

LOREN S. SCHECHTER, MD

03/28/2022



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Realtimereporters.net

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CHRISTOPHER FAIN, ET AL vs., WILLIAM CROUCH, ET AL

[03/20/2022
1	IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA	1 2	APPEARANCES :	Page 3
23	HUNTINGTON DIVISION	3	APPEARING FOR THE PLAINTIFFS:	
4	CHRISTOPHER FAIN; ZACHARY MARTELL; BRIAN MCNEMAR, SHAWN		THE EMPLOYMENT LAW CENTER	
5	ANDERSON a/k/a SHAUNTAE ANDERSON;	4	Walt Auvil, Esquire 1208 Market Street	
6	and LEANNE JAMES, individually and on behalf of all others	5	Parkersburg, WV 26101	
0	similarly situated,	6	Nora Huppert, Esquire Lambda Legal Defense and Education	
7	Dlaistiffa	7	Fund, Inc.	
8	Plaintiffs, Civil Action No. 3:20-cv-00740		65 E. Wacker Pl, Suite 2000	
	Hon. Robert C. Chambers, Judge	8	Chicago, IL 60601 nhuppert@lambdalegal.org	
	v. WILLIAM CROUCH, in his official	9		
	capacity as Cabinet Secretary	10	Tara L. Borelli, Esquire Lambda Legal Defense and Education	
11	of the West Virginia Department of Health and Human Resources;	10	Fund, Inc.	
12	CYNTHIA BEANE, in her official	11	1 West Court Square, Suite 105	
13	capacity as Commissioner for the West Virginia Bureau for	12	Decatur, GA 30030 tborelli@lambdaleqal.org	
	Medical Services; WEST VIRGINIA	13	Avatara Smith-Carrington, Esquire	
14	DEPARTMENT OF HEALTH AND HUMAN RESOURCES, BUREAU FOR MEDICAL	14	Lambda Legal Defense and Education Fund,Inc.	
15	SERVICES; JASON HAUGHT, in his		3500 Oak Lawn Avenue, Suite 500	
16	official Capacity as Director of the West Virginia Public	15	Dallas, Texas 75219-6722	
	Employees Insurance Agency;	16	APPEARING FOR THE DEFENDANTS:	
17	and THE HEALTH PLAN OF WEST VIRGINIA, INC.,	17		
18		18	Caleb David, Esquire Lou Ann Cyrus, Esquire	
19	Defendants	10	SHUMAN, MCCUSKEY & SLICER	
20		19	1411 Virginia Street	
21	VIDEO CONFERENCE DEPOSITION	20	Charleston, WV 25339-3953	
21	OF LOREN S. SCHECHTER, M.D.	21		
22	March 28, 2022	22		
23 24		24		
1	Page 2	1	EXAMINATION INDEX	Page 4
2		2		
3				
4	VIDEO CONFERENCE DEPOSITION	3	BY MR. DAVID	8
	OF	4		
5	LOREN S. SCHECHTER, M.D.	5		
	March 28, 2022	6		
6		7		
7				
8		8		
	Videoconference deposition of DR.			
	LOREN S. SCHECHTER taken by the Defendants	9		
10	LOREN S. SCHECHTER taken by the Defendants under the West Virginia Rules of Civil	9 10		
10 11	LOREN S. SCHECHTER taken by the Defendants under the West Virginia Rules of Civil Procedure in the above-entitled action,	9		
10 11 12	LOREN S. SCHECHTER taken by the Defendants under the West Virginia Rules of Civil Procedure in the above-entitled action, pursuant to notice, before Teresa S. Evans, a	9 10		
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

1	EXHIBIT INDEX	Page 5	Page 7 1 PROCEEDINGS
2 3	Exhibit 1 Article entitled "Reduction	179	2 COURT REPORTER: Good morning. My
	in Mental Health Treatment		3 name is Teresa Evans. I am a Registered Merit
4	Utilization Among Transgender Individuals After Gender-Affirm	ing	_
5	Surgeries: A Total Population Study" by Richard Bränström, Ph	D	4 Reporter.
6	and John E. Pachankis, Ph.D.		5 Today's date is March 28, 2022
7	Exhibit 2 Correction to article entitled "Reduction in	179	6 and the time is approximately 9:58 a.m.
8	Mental Health Treatment Utilization Among Transgender		7 This is the deposition of
9	Individuals After Gender-Affirm	ing	8 Dr. Loren Schechter in the matter of Fain, et
10	Surgeries: A Total Population Study" by Richard Bränström, Ph	D.	9 al. versus Crouch, et al. This case is venued
	and John E. Pachankis, Ph.D.		10 in the United States District Court for the
11	Exhibit 3 Article entitled "Long-Term	185	11 Southern District of West Virginia at
12	Follow-Up of Transsexual Persons Undergoing Sex		12 Huntington. The case number is 3:20-cv-00740.
13	Reassignment Surgery: Cohort		13 At this time, I will ask counsel
14	Study in Sweden" by Cecilia Dhejne and others		,
15	Exhibit 4 Article entitled "Evidence-Based Patient	197	14 to identify yourselves and whom you represent
16	Safety Advisory: Blood		15 and agree on the record that there is no
17	Dyscrasias" by Haeck and others		16 objection to this officer of the court
18	Exhibit 5 WPATH DRAFT Version on the	197	17 administering a binding oath to the witness
19	Standards of Care Version 8		18 via Zoom.
20	Exhibit 6 Initial Schechter report	197	19 Please state your agreement on
	Exhibit 7 Rebuttal Schecter report	197	20 the record, starting with the noticing
21	Exhibit 8 Article entitled	209	21 attorney.
22	"Individuals Treated for Gender Dysphoria with		22 MR. DAVID: Caleb David and Lou
23	Medical and/or Surgical		23 Ann Cyrus on behalf of the Defendants, the
24	Transition Who Subsequently Detransitioned: A Survey of		24 West Virginia Department of Health and Human
_	100 Detransitioners"		24 West Virginia Department of fleatur and fluthan
		Page 6	Page 8
1	EXHIBIT INDEX (Contd.)		1 Resources, Secretary Crouch and Commissioner
2	Exhibit 9 Cornell University web page	216	2 Beane, and we have no objection to the witness
З	entitled "What does the	210	3 being sworn via Zoom or the deposition taking
5	scholarly research say about		4 place via Zoom.
4	the effect of gender		5 MS. HUPPERT: This is Nora
-	transition on transgender		6 Huppert from Lambda Legal for the plaintiffs.
5	well-being"		7 Also no objection to being sworn by Zoom.
6	2		8 MR. AUVIL: Walt Auvil for the
7			9 plaintiffs. No objection.
в			10 MS. BORELLi: Tara Borelli for
9			11 the Plaintiffs. No objection.
10			
11			12 MS. SMITH: Avatara Smith-
12			13 Carrington for the plaintiffs. No objection.
13			14 (The witness was sworn.)
14			15 LOREN SCHECHTER, M.D.
15			16 was called as a witness by the Defendants, and
16			17 having been first duly sworn, testified as
17			18 follows:
18			19 EXAMINATION
19			20 BY MR. DAVID:
20			20 DT MIC DAVID. 21 Q. Doctor, my name's Caleb David, and as
21			
22			22 you just heard, I represent the defendants in
23			23 this lawsuit that's been filed by Christopher
24			24 Fain and Shauntae Anderson, and we're here to

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WILLIAM CROUCH, ET AL	03/28/2022
Page 9	Page 1
1 take your deposition today, and I see from	1 University. We do teach we do have
2 your expert disclosure report that you've had	2 rotating residents from the University of
3 your deposition taken a few times before. Is	3 Chicago and from Rush University.
4 that right?	4 However, my employment will be
5 A. That's correct.	5 switching on April 5th to Rush University.
6 Q. Okay. Then I'll spare you all the	6 Q. And at Rush University, will you be a
7 details and rules. If you do misunderstand	7 physician as well as a professor?
8 something or if you can't hear me or Zoom cuts	8 A. That's correct. And Mr. David, I'm
9 out or something, please let me know. That's	9 sorry, you just cut out a little bit every so
10 always a difficulty. And if you want to take	10 often.
11 a break at any time, we can do that. That's	11 Q. Let me I'm trying to get rid of
12 not a problem.	12 e-mail notifications. I think that's the
13 So are you ready to get started?	13 problem. They keep popping up. Okay.
14 A. Yes.	14 Let's try that again. At Rush
15 Q. Okay. All right. Can you please	15 University, will you be an attending physician
16 state your full name for the record?	16 as well as a professor?
17 MR. DAVID:, I'm sorry, Nora, did	17 A. I currently have a hospital
18 you want to	18 appointment now as an attending physician at
19 MS. HUPPERT: Apologies. Not to	19 Rush, and then I will assume the role of
20 interrupt. We just wanted to propose really	20 director of their program in gender
21 quickly to agree that an objection to form	21 affirmation surgery as well as a professor of
22 would preserve all form objections without	22 surgery which is pending academic review.
23 needing specified for the sake of efficiency.	23 Q. And that program in gender affirmation
24 Would you agree to that?	24 surgery, how long has that program existed?
	24 Surgery, now long has that program existed?
1 MR. DAVID: Absolutely.	Page 12 1 A. I joined the staff at Rush I
2 MS. HUPPERT: Thank you very	2 believe it was in August of '20, I believe be
	3 just before the pandemic.
	4 Q. So in August of 2019 then?
4 BY MR. DAVID:	4 Q. So in August of 2019 then?
	E A I think you're correct. It would be
5 Q. Doctor, can you please state your full	5 A. I think you're correct. It would be
6 name for the record?	6 August of '19, yes.
6 name for the record?7 A. Loren, L-O-R-E-N, Slone, S-L-O-N-E,	6 August of '19, yes.7 Q. And is that when the program started,
 6 name for the record? 7 A. Loren, L-O-R-E-N, Slone, S-L-O-N-E, 8 Schechter, S-C-H-E-C-H-T-E-R. 	 6 August of '19, yes. 7 Q. And is that when the program started, 8 when your arrival coincided with the program's
 6 name for the record? 7 A. Loren, L-O-R-E-N, Slone, S-L-O-N-E, 8 Schechter, S-C-H-E-C-H-T-E-R. 9 Q. Doctor, how are you currently 	 6 August of '19, yes. 7 Q. And is that when the program started, 8 when your arrival coincided with the program's 9 beginning?
 6 name for the record? 7 A. Loren, L-O-R-E-N, Slone, S-L-O-N-E, 8 Schechter, S-C-H-E-C-H-T-E-R. 9 Q. Doctor, how are you currently 10 employed? 	 6 August of '19, yes. 7 Q. And is that when the program started, 8 when your arrival coincided with the program's 9 beginning? 10 A. My arrival coincided or I guess my
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 6 name for the record? 7 A. Loren, L-O-R-E-N, Slone, S-L-O-N-E, 8 Schechter, S-C-H-E-C-H-T-E-R. 9 Q. Doctor, how are you currently 10 employed? 11 A. I'm currently employed by Weiss 12 Hospital. 13 Q. And what is your position with Weiss 14 Hospital? 15 A. Physician. 16 Q. And what type of physician? 17 A. Plastic surgeon. 18 Q. And are you do you also have a 19 teaching position as a plastic surgeon at 20 Weiss Hospital? 21 A. I didn't hear that. That cut out. 	 6 August of '19, yes. 7 Q. And is that when the program started, 8 when your arrival coincided with the program's 9 beginning? 10 A. My arrival coincided or I guess my 11 arrival began their program in predominantly 12 genital surgery. I believe they had been 13 performing top surgery, meaning mostly 14 mastectomy, prior to my joining. 15 Q. And when and I maybe I might 16 be misunderstanding you. When you say 17 "program in gender affirmation surgery," are 18 you talking about just the fact that those 19 procedures are being performed, or is there a 20 residency or internship program? 21 A. The program is housed within the

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WILLIAM CROUCH, ET AL	03/28/2022
 Page 13 1 fellowship in gender affirming surgery. 2 That fellowship started in 2017 3 initially through Weiss, and I believe we 4 switched the administrative authority in '19 5 to Rush University. 6 Q. Okay. So how many residents and 7 again, I guess they would be physicians 8 full-fledged physicians by the time they got 9 to the fellowship, but how many people have 10 gone through that fellowship program? 11 A. Four people have completed, and the 12 fifth will start in July of this year. 13 Q. And the four that have completed, are 14 they now practicing plastic surgery and 15 performing gender confirmation or gender 16 affirmation surgeries? 17 A. Yes, I believe all have that as part 18 of their practice. 19 Q. Do you have any idea where those folks 20 are now? 21 A. One in San Francisco; one in Toronto; 22 one in Philadelphia, and I believe one in New 23 York. 	 1 tell me what the fellowship actually entails? 2 First, is it a one- or two-year fellowship? 3 And then what it actually entails in terms of 4 procedures that are performed, if there's any 5 research component, anything like that? 6 MS. HUPPERT: Objection to form. 7 A. It's designed to be a one-year 8 fellowship. There are both there are 9 several components: Clinical components, 10 which involve office-based education; 11 didactics, meaning lectures; operative 12 experience, both pre- and post-operative care 13 in the office as well as in the hospital; 14 clinical research; teaching rotating medical 15 students and plastic surgery residents. 16 Q. And I know it's a small sample size, 17 but for the four who have completed that 18 fellowship, on average how many procedures,
23 FOR. 24 Q. And do you know those individuals'	24 Q. Sure.
 Page 14 1 names? A. Alexander Facque, F-A-C-Q-U-E. 3 Rayisa, R-A-Y-I-S-A, Hontscharuk, 4 H-O-N-T-S-C-H-A-R-U-K. Alireza Hamidian, 5 A-L-I-R-E-Z-A, Hamidian, H-A-M-I-D-I-A-N. And 6 David Whitehead, W-H-I-T-E-H-E-A-D. 7 Q. That was impressive, Doctor, for you 8 to be able to spell all of that. Thank you. 9 So this program has been in existence since 10 2019. Have you only been accepting one fellow 11 each year? 12 A. It's been in existence since '17. 13 Q. Okay. 14 A. It administratively moved to Rush in 15 '19. We accept one per year. This year, 16 Doctor Hamidian, who is our most recent 17 graduate, had planned to stay through December 18 but was offered a position at Temple 19 University, so we allowed him to leave a bit 20 early. 21 So we had no fellow from about 22 August of '21 through June of '22. And the 23 fifth person will start July of '22. 24 Q. And can you just, in general terms, 	 A. And with our Canadian fellow who had some difficulties with border closures related to COVID. Q. Okay. So in the small sample size of nonCOVID years where people can freely travel without quarantine, it's 150 to 200 procedures in that one fellowship year. A. That is correct. Q. Okay. Now, obviously you are board

