2:26 p.m. BY MR. MILLS:	$\frac{1}{2}$	Q. So you think Dr. Bowers is wrong?
2		2 3	A. I don't know the answer to that question other than to state that I believe that even prepubertal boys can
3	Q. If we could go to page 3 of the article it says,		
4	"Bowers" the second paragraph, "Bowers seemed to	5	achieve orgasm, and so I I don't I don't know what to say more than that.
5	acknowledge these challenges saying that, "Really about zero biological males who fought puberty at the	6	-
			Q. How often do prepubertal boys have orgasms? What
7	typical Tanner 2 stage of puberty around 11 years old	7	percent of boys do you think experience that?
8	will ever go on to achieve an orgasm."" Did I read that correctly?	8 9	A. It would be a very low percentage. Remember that
9	•		prepubertal boys don't have sex or interact with their
10	MS. WILLIAMS: Have you had a chance to	10	genitals in a sexual way, the same way that an adult trans woman may learn to do.
11	read this article?	11	·
12	A. (Witness shakes head in the negative.)	12	Q. So if we set aside the very low percentage of boys who
13	MR. MILLS: I'm not going to be asking	13	had prepubertal orgasms, would you then agree that
14	about other parts of this article.	14	Dr. Bowers is correct that the biological male who
15	A. Yes, you read that correctly.	15	blocks puberty at Tanner stage 2 then progression to
16	BY MR. MILLS:	16	estrogen and continues estrogen will never achieve an
17	Q. Is that consistent with your clinical experience?	17	orgasm?
18	A. No.	18	MS. WILLIAMS: Objection.
19	Q. What percentage of your biological male patients would	19 20	A. I don't know the answer to that question. BY MR. MILLS:
20 21	you say who block puberty at the typical Tanner stage 2 go on to achieve an orgasm?	21	Q. I'm going to be showing you something which is marked
22	A. I don't I don't have a number for you, but just to	22	as Exhibit 23, which is an article from the Free Press
23	explain why I said no, even prepubertal children can	23	entitled, "Top 10 doctors blow the whistle on sloppy
24	have that the rhythmic orgasm of the muscles of the	24	care."
25	phallus when exposed to stimulation, so I think that	25	MARKED FOR IDENTIFICATION:
23		23	
١.	Page 163		Page 165
1	that I'm not sure if I'm not sure what the	1	EXHIBIT 23
2	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one	2	EXHIBIT 23 2:30 p.m.
2 3	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that	2 3	EXHIBIT 23 2:30 p.m. BY MR. MILLS:
2 3 4	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is	2 3 4	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the
2 3 4 5	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is important. It is in male adolescents the process	2 3 4 5	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the very bottom of the page of page 5.
2 3 4 5 6	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is important. It is in male adolescents the process of going through male puberty at a time where they	2 3 4 5 6	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the very bottom of the page of page 5. A. Which part of page 5?
2 3 4 5 6 7	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is important. It is in male adolescents the process of going through male puberty at a time where they explore their bodies in a different way than a trans	2 3 4 5 6 7	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the very bottom of the page of page 5. A. Which part of page 5? Q. Yeah, the very last part of page 5.
2 3 4 5 6 7 8	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is important. It is in male adolescents the process of going through male puberty at a time where they explore their bodies in a different way than a trans girl would on pubertal suppression, and so the way	2 3 4 5 6 7 8	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the very bottom of the page of page 5. A. Which part of page 5? Q. Yeah, the very last part of page 5. A. Okay.
2 3 4 5 6 7 8 9	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is important. It is in male adolescents the process of going through male puberty at a time where they explore their bodies in a different way than a trans girl would on pubertal suppression, and so the way that that person may choose to be intimate would be	2 3 4 5 6 7 8 9	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the very bottom of the page of page 5. A. Which part of page 5? Q. Yeah, the very last part of page 5. A. Okay. Q. So I'll read it. "Bowers told me she now finds early
2 3 4 5 6 7 8 9	that I'm not sure if I'm not sure what the context of the conversation is, but I think that one thing that I do talk a lot about with patients is that the process of going through masculinizing puberty is important. It is in male adolescents the process of going through male puberty at a time where they explore their bodies in a different way than a trans girl would on pubertal suppression, and so the way that that person may choose to be intimate would be affected by pubertal suppression, and so those sort of	2 3 4 5 6 7 8 9 10	EXHIBIT 23 2:30 p.m. BY MR. MILLS: Q. I think we can go to page 5 of this article at the very bottom of the page of page 5. A. Which part of page 5? Q. Yeah, the very last part of page 5. A. Okay. Q. So I'll read it. "Bowers told me she now finds early puberty blockade inadvisable. I'm not a fan of
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this process of what is Tanner 2. You know, if you

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	Page 166		Page 168
1	say that the very first very first sign that a	1	13 of Exhibit 1, and this is the last full paragraph
2	testicle has grown slightly larger as Tanner 2, that's	2	on page 13, a sentence that starts with "While."
3	not really allowing a child a young trans girl to	3	You say, "After a while," you say,
4	have tangible evidence of secondary sex	4	"long-term health data is sparse with regards to
5	characteristics, so I wouldn't I would similarly	5	adolescents."
6	not advise using blockers at the very first whiff of	6	Do you still agree that long-term health
7	puberty, but that you really do need to experience	7	data is sparse with regards to adolescents on medical
8	some pubertal development in order to help that	8	gender transition?
9	diagnostic pathway.	9	A. No. I think that since 2016 there's been quite a bit
10	And what Dr. Bowers is saying is that the	10	of literature outlining that type of data.
11	longer someone goes into puberty, she's feeling like	11	Q. So in the eight years since 2016, you think there is
12	there's better surgical outcomes, so that this is a	12	now long-term health data that is not sparse?
13	topic that comes up when we're talking about the	13	A. I think that there's there's long-term health data
14	timing of starting GnRH agonists.	14	that I would not not classify as sparse.
15	Q. So she says, "I'm not a fan of blockade at Tanner 2	15	Q. And which studies would those be?
16	anymore," but in the chart we looked at in your	16	A. I think the the the retrospective studies by
17	publication earlier, Tanner 2 is when you listed	17	Turban are an example of of longer-term data
18	starting puberty blockers. So I guess I'm not seeing	18	suggesting benefits of gender-affirming care for
19	where she's redefining what Tanner 2 is.	19	adolescents.
20	Are you saying she's talking about a	20	We have more longitudinal studies such as
21	different stage than you're talking about?	21	the Chen study outlining outcomes on gender-affirming
22	A. Nope. I'm saying that these topics are something that	22	hormones. Those those are examples.
23	we would talk about with patients when we're deciding	23	Q. Do you agree that the Chen study goes up to two years
24	when to intervene with GnRH agonists. So for some	24	after treatment initiation?
25	patients the progression past Tanner 2 would be so	25	A. Yes.
	Page 167		Page 169
1	disruptive from a mental health standpoint that any of	1	Q. Would you characterize two years after treatment
2	the advantages that Dr. Bowers is talking about would	2	initiation as long-term health data?
3	not outweigh the risk of waiting longer to intervene.	3	A. I don't think so.
4	So just like all of the different topics	4	Q. So Chen would not provide long-term health data?
5	that we've been talking about, the potential risks and	5	A. I'll grant that.
6	benefits of GnRH agonist therapy, these are really	6 7	Q. Psychotherapy poses no risk to fertility; is that
7	important things to have conversations with patients	8	right?
8	and families about.	9	A. Correct.
10	Q. So would you say that you are not a fan of blockade at Tanner 2?	10	Q. It poses no risk to ability to attain an orgasm?A. I wouldn't think so.
11	A. I'm a fan of blockade at Tanner 2 if it's clinically	11	Q. Psychotherapy poses no risk to breastfeeding
12	indicated.	12	capability?
13	Q. And do you disagree with Dr. Bowers that patients who	13	A. No.
14	are blocked at Tanner 2 are not as functional?	14	Q. It poses no risk to stature development?
15	A. I don't know what she means by that.	15	A. No.
16	Q. I assume she means sexually functional; do you agree	16	Q. It poses no risk to bone density?
17	with her?	17	A. No.
18	MS. WILLIAMS: Objection.	18	Q. It poses no risk to heart disease?
19	A. I do think that there could be benefit from a sexual	19	A. No.
20	function perspective to wait longer to block to use	20	Q. It poses no risk of blood clots?
21	GnRH agonists, and from a gender dysphoria standpoint	21	A. No.
	advantages to intervening sooner.	22	Q. It poses no risk of stroke?
22	da vantages to intervening sooner.		

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24 Q. It poses no risk of underdeveloped penile tissue?

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23 BY MR. MILLS:

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24 Q. If we could go back to Exhibit 1, which was your

article from Advances in Pediatrics. This is on page

23 A. No.

25 A. No.

Page 170 Page 172 1 Q. Are you aware of any studies showing that 1 percentage of people that currently meet the 2 2 psychotherapy without medical interventions does not diagnostic criteria for gender dysphoria, I would 3 eliminate gender dysphoria? 3 posit that the percentage is higher. 4 A. Sorry, can you say that again? 4 Q. And by old studies using other definitions, do you 5 5 Q. Sure. Are you aware of any study showing that mean like the DSM-IV or what are you referring to? 6 6 psychotherapy without medical interventions does not A. So some studies, some of this literature is using 7 7 DSM-IV, gender identity disorder in childhood alleviate gender dysphoria? 8 A. I think -- I'm not sure I can cite a study that's 8 criteria. Some of the studies are using referred 9 9 specifically answering that question, but the fact patients to mental health clinician for gender 10 that patients have gender dysphoria despite 10 concerns. So the -- so the denominator is important 11 psychotherapy would presume that conclusion. 11 when you're trying to understand the phenomenon of 12 O. So in response to my question, you are not aware of 12 persisting gender identity. Fortunately, we don't 13 any study showing that psychotherapy without medical 13 have to make decisions about treatment in prepubertal 14 14 youth so we can allow puberty to begin and help interventions does not alleviate gender dysphoria? 15 15 A. I'm not aware of a study that takes a group of people clarify things for us. 16 with gender dysphoria, exposed them to psychotherapy 16 Q. But you agree that using the DSM-IV definition may 17 alone, and then cures all their gender dysphoria, no. 17 alter the expected results from what you're seeing 18 Q. That wasn't my question. My question was, are you 18 today under the DSM-5? 19 aware of any studies showing psychotherapy without 19 A. Well, I -- I don't know, but I think if we're using 20 20 medical interventions does not alleviate gender the term gender dysphoria to describe people that were 21 21 dysphoria? diagnosed in a time that that term didn't exist, then 22 A. No. 22 we have to be careful. 23 23 Q. When you started prescribing medical gender transition Q. You're not aware of any updated studies along these 24 interventions in your current clinic, was that around 24 lines analyzing persistence from childhood into 25 25 2017? adulthood using DSM-5 criteria of gender dysphoria? Page 171 Page 173 A. 2015. 1 1 A. No. Q. 2015, okay. Sorry, just catching up. Q. And you're not aware of any studies examining 3 3 So if we could go back to Exhibit 6, this 4 was one of your articles entitled "Transgender and DSM-5 definition of gender dysphoria, are you? 5 gender nonconforming adolescent care." 5 A. Well, we do have -- have studies examining the 6 6 percentage of people that discontinue treatment, so A. 6? 7 7 Q. That's right. This is page 2, the second paragraph I'm not sure if that answers your question.

8 under "Gender Identity," the second paragraph under 9 "Gender identity."

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The second to last sentence says, "Estimates for the likelihood of gender dysphoria persisting from childhood into adulthood range from 2 to 27 percent depending on the study."

You still agree with that statement? A. I think this is a tricky one. I don't know that I agree with that statement because we're talking about using the term gender dysphoria to describe old studies that were using other definitions of children captured in their studies. So I -- I would agree that that range sounds accurate if you're asking me the percentage of children that express a difference in gender identity during childhood, how many of them are transgender adults, I think that range sounds

22 23

24 accurate.

25 If you're saying how many people -- what persistence from adolescents into adulthood using the

You would assume that if someone is continuing on treatment they have persistence of their gender dysphoria or their gender identity and the high rate of continuation of treatment suggests a high rate of persistence.

Q. But you don't have any evidence outside of continuing 14 medications in terms of showing persistence from 15 adolescence into adulthood, correct?

16 A. I can't think of a study specifically asking that 17 question.

18 Q. And in terms of the literature considering continuing 19 interventions, you're not aware of any of that 20 literature that controls for the use of medical gender 21 transition and establishes the likelihood that 22 adolescent gender dysphoria will persist into 23 adulthood, are you?

24 MS. WILLIAMS: Objection.

A. I'm sorry, could you repeat that question?

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transgender as adults.

Q. But you have no long-term data supporting that view?

group of transgender adolescents that are not being

offered treatment tracking them into adulthood, but we

Transgender Survey exploring, you know, patients that

do have retrospective data from, for example, the US

A. Right. I can't point to a specific study taking a

	Page 174		Page 176
1	BY MR. MILLS:	1	currently identify as transgender and their
2	Q. Sure. So you talked about the studies that examined	2	experiences earlier in their life.
3	continuation of using the interventions, and my my	3	Q. So I'm going to show you what I've marked as Exhibit
4	question is, are you aware of any literature that	4	24, which is an article entitled "Continuation of
5	controls for using medical gender transition and	5	gender-affirming hormones among transgender
6	establishes the likelihood that adolescent gender	6	adolescents and adults" by Roberts and others.
7	dysphoria will persist into adulthood?	7	MARKED FOR IDENTIFICATION:
8	A. No.	8	EXHIBIT 24
9	Q. In your clinic you don't track patients once they hit	9	2:49 p.m.
10	18, do you?	10	BY MR. MILLS:
11	A. Many of my patients are older than 18, so I tend to	11	Q. This was published in the Journal of Clinical
12	see patients until they're 21 or 22.	12	Endocrinology and Metabolism, right?
13	Q. You don't track people once they hit 22, then?	13	A. Yes.
14	A. Patients that graduate from clinic and see adult	14	Q. Are you familiar with this article?
15	providers, no.	15	A. I have seen it.
16	Q. So you wouldn't know if any of those patients' gender	16	Q. So on page 2 in the second column, the first paragraph
17	dysphoria persisted past age 22?	17	just before "methods" the second to last sentence, "In
18	A. I wouldn't know the percentage of patients, no.	18	the current study, we assess the rate of treatment
19	Q. And most of your patients are on medical transition	19	discontinuation after starting gender-affirming
20	interventions; is that right?	20	hormones among TGD adolescents." And then go over to
21	A. Yes.	21	page the next page. In the second column in the
22	Q. And so you wouldn't know how many adolescent patients	22	middle, the third sentence of the first full
23	not on medical interventions would see their gender	23	paragraph, "The four-year" oh, sorry, that's not
24	dysphoria resolve, do you?	24	the right sentence.
25	A. Not from my own clinical experience. But I would say	25	So there's a link to Figure 3 and then it
	Page 175		Page 177
1	that I have seen many patients with gender dysphoria	1	says, "Patients who are younger than 18 years of age."
2	that for one reason or another were not able to access	2	Do you see that on the second column
3	gender-affirming care and in follow-up those patients	3	A. Yes.
4	tended to have persistence of their gender dysphoria.	4	Q on that page?
5	Q. Other providers in the United States didn't start this	5	Okay. And then the next sentence is, "The
6	course of treatment for medical gender transition	6	four-year continuation rate among people who started
7	until around until after 2006; is that right?	7	treatment under 18 years of age was 74.4 percent, and
8	A. I think that most pediatric gender clinics were not in	8	the rate among people who were greater than or equal
9	place before that year, that's correct.	9	to 18 years was 64.4 percent."
10	Q. You don't know if adolescents with gender dysphoria	10	So this study found that over 25 percent of
11	who do not receive medical interventions are likely to	11	minor patients had discontinued hormonal therapy after
12	be transgender as adults, do you?	12	only four years, correct?
13	A. Say that one more time, please? Sorry.	13	A. First I'd just like to point out the sentence that you
14	Q. Yeah. You don't know if adolescents with gender	14	started to read and then stopped was just explaining
15	dysphoria who do not receive medical interventions are	15	that patients who were younger than 18 years of age
16	likely to be transgender as adults, do you?	16	when starting hormones were less likely to discontinue
17	A. I do expect that transgender adolescents who do not	17	than patients who were 18 years or older, and I don't
18	receive medical interventions will continue to be	18	dispute the findings of this article.

question is framed would suggest that all of the patients that stopped treatment stopped because they had a change in their gender identity, where I don't think that is accurate that patients stopped treatment for a whole host of potential reasons. Q. But you would agree that over 25 percent of patients