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1 MS. HUPPERT: Object to form.	1 A. Yes.
2 A. Each of the fellows receives a	2 Q. Okay. And you also state that for at
3 certificate from the institution indicating	3 least the past five years, you've been
4 successful completion of the program.	4 performing approximately 150 gender
5 Q. Okay. Are you aware of whether or not	5 confirmation procedures every year. Is that
	6 right?
6 the American Board of Medical Specialties is	
7 developing a board certification in gender	7 A. Yes.
8 affirmation surgeries?	8 Q. Okay. So just doing quick math, it
9 MS. HUPPERT: Object to the form.	9 seems to me that over the last five years,
10 A. To my knowledge, they are not.	10 there's been an uptick in the amount of gender
11 Q. Ask you some of the generic doctor	11 confirmation surgeries that you're performing.
12 questions that you've probably been asked	12 Is that true?
13 before. But you're licensed to practice	13 MS. HUPPERT: Object to form.
-	
14 medicine, correct?	,
15 A. I am.	15 five years have been fairly consistent.
16 Q. And in the State of Illinois?	16 Q. Okay. So if you're looking at the
17 A. Yes.	17 last 5 years compared to the prior 22 years of
18 Q. And you have do you have any	18 practice because you've been practicing for
19 restrictions on your license?	19 27 years; is that right?
20 A. No.	20 A. I completed my residency in '99. I
21 Q. Have you ever has your license ever	21 did my fellow started my fellowship in '99,
	22 also with getting attending privileges. And I
23 in any way from any board of any licensure	23 began training in '94.
24 board? Sorry.	24 So I've been involved - whether
Page 18	Page 20
1 A. No.	1 as an attending, a fellow, a resident - for
2 Q. Okay. Have you ever had a malpractice	
2 W. UNAY. HAVE YOU EVEL HAU A MAIPLACHCE	2 over and prior to that, as a student. But
	2 over and prior to that, as a student. But3 as a physician, going on 28 or 29 years.
3 suit filed against you?	3 as a physician, going on 28 or 29 years.
3 suit filed against you?4 A. Yes.	 3 as a physician, going on 28 or 29 years. 4 Q. Okay. And I'm referencing Paragraph 7
 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 	 3 as a physician, going on 28 or 29 years. 4 Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have
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 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement?
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 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is.
 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but
 3 suit filed against you? A. Yes. D. Okay. And did that well, first, when was that suit filed? A. I've had one probably in a case from '03. I don't remember when it was filed. I twas dismissed. I have an ongoing case from 2015. The case may have been filed in '16 or '17. I'm not sure. 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm
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 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 12 I'm not sure. 13 Q. The case in 2003, did that involve a 14 patient undergoing gender affirmation surgery? 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150
 3 suit filed against you? A. Yes. Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 12 I'm not sure. 13 Q. The case in 2003, did that involve a 14 patient undergoing gender affirmation surgery? 15 A. No. 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years,
 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 12 I'm not sure. 13 Q. The case in 2003, did that involve a 14 patient undergoing gender affirmation surgery? 15 A. No. 16 Q. And the case in 2015, did that involve 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what
 3 suit filed against you? A. Yes. Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 12 I'm not sure. 13 Q. The case in 2003, did that involve a 14 patient undergoing gender affirmation surgery? 15 A. No. 16 Q. And the case in 2015, did that involve 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what 17 I'm asking, in the last five years, has there
 3 suit filed against you? A. Yes. Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 12 I'm not sure. 13 Q. The case in 2003, did that involve a 14 patient undergoing gender affirmation surgery? 15 A. No. 16 Q. And the case in 2015, did that involve 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what
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 3 suit filed against you? 4 A. Yes. 5 Q. Okay. And did that well, first, 6 when was that suit filed? 7 A. I've had one probably in a case 8 from '03. I don't remember when it was filed. 9 It was dismissed. 10 I have an ongoing case from 2015. 11 The case may have been filed in '16 or '17. 12 I'm not sure. 13 Q. The case in 2003, did that involve a 14 patient undergoing gender affirmation surgery? 15 A. No. 16 Q. And the case in 2015, did that involve 17 a patient undergoing gender affirmation 18 surgery? 19 A. No. 20 Q. Now, looking at your report where 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what 17 I'm asking, in the last five years, has there 18 been a significant amount of gender 19 confirmation surgeries that you've performed 20 compared to earlier in your career?
 3 suit filed against you? A. Yes. Q. Okay. And did that well, first, when was that suit filed? A. I've had one probably in a case from '03. I don't remember when it was filed. It was dismissed. I have an ongoing case from 2015. The case may have been filed in '16 or '17. I'm not sure. Q. The case in 2003, did that involve a patient undergoing gender affirmation surgery? A. No. Q. And the case in 2015, did that involve a patient undergoing gender affirmation surgery? A. No. Q. Now, looking at your report where you're talking about your background, you 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what 17 I'm asking, in the last five years, has there 18 been a significant amount of gender 19 confirmation surgeries that you've performed 20 compared to earlier in your career? 21 A. No. The 1500 is a very conservative
 3 suit filed against you? A. Yes. Q. Okay. And did that well, first, when was that suit filed? A. I've had one probably in a case from '03. I don't remember when it was filed. It was dismissed. I have an ongoing case from 2015. The case may have been filed in '16 or '17. I'm not sure. Q. The case in 2003, did that involve a patient undergoing gender affirmation surgery? A. No. Q. And the case in 2015, did that involve a patient undergoing gender affirmation surgery? A. No. Q. Now, looking at your report where you're talking about your background, you state that there that you've performed over 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what 17 I'm asking, in the last five years, has there 18 been a significant amount of gender 19 confirmation surgeries that you've performed 20 compared to earlier in your career? 21 A. No. The 1500 is a very conservative 22 number.
 3 suit filed against you? A. Yes. Q. Okay. And did that well, first, when was that suit filed? A. I've had one probably in a case from '03. I don't remember when it was filed. It was dismissed. I have an ongoing case from 2015. The case may have been filed in '16 or '17. I'm not sure. Q. The case in 2003, did that involve a patient undergoing gender affirmation surgery? A. No. Q. And the case in 2015, did that involve a patient undergoing gender affirmation surgery? A. No. 	 3 as a physician, going on 28 or 29 years. Q. Okay. And I'm referencing Paragraph 7 5 of your initial report, and it says, "I have 6 been performing gender confirming surgeries 7 for more than 27 years." Is that an accurate 8 statement? 9 A. That is. 10 Q. Okay. And just looking at the math, 11 if you've done now you say over 1500, but 12 I'm using 1500 as a benchmark just so that I'm 13 being clear with you. 14 1500. But if you've done 150 15 procedures each year for the past five years, 16 that's half of the 1500 procedures. So what 17 I'm asking, in the last five years, has there 18 been a significant amount of gender 19 confirmation surgeries that you've performed 20 compared to earlier in your career? 21 A. No. The 1500 is a very conservative

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1 confirmation surgeries than you did in 2018?	1 A. Yes.
2 MS. HUPPERT: Object to form.	2 Q. In the year 2000, what percentage of
3 Q. Less than 2000?	3 your patients were transgender individuals
4 A. I was performing less.	4 seeking gender confirmation surgeries?
5 Q. Okay. And what about 2010 versus	5 MS. HUPPERT: Object to form.
6 2018? Which did you perform more gender	6 A. I would estimate probably on the order
7 confirmation surgeries?	7 of about 10 percent.
8 A. I would estimate around 2010, that	8 Q. And what do you attribute to either
9 number is closer to the number referenced in	9 the increased number of procedures that you're
10 my report.	10 performing or that people are coming to you
11 Q. Okay. So in 2010, were you also	11 specifically? What do you attribute to that
12 performing approximately 150 gender	12 change in your practice?
13 confirmation surgeries per year?	13 MS. HUPPERT: Object to form.
14 A. I don't recall the exact number, but	14 A. I'm sorry, can you rephrase?
15 close likely closer to the 150.	15 Q. Sure. Absolutely. So do you what
5	16 do you believe is the reason for the change in
16 Q. Okay. So during your career, from the	
17 time that you finished your training until	17 your practice from 10 percent of your patients
18 2010, there was an increase in the number of	18 being transgender individuals seeking gender
19 procedures that you performed and it's sort of	19 confirmation surgeries in the year 2000 to 90
20 been stable since that time.	20 percent of your patients being transgender
21 MS. HUPPERT: Object to form.	21 individuals seeking gender confirmation
A. I'm sorry, can you can you ask that	22 surgeries in the year 2022?
23 again?	23 MS. HUPPERT: Object to form.
24 Q. Sure. So from the point that you	A. Well, it's been a specific area of my
Page 22	Page 24
1 finished your training to 2010, there was an	1 practice and expertise.
2 increase in the number of procedures that you	2 Q. So over the last 20 years, you have
3 were performing annually, but since 2010, it's	3 developed a specific area of practice to the
4 somewhat stable.	4 point that you're now teaching in that area of
5 MS. HUPPERT: Object to form.	5 practice. Correct?
6 A. I can't say that it was specifically	6 A. That is correct.
7 2010 that that number increased.	7 Q. Okay.
8 Q. Okay. At what point did that number	8 A. And I was teaching in that area and
9 increase?	9 have been teaching in that area since 2000.
10 A. Well, there was an increase from 2000	10 Q. Okay. So in the year 2000, you were
11 there's been an increase since 2000	11 also teaching in the area of gender
	12 affirmation or gender confirmation surgeries?
13 A most likely every year.	13 A. Yes. I've had rotating plastic
14 Q. I'm sorry. I didn't mean to interrupt	14 surgery residents with me for virtually my
15 you. So has it been a gradual increase?	15 entire professional career, whether from
16 A. There was a gradual increase. I would	16 University of Chicago, University of Illinois,
17 estimate 2008 to 2010, the rate of increase	17 Loyola, Rush, general surgery residents from
18 increased.	18 the University of Illinois, medical students
19 Q. Okay. I think I understand. Okay.	19 from a variety of medical schools throughout
20 So your and Paragraph 7 of your report also	20 Chicago, as well as visiting students and
21 says currently 90 percent of the patients in	21 residents from across the country and visiting
22 your practice are transgender individuals	22 surgeons from all over the world.
23 seeking gender confirmation surgeries.	23 Q. And at that time, prior to beginning
24 Is that an accurate statement?	24 the program that you talked about starting in
	1 5 11

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	2017 at Weiss and moving over to Rush in 2019,		residency training certainly since I was a
	were in that period of 2000 to 2016, were	2	resident.
3	you providing instruction when patients came	3	Q. Could you do a residency solely in
4	in and you were performing those surgeries, or	4	your affirmation surgery prior to 2017?
5	was there a specific program that you were	5	MS. HUPPERT: Objection to form.
	providing education for gender affirmation	6	A. Gender affirmation surgery - depending
	surgeries?	7	on the procedure - is performed by different
8	MS. HUPPERT: Object to form.		specialties: Urology, plastic surgery,
9	A. It's been a part of my practice as an		gynecology, ear, nose and throat,
	attending since '99. So it's been a part of		otolaryngology. It's been a part of plastic
			surgery plastic surgery training and
	the instruction I provide in plastic surgery.		
12	Q. Okay. So it was a part of the general		education, based on my personal experience,
	education that you were providing to residents		since the '90s.
	when they rotated through your program, but	14	
	there wasn't a specific program dedicated to	15	
16	it.	16	
17	A. My practice gender affirmation	17	gender affirmation surgery only? Is that
18	surgery has been a component of my practice	18	something you could do in 2017 before 2017?
19	since '99.	19	MS. HUPPERT: Objection to form.
20	Q. You did not have a fellowship program	20	Asked and answered.
	devoted to gender affirmation surgeries until	21	A. We typically don't do residency
	2017. Is that a true statement?		programs in particular procedures. So for
23	A. The fellowship which began in 2017 was	1 C C C C C C C C C C C C C C C C C C C	example, I can't do a residency only in breast
1	dedicated to post-residency graduates in		reconstruction, although that's part and
24	dedicated to post-residency graduates in	27	reconstruction, although that's part and
	Page 26	4	Page 28
	plastic surgery. Prior to that, residents in		parcel of a plastic surgery residency.
	not only plastic surgery, but also urology,	2	So similar to procedures like
	general surgery, gynecology, family medicine		breast reconstruction or cleft lip, gender
	all rotated with me to gain exposure and		affirming surgeries were part of the standard
5	education in the field of gender confirming	5	training program in plastic surgery.
6	surgery.	6	Q. Okay. Recognizing that it was part of
7	Q. And all of those specialties that you	7	your or part of the standard rotation and
8	just mentioned - plastic surgery, urology,	8	it's something that they learned, it's not a
1	etc those all have dedicated residency		its own specific specialty. Is that
	programs. Correct?		correct?
11	A. Those were individuals who are in	11	A. Similar
	dedicated residency programs in the	12	
13	affirmation specialties who then rotated with	13	-
	•		lip, breast reconstruction, breast
15	Q. Was there a residency program in	15	
16	gender affirmation surgeries prior to 2017?	16	
		17	training.
17	MS. HUPPERT: Objection to form.		
17 18	A. Gender affirmation surgery under a	18	
17 18	A. Gender affirmation surgery under a variety of different names has been part of	19	its own specific residency, but it is
17 18	A. Gender affirmation surgery under a		its own specific residency, but it is
17 18 19	A. Gender affirmation surgery under a variety of different names has been part of	19 20	its own specific residency, but it is
17 18 19 20 21	A. Gender affirmation surgery under a variety of different names has been part of plastic surgery training as it was for me, not only plastic surgery, but part of my under	19 20	its own specific residency, but it is similar to other procedures, it is a part of the training that individuals receive in a
17 18 19 20 21 22	A. Gender affirmation surgery under a variety of different names has been part of plastic surgery training as it was for me, not only plastic surgery, but part of my undermy medical education, my doctor of medicine	19 20 21 22	its own specific residency, but it is similar to other procedures, it is a part of the training that individuals receive in a plastic surgery residency?
17 18 19 20 21 22	A. Gender affirmation surgery under a variety of different names has been part of plastic surgery training as it was for me, not only plastic surgery, but part of my under	19 20 21	its own specific residency, but it is similar to other procedures, it is a part of the training that individuals receive in a plastic surgery residency? MS. HUPPERT: Objection to form.

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1 other procedures performed within plastic	1 patient's third party coverage.
2 surgery.	2 Q. Do you accept Medicaid for your
3 Q. I mean, I can keep going all day.	3 procedures?
4 It's just a simple question. Is there a	4 A. Yes.
5 specific residency program that focuses only	5 Q. When did you begin accepting Medicaid?
6 on gender affirming surgeries?	6 A. Illinois the State of Illinois
7 MS. HUPPERT: Objection to form.	7 began covering it perhaps within the last two
8 A. As with other procedures such as cleft	8 to three years. And prior to that, our office
9 lip, cleft palate, breast reconstruction,	9 would often work out single case agreements,
10 mastectomy, lower extremity reconstruction,	10 whether between Illinois or neighboring
11 it's part and parcel of the plastic surgery	11 states.
12 training program included in the core	12 Q. And tell me what you mean when you say
13 curriculum, tested on the written boards and	13 "single case agreements."
14 tested on the oral board.	14 A. So if an insured's company doesn't
15 Q. So can you just you're not going to	15 necessarily have a provider who's able to
16 answer that question?	16 perform them but the procedure is covered,
17 MS. HUPPERT: Objection.	17 they may have a con an individual contract
18 A. I believe I did.	18 - in this case with me or my office or my
19 Q. It's I'm fine with you providing an	19 employer - to cover the procedure.
20 explanation. I just want an answer to the	20 Q. In the case of Illinois Medicaid prior
21 question. Is there a specific residency	21 to 2020 - which at least by my research is
22 program for gender affirming surgeries?	22 when they started covering these procedures -
23 MS. HUPPERT: Objection.	23 did you ever perform a procedure on an
24 Counsel, Doctor Schechter's answered your	24 Illinois Medicaid beneficiary for gender
Page 30	Page 32
1 question.	1 confirming surgery and they ended up paying
2 MR. DAVID: He hasn't.	2 for it?
3 MS. HUPPERT: He has.	3 A. It is possible, but I'd have to I'd
4 A. It is consistent with other procedures	4 have to check records to give a definitive
5 I just discussed.	5 answer.
6 Q. Okay. All right. Well, we'll talk to	6 Q. And again, understanding that you're
	7 not certain about the answer, if that
7 the judge about that.	8 happened, would that have been done under a
8 Okay. So anyway, you have stated	
9 that you have a practice that includes 90	9 single case agreement?
10 percent of patients who are transgender	10 MS. HUPPERT: Objection to form.
11 individuals seeking gender confirmation	11 A. Possible, but again, I'd have to check
12 surgeries, correct?	12 with the records to get a definitive answer.
13 A. Approximately 90 percent of my	13 Q. Are you aware that the Illinois
14 practice involves gender affirming or gender	14 licensure website for the Board of Medicine
15 confirming surgery, yes.	15 states that you do not accept Medicaid
16 Q. Okay. And what percentage of your	16 patients?
17 patient population resides in the State of	17 A. No.
18 Illinois?	18 Q. Okay. And it also states that you do
19 A. I would estimate 50 percent. That may	19 not accept patients through the All Kids
20 be plus or minus a bit.	20 program? Is that accurate?
21 Q. And what percentage of your patient	A. That, I don't know. But I do know we
22 population is Medicaid beneficiaries?	22 accept Medicaid.
Zo A. That I can t answer. The bill is	23 Q. Okay. So let Stalk a little bit libre
A. That, I can't answer. The bill is24 I don't have specific knowledge to each	Q. Okay. So let's talk a little bit moreabout your practice. In addition to the 90

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 Page 33 1 percent of patients that you're seeing for 2 gender affirming surgeries, you're also seeing 3 patients for Botox, correct? 4 A. I do, although less so for Botox. 5 Injectables isn't a major part of my practice. 6 Q. Okay. And you have patients who 7 receive JUVEDERM? 8 A. Again, that's an injectable, which 9 isn't a major part of my practice. But on 10 occasion, I do inject. 11 Q. Okay. Chemical peels? 12 A. Similar. Not a significant portion of 13 my practice any longer. 14 Q. Liposuction? 15 A. Yes. 16 Q. Fat injections? 17 A. Yes. 18 Q. Dermabrasion? 19 A. Similar to the injectables and 20 chemical peel. And those procedures - for 	1 for facial wrinkles or medical conditions.
 21 example, liposuction, lipofilling which is 22 also known as fat grafting - are also 23 performed for transgender individuals. 24 Q. Now, do I understand it's not a 	 21 Q. Yes. 22 A. If you'd show me that, I'd like to see 23 that. 24 Q. Okay. Are chemical peels covered by
 1 large portion of your practice, but do you 2 perform Botox injections for facial wrinkles? 3 A. Yes. 4 Q. Okay. And what percentage of your 5 patients being treated with Botox injections 6 for facial wrinkles are Medicaid 7 beneficiaries? 8 A. I wouldn't I wouldn't know that 9 answer. 10 Q. If that is Botox injections for 11 facial wrinkles something that is reimbursable 12 under Medicaid? 13 A. I would say it would likely depend 14 upon the reason that was being conducted. If 15 someone had a medical condition for which 16 Botox would be a treatment, then it could be 17 covered. 18 I can't speak specific to the 19 coverage - for example, of Illinois Medicaid - 20 but to third party coverage in general. 21 Q. And my question was specific to facial 23 wrinkles. Is that covered by any insurance? 24 A. Facial wrinkles Botox may be used 	 1 Illinois Medicaid? A. Chemical peels, again, can be used for reconstructive or aesthetic reasons, and once again, similar, for example, to procedures we perform in gender affirming surgery and when performed on the basis of a medical condition, can be covered and often are covered by third party payers. Q. Under what circumstances are chemical peels covered by third party payers? A. There can be situations such as scarring, post-traumatic scarring, for example. Q. And what about laser resurfacing, is that something that is covered by Illinois Medicaid? A. A similar answer to the previous questions. It's not the procedure itself that dictates necessarily what's covered; it's the basis upon which the procedure is performed. We often have, as plastic surgeons, a variety of tools in our parliamentarium, so to speak, and we apply those tools to a variety of clinical conditions.

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 2 you treated with chemical peels? 3 A. Facial scarring. So there may be 4 scarring related to prior traumatic events. 5 Q. And that facial scarring is cosmetic, 6 correct? 7 MS. HUPPERT: Objection to form. 8 A. No, once again, scarring can be the 9 result of trauma, so when performed, again, 10 based on for the reason it depends on 11 the reason for which it's performed. 12 If it's performed, for example, 13 to treat a traumatic condition, then face 14 then chemical peel, laser resurfacing, may be 15 reimbursable by third parties. 16 Q. Okay. What percentage of your 17 patients receiving Botox injections for facial 18 wrinkles have their expenses for those 19 procedures reimbursed by a third party payer? 20 A. I'm sorry, for Botox? 	 A. The we have had dermabrasion for acne scarring - we call ice pick scarring - covered by third party payers. Q. And did you make a determination at that time that the dermabrasion for ice pick scarring was a medically necessary procedure? A. If it was covered by a third party payer, I would have likely written both. Whether or not it was covered by the third party payer, I may have I may have written a letter to the insurer indicating or discussing the medical necessity. Q. And do you believe that dermabrasion for ice pick scarring for acne is a medically necessary procedure? A. It would depend on the individual circumstances. Q. And under what circumstance would that be medically necessary? MS. HUPPERT: Objection to form. A. I would have to have an individual case, but it could affect both form and
21 Q. For Botox injections for facial	A. I would have to have an individual22 case, but it could affect both form and
	22 case, but it could affect both form and
23 A. Less than 10 to 15 percent. 2	 23 function for the individual. 24 Q. So when you're talking about this ice
 A. Yes, probably less than 10 percent. Q. And what about the percentage for chemical peels? A. I would say probably less than 30 probably about a third or so. Q. Okay. Same question for laser resurfacing. A. I no longer do laser resurfacing myself. Q. Okay. Dermabrasion? A. Again, probably about a third. And dermabrasion may be conditions like rinophyma, traumatic scarring, ice pick scarring from acne, for example. Q. So the so dermabrasion for acne scarring is something that is reimbursable? A. It would depend on the insurer. Q. And does that and this is going to end up jumping ahead a little bit. But does that mean that some of those insurers are 	 1 pick scarring, you're talking about facial 2 scarring? 3 A. I'm talking about scarring well, it 4 could occur elsewhere in the body, not 5 necessarily and not only the face. 6 Q. Okay. Is it most prominent on the 7 face? 8 A. As far as I've treated it, it would be 9 most likely on the face, although it can be 10 used in other body in other anatomic 11 locations. 12 Q. Okay. And you have seen ice pick 13 scarring from acne that was severe enough to 14 affect the form and function of the 15 individual? 16 A. Yes. 17 Q. Okay. And in what way did it affect 18 the form and functioning of the individual? 19 A. It could distort facial features. It 20 could lead to disfigurement. Part of the 21 function of the face is to look like a face. 22 So if it causes distress, then it's possible

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WILLIAM CROUCH, ET AL	03/28/2022
 Page 41 Q. Okay. So you're I'm trying to make sure that I understand this entirely. If the facial scarring is severe enough that it distorts facial features or can be considered a disfigurement or causes distress, then dermabrasion could be medically necessary to correct that. MS. HUPPERT: Objection to form. A. Dermabrasion can be considered medically necessary. As to individual circumstances, I'd have to see and evaluate the case. Q. And I'm trying to understand whether it's the is it the distress that is caused to the individual that would make the procedure medically necessary? A. Again, it would depend upon the particular case, the extent of the scarring, where it was located, the impact on the 	 Page 43 1 significant mental or emotional distress for 2 it to be medically necessary? 3 MS. HUPPERT: Objection to form. 4 A. I'm sorry, can you repeat that? 5 Q. Sure. So in the case of an individual 6 that has distortion of the eyelid that is in 7 appearance only and not in function, would it 8 require the patient to experience significant 9 mental or emotional distress for dermabrasion 10 to be medically necessary? 11 MS. HUPPERT: Objection to form. 12 A. It would depend upon not only the 13 particulars of the case, but the ability of 14 that person, for example, to interact within 15 society not feeling stigmatized or ostracized. 16 So for example, in a burn case 17 where there's substantial scarring and the 18 individual is inhibited from interacting 19 normally in society, whether chemical peel,
20 individual.	20 dermabrasion or scar revision, all of which
 21 Q. All right. Can you describe for me a 22 circumstance where that would be significant 23 enough to be medically necessary? 24 MS. HUPPERT: Objection to form. 	 21 could be considered medically necessary. 22 Q. So in the case of someone who has ice 23 pick scarring to the eyelid as a result of 24 acne and it is in appearance only - does not
 Page 42 A. Yes. Q. Please do. A. If the scarring caused pain, distortion of the eyelid, for example, or other functional implications other functional reasons, it could be considered medically necessary. Q. So when you talk about distortion of the eyelid, you're meaning if it is something that actually affects the eyelid from functioning the way that it was designed to do. A. It may be either form or function. Q. So when you say "form or function," you mean formed is that in reference to appearance? A. Yes. Q. Okay. And appearance alone, without the effect on function, that would be sufficient to make it medically necessary? A. It would depend, again, on the particular case. Q. Okay. And in that particular case, would it be required that the patient have 	 Page 44 1 affect the function of the eyelid - it can still be medically necessary for that patient to undergo microderm excuse me, dermabrasion, if the ability of the person to operate within society is affected. MS. HUPPERT: Objection. A. One would not THE DEPONENT: I'm sorry. A. One would not typically have ice pick scarring to the eyelid; it would be or could be a case into the eyelid. Q. So in the case of someone who has ice pick scarring adjacent to the eyelid that does not affect the function of the eyelid, that person could be medically it could be medically necessary for that person to undergo dermabrasion if it affects their ability to operate within society. MS. HUPPERT: Objection to form. A. So part of the function of a face is to look like a face. And conditions that interfere with that and then require medical and surgical interventions or medical