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I think that -- I think the way that the

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pubertal suppression. This is page 76, and I'm under

column, and I'm at the bottom of the second paragraph

"Endocrine clinical practice guidelines" the second

	Page 178		Page 180
1	in the study under 18 years old stopped	1	under that section.
2	A. Yes.	2	You say, "There has been limited literature
3	Q treatment within four years?	3	published on treating patients prior to 13.5/14 years
4	And this study doesn't say what percentage	4	of age."
5	of people may have stopped interventions later, does	5	Do you still agree with that statement?
6	it, to your knowledge?	6	A. Yes. This is referring to gender-affirming hormone
7	A. Later than what?	7	treatment.
8	Q. Beyond four years.	8	Q. The next sentence, "Rigorous" actually oh, so
9	A. No.	9	you're talking these the Endocrine Society guidelines.
10	Q. Sorry, if you'll just give me one moment.	10	You say, "These guidelines also note that rigorous
11	I'm going to show you an exhibit that I'm	11	study and evaluation is needed to determine the
12	marking as Exhibit 25. It's an article that you cite	12	effects of prolonged pubertal delay on bones, gonads,
13	in your report by van der Loos and others,	13	and brain development."
14	"Continuation of gender-affirming hormones."	14	Do you agree with the guideline's note on
15	MARKED FOR IDENTIFICATION:	15	those issues?
16	EXHIBIT 25	16	A. Yeah, so, I mean, I think we're like quoting me
17	2:53 p.m.	17	quoting the guidelines, so I guess if you want me to
18	BY MR. MILLS:	18	agree to something specific in the guidelines, I'd
19	Q. Do you recognize this article?	19	like to see the guidelines. I agree with this
20	A. Yes.	20	sentence as I wrote it.
21	Q. So if we go to page 872, the E of the first paragraph	21	Q. So I guess I would say, do you agree that rigorous
22	under "Results" it says, "Overall 282, 59 percent of	22	study and evaluation is needed to determine the
23	all 480 eligible, i.e., minimum age of 18 years and at	23	effects of prolonged pubertal delay on bones, gonads,
24	least one year of gender-affirming hormone treatment	24	and brain development?
25	participants, had gonadectomy."	25	A. I think that I would certainly welcome more study on
.	Page 179		Page 181
1	So 59 percent of the participants in this	1	long-term outcomes in these areas on long-term
2	study had their sexual organs removed, correct?	2	pubertal suppression, but given that we do have we
3	A. Yes.	3	do have evidence to inform us on how GnRH agonists do
5	Q. And after that removal, are individuals supposed to continue hormonal therapy?	5	interplay with these things and use that to make informed decisions with patients on GnRH agonists use
	A. Yes. After gonadectomy, some sex hormone is importan		today.
6 7	for the body's health.	t 6	Q. Would you say that evidence is rigorous?
8	Q. So for 59 percent of these patients, 59 percent of	8	A. Well, I would, for example, say we talked about bone
9	these study participants, they were medically required	9	density studies in some detail today, I would call
10	to continue hormonal therapy, correct?	10	those studies rigorous.
11	A. Well, I don't I think I'd have to reread the	11	Q. Including the one that found no full catchup by age
12	article about how old these people were. I think	12	22?
13	there's some controversy about how long to continue	13	A. Right. So that's data that we can now use to discuss
14	sex hormones in older people.	14	with patients the potential risks and benefits of GnRH
15	This is also in Europe where the rates of	15	agonists and determine length of treatment.
16	gonadectomy are lower in the United States, but, yes,	16	Q. So if you go back a page to page 75 here, this is near
17	people that generally have gonadectomy benefit from	17	the bottom of the second column where we're talking
18	continuing to have sex-hormone exposure in their body	18	about WPATH guidelines, it's right after you say
19	usually in the form of testosterone and estrogen	19	number 1 starting puberty suppression, and two
20	replacement therapy.	20	starting sex therapy.
21	Q. All right. If we could go back to Exhibit 19, which	21	The next sentence is, "Puberty suppressing
22	was part of your book chapters on the duration of	22	hormone eligibility may begin as soon as adolescents
100		100	

46 (Pages 178 - 181)

have the onset of puberty to Tanner stage 2 which they

note may occur as early as nine years of age, although

it is stated that the evaluation of this approach has

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1 only been studied for adolescents who are at least 12 2 years old." 3 4 5 at least 12 years old? 6 7 pubertal suppressions at 12 or Tanner stage 2, so 8 9 10 11 12 13 14 15 age 12? 16 17 18 about, like, the Chen study, for example, the study 19 20 21 starting hormones, and I believe that many of them 22 23 24 25

Page 182

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Would you agree that the evaluation of this approach has only been studied for adolescents who are

- A. No. The -- the original Dutch protocol involved
- that's where that sentence comes from, and I -- I'd
- have to look at the articles, but I do believe more
- contemporary research related to GnRH agonists
 - includes folks younger than 12, but I'd have to -- I'd
- have to look to make sure.

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- Q. You're not aware of any literature that specifically considers patients who started puberty blockers before
- A. So again, I'd like to look at individual studies to be
- sure. Like if we're -- if we're -- if we're thinking
- involved gender-affirming hormones, but many of those
- children were treated with GnHR agonists prior to
- were younger than age 12. So I don't have -- I don't
- have a citation off the cuff, but I no longer think
- that this is accurate, but don't have -- don't have
- something more definitive to say.

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- Q. You mentioned the Dutch studies. Are you saying that 1 2 some of those children were under the age of 12 when 3 they started puberty blockers in the Dutch protocol?
- 4 A. No. I think I was saying that the original Dutch 5 protocol I think as it was worded was using age
- 6 cutoffs instead of pubertal staging as their primary 7 decision point.
- 8 Q. Yeah, got it.

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So if you flip over to page 77, the bottom of the first column about three sentences up, "However, the published guidelines offer less nuance and guidance around topics commonly encountered when treating transgender youth. For example, if GnRH agonists are started in early puberty, when should they be discontinued, especially if gonadectomy is not

17 Do you agree that the current guidelines 18 are still lacking on that question?

practical or desired."

A. I think that gender medicine is very nuanced because everyone is an individual with individual goals and needs, so to protocol-ise gender-affirming care is really challenging.

23 So I agree that, you know, a protocol 24 doesn't contain the nuance of -- of the character of 25 the types of conversations and decisions that

1 clinicians face every day, but you use the tenets of

- 2 the standards of care and clinical practice guidelines
 - in practicing medicine with -- with actual real live
- 4 people every day, using those tools in your toolkit to
- 5 understand what is potentially the best next step for 6 each person.
 - Q. So these -- the guidelines for medical gender transition differ from the guidelines that you would use for something like precocious puberty, correct?
 - A. I think there's nuance there too because, you know, I think when I'm seeing a patient with precocious puberty, the decision to start treatment is not straightforward. You're balancing things like the
- 14 importance of height, what the height prediction is, 15 what the parent's heights are, what the social --
- 16 social or emotional challenges a young person might 17 face going through precocious puberty, and so, no, a
- 18 simple protocol to practice medicine doesn't work.
- 19 That's why doctors are people and not robots. 20
- Q. So the next sentence here is, "What about the large 21 percentage of adolescents seeking medical care well 22 after the onset of puberty or GnRH agonists helpful 23 for these patients?"

You agree that the published guidelines still do not offer much guidance on that question?

Page 185

Page 184

- A. I think that's one of the reasons that I wrote this 2 chapter, right, because the -- the -- you know, the
- 3 Endocrine Society guidelines and WPATH Standards of
- 4 Care again provide that framework, but then in the
- 5 real world a patient comes in, you know, after Tanner
- 6 stage 2 and we have the same conversations like we --
- 7 like we had before about what would GnRH agonists do,
- 8 what wouldn't they do, what are your goals, what's the
- 9 source of distress, and so, no, I don't think that the
- 10 guidelines speak to that to the degree that clinicians 11 see it in practice.
- 12 Q. And then the next sentence, "If so, should GnRH 13 agonists be considered for adult transgender patients 14 presenting for care?"

And then you say, "While peer-reviewed studies attempting to tackle these questions are sparse, we've attempted to guide the reader through the various situations."

You agree today that peer-reviewed studies on those questions are sparse?

- A. Yeah, those specific scenarios I would agree.
- 22 O. And then the last sentence in that paragraph is, "In 23 writing this section, we have relied on personal 24 clinical experience, input from other experts in the 25 field, published clinical guidance, and the limited

47 (Pages 182 - 185)

Veritext Legal Solutions 877-373-3660 800.808.4958 available data on medical treatment and outcomes for transgender individuals."

3 You still agree that there is limited

- 4 available data on medical treatment and outcomes for
- 5 transgender individuals?

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- 6 A. As I -- as I outlined in my reports, there is
- 7 literature outlining safety and efficacy and I would
- 8 not currently categorize that as limited.
- 9 Q. So you disagree with what you previously wrote?
- 10 A. I would say that today the -- I would not describe the 11 available literature as limited.
- 12 O. So you think in the four years since 2019 the
- 13 available data has gone from limited to sufficient?
- 14 MS. WILLIAMS: Objection.
- 15 A. Well, I think -- I think that when I wrote this
- 16 article and used the word limited. I felt that the
- 17 literature was sufficient to use these interventions
- 18 at that time, so I think that the -- the body of
- 19 literature was sufficient then and now and, no, I
- 20 would not use the word limited today.
- 21 BY MR. MILLS:
- Q. Even though you cannot point to any long-term outcome 22
- 23 studies that examine any period longer past the age of
- 24
- 25 A. Since the publication of this article, correct.

Page 188

- 1 Q. Okay. Well, I guess we'll look at Standards of Care 8 2 for a minute.
 - You're familiar with Standards of Care 8?
- 4 A. Yes.

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- Q. And do you regularly consult it in your practice?
- A. I read it enough now that I don't reconsult it, but 7 yes.
- 8 Q. I will have that marked as Exhibit 26.
- 9 MARKED FOR IDENTIFICATION:
- 10 **EXHIBIT 26**
 - 3:10 p.m.
- 12 BY MR. MILLS:
- 13 Q. WPATH Standards of Care 8, and this is largely just 14 the adolescent chapter.

If you could flip to page S46, and the first column, the end of that initial paragraph, on the third sentence up from the end of that first

18 paragraph, "Despite the slowly growing body of

19 evidence supporting the effectiveness of early medical 20 intervention, the number of studies is still low and

21 there are few outcome studies that follow youth into adulthood." WPATH wrote this in 2022.

23 Do you disagree that the number of outcome studies is still low? 24

25 A. I think that -- that given the fact that the treatment

Page 187

- Q. So what is your basis for changing your position? 1
- A. I think it -- I think it has to do with whether -- how
- 3 we're using the word limited. You know, I think I'm
- 4 using the word limited in this paper in the -- in the
- 5 framework of like most authors do in writing a paper
- 6 calling for more literature on a subject, but not in a
- 7 way that means limited as in not enough to proceed
- 8 with care.
- 9 Q. The Standards of Care 8 say, "The long-term effects of
- 10 gender-affirming treatments initiated in adolescence
- 11 are not fully known."
- 12 Do you agree with that statement?
- A. Sorry, this is from WPATH Standards of Care 8? 13
- 14 Q. Mm-hmm.
- A. Could you read it again? 15
- 16 Q. "The long-term effects of gender-affirming treatments 17 initiated in adolescents are not fully known."
- 18 MS. WILLIAMS: I'm sorry. Are you going to
- 19 be asking him about things from the SOC8?
- 20 MR. MILLS: Just about this statement.
- 21 A. Okay, so you want me to answer whether I agree with
- 22 that statement?
- 23 BY MR. MILLS:
- 24 Q. Mm-hmm.
- A. Not fully known, I think that I can support that.

- Page 189 pathway that we've been talking about has only existed
- 2 since the 1990s naturally up comes data into older
- 3 adulthood is low.
- Q. It also says, "The number of studies is still low."
- 5 Do you see that?
- 6
- Q. And do you agree with that statement?
- A. I think that compared to other areas of medicine, the 9 number of studies is low yet sufficient to endorse the
- 10 practice -- practice care that -- the care outlined in
- WPATH's standards. 11
- 12 Q. Earlier you said that between 2019 and 2023 the 13 evidence became no longer limited.

14 Do you disagree with WPATH that there's a 15 slowly growing body of evidence?

A. No. 16

20

17 Q. The next sentence is, "Therefore, a systematic review 18 regarding outcomes of treatments in adolescence is not 19 possible."

Do you agree with WPATH on that point?

- 21 A. I don't know if I would have agreed that a systematic
- 22 review is not possible at the time of this writing. I
- 23 -- but I don't have a reason to disagree. I didn't
- 24 attempt to conduct a systematic review at that time. 25

Q. So do you believe that a systematic review regarding

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A. I don't know.

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	Q.	Are you aware of any systematic reviews regarding
4		outcomes of treatments in adolescents?
5	A.	I know that there have been attempts at systematic
6		reviews around various topics in in this field,
7		some about pubertal suppression, some about the care
8		in general, yes.
9	Q.	So if we go down a little bit in that column, the
10		second to last sentence it's referring to the de Vries
11		study in 2014.
12		"The 2014 long-term follow-up study is the
13		only study that followed youth from early adolescence
14		pretreatment mean age of 13.6 through young adulthood
15		posttreatment mean age of 20.7."
16		Are you aware of any first, do you agree
17		that when this was published in 2022 that 2014 study
18		was the only study that had a long-term follow-up?
19		Yes.
20	Q.	And are you aware of any new studies since SOC8 was
21		published that had long-term follow-up?
22	A.	I'm not. I think that the the evidence supporting
23		gender-affirming care comes from long-term studies
24		like the ones that we're talking about now, also
25		retrospective data and cohort-type data.
		Page 191
1	Q.	All right. The WPATH Standards of Care 8 deviates
2		from the Dutch approach used in the de Vries 2014
3		study because it doesn't prescribe age cutoffs; is
4		
		that right?
5	A.	Yes.
5 6	A. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for
6 7	Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right?
6 7 8	Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes.
6 7 8 9	Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to
6 7 8 9 10	Q. A. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14?
6 7 8 9 10 11	Q. A. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me?
6 7 8 9 10 11 12	Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm.
6 7 8 9 10 11 12 13	Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that
6 7 8 9 10 11 12 13 14	Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and
6 7 8 9 10 11 12 13 14 15	Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older
6 7 8 9 10 11 12 13 14 15 16	Q. A. Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age.
6 7 8 9 10 11 12 13 14 15 16 17	Q. A. Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term
6 7 8 9 10 11 12 13 14 15 16 17 18	Q. A. Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the
6 7 8 9 10 11 12 13 14 15 16 17 18	Q. A. Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the use of gender medical gender transition that WPATH
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. A. Q. A. Q. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the use of gender medical gender transition that WPATH guidelines prescribe, is there?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. A. Q. A. Q. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the use of gender medical gender transition that WPATH guidelines prescribe, is there? I'm not sure that there's long-term studies of
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. A. Q. A. Q. A.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the use of gender medical gender transition that WPATH guidelines prescribe, is there? I'm not sure that there's long-term studies of patients following the what is this, 2008?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. A. Q. A. Q. A. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the use of gender medical gender transition that WPATH guidelines prescribe, is there? I'm not sure that there's long-term studies of patients following the what is this, 2008? '22.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. A. Q. A. Q. A. Q.	Yes. So the Dutch protocol used age cutoffs at age 16 for cross-sex hormones; is that right? Yes. And you typically give cross-sex hormones closer to age 14? Who me? Mm-hmm. Not necessarily. I think that I do have patients that are 14 that have been good candidates for hormones and others that it made more sense to wait until an older age. So if the Dutch study provides the only long-term outcomes study, there is no long-term study about the use of gender medical gender transition that WPATH guidelines prescribe, is there? I'm not sure that there's long-term studies of patients following the what is this, 2008?

outcomes of treatments in adolescents is possible now?

Page 192 1 good time for a ten-minute break, if that works for 2 everybody. We can go off. 3 (Recess taken at 3:16 p.m.) 4 (On the record at 3:26 p.m.) 5 BY MR. MILLS: Q. So, Dr. Shumer, I'm going to show you another clip of 6 7 Dr. Selkie speaking with you in the presentation we 8 talked about earlier. (Video played.) 9 10 BY MR. MILLS: 11 Q. Do you agree with Dr. Selkie that there is not as much 12 evidence for medical gender transition as there is for 13 other treatments for children? 14 A. First I just want to point out that that was like a 15 four-second clip of a -- I don't know what. She said 16 "but" and then it trailed off, so I would be 17 interested to know what she said afterwards. But I 18 would also add that, yes, there are certainly 19 treatments that we use in pediatrics that have been 20 around for decades, and naturally if a modality of 21 treatment has only been around for a couple decades 22 there's going to be less long-term outcomes data on 23

that particular intervention, so clearly that's true.