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	LIAM CROUCH, ET AL	03/28/2022
1	Page 45 Necessary.	Page 47 1 also may receive coverage for medical
2	Q. Okay. At what point is a facial scar	2 intervention.
	so significant that it requires medical	3 Q. So specific to a facial mole, is
	intervention?	4 alleviating distress caused by the stigma from
5	A. I would have to see a specific case.	5 society a reason for medical necessity for
6	Q. What about if someone has a	6 removal of the mole?
	nonmalignant mole that they believe causes a	7 A. Again, it would depend on the
	stigma? Would that be medically necessary to	8 characteristics of that mole.
	remove that mole?	9 Q. And as we discussed, you biopsied it
10	A. I wouldn't know that it was	10 and I let's I'll try to rephrase
		11 this.
11	necessarily nonmalignant if it wasn't	12 Is the alleviation of distress
	biopsied.	
13		13 caused by the stigma of society alone - that
	nonmalignant mole - but it causes someone	14 alone - a reason for medical necessity for
	distress because they have a stigma in	15 removal?
	society; they get made fun of because they	16 A. I would have to know more than where
	have that mole and it causes them distress -	17 it's located - the size and so forth - to be
	is it medically necessary to remove that mole?	18 able to answer that question. The biopsy
19	MS. HUPPERT: Objection.	19 result.
20		20 Q. Okay. And again, my question is:
	because I wouldn't be able to know if it was	21 This specific circumstance is a nonmalignant
	nonmalignant if it wasn't biopsied.	22 mole that is not progressing, that is not
23		23 bleeding, that there is no other reason except
24	determined to be nonmalignant, is it medically	24 for the alleviation of distress to remove this
	Page 46	Page 48
1		
	necessary to remove that mole?	1 mole. Is that sufficient for medical
2	MS. HUPPERT: Objection to form.	2 necessity?
2 3	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific	2 necessity?3 MS. HUPPERT: Object to form.
2 3 4	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical
2 3 4 5	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete
2 3 4 5 6	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy
2 3 4 5 6 7	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole?	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress.
2 3 4 5 6 7 8	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific
2 3 4 5 6 7 8 9	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information.
2 3 4 5 6 7 8 9 10	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of
2 3 4 5 6 7 8 9 10 11	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances?	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that
2 3 4 5 6 7 8 9 10	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it
2 3 4 5 6 7 8 9 10 11	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances?	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating
2 3 4 5 6 7 8 9 10 11 12 13	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it
2 3 4 5 6 7 8 9 10 11 12 13	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching,	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole?
2 3 4 5 6 7 8 9 10 11 12 13 14	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not an exhaustive list.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not an exhaustive list. Q. Okay. Does an exhaustive list include	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form. 17 A. Moles may be removed for a variety of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not an exhaustive list. Q. Okay. Does an exhaustive list include for the alleviation of stigma from society? MS. HUPPERT: Objection to form.	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form. 17 A. Moles may be removed for a variety of 18 reasons, and the reason you stated may be one 19 of those reasons.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not an exhaustive list. Q. Okay. Does an exhaustive list include for the alleviation of stigma from society? MS. HUPPERT: Objection to form. A. Yes, it can. So there may be people	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form. 17 A. Moles may be removed for a variety of 18 reasons, and the reason you stated may be one 19 of those reasons.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not an exhaustive list. Q. Okay. Does an exhaustive list include for the alleviation of stigma from society? MS. HUPPERT: Objection to form. A. Yes, it can. So there may be people born with Port-wine stains who undergo	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form. 17 A. Moles may be removed for a variety of 18 reasons, and the reason you stated may be one 19 of those reasons. 20 Q. And my question was: Can you point me
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. HUPPERT: Objection to form. A. Again, it would depend on the specific circumstances. Q. Under what specific circumstances would it be medically necessary to remove that mole? MS. HUPPERT: Objection to form. A. A potential for malignant degeneration. Q. Any other circumstances? MS. HUPPERT: Objection to form. A. Potential for progression: For example, increase in size, bleeding, itching, ulceration. Those would be some, probably not an exhaustive list. Q. Okay. Does an exhaustive list include for the alleviation of stigma from society? MS. HUPPERT: Objection to form. A. Yes, it can. So there may be people born with Port-wine stains who undergo	 2 necessity? 3 MS. HUPPERT: Object to form. 4 A. Again, you're asking a medical 5 condition that isn't necessarily a complete 6 hypothetical. I don't know the biopsy 7 results. I don't know that it won't progress. 8 So I can't answer it without more specific 9 information. 10 Q. Can you point me to any piece of 11 medical literature that will tell me that 12 removal of a mole is medically necessary if it 13 is done solely for the purpose of alleviating 14 stress from society's stigma against that 15 mole? 16 MS. HUPPERT: Object to form. 17 A. Moles may be removed for a variety of 18 reasons, and the reason you stated may be one 19 of those reasons. 20 Q. And my question was: Can you point me 21 to any medical literature that would support

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1 that mole?	 MS. HUPPERT: Objection to form. Asked and answered.
2 MS. HUPPERT: Object to form.	3 A. Again, the typical discussion
3 A. That may be considered medically	
4 necessary by the physician, depending on the	
5 characteristics of the mole.	5 not it's medically necessary, but rather the
6 Q. And my question again was: Can you	 6 indication, the medical indication. 7 Q. Okay. So the answer is you are not
7 point me to any medical literature?	
8 MS. HUPPERT: Object to form.	8 able to name a single source of any medical
9 A. Most medical literature doesn't	9 literature that would support the removal of a
10 discuss third party coverage of lesions. We	10 mole to alleviate the distress caused by
11 perform procedures based on the medical	11 stigma of that mole.
12 conditions. There's always there is an	12 MS. HUPPERT: Objection to form.
13 indication for any procedure that we perform.	13 Asked and answered. Mischaracterizing the
14 Medical literature typically	14 testimony.
15 doesn't list which procedures are medically	15 A. The answer is that medical literature
16 necessary or I should say medical	16 typically focuses on the medical indications.
17 literature, the focus of medical literature,	17 The medical necessity would depend upon the
18 may not be under the medical necessity for the	18 particulars of the case.
19 procedure but on the indications for the	19 Q. Okay. Please list all the medical
20 procedure.	20 literature that you are aware of that states
21 Q. And again, can you point me to any	21 that it is medically necessary to remove a
22 medical literature that would state that if	22 mole to alleviate distress caused by stigma of
23 the sole indication for the procedure is to	23 that mole.
24 alleviate distress from stigma, that it is	24 MS. HUPPERT: Objection to form.
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1 medically necessary to remove a mole?	1 Asked and answered.
2 MS. HUPPERT: Objection to form,	2 A. Once again, similar to other
3 asked and answered.	3 procedures, the focus is on typically
4 A. Again, as with many procedures, the	4 indications for removal of the procedure. The
5 medical necessity of a particular procedure	5 medical necessity of any case depends upon the
6 will depend upon the specifics of the case.	6 judgment of the physician in their interaction
7 Q. So please go ahead and point me to the	7 with the individuals seeking treatment.
8 medical literature that would support that.	8 Q. And how many pieces of medical
9 MS. HUPPERT: Objection to form,	9 literature how many articles did you just
10 asked and answered.	10 list?
11 A. Again, consistent with many medical	11 MS. HUPPERT: Object to form.
12 procedures, the medical necessity would depend	12 A. In reference to?
13 upon the specifics of the case.	13 Q. How many in response to my last
14 Q. Okay. What is the universe of	14 question, how many articles did you list?
15 literature that you're aware of that discusses	15 MS. HUPPERT: Object to form.
16 the medical necessity of mole removal?	16 A. And your last question was what?
17 MS. HUPPERT: Objection to form.	17 Q. To I asked you to please list all
18 A. Medical textbooks, surgical textbooks,	18 of the medical literature that would support
19 in terms of literature. Journals,	19 the removal of a mole for the sole purpose of
20 communications with colleagues, conferences,	20 alleviating distress caused by stigma.
21 teaching seminars.	21 MS. HUPPERT: Object to the form.
22 Q. And can you name any that are specific	22 Asked and answered.
23 to the removal of moles to alleviate distress	A. Once again, medical literature
24 caused by the stigma of the mole?	24 discusses typically indications. The focus

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LOREN S. SCHECHTER, MD 03/28/2022

WIL	LIAM CROUCH, ET AL		03/28/2022
1	Page 53 the decision of medical necessity depends upon	1	Page 55 and answered.
	the individual circumstances of a case.	2	
3		2	A. I am a licensed physician and surgeon
1	Q. Okay. And so in response to my	3	with board certification in plastic surgery.
	question that asked you to list articles, how	4	Q. Are you a psychiatrist?
	many articles did you list?	5	MS. HUPPERT: Objection.
6	A. Once again, medical necessity depends	6	A. No.
	upon the specifics of the case and it is a	7	Q. Are you a psychologist?
8	determination between the physician and the	8	A. No.
9	individual seeking care.	9	Q. Did you complete a residency in
10	Q. Okay. So my question is: How many	10	
11	articles did you list?	11	A. No.
12	MS. HUPPERT: Object to form.	12	Q. Did you complete a residency in
13	Asked and answered.	13	
14	A. Once again, the determination of	14	
	medical necessity depends upon the specifics	15	
	of a case. And without much more specifics, I	16	
	can't answer that hypothetical.	17	
18	Q. Okay. Well, that wasn't a	18	
	hypothetical. It was "How many." So how	10	
	many, is the question - the number - how many		
		20	
22	did you list?	21	0,
	MS. HUPPERT: Object to form.		specialty training and who are child and
	Asked and answered.		adolescent psychologists.
24	A. You're referencing a case, or a	24	Q. Do you yourself have that training?
	Page 54		Page 50
	clinical situation, without providing complete	1	A. I'm sorry, which training?
	information.	2	Q. The training in child and adolescent
3	Q. I did provide what additional do		development psychology.
	you need when I say the sole purpose, the only	4	A. Well, as part of medical school, child
	purpose, the singular purpose, is to alleviate		and adolescent development is part of medical
	distress caused by stigma related to that		school curriculum. I am not boarded in child
	mole. What additional information do you		and adolescent psychiatry.
8	need?	8	Q. My question was: Do you have training
9	MS. HUPPERT: Sorry for	9	in child and adolescent developmental
10	interrupting. Object to form.	10	psychology?
11	A. I would need to see the biopsy result;	11	A. Well, child and adolescent
12	I'd need to see the location, the size and the	12	development, including psychology, is part of
	specific characteristics, as well as the	13	
	impact on the individual.	14	Q. Okay. So other than your courses in
15	Q. Okay. Knowing that you're not going	15	medical school, you have no additional
	to answer that question, we'll move on. Do	16	training in child and adolescent developmental
	you diagnose gender dysphoria?	17	psychology. Is that a true statement?
18	A. I do not.	18	A. While I am not a child and adolescent
19	Q. Okay. And you are not a mental health	19	psychologist, I do work with and attend
	professional; is that correct?	20	lectures, seminars, educational events
21	·		
21 22	A. I'm a plastic surgeon.	21	involving children and adolescent psychology
	Q. And you are not a mental health	22	and psychiatry.
	profossional is that same at?	22	
	professional; is that correct? MS. HUPPERT: Objection. Asked	23	Q. Do you consider yourself to be trained and professionally competent in using the

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Page 57 1 American Psychiatric Association's DSM-V to	Page 59 1 A. So I'm under an NDA for some of those.
2 make child and adolescent mental illness	2 Q. Are there some that you're not under an NDA
3 diagnoses?	3 for?
4 MS. HUPPERT: Object to form.	4 A. I believe the specific insurance companies,
5 A. That is not part of my clinical	5 I'm under an NDA, all the specific insurance
6 practice.	6 companies. In a more general sense, through my
7 Q. And same question for adults. Do you	7 work through the Global Education Institute at
8 consider yourself to be professionally	8 WPATH, we've been involved with educational events
9 competent and trained at using the DSM-V for	9 through the State of through the State of
10 adult psychological or psychiatric diagnoses?	10 California and a number of insurance providers.
11 MS. HUPPERT: Object to form.	11 Q. So are you able to testify without
12 A. That is not part of my clinical area.	12 violating an NDA as to any specific insurance
13 Q. Okay. And when you say it is not part	13 company that you are assisting with developing
14 of your clinical area, you mean you are not	14 coverage guidelines?
15 professionally competent to make those	15 A. I don't believe so outside of the general
16 diagnoses. Correct?	16 statement that through my work at WPATH and the
17 A. It means that, once again, that while	17 Global Education Institute, we're working with
18 I'm not a either a child or adult	18 between 30 to 40 insurance carriers within the
19 psychologist or psychiatrist, I do work with	19 State of California.
20 professionals in that field; I do attend and	20 Q. Are you working with any insurance carriers
21 participate in educational seminars with those	21 in the State of West Virginia?
22 individuals; I write literature with those	22 A. Not to my knowledge. But I would say I
23 individuals.	23 can't necessarily speak to all the various
24 I do not practice either child	24 arrangements an insurance company would have or
Page 58 1 and adolescent psychology or psychiatry or adult	Page 60 1 practice in which state.
2 psychology or psychiatry.	2 Q. Do you hold yourself out to be an expert in
3 Q. And you don't make diagnoses in adult or	3 the requirement of what must be covered under the
4 child psychology.	4 Affordable Care Act?
5 MS. HUPPERT: Objection to form.	5 A. As a practicing physician on a day-to-day
6 A. I do not make diagnoses in those areas.	6 basis, I address issues related to insurance
7 Q. Do you have any training in development of	7 coverage, whether approvals of coverage, denials of
8 health insurance guidelines?	8 coverage, appeals, peer reviews, etc.
9 A. I have training in guideline development,	9 Whether they're specific or not to the
10 which are used by insurance companies. And I've	10 Affordable Care Act would depend on the carrier.
11 worked with various insurance companies to help	11 Q. And I'm simply trying to find out if you
12 develop guidelines.	12 are going to testify in this case that you have
13 Q. Have you performed any research relating to	13 reviewed the specific provisions of the Affordable
14 what must and must not be covered by health	14 Care Act that you believe are applicable and you're
15 insurers?	15 going to say that West Virginia law violates the
16 A. I typically my involvement is typically	16 Affordable Care Act.
17 along the lines of helping them to develop coverage	17 Is that something that you're going to
18 policies, not research I would say my	18 testify to in this case?
19 involvement is helping develop coverage coverage	19 MS. HUPPERT: Objection to form.
20 policies.	20 A. So my testimony is related to the
21 And there is research involved with	21 categorical exclusion in the various cases. I do
22 that.	22 have knowledge, as a practicing physician - both in
23 Q. What insurance companies have you worked	23 my clinical work as well as administrative work -
24 with to develop coverage policies?	24 in issues pertaining to insurance coverage, denials

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

	M CROUCH, ET AL		03/28/202
1 200	Page 61 d appeals.	1	Page MS. HUPPERT: Objection to form.
	Q. So for this case, have you specifically	2	A. I do not.
	bked at provisions of the Affordable Care Act to	3	Q. Okay. Do you know whether West Virginia
	termine whether West Virginia's West Virginia		Medicaid covers hormone therapy for individuals wh
	edicaid's policy violates those provisions?		are transgender?
		6	MS. HUPPERT: Objection to form.
6	MS. HUPPERT: Objection to form.	7	Object to form, excuse me.
	A. I have not looked at the Affordable Care	8	A. I do not.
	t specific to this case. I have looked at the		
	ordable Care Act and have written about the	9	Q. And have you reviewed the specific what you're calling a categorical exclusion within West
10 Απ 11	fordable Care Act and gender affirming surgery. Q. Okay. And what publications do you have		Virginia Medicaid's policy?
	garding the Affordable Care Act and gender	12	
-	firming surgery?		Virginia Medicaid policy.
13 an 14	A. There is a publication that I believe	14	
	s been out already in the Journal of Plastic and		categorical exclusion as to gender affirming
	econstructive Surgery. It should be on my CV, so		surgeries.
		17	
	you had it, I can direct you to it.		as "sex transformation" or something along those
18	It's possible it's in print, but I		lines.
	elieve it's been published.	20	
20	Q. We'll come back to that later.		- · · · · · · · · · · · · · · · · · · ·
21	MR. DAVID: We've been going for a		West Virginia Medicaid's policy has a categorical
	tle over an hour. Does anyone want to take a		exclusion on the category of gender affirming
	re-minute break?		surgery.
24	MS. HUPPERT: I'm happy to go with	24	A. In my review and again, I'll use the
4 5 6 BY 7 (8 talk 9 the 10 firs 11 12 affi 13 ser 14 15 Me 16 for 17 18 ger 19 is a 20 ter	 THE DEPONENT: Sure. Let me just make juick rest stop and then come back. (A recess was taken after which the proceedings continued as follows:) TMR. DAVID: Q. Doctor, before we took a break, we were king specifically about insurance, and you used a term "categorical exclusion." And I wanted to est ask you what that means by you. A. The denial - in my case - of the gender firming services, the across-the-board denial of ervices. Q. And do you believe that West Virginia edicaid has a categorical exclusion for treatment r gender dysphoria? A. I'm looking at it from the perspective of ender affirming surgery, and I believe that there a exclusion for - although I don't believe the rm "gender affirming surgery" is used; a fferent term is used - for gender affirming 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	organization's specific health plans? A. I believe these were three Medicaid policies that may have been in conjunction with other carriers for example, Aetna, and two others. Q. So you reviewed was it Aetna, the health plan I'm forgetting the other one right now. But you had reviewed them and they appeared to b and we'll talk about the Aetna one specifically. But there appeared to be a document that was jointly prepared by Medicaid and Aetna, o
19 is a 20 tern 21 diff 22 sur 23	a exclusion for - although I don't believe the rm "gender affirming surgery" is used; a	19 20 21 22	and we'll talk about the Aetna one spe But there appeared to be a docu that was jointly prepared by Medicaid ar a document that was prepared by Aetna Medicaid guidelines?

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LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
Page 65 1 A. I can't speak to how it was prepared. It	Page 67 1 individuals.
2 came to me simply as, I believe, Medicaid/Aetna.	2 Q. Okay. What if a cisgender individual
3 So I don't know who is responsible for the	3 wanted one of those procedures?
4 preparation.	4 A. Which procedure?
5 Q. And do you recall what the language was in	5 Q. A we'll do a top surgery. What if a 6 cisgender individual requested a top surgery from
 6 the Aetna/Medicaid document that you reviewed? 7 A. I recall a term "sex transformation." 	7 requested prior approval for coverage for a top
8 Again, I believe that was the term. It may have	 8 surgery from West Virginia Medicaid? 9 MS. HUPPERT: Object to form.
9 been a different or similar term. And I believe	
10 that there was an exclusion or that those	10 A. And again, I would need to know more about
11 procedures were not covered by by that plan.	11 the situation. "Top surgery" meaning
12 Q. And when you read that, what specific	12 Q. A we'll say a double mastectomy.
13 procedures did you believe that meant were not	13 MS. HUPPERT: Object to form.
14 covered?	14 A. Cisgender individuals may undergo double
15 MS. HUPPERT: Objection to form.	15 mastectomies for a variety of indications: A
16 A. I believe, as I said, the term was "sex	16 predisposition, for example, to breast cancer. So
17 transformation." I'll use a more appropriate term	17 an individual, cisgender woman - or for that
18 of "gender affirming" or "gender confirming"	18 matter, a cisgender man - may have a genetic
19 surgeries.	19 predisposition, a strong family history.
20 Those are typically a constellation of	20 Mastectomy may be one of the treatment
21 procedures that include top surgery, so typically	21 options open to them.
22 chest or breast, genital surgeries, in addition to,	22 Q. And is there anything that you reviewed
23 for example, a hysterectomy, oophorectomy,	23 that would suggest to you that in those same
24 orchiectomy.	24 situations for transgender individuals, that those
Page 66	Page 68
1 Q. And when you reviewed that policy, did you	1 coverages are not available to them?
2 believe that those procedures were entirely	2 MS. HUPPERT: Object to form.
3 excluded or excuse me, or not covered for	3 A. So again, the sex transformation again,
4 transgender patients or for people with gender	4 I apologize. I don't like that particular term,
5 dysphoria?	5 but we'll use, I believe, what's in it. Sex
6 MS. HUPPERT: Objection to form?	6 transformation would only be performed for a
7 A. So it would typically only be transgender	7 transgender individual.
8 individuals who would seek to access those	8 A cisgender individual at least I
9 interventions.	9 haven't had that experience in my practice, to seek
10 Q. Well, for instance, in your report, you	10 a, quote, sex transformation procedure.
11 frequently mention that individuals with breast	11 Q. Are you aware of West Virginia Medicaid
12 cancer receive double mastectomy. That's a common	12 denying coverage for a double mastectomy for
13 occurrence for an individual with cancer, correct?	13 someone with cancer because they are transgender?
A. That can be, yes, one of the options, as	14 MS. HUPPERT: Objection to form.
15 there may be others.	15 A. Again, my issue is the exclusion or the
16 Q. Did you see anything in any of the	16 lack of coverage for sex transformation procedures,
17 insurance policies that you reviewed that said if a	17 which again, are only performed on transgender
18 individual has breast cancer and a double	18 individuals.
19 mastectomy is the procedure that is recommended,	19 Q. So I can ask the question again. Are you
20 that the transgendered individual cannot undergo	20 aware of West Virginia Medicaid denying coverage to
21 that procedure, it's not covered?	21 an individual with cancer, noncoverage for a double
22 MS. HUPPERT: Objection to form.	22 mastectomy, for an individual with cancer because
23 A. So again, I'm sex transformation	23 they are transgender?
24 procedures would only be done for transgender	24 MS. HUPPERT: Object to form.

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IAM CROUCH, ET AL	03/28/2022
Page 6	
A. So I wasn't asked to review the document	1 individuals. Only for transgender individuals
or cancer coverage or oncologic services. I'm	2 would a sex transformation procedure be performed.
poking at the exclusion for sex transformation,	3 Q. So are you aware of any language anywhere
which again is only performed on transgender	4 in the Medicaid policies which you reviewed that
ndividuals.	5 says that coverage is denied to someone on the
Q. So the answer is no, you are not aware of	6 basis of them being transgendered?
hat situation occurring.	7 A. Again, sex transformation is only I
MS. HUPPERT: Objection to form.	8 apologize, it's just not a comfortable term for me.
A. No, the answer is: I didn't review the	9 But a sex transformation is not performed or is
documents specific to oncologic services.	10 only performed, excuse me, on a transgender person.
Q. Okay. Please list all individuals you are	11 Q. So can you point me to language in the Wes
aware of who were denied coverage for a double	12 Virginia Medicaid policy that says transgender
mastectomy when they had a diagnosis of cancer	13 people are not entitled to coverage?
because they are transgender.	14 MS. HUPPERT: Objection to form.
MS. HUPPERT: Objection to form.	15 A. Sex again, sex transformation is only
Asked and answered.	16 performed in transgender individuals.
A. Again, my focus was on the exclusion of sex	17 Q. Okay. So where in the Medicaid policy does
ransformation procedures which are only performed	18 it say that transgender individuals are not
upon individuals who are transgender.	19 entitled to Medicaid coverage?
Q. And so therefore you did not review or	20 MS. HUPPERT: Objection to form.
determine whether transgender individuals have bee	
denied coverage for double mastectomy for cancer	22 transgender individuals.
diagnosis.	23 Q. So if I pull up the Medicaid policies, are
MS. HUPPERT: Object to form.	24 you going to be able to show me where it says that
Page 7 A. My review was for the exclusion of sex	⁷⁰ Page 72 1 transgender individuals are not entitled to
ransformation, which is only performed on	2 Medicaid coverage?
ransgender individuals.	
Q. Why is it only performed on transgender	
Q. Willy is it only performed on transgender	3 MS. HUPPERT: Objection to form.
	4 A. If it's one of the policies I reviewed, I
ndividuals?	A. If it's one of the policies I reviewed, I5 can show you where sex transformation - again, I
ndividuals? MS. HUPPERT: Objection to form.	 A. If it's one of the policies I reviewed, I 5 can show you where sex transformation - again, I 6 believe that was the language - is excluded. And
ndividuals? MS. HUPPERT: Objection to form. A. Cisgender individuals do not typically seek	 A. If it's one of the policies I reviewed, I 5 can show you where sex transformation - again, I 6 believe that was the language - is excluded. And 7 that applies only to transgender individuals.
ndividuals? MS. HUPPERT: Objection to form. A. Cisgender individuals do not typically seek a procedure, a sex transformation - or I'll call it	 A. If it's one of the policies I reviewed, I 5 can show you where sex transformation - again, I 6 believe that was the language - is excluded. And 7 that applies only to transgender individuals. 8 Q. Are there any other portions of the policy
ndividuals? MS. HUPPERT: Objection to form. A. Cisgender individuals do not typically seek a procedure, a sex transformation - or I'll call it gender affirming - procedure.	 A. If it's one of the policies I reviewed, I 5 can show you where sex transformation - again, I 6 believe that was the language - is excluded. And 7 that applies only to transgender individuals. 8 Q. Are there any other portions of the policy 9 that you believe provide exclusions or noncoverage
ndividuals? MS. HUPPERT: Objection to form. A. Cisgender individuals do not typically seek a procedure, a sex transformation - or I'll call it gender affirming - procedure. Q. The cisgender people do not typically seek	 A. If it's one of the policies I reviewed, I 5 can show you where sex transformation - again, I 6 believe that was the language - is excluded. And 7 that applies only to transgender individuals. 8 Q. Are there any other portions of the policy 9 that you believe provide exclusions or noncoverage 10 for transgender individuals?
ndividuals? MS. HUPPERT: Objection to form. A. Cisgender individuals do not typically seek a procedure, a sex transformation - or I'll call it gender affirming - procedure. Q. The cisgender people do not typically seek Is it possible for a cisgender person to seek such	 4 A. If it's one of the policies I reviewed, I 5 can show you where sex transformation - again, I 6 believe that was the language - is excluded. And 7 that applies only to transgender individuals. 8 Q. Are there any other portions of the policy 9 that you believe provide exclusions or noncoverage a. 10 for transgender individuals? a. I'm sorry, can you repeat that?
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CHRISTOPHER FAIN, ET AL vs., WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