I'd just like to point out, though, that this is the case with all advances in medicine. When

Page 193 a new -- when a new treatment for significant medical condition emerges and there's significantly improved -- significant improvement in whatever condition it is you're treating, then you -- you note that there's not going to be, you know, decades-long outcomes data and use that information when understanding whether this new treatment modality might be beneficial.

- 8 Q. So there's less evidence supporting medical gender transition of adolescents than there would be, for example, about protruding precocious puberty?
 - A. I think those are really difficult to compare because people have been treated for precocious puberty for longer using GnRH agonists. The outcomes that you're measuring for precocious puberty are perhaps simpler to -- to measure; you know, final height, for example, or onset of the first period.

The outcomes that you're attempting to measure when assessing treatments for gender dysphoria are more challenging to measure, quality of life measures, and -- and so I'm not sure if I would agree that there's more articles published about the treatment of precocious puberty.

There's certainly a lot of articles published about transgender medicine, but patients have been treated for longer for that condition for

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A. 19 you said?

Q. So back to Exhibit 19, which is the book chapter we

were talking about I think just before SOC8, the

Q. That's right. And I'm on page 83, and this is the

second column the end of the first full paragraph just

duration of pubertal suppression.

A. I think both are the subject of continued research.

Q. Sure. But do you also agree that medical gender

transition is different from treatment for cancer

because of what you say here, it is the subject of

complicated than diabetes or cancer.

continued research?

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50 (Pages 194 - 197)

Page 196

Page 197

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A. I wouldn't say that.

Q. Which one would you say is supported by greater

A. You know, I think -- I think that the question doesn't

BY MR. MILLS:

	Page 198		Page 20
1	Q. So do you no longer agree that medical gender	1	make sense without context. So if you're asking me is
2	transition is different from treating conditions like	2	there greater evidence that insulin will keep you
3	cancer or diabetes?	3	alive when you have type 1 diabetes or
4	A. I just outlined one reason, one way that it's	4	Q. Sure.
5	different. I don't think that they're the same, but	5	A should we use GnRH agonists, then, yes, there's
6	being the subject of continued research is not a	6	more evidence that insulin will keep you alive if you
7	difference.	7	have type 1 diabetes.
8	Q. Do you think the evidence base for diabetes treatment	8	Q. And that medicine was used before 2006, correct?
9	is greater or less than the evidence base for medical	9	A. Yes.
10	gender transition in adolescents?	10	Q. So you would say the medical gender transition of
11	A. It depends on what aspect of diabetes treatment.	11	adolescents is a newer field of medicine than using
12	Q. So you no longer think that the difference in research	12	insulin to treat type 1 diabetes?
13	distinguishes medical interventions for gender	13	A. Yes.
14	dysphoria from cancer or diabetes?	14	Q. If a patient with type 1 diabetes is unable to provide
15	A. I don't think that's what I said.	15	consent and doesn't want insulin, should the patient
16	Q. Well, you said is the subject of continued research	16	still get it?
17	makes it different from cancer then. Now you're	17	A. Yes.
18	saying it's no longer different?	18	Q. Why is that?
19	A. I'm not saying I'm not saying that. So if we read	19	A. Because there is a clear cause and effect between
20	the whole paragraph again, you know, I'm saying that	20	getting the insulin and living and and and so we
21	there's the point here is that that ascent is	21	would figure out a way for that child to get treatment
22	important in the treatment of transgender youth.	22	with insulin.
23	Whereas, when youth aren't able to provide ascent in	23	Q. If a patient with gender dysphoria does not want
24	cancer and diabetes, you would still proceed anyway.	24	medical interventions, that patient would not receive
25	That wouldn't be advisable in in in someone with	25	it, correct?
	Page 199		Page 20
1	gender dysphoria.	1	A. Correct.
•			

controversial? Clearly, because we're meeting here A. In -- in lots of different ways. There isn't a today to talk about it. Do I think that gender 4 clear -- in the same way that no insulin equals dying, medicine is the subject of continued research? 5 yes, insulin equals living. The conversation around Absolutely. There are certain tenets of diabetes care 6 the potential risks and benefits using treatments for 7 that are better researched than elements of gender gender dysphoria is much more nuanced and involves 8 dysphoria. You know, new medicines to treat type 2 consideration of personal values and attitudes on diabetes in children like Ozempic and Victoza, you 9 gender, your gender identity, how it's affecting you 10 know, are just now getting studied. on a day-to-day, so it's -- it's a more complicated 11 So we're always learning in medicine and decision that requires patient involvement and input we're always trying to advance care to make patients 12 to determine what the best course of treatment is. healthier, but the crux of this paragraph is really 13 Q. And if a patient with gender dysphoria wants medical just that meaningful ascent is really important in --14 interventions, that patient would ordinarily receive 15 when working with gender diverse youth. them? Q. You would say there is no difference between the 16 A. There's certainly situations where a patient may want 17 evidence base of your day-to-day treatment of diabetes an intervention, but doesn't meet criteria to receive 18 for patients in your clinic as there is of treatment it, so wanting it by itself is not sufficient. for your gender dysphoria patients? 19 Q. I'm going to show you what I'm marking as Exhibit 30, 20 MS. WILLIAMS: Objection. which is labeled, "Metaanalysis hormone therapy,

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mental health, and quality of life among transgender

MARKED FOR IDENTIFICATION:

people, a systematic review."

EXHIBIT 30

3:42 p.m.

Page 200

Page 201

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difficult to isolate the effects of hormone therapy."

Do you agree that uncontrolled confounding

	Page 202	,	Page 204
1	BY MR. MILLS:	1	is a major limitation in the medical gender transition
2	Q. And this was a systematic review conducted prior to	2	of minors literature?
3	SOC8 funded by WPATH.	3 4	A. I think it's a limitation and I think it's important to understand that gender identity care for people,
4	Are you familiar with this document?		
5	A. I have seen it, yes.Q. Okay. So page 1 of the abstract says, "We sought to	5	for adolescents specifically, is a challenging thing to measure without any confounding. That, you know,
7	systematically review the effect of gender-affirming	7	what is confounding? If you have if you have a new
8	hormone therapy on psychological outcomes among	8	penicillin and you're comparing it to the old
9	transgender people."	9	penicillin, you can put a bacteria in a culture dish
	Page 2 under "Search Strategy" it says,	10	and put another one in a different culture dish and
10 11	"This review is one of a series of systematic reviews	11	everything else is the same and just introduce the two
12	conducted for WPATH to inform the 8th revision of the	12	penicillins and see which bacteria resolves faster,
13	standards of care." If you want to see on page 13, it	13	and there's not a lot of confounding because
13	says funded by WPATH, but it's not important to my	14	everything else in that experiment was exactly the
15	questions.	15	same.
16	Page 12 the end of the first full paragraph	16	But when you're talking about comparing
17	under the "Discussion" it says, "It was impossible to	17	adolescents receiving gender-affirming care in Boston,
18	draw conclusions"	18	in LA, in Chicago, and San Francisco, seeing different
19	MS. WILLIAMS: I'm sorry, where are you?	19	providers, having different sociopolitical
20	MR. MILLS: Page 12 the end of the first	20	environments, those things can confound results, and
21	full paragraph under "Discussion."	21	this is certainly not unique to gender-affirming care,
22	MS. WILLIAMS: After Table 6?	21 22	but a problem with measuring all sorts of different
		23	
23	MR. MILLS: That's right.	24	complex care modalities.
24	BY MR. MILLS:		Q. So the next paragraph, the third paragraph under
25	Q. "It was impossible to draw conclusions about the	25	"Discussion" says, "Another source of potential bias
	Page 203		Page 205
1	effects of hormone therapy on death by suicide."	1	was recruitment of participants from specialized
2	Do you agree that it's impossible to draw	2	clinics that imposed strict diagnostic criteria as a
3	conclusions about the effects of hormone therapy on	3	prerequisite for gender-affirming care. The dual role
4	death by suicide?	4	of clinicians and researchers as both gatekeepers and
5	A. I don't dispute that the totality of literature isn't	5	investigators may force transgender study participants
6	adequate in addressing that question. I'd also point	6	to over- or understate aspects of their mental health
7	out the other finding that wasn't read which	7	in order to access gender-affirming care."
8	demonstrates improvements in quality of life and	8	Do you agree that that's another source of
9	decrease in depression and anxiety symptoms among	9	potential bias?
10	transgender people.	10	A. Potentially. If I was reading any article outlining
11	So while I think that it is seemingly hard	11	outcomes of gender-affirming care, I would be
12	to draw conclusions about death by suicide, the the	12	interested to know how patients were recruited, what
13	improvements in other areas of mental health are	13	the modality of care was at that institution in order
14	notable and I would I would hypothesize that people	14	to better understand if the patients in that study
15	with improved quality of life, decreased depression	15	were similar to the patients that I treat.
16	and anxiety symptoms are less likely to die by	16	Q. You mentioned a minute ago evidence regarding quality
17	suicide. However, I agree that the literature can't	17	of life, depression and anxiety. If you look at Table
18	currently answer that question.	18	6 on page 13 it lists outcome, quality of life,
19	Q. So on that other literature the next paragraph begins,	19	depression, anxiety, death by suicide as the four
20	"Uncontrolled confounding was a major limitation in	20	outcomes. Under strength of evidence it lists low for
21	this literature. Many studies simultaneously assess	21	qualify for the quality of life, low for depression,
22	different types of gender-affirming care and did not	22	low for anxiety, and insufficient for death by
22	control for gender-affirming surgery status making it	23	suicide. And the footnote E connected to low says,
23	c c,		

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"Evidence downgraded due to study limitations included

uncontrolled confounding and imprecision because of

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Page 206 Page 208 1 small sample sizes." A. I think that it's preventing guidance on the type of 2 Do you agree that the strength of evidence 2 studies that would be required to strengthen the 3 for quality of life, depression, and anxiety outcomes 3 statements made in this report. 4 are all low? 4 Perhaps I -- perhaps some studies that 5 5 A. So according to the definition as presented, I would. currently exist meet some of these criteria, but it's, 6 6 I would also just warn that when you hear something you know, similarly to the end of most scientific 7 7 like the strength of evidence is low, that doesn't articles prescribing next steps to better understand 8 8 the problem at hand. mean that the evidence is bad or poor or incorrect. 9 9 And also just to point out that when you're Q. But you would agree that at least according to these 10 talking about quality of life, another alternative 10 authors there are study designs short of randomized 11 would be worse quality of life as an outcome. So the 11 controlled trials that would be higher quality than 12 fact is that in a systematic review there was findings 12 the ones they've examined? 13 of improved quality of life for patients that are 13 A. Yes. For example, the Chen study is a prospective 14 14 study that was published after this systematic review. receiving gender-affirming care categorized as low 15 15 strength based on the criteria as presented, and I Q. And do you think the Chen study is a high quality 16 don't disagree with that. 16 study design? 17 Q. And you would agree low strength of evidence 17 A. I find it to be very helpful to me in my practice 18 means that -- relative to high strength of evidence, 18 because the type of care that's described in the Chen 19 low strength of evidence means that it's more likely 19 study is similar to the type of care that I practice, 20 that the actual effect is different from what the 20 and so I would. 21 21 study found, right? Q. And you agreed earlier that the Chen study doesn't 22 A. I agree based on the things that we've been talking 22 have data or conclusions beyond two years from 23 23 about. The petri dish example, the only logical starting cross-sex hormones, right? 24 conclusion of the difference in clearing the bacteria 24 A. Correct. is that the antibiotic worked better or worse than 25 25 Q. So we can look at the Chen study for a minute. So I'm Page 207 Page 209 1 penicillin. 1 marking the Chen study as Exhibit 31, and you're 2 2 When there's potential confounding in a obviously familiar with it; it's what we've been 3 3 complex medical problem, the ability to be certain discussing. 4 4 about whether the intervention is the cause of the MARKED FOR IDENTIFICATION: 5 change is more limited, similarly to the strength of 5 **EXHIBIT 31** 6 evidence supporting many complex health -- health 6 3:54 p.m. 7 treatment modalities. BY MR. MILLS: 8 Q. So on page 13 the bottom of the page, the new 8 Q. So on page 241, the second page of the article in the 9 paragraph that begins at the bottom of the first 9 middle of the first column at the end of that second 10 10 column of the page, actually specifically the very paragraph it says, "Evidence has been lacking from 11 last sentence in the first column, "Studies assessing 11 longitudinal studies that explore potential mechanisms 12 the relationship between gender-affirming hormone 12 by which gender-affirming medical care affects gender 13 13 therapy and mental health outcomes in transgender dysphoria and subsequent well-being." 14 populations should be prospective or use strong 14 This -- this study was published in 2023; 15 15 quasiexperimental designs, consistently report type, is that right? 16 dose of hormone therapy, adjust for possible 16 A. Yes. 17 17 Q. So would you agree with the authors that in 2023 confounding by gender-affirming surgery status, 18 18 control for other variables that may independently evidence has been lacking from longitudinal studies 19 influence psychological outcomes, and report results 19 that explore potential mechanisms by which gender-20 20 separately by gender identity." affirming medical care affects gender dysphoria and 21 21 This isn't necessarily describing a subsequent well-being? 22 randomized controlled trial, correct? 22 A. There was limited longitudinal studies on this topic

53 (Pages 206 - 209)

prior. I think that was mentioned in the metaanalysis

that we just read, and so this is an attempt to expand

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that literature.

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A. Correct.

Q. But it is explaining a higher strength of evidence

study design than currently exists, correct?

Page 212 Page 210 1 Q. So on page 242 under the results, this is the second 1 Q. But if they were not treated using the puberty 2 column, it lists that there were 6,114 observations 2 blocker, then is it safe to say that most of these 3 from 315 participants, and it says there were five 3 participants went through puberty aligned with their 4 study visits and 162 participants completed all five 4 biological sex? 5 5 study visits. A. Well, we can see exactly how many did based on these 6 So about 50 percent completed each of the 6 numbers. 7 7 five study visit questionnaires; is that right? 92 percent of people went through at least 8 A. That seems to be what they're saying. 8 some puberty aligned with their biologic sex. 9 Q. Page 241 the top of the first column, the very first Q. On page 243 in the middle of the second column, three 9 10 sentences up from the "Appearance Congruence" heading 10 full sentence, "Depression and anxiety symptoms 11 it says, "Two participants died by suicide during the 11 decreased significantly and life satisfaction 12 study, one after six months of follow-up and the other 12 increased significantly among youth designated female 13 after 12 months of follow-up." 13 at birth, but not among those designated male at 14 birth." 14 So those two individuals could not complete 15 15 a study visit at 18 or 24 months, right? So biological males saw no improvement in 16 16 A. That's correct. depression, anxiety, or life satisfaction; is that 17 Q. And two suicides out of 315 participants implies a .6 17 right? 18 percent suicide rate; is that right? 18 MS. WILLIAMS: Objection. 19 A. I don't know. I can do the math with you again. Can 19 A. I'm just going to back up for a second to read the 20 20 beginning of the paragraph. you give me those numbers? 21 21 Q. It's 2 out of 315, so roughly .6 percent --BY MR. MILLS: 22 A. Okay. 22 Q. Sure. 23 Q. -- does that sound right? 23 A. Okay, I'm with you. 24 A. Yes. 24 So, yes, during the -- during the course of 25 Q. And that's substantially higher than the adolescent 25 this study, statistically significant differences in Page 211 1 suicide rate in the United States generally; is that 1 depression and anxiety and life satisfaction variables 2 2 right? specifically were statistically significantly better 3 A. I -- I would be cautious about implying that -- that 3 in those designated female at birth compared to male 4 the -- this represents an actual rate of suicide when at birth, and then the authors continue on to discuss 5 you're -- you know, when you're -- if you're using the 5 that in more detail. 6 statistics to say what would be the expected suicide 6 Q. So in this study, biological males did not see 7 7 rate if the study were replicated, the -- the range of statistically significant improvement in depression, 8 possible based on the sample size would be quite 8 anxiety, or life satisfaction, correct? 9 broad, so I don't think this study is able to say that 9 A. Yes. 10 suicide is more likely as a result of gender-affirming 10 Q. Over on page 247, sorry, 249, the first full sentence 11 care, but I do agree that .6 percent is higher than 11 on 249 it says, "Finally, our study lacked a 12 the suicide rate in the United States. 12 comparison group which limits our ability to establish causality." 13 13 Q. So over on page 244 on the table there, Table 1, do 14 you see near the bottom of Table 1 it says, past use 14 Do you agree with that statement? 15 of GnRH agonists no was 92.1 percent of participants? 15 A. Yes. 16 16 MARKED FOR IDENTIFICATION: So 92.1 percent of the participants had not received 17 puberty blockers; is that right? 17 EXHIBIT 32 18 18 A. Yes. 4:02 p.m. 19 Q. And is that a higher percentage of patients than would 19 BY MR. MILLS: 20 not have received puberty blockers in your clinic? 20 Q. I'm going to show you what I've marked as Exhibit 32, 21 21 A. As I said, the majority of patients are presenting which I believe you cite in your rebuttal report a 22 22 older than -- than Tanner stage 2. I -- so I think commentary by de Vries and others on the Chen paper. 23 23 that the percentage of patients that are treated with This is called "Growing evidence and remaining 24 24 GnRH agonists is likely higher than the study, but not questions in adolescent transgender care." 25 25 substantially higher let's say. On page 276, which is the second page, the