-	LIAM CROUCH, ET AL		03/28/2022
11 a	Page 73		Page 75
	I'm referring to the exclusion of gender affirming		clinical conditions, I may speak to that issue, as
	surgery.		we did mastectomy for oncologic conditions, for
3	Q. All right. And beyond gender affirming	3	example.
4	surgery, are you aware of any other exclusions?	4	Q. Okay. And you used the term "categorical
5	MS. HUPPERT: Object to form.	5	exclusion," and I'm trying to understand what the
6	A. I did not review the policy specific to	6	category is that is being excluded.
7	other clinical conditions.	7	MS. HUPPERT: Object to form.
8	Q. Okay. So to hopefully put a pin in this,	8	A. The transgender individuals being excluded
9	the only exclusion that you are concerned with is	9	from surgical intervention, sex transformation
10			services.
11	policy excludes gender affirming surgeries.	11	Q. And again, I want to be specific here. You
12			are not implying that a transgender person can
13			never get a mastectomy; you're saying that a
			transgender person is excluded from getting a
	sex transformation surgery. It's possible that		mastectomy for gender dysphoria.
	there would be other concerns, but I reviewed this	16	
17		17	
	surgeries.		condition on which it would be performed. Again,
19	Q. Are you going to testify about any other		trans sex transformation surgery would only be
	exclusions that you believe exist for transgender		performed on an individual who's transgender.
21	individuals in the West Virginia Medicaid policy?	21	Q. Okay. Is it your testimony that
22	MS. HUPPERT: Object to form.	22	transgender individuals, for any purpose, are
23	A. My area is focuses on the gender	23	excluded from getting a mastectomy?
24	affirming the exclusion pertaining to gender	24	MS. HUPPERT: Object to form.
	Page 74		Page 76
1	affirming surgical services.	1	A. I am reviewing it within the context of
2	Q. Okay. So again, there's nothing outside of	2	being performed as a sex transformation surgery.
3	what you're talking about, the exclusion that you		
	what you to taking about, the exolution that you	3	Q. Okay. You also just testified that you've
4	believe applies to gender affirming surgeries, that	4	looked at other portions as they relate to similar
4 5	believe applies to gender affirming surgeries, that what you're saying that sex transformation	4 5	looked at other portions as they relate to similar types of procedures like mastectomies that we just
4 5 6	believe applies to gender affirming surgeries, that what you're saying that sex transformation surgery language is the universe of language that	4 5 6	looked at other portions as they relate to similar types of procedures like mastectomies that we just talked about, and you specifically pointed out.
4 5 6 7	believe applies to gender affirming surgeries, that what you're saying that sex transformation surgery language is the universe of language that you were asked to look at.	4 5 6 7	looked at other portions as they relate to similar types of procedures like mastectomies that we just talked about, and you specifically pointed out. Are you saying that transgender individuals are
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 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 	 believe applies to gender affirming surgeries, that what you're saying that sex transformation surgery language is the universe of language that you were asked to look at. MS. HUPPERT: Object to form. A. I was asked to look at the exclusion of surgical services for transgender individuals, and the exclusion of sex transformation surgery applies only to transgender individuals. I didn't look - as we discussed earlier - for coverage related to oncologic considerations. Q. And Doctor, all I'm trying to do is find out if you're going to testify to any other portion of the West Virginia Medicaid plan. Is it are you only going to testify as to coverage related to gender affirming surgeries? MS. HUPPERT: Object to form. A. So I'm speaking to the exclusion for gender 	 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 	 looked at other portions as they relate to similar types of procedures like mastectomies that we just talked about, and you specifically pointed out. Are you saying that transgender individuals are excluded from getting a mastectomy for any diagnosis? A. No, I said MS. HUPPERT: Objection. A I said I did not review it for oncologic for coverage, for example, for oncologic services, regardless of one's gender identity. Q. Okay. A. The fact that sex transformation is excluded would apply only to a transgender person. Whether a cisgender woman can have a would have access to oncologic breast services, I did not review the policy within that framework. Q. Did you review the policy in the framework of a transgender person receiving oncologic care?
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/2022
1. Objection to form	Page 77 Page 77 Page 79 Page 79
1 Objection to form.	2 Q. Sure. And we can talk about levels of
2 You can answer.	3 evidence. But I'm referring to the principles that
3 THE DEPONENT: Thank you.	
4 A. I referred it I reviewed it within the	4 a physician use the best available evidence, that
5 context of sex transformation surgery, again	5 the physician use a framework to judge the
6 performed on a transgender individual.	6 trustworthiness of that evidence, and that if the
7 Q. Are you aware of any exclusions beyond	
8 exclusion for sex transformation surgery?	8 consider the patient's needs and preferences in
9 A. There were other exclusions in the list	9 determining treatment.
10 with sex transformation surgery. I don't recall	10 Is that something that you're familiar
11 them by memory.	11 with?
12 Q. Okay. Are you aware of any individual	12 MS. HUPPERT: Objection to form.
13 attempting to get a single case agreement from	
14 Virginia Medicaid for a gender affirming surger	
15 MS. HUPPERT: Object to form.	15 Q. Sure. I'm referring to the evaluation of
16 A. Not to my knowledge.	16 evidence as defined by the American Medical
17 Q. Have you reviewed Christopher Fain's	17 Association. Is that something that you're
18 medical records?	18 familiar with?
19 A. No.	19 A. I'm familiar with levels of evidence
20 Q. Have you spoken to Christopher Fain?	20 pertaining to study design, yes.
21 A. No.	21 Q. Okay. So when you're talking about levels
22 Q. Have you examined Christopher Fain?	22 of evidence, you're talking about Level I being
23 A. No.	23 high-quality multi centered or single-centered
24 Q. Same questions for Shauntae Anderson.	a. Have 24 randomized controlled trials with adequate power of
	Page 78 Page 8
1 you reviewed Shauntae Anderson's medical rec	•
2 A. No.	2 A. That would be a typical definition. There
3 Q. Have you spoken to Shauntae Anderson'	· · · · · · · · · · · · · · · · · · ·
4 A. No.	4 Q. Okay. What are the other definitions?
5 Q. Have you examined Shauntae Anderson?	-
6 A. No.	6 specific study, you know, I can review that study
7 Q. Have you read Doctor Karasic's report th	
8 includes interviews with Mr. Fain and Ms. Ande	
	0 0 ,
9 A. No, only to the extent of what I've always	9 slightly different.
A. No, only to the extent of what I've always10 included in Doctor Levine's report pertaining to	9 slightly different.10 Q. Sure. Well, and this, I don't believe, is
 A. No, only to the extent of what I've always included in Doctor Levine's report pertaining to what he referred to in Doctor Karasic's report. 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled the 12 those levels of evidence specifically from a
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either t 13 original report or the rebuttal report from Dan 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled the 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead
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 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of
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 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 16 Karasic. 17 Q. Do you consider yourself to be an experi- 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled the 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of 16 raise, you know, the logistics of how you're 17 intending to handle documents. Just curious, you
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 16 Karasic. 17 Q. Do you consider yourself to be an experient 18 the evaluation of evidence? 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of 16 raise, you know, the logistics of how you're 17 intending to handle documents. Just curious, you 18 know, is the witness going to have control over
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either t 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 16 Karasic. 17 Q. Do you consider yourself to be an experient 18 the evaluation of evidence? 19 MS. HUPPERT: Objection to form. 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled the 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of 16 raise, you know, the logistics of how you're 17 intending to handle documents. Just curious, you 18 know, is the witness going to have control over 19 what he's seeing, that sort of thing?
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 16 Karasic. 17 Q. Do you consider yourself to be an experient 18 the evaluation of evidence? 19 MS. HUPPERT: Objection to form. 20 A. What type of evidence? 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of 16 raise, you know, the logistics of how you're 17 intending to handle documents. Just curious, you 18 know, is the witness going to have control over 19 what he's seeing, that sort of thing? 20 MR. DAVID: I was simply going to
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 16 Karasic. 17 Q. Do you consider yourself to be an experient 18 the evaluation of evidence? 19 MS. HUPPERT: Objection to form. 20 A. What type of evidence? 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled the 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of 16 raise, you know, the logistics of how you're 17 intending to handle documents. Just curious, you 18 know, is the witness going to have control over 19 what he's seeing, that sort of thing? 20 MR. DAVID: I was simply going to 21 share my screen and I was going to show him the
 9 A. No, only to the extent of what I've always 10 included in Doctor Levine's report pertaining to 11 what he referred to in Doctor Karasic's report. 12 Q. Okay. So you have not reviewed either to 13 original report or the rebuttal report from Dan 14 Karasic. 15 A. I have not reviewed anything from Doctor 16 Karasic. 17 Q. Do you consider yourself to be an experimentation of evidence? 19 MS. HUPPERT: Objection to form. 20 A. What type of evidence? 21 Q. Well, there are principles of evidence- 	 9 slightly different. 10 Q. Sure. Well, and this, I don't believe, is 11 specific to gender affirming care, but I pulled 12 those levels of evidence specifically from a 13 document that you co-authored, and I'll go ahead 14 and show that now. 15 MS. HUPPERT: I just wanted to sort of 16 raise, you know, the logistics of how you're 17 intending to handle documents. Just curious, you 18 know, is the witness going to have control over 19 what he's seeing, that sort of thing? 20 MR. DAVID: I was simply going to
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

1 scroll down, I'm happy to do it. I don't know if 1 has been updated since 2003. 2 that's a capability that he will have. 0. Okay. Can we agree that randomized 3 MS. HUPPERT: Okay. 2 O. Otay. can we agree that randomized 4 O. Doctor, can you see what's on the screen? A. I can. 5 Wiender-based Pattern Safety Advisory' - and I'm ant that it was performed. S Simply because something is a randomized controlled 6 Q. And I'll scroll up to the top so that you 7 can see that. This is a - an article titled 3 masse that. This is a - an article titled 7 can see that. This is a - an article titled 7 scientifically occursed manner. 8 Q. Sure. And assuming that the trials are 9 not even going to pretend that 1 understand how to 9 conducted in an appropriate manner, would they be 10 pronounce that word - "Blood Dyscrasia?" 11 MS. HUPPERT: Object to form. 12 Q. Okay. And there is a table, Table 1. Can 13 MS. HUPPERT: Apologies. Object to 14 A. I am. 15 You can answer. 15 wess. But not crystal clear, but can see it. 16 A. Again, so it would depend on the study. 17 A. Tableyeah. Not crystal – could be my 18 individual randomized controlled trial, doesn't 18 wess. But not crystal clear, but can see it. 19 wean it's, as you said, a gold - a gold standard. 20 Okay. And that Evidence Rating Scale	WILLIAM CROUCH, ET AL	03/28/2022
2 that's a capability that he will have. 2 Q. Okay. Can we agree that randomized 3 MS. HUPPERT: Okay. 3 controlled trials are the gold standard? 4 A. Ican. 5 Simply because something is a randomized controlled 7 can see that. This is a - an article titled 6 C. And I'll scroll up to the top so that you 7 can see that. This is a - an article titled 7 Simply because something is a randomized controlled 9 not even going to pretend that 1 understand how to 9 controlled trials are 9 not even going to pretend that 1 understand how to 9 controlled trials are 10 the gold standard? 11 A. Uscreasia. 11 A. Dyscreasia. 11 MS. HUPPERT: Object to form. 12 A. Okay. And there is a table. Table 1. Can 13 MS. HUPPERT: Object to form. 13 this article, correct? 14 A. Bain, so it would depend on the study. 14 A. Iam. 15 You can answer. 15 Q. Okay. And that Evidence Rating Scale has 20 Randomized controlled trial, ann. 12 should - can you see it a little bit better now? 21 Suide appropriately, would agold - a gold standard. 20 Okay. And that Evidence Rating Scale would you agree hat prospective 22 <		Page 83
3 MS. HUPPERT: Okay. 3 controlled trials are the gold standard? 4 Q. Doctor, can you see what's on the screen? A. Well, it depends on how they're performed. 7 A. Tan. Simply because something is a randomized controlled 8 "Evidence-based Patient Safety Advisory" - and I'm. 8 9 not even going to pretend that 1 understand how to pronunce that word "Blood Dyscrasia?" 1 11 A. Dyscrasia. 9 conducted in an appropriate manner, would they be conducted in an approprise manner, would they be conducted in an appropriate m		
 4 A. Well, if depends on how they're performed. 5 A. Lean. 7 can see that. This is a - an article titled 8 "Evidence-based Patient Safety Advisory" - and I'll accord by correct manner. 9 not even going to pretend that I understand how to 10 pronounce that word - "Biood Dyscrasia?" 11 A. Dyscrasia. 12 Q. Okay. And you are one of the co-authors of 13 this article, correct? 14 A. Iam. 15 Q. Okay. And there is a table, Table 1. Can 16 you see that on the screen? 17 A. Table - yeah. Not crystal - could be my 18 eyes. But not crystal clear, but I can see it it lean zoom in a little bit, 19 Q. I can see if I can zoom in a little bit, 19 Q. Okay. And that Evidence Rating Scale has 1 A. It does. 1 A. Tabe what it says, but if you could 1 A. It does. 1 A. Tat's what it says, but if you could 1 A. Tat's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says, but if you could 1 A. That's what it says,		
 5 A. L can. 6 Q. And I'll scroll up to the top so that you can see thing is a randomized controlled. 6 Utal doesn't mean that it was performed in a calculate that a trainable to trainabl	-	-
6 Q. And I'll scroll up to the top so that you 7 trial doesn't mean that it was performed in a 7 can see that. This is a - an article titled 7 scientifically-correct manner. 8 "Evidence-based Patient Safety Advisory" - and I'm 8 Q. Sure. And assuming that the trials are 9 not even going to pretend that I understand how to 9 conducted in an appropriate manner, would they be 10 pronounce that word - "Blood Dyscrasia?" 11 MS. HUPPERT: Object to form. 12 Q. Okay. And you are one of the co-authors of 13 MS. HUPPERT: Apologies. Object to 14 A. I am. 14 form. 15 You can answer. 15 Q. Okay. And there is a table, Table 1. Can 16 A. Again, so it would depend on the study. 17 A. Tableyeah. Not crystal - could be my 18 individual randomized controlled trial, doesn't 18 exess for Loan cans ous est in a little bit. 19 mean it's, as you said, a gold a gold standard. 20 A. Okay. And that Evidence Rating Scale has 24 Q. Okay. Muthat Evidence Rating Scale has 21 A. It does. Page 82 1 A. And you can well, you can see the 22 Q. Okay. And that Evidence scale we used,		
7 can see that. This is a - an article titled 7 scientifically-correct manner. 8 "Evidence-based Patient Safety Advisory" - and I'm 0. Sure. And assuming that the trials are 9 not even going to pretend that Lunderstand how to 0. Sure. And assuming that the trials are 9 not even going to pretend that Lunderstand how to 0. Sure. And assuming that the trials are 9 not even going to pretend that Lunderstand how to 0. Sure. And assuming that the trials are 9 not even going to pretend that Lunderstand how to 10 the gold standard? 11 A. Dyscrasia. MS. HUPPERT: Object to form. 12 A. an. 13 MS. HUPPERT: Apologies. Object to 14 A. I am. 14 form. 15 Q. Okay. And there is a table, Table 1. Can 14 form. 16 you see that on the screen? 16 A. Again, so it would depend on the study 17 A. Table - yeah. Not crystal - could be my 17 design. Simply a randomized controlled trial, an 18 individual randomized controlled trial, desn't 19 meanit's, as you said, a goid standard. 20 Nay. And that Evidence Rating Scale has 2 evidence. 21 A. It does. 2 aveals in the table: "With adequate power, or systematic review of 2 A. It does. 1 A. And you can - well, you can see the 2 A. Okay. And that Evidence scale we used, 9 aconduciz		
8 "Evidence-based Patient Safety Advisory" - and I'm 9 not even going to pretend that 1 understand how to 10 pronounce that word - "Blood Dyscrasia?" 8 Q. Sure. And assuming that the trials are 9 conducted in an appropriate manner, would they by 10 the gold standard? 11 A. Dyscrasia. 10 the gold standard? 12 Q. Okay. And you are one of the co-authors of 11 this article, correct? 11 MS. HUPPERT: Object to form. 12 A. Tam. 12 A. So 13 MS. HUPPERT: Apologies. Object to 14 A. Iam. 14 A. Tam. 15 You can answer. 15 Q. Okay. And there is a table, Table 1. Can 16 an source yeah. Not crystal - could be my 17 16 A. Again, so it would depend on the study 17 17 18 eyes, But not crystal clear, but 1 can see it. 19 19 10 mean it's, as you said, a gold – a gold standard. 20 20 21 soudid – can you see it a little bit butter. Non? 21 studid appropriately, would carry a level + a 22 22 Levels of Evidence 1 through V, correct? 24 Levels of Evidence 1 through V, correct? 24 Q. Okay. And tase of I can zoon in a little bit purther. And that correct? 2 Q. Okay. And tase torrect? 24 Q. Okay. Mod Level I is "High-quality, multi 3	•	-
9 not even going to pretend that 1 understand how to 10 pronounce that word - "Blood Dyscrasia?" 9 conducted in an appropriate manner, would they but 10 the gold standard? 11 A. Dyscrasia. 10 the gold standard? 11 the gold standard? 12 Q. Okay. And you are one of the co-authors of 13 this article, correct? 11 MS. HUPPERT: Object to form. 12 A. Jam. 12 A. So 13 MS. HUPPERT: Apologies. Object to 14 A. Iam. 15 You can answer. 16 A. Again, so it would depend on the study 17 A. Table - yeah. Not crystal - could be my 18 individual randomized controlled trial, annos: it would agold - a gold standard. 20 maybe I can even go a little bit further. And that 21 A. Ican, yeah. 22 A. Ican, yeah. 23 Q. Okay. And that Evidence Rating Scale has 24 Levels of Evidence I through V, correct? 24 Q. Okay. And Level I is "High-quality, mutti centered or single-centered randomized controlled 24 Levels of Evidence I through V, correct? 2 A. It does. 2 A. It does. 3 O. Okay. And that Evidence		-
10 pronounce that word - "Blood Dyscrasia?" 10 the gold standard? 11 A. Dyscrasia. 11 MS. HUPPERT: Object to form. 12 Q. Okay. And you are one of the co-authors of 11 A. So - 13 this article, correct? 13 MS. HUPPERT: Object to form. 14 A. Iam. 14 form. 15 Q. Okay. And there is a table, Table 1. Can 14 form. 16 you see that on the screen? 13 MS. HUPPERT: Apologies. Object to 17 A. Table - yeah. Not crystal - could be my 14 form. 18 you see that on the screen? 16 A. Again, so it would depend on the study 17 A. Table - yeah. Not crystal - could be my 18 individual randomized controlled trial, doesn't 19 mean its, as you said, aptorpriately, would carry a level - a 22 2 A. Iacan, yeah. 21 studied appropriately, would you agree 2 Q. Okay. And that Evidence Rating Scale has 14 And you can - well, you can see the 2 Q. Okay. And thevel Is "High-quality, multi caveats in the table. "With adequate power, for 3 sexample, being one of tho		_
11 A. Dyscrasia. 11 MS. HUPPERT: Object to form. 12 Q. Okay. And you are one of the co-authors of 12 A. So 13 this article, correct? 13 MS. HUPPERT: Object to form. 14 A. Iam. 12 A. So 15 Q. Okay. And there is a table, Table 1. Can 13 MS. HUPPERT: Apologies. Object to 14 A. Iam. 15 You can answer. 16 A. Again, so it would depend on the study 17 A. Table - yeah. Not crystal could be my 18 individual randomized controlled trial, doesn't 18 exist and the screen? 16 A. Again, so it would depend on the study 19 Q. Lan see if Lanz coom in a little bit further. And that 19 meant's, agous aid, a gold - agold standard. 20 May. And that Evidence Rating Scale has 21 Levels of Evidence I through V, correct? 22 24 A. Idoes. 24 A. And you can well, you can see the 2 2 2 2 A. And you can well, you can see the 2 2 2 2 4 A. So would you agree that prospective 3 3 3 2 2 4 <td></td> <td></td>		
12 Q. Ókay. And you are one of the co-authors of 12 A. So 13 this article, correct? 13 MS. HUPPERT: Apologies. Object to 14 A. 1 am. 14 form. 15 Q. Okay. And there is a table, Table 1. Can 14 form. 16 you see that on the screen? 13 this did-explander this did-expl		
13 this article, correct? 13 MS. HUPPERT: Apologies. Object to 14 A. Tam. 14 A. Tam. 15 Q. Okay. And there is a table, Table 1. Can 14 form. 16 you see that on the screen? 16 A. Again, so it would depend on the study 17 A. Table yeah. Not crystal - could be my 18 individual randomized controlled trial, an 18 eyes. But not crystal clear, but I can see it. 19 mean it's, as you said, a gold - a gold standard. 20 naybe I can even go a little bit further. And that 21 studied appropriately, would carry a level - a 21 A. I can, yeah. 21 Euvels of Evidence Rating Scale has 21 A. It does. 22 2. Level I, typically the Level I level I evel of 22 Q. Okay. And Level I is "High-quality, multi centered or single-centered randomized controlled 2 32 Levels of Evidence I through V, correct? 24 A. And you can well, you can see the 2 2 Q. Okay. And Level I is "High-quality, multi centered or single-centered randomized controlled 3 a canyabe, being one of those caveats. 4 trial with adequate power, or systematic review		
14 A. Iam. 14 form. 15 Q. Okay. And there is a table, Table 1. Can 14 form. 16 you see that on the screen? You can answer. 16 17 A. Table yeah. Not crystal could be my 18 A. Again, so it would depend on the study 18 eyes. But not crystal clear, but I can see it. 19 Q. I can see if I can zoom in a little bit. 19 Q. I can see if I can zoom in a little bit further. And that 18 individual randomized controlled trial, when 21 A. I can, yeah. 23 Q. Okay. And that Evidence Rating Scale has 24 Level of Evidence I through V, correct? 22 A. It does. Page 82 1 A. And you can well, you can see the 2 2 Q. Okay. And Level I is "High-quality, multi 3 careate or single-centered randomized controlled 4 Q. Okay. Would you agree 2 2 Q. Okay. And Level I is "High-quality, multi careates in the table: "With adequate power," for 3 acareats in the table: "With adequate power," for 3 canperhaps I want to see in the text where acare the gold standard? A. I would say that would be a framework for 4		
15 Q. Okay. And there is a table, Table 1. Can 15 You can answer. 16 you see that on the screen? 16 A. Again, so it would depend on the study 17 A. Table yeah. Not crystal - could be my 17 A. Again, so it would depend on the study 17 A. Table yeah. Not crystal - could be my 16 G. A. Again, so it would depend on the study 18 you can answer. 16 A. Again, so it would depend on the study 19 Q. I can see if I can zoom in a little bit 16 Madomized controlled trial, doesn't 19 maybe I can even go a little bit better now? 21 studied appropriately, would carry a level - a 22 A. I can, yeah. 21 studied appropriately, would carry a level - a 23 Q. Okay. And tate Evidence Rating Scale has 24 Levels of Evidence I through V, correct? 24 24 Levels of Evidence I is "High-quality, multi reareator is ingle-centered randomized controlled 34 A. And you can - well, you can see the 2 2 Q. Okay. And Level I is "High-quality, multi acwasts in the table: "With adequate power, or systematic review of 5 aratomized double-blind placebo-controlled studies 6 A. That's what it sa		
16 you see that on the screen? 17 A. Table yeah. Not crystal could be my 18 eyes. But not crystal clear, but I can see it. 19 Q. I can see if I can zoom in a little bit, 20 maybe I can even go a little bit further. And that 21 should can you see it a little bit better now? 22 A. I can, yeah. 23 Q. Okay. And that Evidence Rating Scale has 24 Levels of Evidence I through V, correct? 2 A. It does. 2 Q. Okay. And Level I is "High-quality, multi 3 centered or single-centered randomized controlled 4 trial with adequate power, or systematic review of 5 that say, but if you could 7 A. That's what it says, but if you could 7 A. It would say that would be a reference to that. So if you 10 O. Where would I go? 11 Q. Where would I go? 12 A. I draing scale, which is why I asked. 13 but for the purpose of this purpose for this 14 walt order would there may be other rating scales, 15 what would be a teference to thats asset. 1		
 A. Table yeah. Not crystal could be my eyes. But not crystal clear, but I can see it. Q. I can see if I can zoom in a little bit, maybe I can even go a little bit further. And that should can you see it a little bit better now? A. I can, yeah. Q. Okay. And that Evidence Rating Scale has Levels of Evidence I through V, correct? A. It does. Q. Okay. And Level I is "High-quality, multi scentered or single-centered randomized controlled trial with adequate power, or systematic review of 5 these studies." Is that correct? A. That's what it says, but if you could entared, I'd like to see because it's possible we used I want to see what evidence scale we used, so there should be a reference to that. So if you can perhaps I want to see in the text where that source was from, because that wasn't okay, wait. Okay, depending on study's own quality yes, okay, that was through the ASPS Evidence Rating Scale, which is why I asked. But for the purpose of this purpose - for this manuscript, that was used. Q. Okay. And is the ASPS rating scale a generally-accepted rating scales, Q. Okay. And is the ASPS rating scale a generally-accepted rating scales, Q. Okay. And is the ASPS rating scale a generally-accepted rating scales, Q. Okay. And is the ASPS rating scale a generally-accepted rating scales, Q. Okay. And is the ASPS rating scale a generally-accepted rating scales, Q. Sure. This was 2009, I believe. 		
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 18 but for the purpose of this purpose for this 19 manuscript, that was used. 20 Q. Okay. And is the ASPS rating scale a 21 generally-accepted rating scale? 22 A. Can you go up? I want to see what year 23 Q. Sure. This was 2009, I believe. 18 they cannot be used to evaluate many clinical 19 procedures. 20 Q. Do you agree with the statement that they 21 are the gold standard? 22 A. When performed, as I said, appropriately, 23 yes. 	· ·	17 A. I agree with that statement, the fact that
19 manuscript, that was used.19 procedures.20 Q. Okay. And is the ASPS rating scale a20 Q. Do you agree with the statement that they21 generally-accepted rating scale?20 Q. Do you agree with the statement that they22 A. Can you go up? I want to see what year22 A. When performed, as I said, appropriately,23 Q. Sure. This was 2009, I believe.23 yes.		-
20Q. Okay. And is the ASPS rating scale a20Q. Do you agree with the statement that they21generally-accepted rating scale?21are the gold standard?22A. Can you go up? I want to see what year22A. When performed, as I said, appropriately,23Q. Sure. This was 2009, I believe.23yes.		,
21 generally-accepted rating scale?21 are the gold standard?22 A. Can you go up? I want to see what year22 A. When performed, as I said, appropriately,23 Q. Sure. This was 2009, I believe.23 yes.		
22A. Can you go up? I want to see what year22A. When performed, as I said, appropriately,23Q. Sure. This was 2009, I believe.23yes.		
23Q. Sure. This was 2009, I believe.23 yes.		-
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/2022
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1 your written testimony, at least, is that for	A. I'd have to review that bibliography.
2 gender affirming care - specifically gender	2 Q. Well, I just asked you to list all of the
3 affirming surgeries - you cannot do these types of	3 ones that you're aware of, and you didn't list any.
4 studies. Is that correct?	4 So are any in your bibliography?
5 MS. HUPPERT: Object to form.	5 MS. HUPPERT: Object to form.
6 A. Which type of study?	6 A. I'd have to, again, refuse specific to
7 Q. A random a prospective randomized	7 I'm sorry, I'm getting an echo all the
8 double-blind placebo-controlled study.	8 sudden, I'm getting an echo.
9 A. So as with many areas of surgery and	9 Okay. I'd have to specifically review
10 medicine, you cannot perform that type of study.	10 the bibliography. But again, as other studies
11 For example, it may be unethical to deny people	11 cited in my bibliography, the levels of evidence in
12 medically-necessary care. Also, surgery doesn't	12 gender affirming surgery are consistent with that
13 lend itself to either a placebo or a double-blind	13 of other areas of plastic surgery which are readily
14 framework.	14 accepted as medically necessary.
15 Obviously if you had surgery, you're	15 Q. So can you name a single piece of medica
16 going to know that you've had surgery.	16 literature that contains Level I evidence in
17 So as with other clinical areas of	17 support of gender affirming surgery?
18 medicine for example, a cleft lip. We don't	18 MS. HUPPERT: Object to form.
19 randomize children to repair or not repair their	A. As we said, the denying people medically
20 cleft their cleft lip. Similar to other areas	20 necessary care would be unethical. So it would be
21 of medicine, randomized controlled trials or	21 medically inappropriate to deny people medically
22 placebo or double-blind studies may not be ethical	22 necessary care, and simply not be feasible to, for
23 or feasible.	23 example, perform a placebo control within the area
24 Q. So are you aware any Level I evidence in	24 of surgery.
Page 86 1 support of gender confirming or gender affirming	Page 88 1 So that's not something that's
	2 medically feasible to do.
 2 surgeries? 3 MS. HUPPERT: Object to form. 	3 Q. So you are unable to name any medical
4 A. As with many areas of plastic surgery, the	4 literature that includes Level I evidence in
5 levels that I have (Zoom audio glitch) in gender	5 support of gender affirming surgery.
6 affirming surgery are very much consistent with	6 MS. HUPPERT: Object to form. Asked
7 that due to the considerations we just discussed.	7 and answered.
8 Q. Okay. So can you list all of the studies	8 A. Again, it is not possible to have a placebo
9 that you are aware of that have produced Level I	9 designed with surgery. So it's not medically
10 Level I evidence in support of gender confirming	10 feasible to do that.
11 surgeries?	11 Q. Okay. All right. So Level II evidence is
12 MS. HUPPERT: Object to form.	12 lesser quality, randomized controlled trial,
13 A. As we've said with both in my report and	13 prospective cohort study, or systematic review of
14 now, in areas of plastic surgery, we can't they	14 these studies. Is that correct?
15 don't lend themselves - either because of medical	15 A. Well, you're using a 2009 scale.
16 ethics or practical considerations, like a placebo	16 So based on the 2009 scale I see
17 - to that type of study framework.	17 what you're reading. Again, it's conceivable that
8 So the levels of evidence within	18 that ASPS evidence scale has been updated.
	19 Q. Are you aware of the scale being updated?
19 gender affirming surgery are consistent with other	20 A. It's possible. I can't say for certain.
20 areas of plastic surgery.	20 A. It's possible. T can't say for certain. 21 Q. Are you aware of any lesser quality,
21 Q. So how many articles in your bibliography	22 randomized controlled trials, prospective cohort
22 contain Level I evidence for in support of 23 gender affirming surgery?	23 studies or systematic review of those studies that
• • • •	23 studies of systematic review of those studies that 24 analyze the efficacy of gender affirming surgery?
24 MS. HUPPERT: Object to form.	

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LOREN S. SCHECHTER, MD 03/28/2022

03/28/2022
Page 9 1 A. I have participated in studies that look at
2 outcomes. It's conceivable that there were mental
3 health parameters, but I believe the focus was on
4 complications relating to gender affirming surgery.
6 have participated in, have they been published?
7 A. They have been presented. Whether they
8 have been published in a in a proceedings
9 manner, I am not entirely sure. It's conceivable.
10 But they've been presented.
11 Q. Okay. So they may have been presented at a
12 conference or they have been presented at
13 conferences, but you're not aware of a place that I
14 could go on the Internet and find a print version
15 or an online version of the study.
16 MS. HUPPERT: Object to form.
17 A. It's conceivable they may have been
18 published as part of the abstracts in the
19 proceeding, but I'd have to look at my CV. I don't
20 recall that 100 percent.
21 Q. Okay. And for these prospective studies,
22 who actually conducted the studies?
A. Myself as well as a team of researchers.
Q. And how what was your method what is
Page 92
1 your methodology if there are some that are
2 still going on but what was or what is your
3 methodology for these prospective studies?
4 MS. HUPPERT: Object to form.
5 A. Those were survey studies.
6 Q. Okay. And did you develop the survey
7 questions?
8 A. I did in conjunction with other members of
9 the team.
10 Q. And how many of these survey studies have
11 you completed?
12 A. So the two prospective studies I'm
12 A. So the two prospective studies I'm
A. So the two prospective studies I'mthinking of one that was a pilot study regarding
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery.
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking at expectations regarding sexual function before
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking at expectations regarding sexual function before and after gender affirming surgery.
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking at expectations regarding sexual function before and after gender affirming surgery. Q. Okay. And how often are the patients
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking at expectations regarding sexual function before and after gender affirming surgery. Q. Okay. And how often are the patients surveyed? MS. HUPPERT: Object to form.
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking at expectations regarding sexual function before and after gender affirming surgery. Q. Okay. And how often are the patients surveyed? MS. HUPPERT: Object to form. A. So for the current, pre-operatively, and
 A. So the two prospective studies I'm thinking of one that was a pilot study regarding expectations around gender affirming surgery. The other is currently ongoing looking at expectations regarding sexual function before and after gender affirming surgery. Q. Okay. And how often are the patients surveyed? MS. HUPPERT: Object to form.