54 (Pages 210 - 213)

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needed?

compare outcomes with different care models are

	Page 214		Page 216
1	first column in the middle, and I'm three sentences	1	A. Yes.
2	down from let's see. This long paragraph in the	2	MARKED FOR IDENTIFICATION:
3	middle I'm on the one, two, three, fourth sentence,	3	EXHIBIT 33
4	starts with, "However, other possible determinants of	4	4:05 p.m.
5	outcomes were not reported, particularly the extent of	5	BY MR. MILLS:
6	mental healthcare provided throughout GAH treatment."	6	Q. I'm going to show you what I'm marking as Exhibit 33,
7	So you agree that the Chen study did not	7	which is the protocol submitted for the Chen study.
8	control for psychological therapy, correct?	8	Are you familiar generally with these types
9	A. Correct.	9	of prestudy protocols?
10	Q. And it did not control for use of other psychiatric	10	A. I suppose I am.
11	medications?	11	Q. Yeah?
12	A. I don't believe so.	12	A. Yes.
13	Q. So the study cannot exclude the possibilities that	13	Q. Okay. So page 34, and the pagination skips ahead so
14	psychological therapy or other psychiatric medications	14	it's only on like page 5 or so. The one, two, third
15	could account for any positive change?	15	sentence says, "The MANOVA analyses will investigate
16	A. That's correct.	16	the changes over time in gender dysphoria, depression,
17	Q. And the study also does not the Chen study also	17	anxiety, trauma symptoms, self-injury, suicidality,
18	does not control for the fact that testosterone may	18	body esteem, and quality of life."
19	have mood elevating effects?	19	So the protocol proposes these eight
20	A. Right. The reader for this prospective study, just	20	measures to study; is that right?
21	like any prospective study, has to think critically	21	MS. WILLIAMS: Objection. Do you need to
22	about what the intervention was, what the outcomes	22	read this or do you need more time to answer?
23	are, think about these potential confounders, and then	23	A. I can answer
24	draw conclusions.	24	MS. WILLIAMS: Okay.
25	Q. So the next sentence, "To date, international	25	A that question.
	Page 215		Page 211
1	guidelines for transgender adolescent care recommend a	1	MS. WILLIAMS: Go ahead.
2	psychosocial assessment and involvement of mental	2	A. It does.
3	health professionals in a multidisciplinary care	3	BY MR. MILLS:
4	model. Whether participating centers in the current	4	Q. Okay. And flipping to page 43, the table there
5	study followed that approach is, unfortunately,	5	explains the measure that will be used for each of
6	unclear. Future studies that compare outcomes with	6	those or the surveys that will be used for each of
7	different care models are needed preferably using	7	those measures; is that right?
8	similar results."	8	A. Yes.
9	Do you agree with that statement?	9	Q. So if we go back to the Chen study on page 242, and
10	MS. WILLIAMS: I think it said "similar	10	this is Exhibit 31, and you look at the second
11	measures."	11	paragraph under "measures," at the end of that
12	MR. MILLS: Oh, I'm sorry, "similar	12	paragraph it says, "Higher scores on these measures
13	measures," yep.	13	reflect greater appearance congruence, depression,
14	A. I don't I don't know that I agree completely	14	anxiety, positive effect, and life satisfaction
15	because I'm I know the centers that conducted the	15	respectively."
16	study, and they are centers that have a psychological	16	So this study didn't report on the effects
17	assessment and involve mental health professionals in	17	on gender dysphoria, did it?
18	a multidisciplinary care model, so whether it was	18	A. I'm not sure. I'd have to go through and see if that
19	unclear in the article, it's clear to me that those	19	is mentioned or not, but I don't see it in that
20	that the clinics that did this, that performed this	20	statement right there.
21	study meet those criteria.	21	I think that I I think that the you
22	BY MR. MILLS:	22	know, the implication is that there's you know,
23	Q. Okay. But you would agree that future studies that	23	when a study is trying to measure lots of things, that
24	compare outcomes with different care models are	24	they may only be publishing the most, you know

55 (Pages 214 - 217)

they may only be publishing the most, you know,

positive sounding material.

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You know, in talking to some of the

constraints on word limits and such that they

investigators that wrote this paper, I know there was

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4 5 6 7 8 9 10 11 12 13 14 15 16	certainly would have been happy to present every piece of information, and that information is available, but that the goal of the journal article in the New England Journal of Medicine was to present the most, you know, important or groundbreaking material. So the fact that every measure isn't documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data. Q. That didn't come up in conversation with them?	4 5 6 7 8 9 10 11 12 13 14 15	A. I do Q. You A. No. Q. The resul A. No. BY MR Q. It's meas
6 7 8 9 10 11 12 13 14 15 16 17	that the goal of the journal article in the New England Journal of Medicine was to present the most, you know, important or groundbreaking material. So the fact that every measure isn't documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	6 7 8 9 10 11 12 13 14	Q. You A. No. Q. The resul A. No. BY MR Q. It's
7 8 9 10 11 12 13 14 15 16 17	that the goal of the journal article in the New England Journal of Medicine was to present the most, you know, important or groundbreaking material. So the fact that every measure isn't documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	7 8 9 10 11 12 13 14	A. No. Q. The resul A. No. BY MR Q. It's
7 8 9 10 11 12 13 14 15 16 17	England Journal of Medicine was to present the most, you know, important or groundbreaking material. So the fact that every measure isn't documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	7 8 9 10 11 12 13 14	A. No. Q. The resul A. No. BY MR Q. It's
8 9 10 11 12 13 14 15 16 17	you know, important or groundbreaking material. So the fact that every measure isn't documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	8 9 10 11 12 13 14	Q. The result A. No. BY MR Q. It's
9 10 11 12 13 14 15 16 17	So the fact that every measure isn't documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	9 10 11 12 13 14	A. No. BY MR Q. It's
10 11 12 13 14 15 16 17	documented in this journal article may be true, but also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	10 11 12 13 14	A. No. BY MR Q. It's
11 12 13 14 15 16 17	also not something that the authors are hiding from. Q. Did the authors explain to you why they've refused to release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	11 12 13 14	BY MR Q. It's
12 13 14 15 16 17	Q. Did the authors explain to you why they've refused to release the data for these other variables?A. I don't know anything about releasing or not releasing the data.	12 13 14	BY MR Q. It's
13 14 15 16 17	release the data for these other variables? A. I don't know anything about releasing or not releasing the data.	13 14	Q. It's
14 15 16 17	A. I don't know anything about releasing or not releasing the data.	14	-
15 16 17	the data.		-
15 16 17	the data.		111000
16 17		13	it?
17		16	16.
			A C 1
	A. No.	17	A. So
18	Q. Would you consider it relevant to your treatments	18	perh
19	whether gender-affirming care helps alleviate gender	19	varia
20	dysphoria?	20	there
21	A. Yes.	21	was
22	Q. But this study didn't provide any evidence on that	22	woul
23		23	BY MR
			Q. You
			Journ
25	based on the outcome measures that we ve reviewed.	23	Journ
	Page 219		
1	Q. They also omitted results going back to those original	1	A. Yes
2	eight categories on trauma symptoms, self-injury,	2	Q. Wo
3	suicidality, body esteem, and quality of life,	3	A. Wh
4	correct?	4	Q. If y
5	A Can you point to me where you're at so I can		signi
	· · · · · · · · · · · · · · · · · · ·		study
	•		A. Yes
			Q. An
9	first paragraph, "The analysis will investigate the	9	wou
10	changes over time for depression, anxiety, trauma	10	
11	symptoms, self-injury, suicidality, body esteem, and	11	A. I do
11		1	
12	quality of life."	12	BY MR
12	quality of life." A. Okay, yep.		
12 13	A. Okay, yep.	13	Q. The
12 13 14	A. Okay, yep.Q. So they omitted results on six of those eight proposed	13 14	Q. The
12 13 14 15	A. Okay, yep.Q. So they omitted results on six of those eight proposed measures, correct?	13 14 15	Q. The trans
12 13 14 15 16	A. Okay, yep.Q. So they omitted results on six of those eight proposed measures, correct?A. I don't know that to be correct. I would need time to	13 14 15 16	Q. The
12 13 14 15 16 17	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything 	13 14 15 16 17	Q. The trans A. The Q. And
12 13 14 15 16 17 18	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything that is offered up in this protocol is reproduced in 	13 14 15 16 17 18	Q. The trans A. The Q. And A. I do
12 13 14 15 16 17	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything 	13 14 15 16 17	Q. The trans A. The Q. And
12 13 14 15 16 17 18	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything that is offered up in this protocol is reproduced in 	13 14 15 16 17 18	Q. The trans A. The Q. And A. I do
12 13 14 15 16 17 18 19	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything that is offered up in this protocol is reproduced in the manuscript. 	13 14 15 16 17 18 19	Q. The trans A. The Q. And A. I do I don
12 13 14 15 16 17 18 19 20	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything that is offered up in this protocol is reproduced in the manuscript. Q. So the manuscript lists depression, anxiety, appearance and congruence, positive effect, and life 	13 14 15 16 17 18 19 20	Q. The trans A. The Q. And A. I do I do k and y
12 13 14 15 16 17 18 19 20 21 22	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything that is offered up in this protocol is reproduced in the manuscript. Q. So the manuscript lists depression, anxiety, appearance and congruence, positive effect, and life satisfaction, so the only of the eight on the 	13 14 15 16 17 18 19 20 21 22	Q. The trans A. The Q. And A. I do I do I do k and BY MR
12 13 14 15 16 17 18 19 20 21	 A. Okay, yep. Q. So they omitted results on six of those eight proposed measures, correct? A. I don't know that to be correct. I would need time to cross-tabulate and but certainly not everything that is offered up in this protocol is reproduced in the manuscript. Q. So the manuscript lists depression, anxiety, appearance and congruence, positive effect, and life 	13 14 15 16 17 18 19 20 21	Q. The trans A. The Q. And A. I do I do k and y
	22 23 24 25 1 2 3 4 5 6 7 8	Q. But this study didn't provide any evidence on that measure, did it? A. Not that I can see right now. It provides evidence based on the outcome measures that we've reviewed. Page 219 Q. They also omitted results going back to those original eight categories on trauma symptoms, self-injury, suicidality, body esteem, and quality of life, correct? A. Can you point to me where you're at so I can Q. Sure. This was in the protocol, those eight A. Okay. Q measures on page 34. Page 34 the middle of the	Q. But this study didn't provide any evidence on that measure, did it? A. Not that I can see right now. It provides evidence based on the outcome measures that we've reviewed. Page 219 Q. They also omitted results going back to those original eight categories on trauma symptoms, self-injury, suicidality, body esteem, and quality of life, correct? A. Can you point to me where you're at so I can Q. Sure. This was in the protocol, those eight A. Okay. Q measures on page 34. Page 34 the middle of the

A. Unless there's other mentions in other places that

Page 220

we're omitting, that would be correct.

- 2 Q. And to your knowledge, the authors haven't provided
- 3 this data regarding those variables for public
- analyzes, have they?
- on't have information about that.
- ou haven't seen the data?

Page 218

1

- e authors would have no reason to hide positive
- ilts, would they?
- MS. WILLIAMS: Objection.
- R. MILLS:
- more likely that they didn't report those
 - sures because they showed negative effects, isn't
 - MS. WILLIAMS: Objection.
- by negative effects I think you're implying that
- naps there was a deep diminishment in one of these
 - ables, and I have no -- no reason to believe that
- e was a diminishment in one of these, and if there
- a statistically significant negative outcome, I
- ald expect that that would be published.
- R. MILLS:
- ou expect that would be published in the New England
- rnal of Medicine?

Page 221

- - ould you publish it if you found that?
- hat do you mean?
- you conducted this study and found statistically
- nificant negative effects, would you publish that
- ly?
- es.
- nd you think the New England Journal of Medicine
 - ald accept it?
- MS. WILLIAMS: Objection.
- lon't know if it would be accepted.
- R. MILLS:
- nese researchers are all advocates for medical gender
 - sition; is that right?
- ney're providers of gender-affirming care.
- nd they advocate in their own interests, correct?
 - MS. WILLIAMS: Objection.
- lon't know that I would agree with that statement.
- on't know all of these individuals, but the ones I
 - know are doctors that are motivated by the health
- wellness of their patients.
- R. MILLS:
- ould you say they should release the full data of the
- er measures that they omitted?
- 25 A. I don't know that they haven't. I don't have any --

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22

23

24

25

the above."

So this particular study focused on wanting

hormones, specifically hormone therapy, right?

A. So this study focuses on desire for and access to

Page 222 1 Q. If they haven't, should they release it? 2 A. I don't I don't have any reason to suggest that 3 they that they shouldn't. 4 Q. So you would agree they should release the data? 5 A. I think all all research conducted is that all 6 published research data is typically open access and 7 should be publicly available. 8 Q. And you think the same of the data that they gathered 9 in this article, the Chen article? 10 MS. WILLIAMS: Objection. 11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 16 and others, "Access to gender-affirming hormones." Page 222 1 hormones historically and current mental health, yes. 2 Q. Okay. The 2015 US Transgender Survey participant not representative of the actual transgender population in the United States, right? A. Sorry, say that again. Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transge	1	D 222		P 224
2 A. I don't I don't have any reason to suggest that 3 they that they shouldn't. 4 Q. So you would agree they should release the data? 5 A. I think all all research conducted is that all 6 published research data is typically open access and 7 should be publicly available. 8 Q. And you think the same of the data that they gathered 9 in this article, the Chen article? 10 MS. WILLIAMS: Objection. 11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 2 Q. Okay. The 2015 US Transgender Survey participant not representative of the actual transgender 4 population in the United States, right? 5 A. Sorry, say that again. 6 Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transgender 9 population in the United States, right? 5 A. Sorry, say that again. 6 Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transgender 9 population in the United States, right? 6 A. Sorry, say that again. 7 Population in the United States, right? 8 A. Sorry, say that again. 9 NS. WILLIAMS: Objection 10 A. I'm not sure that I would agree with that statement. 11 BY MR. MILLS: 12 Q. Okay. I'm going to show you what's marked as 13 Exhibit 35, which is the report of the 2015 US 14 Use 10 A. I'm not sure that I would agree with that statement. 15 MR. WILLIAMS: Objection. 16 Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transgender survey participant not representative of the actual transgender survey participant not representative of the actual transgender not representative of the actual transgender survey participant not representative of the actual transgender not representative of the actual transgender not representative of the actual transgender of the actual transgender survey participant not representative of the actual transgender s	1		1	Page 224
they that they shouldn't. Q. So you would agree they should release the data? A. I think all all research conducted is that all published research data is typically open access and should be publicly available. Q. And you think the same of the data that they gathered in this article, the Chen article? MS. WILLIAMS: Objection. A. I don't I don't know if there's a particular reason that someone would or would not, but yes. BY MR. MILLS: Q. I'm going to show you what I'm marking as Exhibit 34, which is an article you cited in your report by Turban and representative of the actual transgender population in the United States, right? A. Sorry, say that again. Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transgender population in the United States, right? A. Sorry, say that again. A. Sorry, say that again. Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transgender population in the United States, right? A. Sorry, say that again. A. Sorry say the solution in the United States, correct? B. W. Williams solution in the United States, or solut		•		•
4 Q. So you would agree they should release the data? 5 A. I think all all research conducted is that all 6 published research data is typically open access and 7 should be publicly available. 8 Q. And you think the same of the data that they gathered 9 in this article, the Chen article? 9 MS. WILLIAMS: Objection. 10 MS. WILLIAMS: Objection. 11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 4 population in the United States, right? 5 A. Sorry, say that again. 6 Q. Yeah. The 2015 US Transgender Survey participant not representative of the actual transgender population in the United States, correct? 9 MS. WILLIAMS: Objection. 10 A. I'm not sure that I would agree with that statement. 11 BY MR. MILLS: 12 Q. Okay. I'm going to show you what's marked as 13 Exhibit 35, which is the report of the 2015 US 14 Transgender study. 15 MARKED FOR IDENTIFICATION:				
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7should be publicly available.7not representative of the actual transgender8Q. And you think the same of the data that they gathered8population in the United States, correct?9in this article, the Chen article?9MS. WILLIAMS: Objection.10MS. WILLIAMS: Objection.10A. I'm not sure that I would agree with that statement.11A. I don't I don't know if there's a particular reason11BY MR. MILLS:12that someone would or would not, but yes.12Q. Okay. I'm going to show you what's marked as13Exhibit 35, which is the report of the 2015 US14Q. I'm going to show you what I'm marking as Exhibit 34,14transgender study.15MARKED FOR IDENTIFICATION:				
8 Q. And you think the same of the data that they gathered 9 in this article, the Chen article? 9 MS. WILLIAMS: Objection. 10 MS. WILLIAMS: Objection. 11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 8 population in the United States, correct? 9 MS. WILLIAMS: Objection. 10 A. I'm not sure that I would agree with that statement. 11 BY MR. MILLS: 12 Q. Okay. I'm going to show you what's marked as 13 Exhibit 35, which is the report of the 2015 US 14 MARKED FOR IDENTIFICATION:				
9 MS. WILLIAMS: Objection. 10 MS. WILLIAMS: Objection. 11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 9 MS. WILLIAMS: Objection. 10 A. I'm not sure that I would agree with that statement. 11 BY MR. MILLS: 12 Q. Okay. I'm going to show you what's marked as 13 Exhibit 35, which is the report of the 2015 US 14 transgender study. 15 MARKED FOR IDENTIFICATION:				-
10 MS. WILLIAMS: Objection. 11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 10 A. I'm not sure that I would agree with that statement. 11 BY MR. MILLS: 12 Q. Okay. I'm going to show you what's marked as 13 Exhibit 35, which is the report of the 2015 US 14 transgender study. 15 MARKED FOR IDENTIFICATION:				• •
11 A. I don't I don't know if there's a particular reason 12 that someone would or would not, but yes. 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 11 BY MR. MILLS: 12 Q. Okay. I'm going to show you what's marked as 13 Exhibit 35, which is the report of the 2015 US 14 transgender study. 15 MARKED FOR IDENTIFICATION:			l	-
that someone would or would not, but yes. 12 Q. Okay. I'm going to show you what's marked as 13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 12 Q. Okay. I'm going to show you what's marked as Exhibit 35, which is the report of the 2015 US transgender study. 15 MARKED FOR IDENTIFICATION:			l	_
13 BY MR. MILLS: 14 Q. I'm going to show you what I'm marking as Exhibit 34, 15 which is an article you cited in your report by Turban 13 Exhibit 35, which is the report of the 2015 US 14 transgender study. 15 MARKED FOR IDENTIFICATION:				
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which is an article you cited in your report by Turban 15 MARKED FOR IDENTIFICATION:				
				-
16 and others, "Access to gender-affirming hormones." 16 EXHIBIT 35	15		15	MARKED FOR IDENTIFICATION:
	16	and others, "Access to gender-affirming hormones."	16	EXHIBIT 35
17 MARKED FOR IDENTIFICATION: 17 4:18 p.m.	17	MARKED FOR IDENTIFICATION:	17	4:18 p.m.
18 EXHIBIT 34 18 BY MR. MILLS:	18	EXHIBIT 34	18	BY MR. MILLS:
19 4:15 p.m. 19 Q. And if we could go to page 26. It jumps around a bi	19	4:15 p.m.	19	Q. And if we could go to page 26. It jumps around a bit;
20 BY MR. MILLS: 20 it's very long.	20	BY MR. MILLS:	20	it's very long.
21 Q. You're familiar with this report? 21 So 26 just before outreach, the last two	21	Q. You're familiar with this report?	21	So 26 just before outreach, the last two
22 A. Yes. 22 sentences, "It is important to note that respondents	22	A. Yes.	22	sentences, "It is important to note that respondents
23 Q. And it used the 2015 US Transgender Survey as the 23 in this study were not randomly sampled and the actu	23	Q. And it used the 2015 US Transgender Survey as the	23	in this study were not randomly sampled and the actual
source of data, correct? 24 population characteristics of transgender people in	24	source of data, correct?	24	population characteristics of transgender people in
25 A. Yes. 25 the US are not known. Therefore, it is not	25	A. Yes.	25	the US are not known. Therefore, it is not
		=		Page 225
1 Q. And this was an online survey, correct? 1 appropriate to generalize the findings in this study	1			
2 A. Yes. 2 to all transgender people."	2		2	
3 Q. And the participants were drawn from the websites of 3 Do you agree with that statement?	3		3	Do you agree with that statement?
4 transgender advocacy organizations, correct? 4 A. Yes.	4		4	
	5	A. I'm not sure if that's how the websites are described,	5	Q. And it would necessarily exclude those people who no
6 but the recruitment is pretty well outlined in the US 6 longer identified as transgender, correct?	6	but the recruitment is pretty well outlined in the US	6	longer identified as transgender, correct?
7 Transgender Survey itself if we wanted to reference 7 A. It would because they wouldn't be responding to the	7	Transgender Survey itself if we wanted to reference	7	A. It would because they wouldn't be responding to the
8 it. 8 survey as they're not transgender.	8	it.	8	survey as they're not transgender.
9 Q. So if I were to say it said that the outreach involved 9 Q. And this survey was anonymous, right?	9	Q. So if I were to say it said that the outreach involved	9	Q. And this survey was anonymous, right?
developing lists of active transgender LGBTQ and 10 A. Yes.	10	developing lists of active transgender LGBTQ and	10	A. Yes.
allied organizations who served transgender people, 11 Q. So researchers would have no way of verifying the	11	allied organizations who served transgender people,	11	Q. So researchers would have no way of verifying the
does that sound correct? 12 self-reported survey responses, correct?	12	does that sound correct?	12	self-reported survey responses, correct?
13 A. Yes. 13 A. That's correct, just like many similar surveys that		A. Yes.	13	A. That's correct, just like many similar surveys that
			1	
	13		14	are used in research.
	13 14	Q. So page 3 of the Turban study under population		
	13 14 15	Q. So page 3 of the Turban study under population study population, this is near the end of the	15	Q. And individuals who died including by suicide cannot
	13 14 15 16	Q. So page 3 of the Turban study under population study population, this is near the end of the paragraph, "So this was assessed by choosing hormone	15 16	Q. And individuals who died including by suicide cannot fill out the survey?
	13 14 15 16 17	Q. So page 3 of the Turban study under population study population, this is near the end of the paragraph, "So this was assessed by choosing hormone therapy in response to the question, "Have you ever	15 16 17	Q. And individuals who died including by suicide cannot fill out the survey?A. Individuals who died prior to the survey being
	13 14 15 16 17 18	Q. So page 3 of the Turban study under population study population, this is near the end of the paragraph, "So this was assessed by choosing hormone therapy in response to the question, "Have you ever wanted any of the healthcare listed for your gender	15 16 17 18	Q. And individuals who died including by suicide cannot fill out the survey?A. Individuals who died prior to the survey being available? That's correct.
treatment, HRT, puberty blocking hormones, and none of 21 period, yes.	13 14 15 16 17	Q. So page 3 of the Turban study under population study population, this is near the end of the paragraph, "So this was assessed by choosing hormone therapy in response to the question, "Have you ever	15 16 17	Q. And individuals who died including by suicide cannot fill out the survey?A. Individuals who died prior to the survey being

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22 Q. If you could flip to page 126 of this transgender

survey footnote 12, the second sentence, "While

puberty blocking medications are usually used to delay

physical changes associated with puberty in youth ages

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23

24

	Page 226		Page 228
1	4 to 16 prior to beginning hormonal replacement	1	are referring to when they're saying puberty
2	therapy"	2	blockers. So do I think that all of the patients that
3	A. Sorry, where are we?	3	answered a question about puberty blockers actually
4	Q. Footnote 12 the second sentence.	4	received GnRH agonists? No, I think that's a lower
5	MS. WILLIAMS: And I believe it's 9 to 16.	5	percentage.
6	You said 4 to 16.	6	Q. So using this survey to answer questions about GnRH
7	MR. MILLS: I'm losing my eyesight.	7	agonists poses a significant risk of bias because of
8	BY MR. MILLS:	8	this misunderstanding about puberty blockers?
9	Q. "While puberty blocking medications are usually used	9	MR. MILLS: Objection.
10	to delay physical changes associated with puberty in	10	A. I think that when you're when you're interpreting
11	youth ages 9 to 16, prior to beginning hormone	11	any study, you know, you have to understand what the
12	replacement therapy, a large majority, 73 percent, of	12	survey is asking and what the question being asked is.
13	respondents who reported having taken puberty blockers	13	So when the when there's when the US Transgender
14	in question, 12.9 reported doing so after age 18, in	14	Survey is answering questions about access to
15	question 12.11."	15	gender-affirming care in early adolescence, that in
16	After age 18 is not when puberty blockers	16	comparing people that didn't have access to that care
17	are typically prescribed; is that right?	17	and showing a difference that's helpful information to
18	A. I think it depends on what you mean by puberty	18	understand what access to that care may do for
19	blockers. We've been using this word kind of loosely.	19	someone's future health.
20	So, you know, if the word puberty blockers	20	BY MR. MILLS:
21	is the word that's used in the survey question, you	21	Q. To your knowledge, the survey did not ask whether the
22	know, I think it's worth pointing out that GnRH	22	participant had gender dysphoria, correct?
23	agonists are the name of the medication that we're	23	A. Not to my knowledge.
24	talking about when when talking about treatment at	24	Q. So nothing in this survey tracks whether the kids who
25	Tanner stage 2, but other folks may consider other	25	wanted puberty blockers or cross-sex hormones had
1	Page 227 medications such as antiandrogens to be puberty	1	Page 229 gender dysphoria, right?
2	blockers, so that's a little bit hard to answer.	2	A. There's not any there's a retrospective study, so
3	Q. GnRH agonists are not typically prescribed after age	3	there's no tracking of anything. It's a survey
4	18, correct?	4	answered at one moment in time.
5	A. Not as typically. I think that some trans women are	5	Q. But you would only prescribe puberty blockers or
6	now being prescribed GnRH agonists if they're having	6	hormones for gender transition to someone with gender
7	trouble with testosterone suppression on estrogen, but	7	
			dysphoria, correct?
8	more commonly it's used in early adolescence.	8	A. Yes.
9	Q. So you said you treat people through age 21, 22 and	9	Q. So going back to the Turban article on page 12, and
10	you're familiar with other clinics.	10	again this is Exhibit 34, under "Strengths and
11	In that age range above age 18, what	11	Limitations" on page 12, the third sentence says,
12	percentage of your patients would you say are on	12	"Limitations include its non-probability
13	puberty blockers using either definition of puberty	13	cross-sectional design which produces generalizability
14	blockers, so including both GnRH agonists and the	14	and limits determination of causality."
15	androgen intercepters?	15	So this study cannot determine causality,
16	A. So for trans women older than 18, probably for	16	right?
17	including both of those, 85 percent, because the	17	A. That's correct.
18	majority of patients are on spirolactone and estrogen	18	Q. The next sentence is, "It is possible that people with
19	as an antiandrogen. For trans masculine individuals,	19	better mental health status at baseline are more
20	a much lower percentage, maybe 20 percent, as	20	likely to be able to access GAH, thus confounding
21	testosterone itself is typically sufficient.	21	associations between GAH access and adult mental
22	Q. So are you surprised that this survey found 73 percent	22	health outcomes measured."
23	of respondents report having taken puberty blockers	23	You agree with that statement?
24	after age 18?	24	A. Sorry, I'm trying to find the sentence just to read it
	A A in Tabinh is table all about only a matients on	25	-1

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25

along with you.

25 A. Again, I think it -- it's all about what patients are

	Page 230		Page 232
1	Q. Yeah, it's	1	A. Yes.
2	A. "It is possible"?	2	Q. And is that one reason why you delay cross-sex
3	Q. Yeah, "it is possible."	3	hormones?
4	A. I agree that it is possible.	4	A. Yes.
5	Q. Okay. And then the next sentence says, "Nonetheless,	5	Q. I'm going to show you a short clip from your
6	this measure isn't perfect for investigating mental	6	presentation with Dr. Selkie.
7	health changes following GAH, and future longitudinal	7	MARKED FOR IDENTIFICATION:
8	studies are needed."	8	EXHIBIT 36
9	Do you agree with that statement?	9	4:31 p.m.
10	A. I agree that it's imperfect. I think just to point	10	(Video plays.)
11	out that between all of the sentences I read were	11	BY MR. MILLS:
12	were the strengths in this strengths and limitations	12	Q. So do you agree with the Dutch researchers that 10 to
13		13	
14	section that addressed some of those things that we that we've discussed.	14	11 is not the ideal age to be making decisions about medical transition?
15	Q. Toward the bottom, the second to last sentence says,	15	A. Did the Dutch say that in something you're reading?
16	"The 2015 US TS sample is younger with fewer racial	16	Q. Well, that's just how you characterized them in the
17	minorities, fewer heterosexual participants, and	17	video.
18	higher educational attainment when compared with	18	A. Oh.
19	probability samples of TGD people in the United	19	Q. But I guess I should just say, do you think that 10 to
20	States."	20	11 is the ideal age to be making decisions about
21	Do you agree with that statement?	21	medical transition?
22	A. Yes.	22	A. Not permanent transition which is why we think the
23	Q. And this bias would affect all studies that use this	23	the leadup to that was the leadup to me explaining
24	survey; is that right?	24	why we use GnRH agonists instead of using
25	A. This that's right. When examining data from the US	25	gender-affirming hormones at the start of puberty.
	Page 231		Page 233
1	Transgender Survey, it's important to understand what	1	Q. In fact, the Dutch protocol didn't allow even the use
2	the population is surveying, how that population	2	of puberty blockers until the age of 12; is that
3	who is in that population, and then ask yourself is	3	right?
4	that population a relevant population to the clinical	4	A. In their first cohort of patients that's what they
5	question that you have.	5	did, yes.
6	Q. If we could go back to Exhibit 4, which is your	6	Q. Do you think 10- to 11-year-olds can weigh the long-
7	article "Serving Transgender Youth." This is on page	7	term fertility risks associated with medical gender
8	8 of that article, and I'm in the second full	8	transition?
9	paragraph on page 8 the second sentence.	9	A. I think that it's possible to talk about fertility in
10	It says, "In general, adolescence is marked	10	an age appropriate way with a 10-year-old, but there's
11	by a search for identity and personal transformation	11	not but there's certainly the the ability to
12	and at times impetuous decisionmaking."	12	to discuss complex topics like fertility changes and
		I	avaluas avantima as a shild asta alden and museussas
13	Do you still agree with that statement?	13	evolves over time as a child gets older and progresses
	Do you still agree with that statement? A. Yes.	13 14	through adolescence.
13			
13 14	A. Yes.	14	through adolescence.
13 14 15	A. Yes.Q. Flipping back to page 6, toward the very last sentence	14 15	through adolescence. Q. So you would agree that a 19-year-old would have a
13 14 15 16	A. Yes.Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom	14 15 16	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility
13 14 15 16 17	 A. Yes. Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom of page 5, "In our view, it is often unrealistic to expect an adolescent to sort through the myriad of 	14 15 16 17	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility issues than 10- to 11-year-old? A. On average, a 19-year-old would certainly be able to
13 14 15 16 17 18 19	 A. Yes. Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom of page 5, "In our view, it is often unrealistic to expect an adolescent to sort through the myriad of issues related to gender variance without the help of 	14 15 16 17 18 19	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility issues than 10- to 11-year-old? A. On average, a 19-year-old would certainly be able to discuss fertility in a more complex way than a
13 14 15 16 17 18 19 20	 A. Yes. Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom of page 5, "In our view, it is often unrealistic to expect an adolescent to sort through the myriad of issues related to gender variance without the help of a professional." 	14 15 16 17 18 19 20	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility issues than 10- to 11-year-old? A. On average, a 19-year-old would certainly be able to discuss fertility in a more complex way than a 10-year-old would.
13 14 15 16 17 18 19 20 21	A. Yes. Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom of page 5, "In our view, it is often unrealistic to expect an adolescent to sort through the myriad of issues related to gender variance without the help of a professional." Do you still agree with that statement?	14 15 16 17 18 19 20 21	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility issues than 10- to 11-year-old? A. On average, a 19-year-old would certainly be able to discuss fertility in a more complex way than a 10-year-old would. Q. To go back to sorry. That video we can note is
13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom of page 5, "In our view, it is often unrealistic to expect an adolescent to sort through the myriad of issues related to gender variance without the help of a professional." Do you still agree with that statement? A. Yes. 	14 15 16 17 18 19 20 21 22	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility issues than 10- to 11-year-old? A. On average, a 19-year-old would certainly be able to discuss fertility in a more complex way than a 10-year-old would. Q. To go back to sorry. That video we can note is Exhibit 35 just so we don't get out of order here.
13 14 15 16 17 18 19 20 21	A. Yes. Q. Flipping back to page 6, toward the very last sentence on page 5 over to page 6 sorry. On the very bottom of page 5, "In our view, it is often unrealistic to expect an adolescent to sort through the myriad of issues related to gender variance without the help of a professional." Do you still agree with that statement?	14 15 16 17 18 19 20 21	through adolescence. Q. So you would agree that a 19-year-old would have a better capability to understand or discuss fertility issues than 10- to 11-year-old? A. On average, a 19-year-old would certainly be able to discuss fertility in a more complex way than a 10-year-old would. Q. To go back to sorry. That video we can note is

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MS. WILLIAMS: I think that was 36.

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25

25

complex topics like gender identity?

	Page 234		Page 236
1	MR. MILLS: Was it? Okay, sorry.	1	A. Correct.
2	A. Yeah, 35 is the US	2	Q. And you think others should not as well?
3	BY MR. MILLS:	3	A. I I'm a pretty strong advocate for, you know,
4	Q. Oh, 35 is the US Transgender Survey, got it.	4	parental involvement in healthcare decisionmaking when
5	A. So going back to 1?	5	it comes to gender-affirming care, especially in light
6	Q. Yes, No. 1. This is on page 14. This is the first	6	of the fact that I think oftentimes a child that is
7	full paragraph sentence number 3 on page 14.	7	engaging in transition without consent of their
8	MS. WILLIAMS: Is that the third, "in our	8	parents may be unsafe, and if they're financially or
9	experience"?	9	emotionally supported by that parent, that, you know,
10	MR. MILLS: That's right, "in our	10	as we've been talking about generalizability this
11	experience."	11	whole time, as you've mentioned the Dutch study and
12	MS. WILLIAMS: Are you there?	12	other similar studies involved patients that have
13	A. Okay.	13	psychosocial support, so the literature would support
14	BY MR. MILLS:	14	that notion that these interventions are helpful in
15	Q. "In our experience, many adolescent patients, even	15	that context, so I do believe that parental consent is
16	those who are not transgender, are often reticent to	16	important and would suggest it be obtained when
17	discuss their future fertility. A conversation can be	17	considering initiating gender-affirming care.
18	more complex in transgender adolescents who may have	18	Q. If a parent did not consent to insulin for their type
19	some desire to accomplish biologic" sorry "some	19	1 diabetic children child, would you prescribe it
20	desire to have biologic children, but who bristle at	20	anyway?
21	the idea of using their own anatomy to accomplish	21	A. Yes.
22	this."	22	Q. And why why the difference?
23	Does that still describe your experience?	23	A. Well, I feel like I answered this question before, but
24	A. Yes.	24	it is a little maybe it's a little bit of a
25	Q. If we could go back to Exhibit 8, which was one of	25	different question.
	Page 235		Page 237
1	your book chapters, the one in Transgender Medicine,	1	I think again, you know, insulin is pretty
2	and look at page 178. And this is the second sentence	2	clear. If you have type 1 diabetes, your body doesn't
3	on page 178 at the top.	3	make insulin and you need insulin to live, so there's
4	"Transgender youth, especially those	4	a clear no insulin and you die, insulin and you live.
5	presenting prior to or around the onset of puberty,	5	Whereas, the the decision around gender-affirming
6	are seldom concerned about the impact of medical	6	care there's a lot more nuanced and involves the
7	interventions on fertility and often even less	7	details related to the patient's experience with their
8	interested in discussing this topic. This ambivalence	8	gender, patient and family values, discussion of risks
9	is likely age appropriate shared by their cisgender	9	and benefits, decisionmaking that is shared amongst
10	peers and may not predict their future feelings."	10	the clinician and the patient and the parent, and so
11	Do you still agree with that statement?	11	they're very different conditions with very different
12	A. I do. I think I think that the topic of fertility	12	treatments, and so my answer is different for those

A. I do. I think -- I think that the topic of fertility 12 13 is a tricky one and requires a lot of careful 14 discussion, so I think in all of these passages that 15 we're reading, at least the ones that I wrote, my 16 intention is to express that complexity. 17 Q. Should medical gender transitions ever be prescribed 18 when a parent or guardian does not consent? 19 A. Sorry, could you say that one more time? 20 Q. Sure. Should medical gender transition interventions 21 ever be prescribed when a parent or guardian does not 22 consent? 23 A. I do not believe so. 24 Q. You've never prescribed puberty blockers or cross-sex 25

hormones absent a parental consent?

treatments, and so my answer is different for those 12 13 two -- for those two different conditions. 14 Q. I'd like to show you the de Vries 2014 study that 15 we've talked about a couple of times. You're familiar 16 with that study? A. I guess I have to see it first to know which one 17 18 you're talking about. 19 Q. Sure. There are several. This is the 2014 study that 20 earlier we talked about because study path described 21 it as the only long-term follow-up study --22 A. Okay. 23 -- through young adulthood. So this is that study, 24 correct? 25 A. Yes.

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	Page 238		Page 24(
1	Q. And we talked about this earlier. The mean age of	1	multidisciplinary model of care like the one like
2	adult follow-up was 20.7 years old; is that right?	2	the care that we've been talking about, then it seems
3	A. Yes.	3	like you wouldn't be following standard of care,
4	Q. To your knowledge, is the brain still developing at	4	perhaps, and may not be generalizable, but also
5	age 27 years old?	5	wouldn't be recommended.
6	A. Yes.	6	Q. Even this sentence, though, "Brought to care in early
7	Q. Would you be interested to know what follow-up looks	7	adolescence," I think you testified earlier that most
8	like past age 20.7?	8	of your patients do not present in early adolescence;
9	A. Yes.	9	is that right?
10	Q. Could that affect your treatment decisions?	10	A. That's right. The patients that present to care in
11	A. Certainly if all of these patients are doing very	11	our clinic are more are better represented in
12	poorly now compared to the general population, that	12	studies like the Chen study.
13	would be surprising, and I would like to it would	13	Q. So the Dutch patient population you would say is
14	be interesting to know that. It's not what I would	14	different from your patient population?
15	expect, but to answer your question, yes.	15	A. In that way, yes.
16	Q. All right. I'd like to show you another paper you	16	Q. This Dutch study, and we can look at the method
17	wrote that talked about this study. This is	17	section on page 697, "Participants include 55 young
18	Exhibit 38.	18	adults." So you would agree the sample size is 55?
19	MARKED FOR IDENTIFICATION:	19	A. Yes.
20	EXHIBIT 38	20	Q. And there was no controlled group here who did not
21	4:41 p.m.	21	receive medical interventions; is that right?
22	BY MR. MILLS:	22	A. Well, they are comparing the mental health and quality
23	Q. This was an article you coauthored with Dr. Spack	23	of life outcomes, I believe, to the general
24	entitled "Transgender medicine long-term outcomes from	24	population, so it's a pseudo control group in that
25	the Dutch model."	25	
		23	way.
1	Page 239 On page 2 discussing this study, the second	1	Page 241 Q. But the general population would not be those
2	full paragraph on page 2 it starts by saying, "It	2	adolescents with some gender incongruence?
3	should be noted that the patients described were well		A. That's correct. There's not a control group of
	-	3	· .
4	supported, brought to care in early adolescence, and	4	patients with gender incongruence that are not
5	cared for as part of a carefully structured	5	receiving treatment.
6	multidisciplinary care team in a small supportive	6	Q. Okay. And then it says a little ways down in this
7	country. Generalizing the Dutch clinics success to	7	third column, "The young adults were invited between
8	clinics in other settings might be problematic."	8	2008 and 2012 when they were at least one year past
9	Do you still agree with that statement?	9	their GRS," which I believe is the gender reassignment
10	A. Well, I think we have to remember that when this was	10	surgery; is that your understanding?
11	written, Dr. Spack had developed the clinic at Boston	11	A. Yes.
12	Children's Hospital modeled after the Dutch clinic and	12	Q. So the whole sample size of 55 had also received
13	so, therefore, was trying to replicate as closely as	13	surgeries, correct?
14	possible the the Dutch clinic because of this point	14	A. At the end time point, yes.
15	that we're making in this article, and and since	15	Q. And then it lists further down a couple sentences
16	2015, similar clinics around the country are similarly	16	later, "Nonparticipation was attributed to," and then
17	modeled. So, yes, it's something that should be	17	several things, the last one of which, "One trans
18	considered, but also the reason why the care is	18	female died after her vaginoplasty owing to a
19	provided the way it is.	19	postsurgical necrotizing"
20	Q. So you would still say that generalizing the Dutch	20	A. Fascitis.
21	clinic's success to clinics that may use other models	21	Q "fascitis."
41	might be problematic?	22	So that would be over 1 percent of the 55
22			-
	A. Like, is there another model that you're that	23	participants died due to gender-affirming
22	A. Like, is there another model that you're that you're thinking of? I think most care in the US is	23 24	participants died due to gender-affirming interventions?

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ı		Page 242	
	1	Q. And then it says, "Nonparticipation was N equals 15	
	2	out of the 55 who did," and there were 55 who did	
	3	participate, so over 20 percent of the participants	
	4	dropped out during the study; is that right?	
	5	A. Well, it says here 15 were not one year postsurgical	
	6	so they didn't meet that criteria.	
	7	Q. Mm-hmm.	
	8	A. So there's six okay, so, sorry, let me try to	
	9	answer your question again. What was your question?	
	10	Q. So of these	
	11	A. So they break it down	
	12	Q. Right. There were 70 people, but 15 of the 70 did not	
	13	participate because of these various factors; is that	
	14	right?	
	15	A. They weren't included in the	
	16	Q. Analysis.	
	17	A analysis, yes.	
	18	Q. This this death from the after the vaginoplasty,	
	19	are you aware that the death was of consequence of	
	20	puberty suppression?	
	21	A. I don't I don't have information to confirm or deny	
	22	that.	
	23	Q. So you don't know if that death was because the	
	24	patient's penis was too small for the regular	
I	25	vaginoplasty and so surgery had to be attempted with a	
I			
			_
		Page 243	
	1	Page 243 portion of the intestine?	
		Page 243	
	1	Page 243 portion of the intestine?	
	1 2	Page 243 portion of the intestine? MS. WILLIAMS: Objection.	
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Q. And all the subjects were getting psychological

counseling during the same time as these medical

24 25 1 interventions?

2 A. Yes.

Page 242

3 Q. And the bottom of page 697 here, "Participants" --

Page 244

Page 245

4 this is the final paragraph, "Participants were

assessed three times posttreatment, during treatment

at initiation of cross-sex hormones, and posttreatment

7 one year after gender reassignment surgery."

8 So this study provides no evidence about 9

the long-term outcomes of puberty blockers and 10 cross-sex hormones without surgeries, correct?

11 A. Correct. The patients in this study that are included

12 in the final analysis all had surgery. 13 Q. So flipping over to page 699, the top, that first line

in Table 2 UGDS, that's a gender dysphoria scale; is 14

15 that right?

16 A. Yes.

19

1

2

9

17 Q. And from T0 which was at intake to T1 which was while

18 on puberty supervision, gender dysphoria increased

from 53.51 to 54.39; is that right?

A. The mean number is higher. I don't think that they're

21 reporting that to be a statistically significant

22 difference.

23 Q. They don't report that to be a statistically 24

insignificant difference, though, do they?

A. I do believe they do because the standard deviation

overlaps, so that is a -- is not a -- is not

statistically different.

3 Q. And is that what a p-test measures?

A. Yes. The p-test is telling us that from T0 to T2

5 there is a statistically significant difference.

6 There's not a p-value reported for T0 to T1, that's

7 right.

Q. So you don't know whether that p-value would be

statistically significant?

10 A. Well, it's true that I don't know what the p-value is,

11 but if you just look at the numbers, the mean of 53

12 with a standard deviation of 8, and the mean of 54

13 with a standard deviation of 7, so that means that

14 those bell-shaped curves would overlap almost

15 completely, and so I am quite confident that those are 16 not statistically significant.

17 There's not a statistical significant

18 decrease in -- or statistically significant increase 19 in the score from T0 to T1 without pulling out a

20 calculator.

Q. And without a p-value or a calculator, you wouldn't 21 22

know whether that would be statistically significant?

23 A. I just explained why it's -- why it isn't.

24 Q. But putting that aside, the mean for gender dysphoria 25 worsened from T0 to T1; is that right?

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Page 248 Page 246 1 1 MS. WILLIAMS: Objection. Do you think that sample is representative 2 2 A. Well, when you're saying worsened, you're implying of the patients that are presenting to your clinic? 3 that there's a meaningful difference in the numbers, 3 A. Certainly a percentage of patients that I see are well 4 and if it's not statistically significant, then --4 described by those -- those descriptions, and then 5 5 then I don't -- then it wouldn't be an accurate others are struggling more than the -- the patients 6 statement. 6 described in this -- in this study. 7 7 So, yes, I don't have a p-value to share Q. So I guess I'm asking, you know, are you experiencing 8 8 patients with these -- who are coming in with these with you on those means in standard deviations. Yes, 9 I believe that they are -- that the T1 is not 9 same high levels of positive objective well-being? 10 statistically significantly higher than T0. So, no, I 10 A. So I think I'm answering your question when I say 11 wouldn't make an assertion about the difference 11 that, yes, some patients are very similar to this 12 between those numbers 53.51 and 54.39. 12 group of patients and then others are not. 13 Q. The Dutch protocol excluded those with significant 13 Q. So percentages are you experiencing those type -- the 14 psychological comorbidities, correct? 14 types of patients with high objective well-being to 15 15 A. It sounds right. If we wanted to find the place in the same high percentages as the Dutch protocol 16 16 the methods section where they talk about their participants were? 17 inclusion criteria, I can confirm the wording on that. 17 A. Perhaps slightly lower percentages, although, again, 18 O. That's okay. Page 702 the bottom of the first column 18 there is still a bias in terms of who is presenting to 19 of text, the last sentence in the first column of 702 19 gender care because the -- there needs to be some 20 20 says, "These individuals of whom" -- sorry, I'll wait degree of support from family to bring patients to 21 21 until you get there. 22 A. 702. 22 Q. I'm going to show you the 2020 article de Vries wrote, 23 23 which I'll mark as Exhibit 39. Q. Yeah. "These individuals of whom an even higher 24 percentage than the general population were pursuing 24 MARKED FOR IDENTIFICATION: 25 higher education seemed different from the transgender 25 **EXHIBIT 39** Page 247 Page 249 1 youth in community samples with high rates of mental 1 4:57 p.m. 2 BY MR. MILLS: health disorders, suicidality and self-harming 3 3 Q. This is "Challenges in timing puberty suppression for behavior, and poor access to health services." 4 Do you agree that -- that the latter 4 gender nonconforming adolescents." 5 5 Are you familiar with this article? I community would describe your typical patient 6 population -- sorry, I'll phrase it a different way. 6 believe it's cited in your report. 7 7 Does your patient population look more like A. Yes. 8 the individuals in the Dutch protocol or what the 8 Q. All right. So in the middle of the second column, the 9 authors describe as the transgender youth in community 9 second to last sentence in that first paragraph, "This 10 10 samples? older adolescent group did not only have more mental 11 A. Probably somewhere in between because I still think 11 health difficulties, but also at a later age of onset 12 there's a bias towards people with better access to 12 of gender incongruents." 13 A. I'm sorry, I didn't pick up where you started. This healthcare that are going to receive care at pediatric 14 gender clinics, and the most -- most high risk 14 is the second column --15 15 patients with the least access to mental healthcare, Q. Second column right under -- right past footnote 4. 16 A. Okay, I'm there. Thank you. patients living in poverty, or without any parental 16 17 17 Q. So she's -- describe -support, are not being included in the patient 18 population that I see. 18 A. Could you just read it again and ask me the question 19 Q. So page 700 in the middle it says, "The participants 19 again? I'm sorry. 20 20 were, other than more likely to be pursuing higher Q. Yep, yep, sure. She's describing another study that 21 21 education, families were supportive 80 to 90 percent." was written in Pediatrics by Sorbara, et al --22 22 The next paragraph. "Many participants reported A. Okay. 23

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Q. -- and she's comparing them to the Dutch study. So

she says, "Interestingly, this older adolescent group

did not only have more mental health difficulties, but

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having never or seldom been called names or harassed.

The majority had experienced sexual transitioning as

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easy."

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Q. So the bottom of page 2 the first column of the same

1	also a later age of onset of gender incongruents."	1	2020 note we're reading says, "Systematic studies on
2	A. Okay.	2	the rate of adolescents who discontinued their
3	Q. And then skipping to just past footnote 5 on the same	3	transitions after they have started gender-affirming
4	column she says, "Authors of case histories and	4	hormones or surgeries with lasting effects are lacking
5	apparent report study warned that gender identity	5	at present."
6	development is diverse and a new developmental pathway	6	Do you agree that there's a lack of
7	is proposed involving youth with postpuberty	7	systematic evidence about how many adolescent
8	adolescent onset transgender histories.	8	presenting patients de-transition?
9	"These youths did not yet participate in	9	A. I I think that there is a I don't have the
10	the early evaluation studies. This raises the	10	citation, but there is a recent article outlining
11	question whether the positive outcomes of early	11	long-term continuation or non-continuation of hormones
12	medical intervention also applied to adolescents who	12	in in adolescents who've started gender gender
13	more recently present in overwhelming large numbers	13	care, but I don't disagree that more systematic
14	for transgender care."	14	follow-up is an important question to continue to
15	You would agree that the author of this is	15	study.
16	the same as one of the authors of the 2014 study we	16	MR. MILLS: All right. I think we're
17	were just talking about?	17	almost through. Can we just take a five-minute break?
18	A. Yes.	18	Would that work for everyone?
19	Q. And she identifies what she calls "new developmental	19	(Recess taken at 5:03 p.m.)
20	pathway."	20	(On the record at 5:09 p.m.)
21	Are most of your patients aligned with this	21	BY MR. MILLS:
22	new developmental pathway involving youth with	22	Q. So I'd like to flip back to the Standards of Care 8,
23	postpuberty adolescent onset transgender histories?	23	if we could, which was Exhibit 26, and I'm looking at
24	A. So I think that there's a lot of variability in the	24	page S51. Yep, you're good.
25	types of patients that we're seeing. There are	25	A. Okay. S51?
25	types of patients that we're seeing. There are	25	A. Okay. S51?
	Page 251		Page 253
1	Page 251 patients that have seemingly later onset of gender	1	Page 253 Q. That's right, S51.
1 2	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper.	1 2	Page 253 Q. That's right, S51. A. Okay.
1 2 3	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of	1 2 3	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of
1 2 3 4	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later	1 2 3 4	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51.
1 2 3 4 5	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that	1 2 3 4 5	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay.
1 2 3 4 5 6	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the	1 2 3 4 5 6	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here?
1 2 3 4 5 6 7	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of	1 2 3 4 5 6 7	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep.
1 2 3 4 5 6 7 8	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the	1 2 3 4 5 6 7 8	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no
1 2 3 4 5 6 7 8 9	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article.	1 2 3 4 5 6 7 8 9	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related
1 2 3 4 5 6 7 8 9	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the	1 2 3 4 5 6 7 8 9	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a
1 2 3 4 5 6 7 8 9 10	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014	1 2 3 4 5 6 7 8 9 10	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context,
1 2 3 4 5 6 7 8 9 10 11 12	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently	1 2 3 4 5 6 7 8 9 10 11 12	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical
1 2 3 4 5 6 7 8 9 10 11 12 13	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care?	1 2 3 4 5 6 7 8 9 10 11 12 13	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be	1 2 3 4 5 6 7 8 9 10 11 12 13	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time."
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other studies examining older adolescents and even adults	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time." Do you agree with that statement?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other studies examining older adolescents and even adults are can be impactful in understanding how later	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time." Do you agree with that statement? A. Yes.
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other studies examining older adolescents and even adults are can be impactful in understanding how later presenting patients may or may not benefit from	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time." Do you agree with that statement? A. Yes. Q. So a provider who prescribes medical gender transition
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other studies examining older adolescents and even adults are can be impactful in understanding how later presenting patients may or may not benefit from treatment.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time." Do you agree with that statement? A. Yes. Q. So a provider who prescribes medical gender transition interventions for an adolescent who's never had any
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other studies examining older adolescents and even adults are can be impactful in understanding how later presenting patients may or may not benefit from treatment. Q. But you aren't aware of a similar long-term outcome	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time." Do you agree with that statement? A. Yes. Q. So a provider who prescribes medical gender transition interventions for an adolescent who's never had any mental health evaluation for gender dysphoria, would
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 251 patients that have seemingly later onset of gender dysphoria than are described in the Dutch paper. There's other patients that had earlier onset of gender dysphoria, but are presenting to care in later adolescence, and then, of course, some patients that are very similar to the patients described in the Dutch article. So on the whole, the average age of presentation is older than the age described in the original Dutch article. Q. And would you agree with her that this raises the question whether the positive outcome seen in the 2014 study also applied to adolescents who were recently present in overwhelming large numbers for care? A. I think that that study by itself, you know, would be would be best at answering questions related to the younger presenting cohort, and then, you know, other studies examining older adolescents and even adults are can be impactful in understanding how later presenting patients may or may not benefit from treatment.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 253 Q. That's right, S51. A. Okay. Q. So the first full paragraph, the last two sentences of that first full paragraph in the first column on S51. A. Okay. Q. See it here? A. Yep. Q. It starts, "There are no studies There are no studies of the long-term outcomes of gender-related medical treatments for youth who have not undergone a comprehensive assessment. Treatment of this context, e.g. with limited or no assessment, has no empirical support and, therefore, carries the risk that the decision to start gender-affirming medical interventions may not be in the long term best interests of the young person at that time." Do you agree with that statement? A. Yes. Q. So a provider who prescribes medical gender transition interventions for an adolescent who's never had any

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to be careful that that doesn't necessarily mean that

it has to be a certain type of health professional.

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	Page 254
1	A comprehensive assessment must be
2	performed, in our clinic it is a mental health
3	professional. In most pediatric gender clinics it is,
4	but it needs to be someone that's competent in doing a
5	psychosocial assessment and diagnosing gender
6	dysphoria.
7	Q. So you think someone can receive medical gender
8	transition interventions consistently with WPATH who's
9	never had a mental health evaluation for gender
10	dysphoria?
11	MS. WILLIAMS: Objection.
12	A. So I I think in my mind comprehensive assessment is
13	a mental health assessment, so but I just wanted to
14	be clear on the words in WPATH, that they use the word
15	comprehensive assessment. I agree that a mental
16	health assessment is important.
17	BY MR. MILLS:
18	Q. Okay. I'd like to show you what I'm marking as
19	Exhibit 40, which is an article in the Los Angeles
20	Times entitled, "This abortion doctor is not ready to
21	leave Alabama."
22	MARKED FOR IDENTIFICATION:
23	EXHIBIT 40
24	5:13 p.m.
25	BY MR. MILLS:

Page 256 1 A. I don't think I can take two sentences from a quote 2 and make that determination. 3 Q. All right. So two paragraphs above what we just read, 4 "Torres does not believe adolescents seeking hormones 5 require mental health evaluations. "No, I don't need 6 a psychologist or psychiatrist to evaluate someone 7 who's telling me this is how I felt for years," she 8 said. "I know that how they felt for years is not 9 pathological."" 10 In your view, is Dr. Torres providing care 11 in accord with WPATH Standards of Care 8? 12 MS. WILLIAMS: Objection. 13 A. So I want to just pick apart these two sentences 14 before I answer. 15 So a psychologist or psychiatrist is not 16 necessarily required to be the person that does the 17 mental health evaluation, and that her comment that 18 how someone's feeling, their gender identity is not 19 pathological, I would agree with. Q. Even though it's a DSM-5 diagnosis? 21 A. Gender dysphoria is -- is a DSM diagnosis, but a 22 difference in gender identity is not. So the author 23 wrote Torres does not believe adolescents seeking 24 hormones require mental health evaluation, but that's 25

Q. Have you read this article? 1 2 A. No. 3 Q. So on page 1 it's dated April 2023. You can see in 4 the first two paragraphs of the article it discusses a 5 Dr. Leah Torres, a 43-year-old OB-GYN. 6 To your knowledge, Dr. Torres is not an 7 endocrinologist, correct? A. Correct, not to my knowledge. 9 Q. Or a pediatrician, to your knowledge? 10 A. No. I don't know her. I had nothing -- no 11 information other than what's here in the article. 12 Q. Sure. And so you don't know if she has any mental health training? 13 14 A. I don't know. 15 Q. So page 10 of the article in the middle -- actually 16 toward the bottom, the third to last paragraph on page 17 10, "When meeting trans patients, Torres is upfront 18 that she has been practicing such care for only a 19 year. Full disclosure she tells them this area of 20 medicine is pretty new to me. She also points out

that this is a relatively experimental area of

Just from that description, does that --

qualified to practice pediatric gender medicine?

does that sound like someone you would consider to be

medicine without a lot of data."

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not her quote. And so I don't know what evaluation Page 257 Dr. Torres would perform in determining whether someone has unmet mental health needs, but I wouldn't be able to assess that just from these lines in this article. Q. It doesn't sound like Dr. Torres is performing gender medicine in the context of a multidisciplinary clinic, does it? MS. WILLIAMS: Objection. A. I would have a hard time answering that question without more context. BY MR. MILLS: Q. Assuming she's the only provider that talks to a patient, is she performing in the context of multidisciplinary care? A. No. Q. So she's not performing in accord with WPATH Standards of Care 8, correct? MS. WILLIAMS: Objection. A. Well, I don't know how she's actually performing. I

-- that second question is unrelated to the previous

prescribes youth cross-sex hormones on their first

visit, including a visit via telehealth, regardless of

Q. So the article goes on to say that Dr. Torres

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one.

BY MR. MILLS:

1 A. What? Say that again.

whether they had a mental health evaluation.

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medicine?

anything about Dr. Torres's practice of gender

1	whether they had a mental health evaluation.	1	A. what? Say that again.
2	Would you do that in your clinic?	2	Q. Can WPATH do anything to stop Dr. Torres from using
3	A. Can you direct me to where that's stated?	3	her current approach to gender medicine?
4	Q. If you could just answer the question. We don't need	4	A. I don't know what her current approach is exactly, but
5	to look at the article again.	5	WPATH can't tell anyone what to do.
6	A. Well, I guess it would be important to know is she	6	Q. And neither can the Endocrine Society?
7	talking about an adolescent or an adult. I certainly	7	A. No.
8	have prescribed hormone interventions to patients on a	8	Q. Should adolescents be able to receive gender-affirming
9	first visit, and prescribing on a first visit with the	9	surgeries?
10	doctor or performing telehealth visits would not be	10	A. I think that there's some adolescents that benefit
	outside of the standard of care, so.		
11		11	from masculinizing chest surgery, but I don't advise
12	Q. So the next paragraph, the last paragraph on page 10,	12	genital surgeries in patients under 18.
13	"One transgender patient Torres recently started	13	Q. Are you aware that Standards of Care 8 now permit
14	seeing through telehealth was referred to her because	14	surgeries under age 18, including the bottom surgeries
15	the teen's pediatrician and staff at a psychiatric	15	you just mentioned?
16	hospital did not respect his gender identity and used	16	A. I think that the WPATH doesn't actually discuss
17	his own name. He told Torres he had known he was a	17	particular age cutoffs and more talks around patient
18	boy for years. Torres," the next page, "told him	18	readiness and individual factors.
19	straight up that she would prescribe a low dose of	19	Q. In fact, is it right to say that WPATH removed the age
20	testosterone."	20	considerations that were in the initially published
21	Do you believe that Dr. Torres is providing	21	version of Standards of Care 8?
22	care in accord with WPATH Standards of Care 8?	22	A. I believe that to be true.
23	MS. WILLIAMS: Objection. Counsel, if	23	Q. Do you know why they removed those age restrictions?
24	you're going to ask about the article, he should be	24	A. I do not.
25	able to read the article.	25	Q. Do you know if it was so that the AAP would not oppose
	Page 250		
1	Page 259 BY MR. MILLS:	1	Page 261
1 2	BY MR. MILLS:	1 2	Page 261 the Standards of Care 8?
2	BY MR. MILLS: Q. The sections I've described outline how she has cared	2	Page 261 the Standards of Care 8? MS. WILLIAMS: Objection.
2	BY MR. MILLS: Q. The sections I've described outline how she has cared for this child, and I'm asking the care for this child	2 3	Page 261 the Standards of Care 8? MS. WILLIAMS: Objection. A. I do not know.
2 3 4	BY MR. MILLS: Q. The sections I've described outline how she has cared for this child, and I'm asking the care for this child was that in accord with WPATH Standards of Care 8.	2 3 4	Page 261 the Standards of Care 8? MS. WILLIAMS: Objection. A. I do not know. BY MR. MILLS:
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2 3 4 5 6 7 8 9 10	BY MR. MILLS: Q. The sections I've described outline how she has cared for this child, and I'm asking the care for this child was that in accord with WPATH Standards of Care 8. A. I think it's hard for me to comment on what her care actually is like, but, you know, I think that I would suggest that mental health evaluation is important for adolescents with gender dysphoria prior to proceeding with hormone, and that's why I practice the way I do. Q. So she may be treating a condition that has never been properly diagnosed, correct?	2 3 4 5 6 7 8 9 10 11	Page 261 the Standards of Care 8? MS. WILLIAMS: Objection. A. I do not know. BY MR. MILLS: Q. Are you aware that the United States in this case is not challenging the law's ban on surgeries? A. I was aware. Q. Should they be? A. That's not for me to say. Q. You think it will harm children, though, if they can't access gender-affirming surgeries before the age of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. MILLS: Q. The sections I've described outline how she has cared for this child, and I'm asking the care for this child was that in accord with WPATH Standards of Care 8. A. I think it's hard for me to comment on what her care actually is like, but, you know, I think that I would suggest that mental health evaluation is important for adolescents with gender dysphoria prior to proceeding with hormone, and that's why I practice the way I do. Q. So she may be treating a condition that has never been properly diagnosed, correct? A. I think it's hard to say based on the author's report of her conversation with her, but Q. The passages I've read you have no concerns with how Dr. Torres is practicing gender medicine for adolescents? A. I'd like to reserve concern until I knew more about how she actually structures her visits and sees patients. Q. The next page, page 11, the second to last paragraph, "I will do whatever I can within legal parameters,"	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 261 the Standards of Care 8? MS. WILLIAMS: Objection. A. I do not know. BY MR. MILLS: Q. Are you aware that the United States in this case is not challenging the law's ban on surgeries? A. I was aware. Q. Should they be? A. That's not for me to say. Q. You think it will harm children, though, if they can't access gender-affirming surgeries before the age of 19? A. Before the age of 19. Q. That's the age in Alabama. A. I think it's it's possible that it can be harmful, but as a nonsurgeon, I have more experience with the the treatment of gender dysphoria with hormonal interventions. Q. Have you told the United States that they should challenge the surgery component of the Alabama law? MS. WILLIAMS: Objection.

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Q. Why do you think they aren't challenging the surgery

component of the law?

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1	MS. WILLIAMS: Objection.	1	Q. And you're a pediatric endocrinologist, correct?
2	A. I don't know.	2	A. Yes.
3	BY MR. MILLS:	3	Q. You don't treat adults past the age of 22,
4	Q. I'm going to show you a clip. Do you recall doing a	4	thereabouts?
5	Facebook live streaming video with a group called	5	A. Sometimes I have patients that I have a hard time
6	"Stand with Trans" entitled "Ask the Expert" in	6	graduating because they don't want to say good-bye, so
7	February 2021?	7	some patients are 23 or 24, but generally that's the
8	A. I do believe so.	8	oldest patients, group of patients that I would see.
9	Q. Okay. I'm just going to just show a clip from that	9	Q. And why is pediatric endocrinology its own specialty?
10	video if we can get it queued up here.	10	A. I think that there's a wide range of endocrine
11	(Video playing.)	11	problems that affect children that don't affect adults
12	BY MR. MILLS:	12	and so having a specialty devoted to pediatrics is
13	Q. And I'll mark that as Exhibit 42 [sic].	13	important.
14	MARKED FOR IDENTIFICATION:	14	Q. So treatments may vary between adult and child
15	EXHIBIT 41	15	practice it sounds like?
16	5:24 p.m.	16	A. Generally in endocrinology or gender-affirming care?
17	BY MR. MILLS:	17	Q. Generally in endocrinology.
18	Q. So in this in this video, you're talking about	18	A. Yes.
19	sorry. What types of surgeries are you specifically	19	Q. And research on treatments for adults again generally
20	referring to in this video?	20	in endocrinology may not be applicable to treatments
21	A. I was I was talking about OB-GYNs so I was talking	21	for adolescents; is that right?
22	about hysterectomy.	22	A. Yes.
23	Q. Okay. And do you so in the video you said it	23	Q. All right. I'd like to show you another study that
24	should be an adult decision to completely reverse	24	you cited in your report, and this has to do with
25	fertility potential.	25	the one of the twin studies that we started talking
	Page 263		Page 265
1	Page 263 Do you still agree that it should be an	1	Page 265 about earlier.
1 2	_	1 2	_
l .	Do you still agree that it should be an		about earlier.
2	Do you still agree that it should be an adult decision to completely reverse fertility	2	about earlier. So I will mark this as Exhibit 42.
2 3	Do you still agree that it should be an adult decision to completely reverse fertility potential?	2 3	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION:
2 3 4	Do you still agree that it should be an adult decision to completely reverse fertility potential? A. I do. I think that the decision around removal of	2 3 4	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION: EXHIBIT 42
2 3 4 5	Do you still agree that it should be an adult decision to completely reverse fertility potential? A. I do. I think that the decision around removal of gonads and therefore having no possibility of	2 3 4 5	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION: EXHIBIT 42 5:28 p.m.
2 3 4 5 6	Do you still agree that it should be an adult decision to completely reverse fertility potential? A. I do. I think that the decision around removal of gonads and therefore having no possibility of fertility is different than the hormonal interventions	2 3 4 5 6	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION: EXHIBIT 42 5:28 p.m. BY MR. MILLS:
2 3 4 5 6 7	Do you still agree that it should be an adult decision to completely reverse fertility potential? A. I do. I think that the decision around removal of gonads and therefore having no possibility of fertility is different than the hormonal interventions that we've been discussing so far which do not reduce fertility to zero, and my opinion is that that that decision is best made in in most people after 18.	2 3 4 5 6 7	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION: EXHIBIT 42 5:28 p.m. BY MR. MILLS: Q. So again this you're familiar with this study? You
2 3 4 5 6 7 8	Do you still agree that it should be an adult decision to completely reverse fertility potential? A. I do. I think that the decision around removal of gonads and therefore having no possibility of fertility is different than the hormonal interventions that we've been discussing so far which do not reduce fertility to zero, and my opinion is that that that decision is best made in in most people after 18. Q. And that's you have that view despite the potential	2 3 4 5 6 7 8	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION: EXHIBIT 42 5:28 p.m. BY MR. MILLS: Q. So again this you're familiar with this study? You cited it in your report; is that right?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you still agree that it should be an adult decision to completely reverse fertility potential? A. I do. I think that the decision around removal of gonads and therefore having no possibility of fertility is different than the hormonal interventions that we've been discussing so far which do not reduce fertility to zero, and my opinion is that that that decision is best made in in most people after 18. Q. And that's you have that view despite the potential availability of artificial means of reproduction? A. As in? What artificial means of reproduction are you referring to, like, sorry, just to understand your question a little better? Q. Sure. A 17-year-old considering these surgeries could conceivably freeze her eggs, for instance, but despite that available option, you still don't think a person, a child, should be able to decide to have that surgery? A. I think there could be a compelling case where a person has really significant gender dysphoria related to the uterus, and I'd be open to the idea that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	about earlier. So I will mark this as Exhibit 42. MARKED FOR IDENTIFICATION: EXHIBIT 42 5:28 p.m. BY MR. MILLS: Q. So again this you're familiar with this study? You cited it in your report; is that right? A. Yes. Q. If we could go under "Methods" on page 452. MS. WILLIAMS: You mean 752? MR. MILLS: Yep, I do. Yes, I do. BY MR. MILLS: Q. So it says, "For the review of case studies on twins, we searched several databases using the following keywords. For unpublished data sets we contacted the authors directly. We also included three twin pairs who attended the gender clinic of Ghent University." And then later on it says, "There were some case reports examined at our clinic," and then it says, "A total of 25 twin pairs were also available for analysis from a Toronto gender identity service."

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25 Q. And it would not be representative of the overall

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25

decision on gonadectomy surgeries.

Case 2:22-cv-00184-LCB-CWB

24

25

gender dysphoria, and the fraternal, so to speak,

dizygotic twin pairs none of the other twins had

Page 266 Page 268 1 population of twins? 1 gender identity disorder. 2 A. Well, that's, I think, open to the readers and open 2 Q. Right. You said gender dysphoria, but it's really 3 for the readers' determination. So having enough 3 just gender identity disorder? 4 identical twins in one gender clinic there wouldn't be A. Right, that's what I tried to say, yep. 5 enough power to answer any question about -- about a Q. Okay. So 755 on the second column right at the top of the page, the higher concordance for GID and MZ than 6 genetic link so you need to widen the circle, so to 6 7 7 speak. So they outlined how they recruited these twin in DZ twins is consistent with a genetic influence on 8 8 pairs, and then it's for the reader to then assess how its genesis, although shared and nonshared 9 well does this recruitment strategy represent twins environmental factors cannot be ruled out." 10 generally. 10 Do you agree with that statement? 11 Q. And these -- these patients, or some of them, had been 11 A. Yes. 12 diagnosed with gender identity disorder. That is the 12 O. Then the next sentence, "Indeed, from these case 13 old diagnosis under the DSM-IV; is that right? 13 reports, very little is known about the "equal 14 A. Yes. 14 environment assumption." That is the assumption that 15 15 Q. And that's not the same is gender identity under the MZ twins are not treated more similarly than DZ twins 16 16 DSM-5? in ways that might affect their gender identity." 17 A. There's -- the criteria are not identical. 17 You agree with that statement? 18 O. So this study does not examine twins in the context of 18 A. I think I understand what they're saying, and in -- I 19 the current diagnostic criteria for gender dysphoria 19 would agree that the -- the point they're making is, 20 under the DSM-5? 20 you know, the assumption in twin studies is that the 21 21 A. That's right. It's not -- it's specifically talking environment is the same when you are an identical twin 22 about gender identity disorder, which is similar to, 22 or a fraternal twin because you're living in the same 23 23 but not the same as gender dysphoria. house, but could there be subtle differences in the 24 And I think I also used this article to 24 environment if you are identical twins, are you 25 express biologic origin for gender identity more 25 treated differently in some way that isn't the case Page 269 Page 267 1 generally, so we're using gender identity disorder as 1 with fraternal twins, could this be explaining the 2 2 a surrogate for gender identity. reason that 39 percent of monozygotic twins are 3 3 Q. But not all persons with divergent gender identity concorded where zero percent of dizygotic twins are 4 4 have or had under the old diagnosis gender identity concordant, that's the question that they're posing, 5 disorder; is that true? 5 so it's up to the reader then to think that through A. That's true. 6 and make a determination. Q. So on page 755 under "Statistical Analysis" it says, Q. And so under "Statistical Analysis" on 755 the first 8 "If we combine the same sex MZ and DZ twin pairs 8 column the second sentence, the one right after the 9 across sex, there were a total of nine 39.1 percent MZ 9 one we already read was, "The difference in 10 10 twin pairs concorded for GID, and fourteen 60.9 concordance between the MZ and DZ pairs was 11 percent discorded for GID. Of the 21 DZ twin pairs 11 significant chi squared equals 8.18, so" --12 all were discorded for GID." 12 MS. WILLIAMS: It says 8.08. 13 13 So that means, if I can try to translate MR. MILLS: Sorry. 14 that, that means that 39.1 percent of identical twins 14 MS. WILLIAMS: That's okay. 15 15 MR. MILLS: I'm dying, 8.08. examined were found to both have gender identity 16 disorder; is that a fair --16 BY MR. MILLS: 17 A. Yeah, I think the way that I would explain it is 17 Q. So this chi squared test just asks whether there's an 18 18 observed difference between two variables; is that they're finding twin pairs where at least one of the 19 twins has gender identity disorder, and then they're 19 right? 20 20 saying what percentage of the other also has gender A. Yes. 21 identity disorder. 21 Q. And it doesn't control for any other variables, 22 22 So in the monozygotic or you could say 23 identical twins, 39 percent of the other twin also had 23 A. Right. But again, that's sort of the point of a twin

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study is that you're doing almost everything you can

to control the variables.

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24

69 (Pages 270 - 273)

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Page 274
                CERTIFICATE OF NOTARY
 1
    STATE OF MICHIGAN )
 3
               ) SS
    COUNTY OF MONROE )
 4
 5
 6
              I, LEISA PASTOR, certify that this
 7
       deposition was taken before me on the date
 8
       hereinbefore set forth; that the foregoing questions
 9
       and answers were recorded by me stenographically and
10
       reduced to computer transcription; that this is a
11
       true, full and correct transcript of my stenographic
12
       notes so taken; and that I am not related to, nor of
13
       counsel to, either party nor interested in the event
14
       of this cause.
15
16
17
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21
22
                  LEISA PASTOR, CSR-3500, CRR,
23
                  Notary Public,
24
                  Monroe County, Michigan
25
                  My Commission expires: 9/7/27
                                                       Page 275
 1 Renee Williams
 2 renee.williams3@usdoj.gov
 3
                  April 22, 2024
 4 RE: Boe, Brianna, Et Al. v. Marshall, Steven T., Et Al.
 5
      4/2/2024, Daniel Shumer, MD (#6502246)
 6
      The above-referenced transcript is available for
 7 review.
 8
      Within the applicable timeframe, the witness should
 9 read the testimony to verify its accuracy. If there are
10 any changes, the witness should note those with the
11 reason, on the attached Errata Sheet.
12
      The witness should sign the Acknowledgment of
13 Deponent and Errata and return to the deposing attorney.
14 Copies should be sent to all counsel, and to Veritext at
15 cs-southeast@veritext.com.
16 Return completed errata within 30 days from
17 receipt of testimony.
     If the witness fails to do so within the time
19 allotted, the transcript may be used as if signed.
20
21
22
            Yours,
23
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24
25
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70 (Pages 274 - 275)

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Page 272 Boe, Brianna, Et Al. v. Marshall, Steven T., Et Al. 1 Daniel Shumer, MD (#6502246) 2 ACKNOWLEDGEMENT OF DEPONENT 3 I, Daniel Shumer, MD, do hereby declare that I 4 have read the foregoing transcript, I have made any 5 corrections, additions, or changes I deemed necessary as 6 noted above to be appended hereto, and that the same is 7 a true, correct and complete transcript of the testimony 8 given by me. 9 10 5/15/2024 11 Daniel Shumer, MD Date 12 *If notary is required 13 SUBSCRIBED AND SWORN TO BEFORE ME THIS 14 15 16 17 Kal L Van Cyp 11 18 NOTARY PUBLIC 19 20 KENNARD LEE VANCAMP III 21 Notary Public - State of Michigan County of Washtenaw My Commission Expires Sep 22 Acting in the County of 23 24 25

	Page 273
1	Boe, Brianna, Et Al. v. Marshall, Steven T., Et Al.
2	Daniel Shumer, MD (#6502246)
3	ERRATA SHEET
4	PAGE_23_ LINE_13 CHANGE_"gains" to "genes"
5	
6	REASON_wrong word
7	PAGE_35 LINE_14 CHANGE_"children in adolescence"
8	to "children and adolescents"
9	REASON_wrong word
10	PAGE_36 LINE_16 CHANGE_"cross X hormones" to
11	"cross sex hormones"
12	REASON_wrong word
13	PAGE_37 LINE_21 CHANGE_"diagnosis" to
14	"diagnose"
15	REASON_wrong word
16	PAGE_41 LINE_23-24 CHANGE_"half progresses" to
17	"has progressed"
18	REASON_wrong word
19	
20	Please see page 273a for continuation of the Errata
21	Sheet.
22	Ω 1 Λ
23	5/15/2024
24	Daniel Shumer, MD Date
25	

Page 273a

Errata Sheet - Continued

PAGE: 45 LINE: 10-12

CHANGE: add open quotation mark before "appear" and add close quotation mark after "environment"

REASON: I am reading a passage, not using my own words

PAGE: 54 LINE: 3

CHANGE: "Casey" to "K.C."

REASON: Corrected name of legal case

PAGE: 61 LINE: 21

CHANGE: "higher" to "high"

REASON: wrong word

PAGE: 63 LINE: 7

CHANGE: "parents" to "patients"

REASON: wrong word

PAGE: 65 LINE: 1

CHANGE: "female body" to "female-bodied"

REASON: wrong word

PAGE: 70 LINE: 9

CHANGE: "persistent" to "persistence"

REASON: wrong word

PAGE: 83 LINE: 5

CHANGE: "involved" to "evolved"

REASON: wrong word

PAGE: 97 LINE: 2

CHANGE: "male body" to "male-bodied"

REASON: wrong word

PAGE: 98 LINE: 1-2

CHANGE: "female body" to "female-bodied"

REASON: wrong word

PAGE: 103 LINE: 3 CHANGE: "the" to "a" **REASON: wrong word**

Daniel Shumer, MD

5/15/2024

Page 273b

Errata Sheet - Continued

PAGE: 107 LINE: 24

CHANGE: "a course being estrogen" to "of course being on estrogen"

REASON: wrong words

PAGE: 117 LINE: 12

CHANGE: "adults" to "adolescents"

REASON: I went back to the source material to confirm that the wrong word was transcribed

PAGE: 117 LINE: 15

CHANGE: "e-scores" to "z-scores" **REASON: wrong scientific word**

PAGE: 130 LINE: 16

CHANGE: "doctrine care" to "Doctoring: care"

REASON: wrong title

PAGE: 143 LINE: 25

CHANGE: "particularly synthetic ethanol, estradiol," to particularly synthetic ethinyl estradiol,"

REASON: wrong scientific word and position of punctuation

PAGE: 151 LINE: 25

CHANGE: "at a similar stage 2" to "at SMR stage 2"

REASON: I went back to the source material to confirm correct words, SMR is a medical abbreviation for

Sexual Maturity Rating

PAGE: 162 LINE: 6

CHANGE: "fought puberty" to "block puberty"

REASON: I went back to the source material to confirm the correct word

PAGE: 164 LINE: 23

CHANGE: "Top ten" to "Top trans"

REASON: I went back to the article in question to confirm correct title

PAGE 165: LINE: 12

CHANGE: "the clinical name Deniliquin the first visible" to "the clinical name of the moment when the

REASON: wrong word, misssing words; I went back to the source material to find the correct language

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Page 273c

Errata Sheet - Continued

PAGE: 168 LINE: 3

CHANGE: "You say 'After a while" to "You say after, 'While,' you say,"

REASON: Wrong phrase, the quotation in question starts with the word "while"

PAGE: 182 LINE: 20

CHANGE: "GnHR" to "GnRH" **REASON: wrong scientific word**

PAGE: 183 LINE: 21

CHANGE: "protocol-ise" to "protocolize"

REASON: protocolize is a word

PAGE: 189 LINE: 2

CHANGE: "up comes" to "outcomes"

REASON: wrong word

PAGE: 193 LINE: 10

CHANGE: "protruding" to "treating"

REASON: wrong word

PAGE 198: LINE: 21

CHANGE: "ascent" to "assent"

REASON: wrong word

PAGE: 198 LINE: 23

CHANGE: "ascent" to "assent"

REASON: wrong word

PAGE: 199 LINE: 14

CHANGE: "ascent" to "assent"

REASON: wrong word

PAGE: 201 LINE: 4-5

CHANGE: "no insulin equals dying, yes, insulin equals living" to "no-insulin equals dying; yes-insulin

equals living."

REASON: more clear with edited punctuation

PAGE: 208 LINE: 1

CHANGE: "preventing" to "presenting"

REASON: wrong word

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Page 273d

Errata Sheet - Continued

PAGE: 212 LINE: 9

CHANGE: "page 241" to "page 247"

REASON: In review of the source material, the page number related to the discussion is wrong

PAGE: 220 LINE: 18

CHANGE: "deep diminishment" to "diminishment" (omit the word deep)

REASON: I don't believe I used the word "deep" because that doesn't make sense; perhaps the transcript

caught a stutter, di-diminishment?

PAGE: 228 LINE: 9

CHANGE: "Mr. Mills" to "Ms. Williams"

REASON: The wrong lawyer is quoted, it should be Ms. Williams objecting to the question posed by Mr.

Mills.

PAGE: 229 LINE: 13

CHANGE: "produces" to "reduces"

REASON: wrong word

PAGE: 238 LINE: 5

CHANGE: "27" to "20.7" **REASON: wrong number**

PAGE: 269 LINE: 3

CHANGE: "concorded" to "concordant"

REASON: wrong word

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