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

ILLIAM CROUCH, ET AL	03/28/202
Page 93	Page 9 1 surveys.
A. We are always, you know, considering new	2 Q. Okay. And so there let me ask: Were
3 new clinical research questions and possibilities,	3 you offering or requesting that all of your
so it's certainly possible.	4 patients participate in this program?
5 Q. Why did you choose a one-year follow-up	5 A. I believe we had I believe it focused on
6 period?	6 mastectomy and genital surgery. I don't recall
A. To obtain the data. People may be less apt	7 that we I think we excluded face. I believe
to complete survey questions as time goes on.	8 individuals had to be the age of majority. There
	9 may have been some other exclusion criteria that
Q. And in your pilot study on patient 0 expectations, how many of the patients within the	10 I'm also thinking that I just can't remember.
	11 So the answer is: It was not open to
1 study population actually participated in the	
2 survey?	12 all individuals. There were some inclusion and
A. An estimate is somewhere around 30. Again,	13 exclusion criteria.
4 I'd have to look specifically at the study to give	14 Q. Okay. And for the pre-operative surveys,
5 to give the exact number. It could be a bit	15 what was the time frame? Was it over the course of
6 more or it could be a bit less.	16 a year? And what I mean is, the patients who were
7 Q. And we'll say it's an approximation. So	17 included in the study, were they patients who had
8 does that mean that approximately well, let me	18 the a procedure over the course of a single
9 ask you this first: Was the pilot study set up the	19 year?
0 same way? There was a pre-operative, a six-month	A. No, this these were pre-operative, so
1 and a one-year survey?	21 their procedure could have been 6 months, 12
A. It was. We stopped or we had limited	22 months, 18 months later. It was specific to that
3 information or I should say we didn't have full	23 point prior to surgery. Whether surgery, you know,
4 post-op survey because the IRB changed, and that	24 occurred within that calendar year depended on the
Page 94	Page 9
was in the switch to Rush University.	1 person.
2 So we rather than write a new IRB,	2 Q. Sure. So now with that understanding, to
3 we stopped with the pre-operative survey and then	3 refine my question a little bit, did you say,
we collect data now through what's called the	4 "Okay, we're going to survey people pre-operatively
5 REDcap system which is a method of maintaining or	5 from July 1st of 2017 to June 30th of 2018," for
obtaining data.	6 example?
Q. Okay. You just used what I assume is an	7 A. I don't remember. I think we may have
acronym, an IRB. Can you tell me what that is?	8 again, this is an approximation. We may have set
A. Sure. Institutional Review Board.	9 the target as a specific number, not necessarily by
0 Q. Okay. And so the Institutional Review	
1 Board changed as you changed locations from Weiss	10 date at which they were seen.
	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I
2 to Rush?	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say that
A. No. The hospital my employer changed in	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say that 13 you were hoping for 100 participants. You, over
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with 5 that, the IRB changed. 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with 5 that, the IRB changed. 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or rework the IRB, we decided to pursue a different 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of 17 100.
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or rework the IRB, we decided to pursue a different methodology. 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of 17 100. 18 A. It wasn't 100. It was designed as a pilot
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or rework the IRB, we decided to pursue a different methodology. Q. Okay. And so the pilot started and I'm 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of 17 100. 18 A. It wasn't 100. It was designed as a pilot 19 study, so then further we refined survey questions.
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or rework the IRB, we decided to pursue a different methodology. Q. Okay. And so the pilot started and I'm just trying to understand the timing. Was the 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of 17 100. 18 A. It wasn't 100. It was designed as a pilot 19 study, so then further we refined survey questions. 20 So it was less than 100 individuals, again, with
 A. No. The hospital my employer changed in 2019 when my employer sold the hospital, and with that, the IRB changed. So rather than recomplete or rework the IRB, we decided to pursue a different methodology. Q. Okay. And so the pilot started and I'm just trying to understand the timing. Was the pilot study interrupted as a result of the change 	 10 date at which they were seen. 11 Q. So if I'm understanding correctly and I 12 don't know what the number was. But let's say tha 13 you were hoping for 100 participants. You, over 14 the course of time, requested that people 15 participate in the survey if they didn't have an 16 exclusion criteria until you reached that number of 17 100. 18 A. It wasn't 100. It was designed as a pilot 19 study, so then further we refined survey questions. 20 So it was less than 100 individuals, again, with 21 the purpose to review and then further refine

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LOREN S. SCHECHTER, MD 03/28/2022

VVII	LLIAM GROUCH, ET AL		03/20/2022
1	Page 97 MS. HUPPERT: Object to form.	1	Page 99 gender identity but who do not suffer from gender
2			dysphoria?
3	0	3	MS. HUPPERT: Object.
4	Ū,	4	A. It's possible that I've seen patients as
5			you describe.
6		6	Q. Okay. Have you yourself conducted any
7			
8			affirming surgeries?
9		9	A. I have been involved as an author,
9 10		10	
	· · ·		
	series.		reviews. Some may be scoping reviews, and some may
12			have been systematic. I'd have to look
	ASPS rating scale, would that be Level IV?		specifically at my CV.
14	o	14	
	as being representative of 2022.	15	
16			but not necessarily in a systematic fashion where
	higher level of evidence, a prospective cohort		one would include or exclude articles based on
	study or a case series?		certain criteria.
19		19	This would incorporate or could
20	A. Again, as for a particular study, it would		incorporate the universe of articles.
21	depend upon the study design of that of that	21	Q. Has your pilot study been involved or
22	particular study. In other words, a prospective	22	included in any systematic reviews to your
23	cohort study, poorly done, would not necessarily be	23	knowledge?
24	a higher quality but may could be considered a	24	A. Not to my knowledge.
	Page 98		Page 100
	higher level of evidence.	1	Q. Are you familiar with the Grade framework
2	Q. What were the results of your pilot study?		for evaluating the trustworthiness of evidence?
3	A. It was a survey designed to look at	3	A. I have heard of it, yes.
	expectations regarding gender affirming surgery,	4	Q. Okay. And I'll go ahead I'm done asking
	and we had a variety of questions as well as the		about that Evidence Rating Scale, so I'll go ahead
	opportunity to free text as to reasons why or	6	and go back to you getting to see my face.
	motivations for individuals to choose a surgical	7	Is the Grade Rating Scale something
	intervention such as aligning their body or		that you use in your practice?
9	alleviating or relieving their gender dysphoria.	9	A. You mean clinically?
10	Q. Were there individuals who were seeking	10	Q. I mean in terms of your the academic or
	that surgery in your study to align their body but	11	research side of your practice.
12	not to alleviate gender dysphoria?	12	A. Well, the Grade system, I believe, is used
13	MS. HUPPERT: Object to form.	13	to look at clinical practice guidelines.
14	A. I'd have to look. I'd have to go back and	14	Q. Okay. And you're correct that that is one
15	look at the individual individual data.	15	of the uses of the Grade system, and it's for
16	Q. Okay. Is that something that you see in		treatment recommendations, and they rate the
17	your practice, that there are people who would like		strength of those treatment recommendations. Is
	to align their body with their gender identity but		that the part that you're familiar with?
	they don't have gender dysphoria?	19	MS. HUPPERT: Object to form.
20		20	A. I'd have to look at the specific, again,
21	A. So my typical indication for surgery is	21	uses of Grade, but I believe they are used to
	gender dysphoria.		evaluate clinical practice guidelines.
23		23	Q. And do you know what the grading scale is
			within Grade?
24	that would like to align their body with their	24	within Grade?

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LOREN S. SCHECHTER, MD 03/28/2022

AM CROUCH, ET AL	03/28/2022
Page 10	
A. I don't recall the specific scale.	1 say that the gender identity is an internal sense
Q. Okay. Are you familiar with the Grade	2 of gender. And my first question is: Do you
/stem providing a strong treatment recommendation?	5
MS. HUPPERT: Object to form.	4 MS. HUPPERT: Object to form.
A. I'd have to see the specific scale. I	5 A. I believe it depends on the individual
an't speak contemporaneously to the specifics of	6 person.
ow they do it, how they how Grade grades.	7 Q. And can an individual person's gender
Q. Okay. Now, Doctor, in your original report	8 identity change over time?
and I believe that it's in Paragraph 18 - you	9 A. Depending on the individual, it's it is
tate "The term transgender is used to describe a	10 possible.
iverse group of individuals whose gender identity	11 Q. Have you witnessed that in practice,
r internal sense of gender differs from the sex	12 someone's gender identity changing over time?
ney were assigned at birth."	13 MS. HUPPERT: Object to form.
Is that an accurate statement?	14 A. So I have seen and cared for individuals
A. It is.	15 who would describe themselves as gender fluid.
Q. Okay. And there are a couple of different	16 Q. Okay. And have any of those individuals
erms in there that I'd like you to define. And	17 described to you that they have had a shift in
ne first one is sex.	18 their gender identity throughout their lives?
A. Sure. So sex is comprised of several	19 MS. HUPPERT: Object to form.
actors, which may include one's anatomy, typically	20 A. I have had one patient who I performed a
xternal and/or internal genitalia, chromosomes and	21 breast augmentation on who probably 10ish - give or
neir gender identity, their internal sense of who	22 take - years later requested removal of the breast
ney know themselves to be.	23 implants.
Q. So an individual let me ask: Do you	24 Q. Okay. I'm going to ask you if you agree
Page 102 "?ifferentiate between the terms "gender" and "sex	
A. So gender well, gender itself may	2 gender identity early in childhood, others may
clude a variety of things, such as expression,	3 identify with one gender at one time and then
ehaviors and so forth. Sex, as we've said so	4 another gender later on. Do you agree with that?
ender may be incorporated within the context of	5 MS. HUPPERT: Object to form.
ex in the sense of one's identity being a part of	6 A. I would have to see the context in the
of their sex.	7 document to which you refer.
Q. Now, one of the things that you mentioned	8 Q. Okay. I'm asking a question. Do you agree
at comprises sex is chromosomes, and that's	9 that while some people develop a gender identity
omething that cannot be changed. Is that correct?	
MS. HUPPERT: Object to form.	11 gender at one time and then another gender later
-	12 on?
A. Well, radiation there are things that	
an alter DNA. That's typically not what we do in	13 MS. HUPPERT: Object to form.
urgery.	A. So I don't treat children, so that is not a
Q. Okay. I'll limit it to surgery. Are you	15 statement that, you know, would be within my
ble to surgically alter DNA?	16 clinical area.
A. I don't know if in the universe of what's	17 Q. Okay. Have you seen adults who have had a
oing on in the world, but not in my practice.	18 shift or a change in their gender identity over
-	
Q. Okay.	19 their life span?
Q. Okay. A. I guess unless we take it to a you know,	20 MS. HUPPERT: Object to form.
Q. Okay.	20 MS. HUPPERT: Object to form.21 A. So as I said, I have one patient who I
Q. Okay. A. I guess unless we take it to a you know,	20 MS. HUPPERT: Object to form.21 A. So as I said, I have one patient who I
Q. Okay. A. I guess unless we take it to a you know, suppose could radiation for cancer alter DNA?	20 MS. HUPPERT: Object to form.

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2	Page 105 said, approximately 10 years - it may be a bit somewhere between 8 to 10 years - requested removal		Q. Okay. And we do that through the stereotype of people who have a certain external
	of the implant and was identifying with their male	3	genitalia, correct?
4	sex assigned at birth.	4	MS. HUPPERT: Object to form.
5	Q. When you say "sex assigned at birth," what	5	A. We do that typically based upon the
6	do you mean by that?		appearance of the external genitalia. I wouldn't
7	A. The sex designated or recorded typically	7	say necessarily "stereotype."
8	based on one's external genitalia.	8	Q. Okay. Well, what do you what is your
9	Q. And typically is the external genitalia	9	definition of "stereotype?"
10	-	10	51
11	MS. HUPPERT: Object to form.	11	applied to a group of individuals based off of some
12	A. For most individuals, chromosomes will		characteristics that individuals may have in a
13	determine will well, various factors.		certain category. They may be accurate; they may
	Chromosomes, hormones, receptivity to those		be inaccurate.
15	hormones, all will impact the development of the	15	
16	external genitalia.	16	men like football. Correct? That's a stereotype
17	Q. And just because someone is born with the	17	that you've heard?
18	0	18	
19	person's gender identity will align with a male.	19	A. Well, my wife likes football too, so I
20	Is that correct?	20	can't can't say that I would agree with that
21	MS. HUPPERT: Object to form.	21	
22	A. So you're referring to "male" meaning a	22	
	penis, the fact that someone is born with a penis,		I'm just asking if you've heard of that stereotype.
24	assigned male at birth, does not necessarily	24	MS. HUPPERT: Object to form.
-	Page 106		Page 108
1	indicate or does not comply as we wouldn't know	1	A. Men like football. I can't say that I
2	at birth what the identity of that individual is.		specifically have heard it or not heard it. I
3	Q. Okay. And would you agree with me there is		don't deny that men like football, but I don't deny
4	a social construct?		that men, women or transgender individuals may like
5	A. I'm sorry, you cut out.		football. I don't think liking football depends on
6	Q. Yeah. Would you agree with me that gender	6	one's anatomy or gender identity.
7	is a social construct?	7	Q. Sure. And so tell me what give me an
8	MS. HUPPERT: Object to form.		example of a stereotype that you have encountered
9	A. I believe that gender is innate for an		as a male.
10	individual.	10	MS. HUPPERT: Object to form.
11	Q. And what do you mean, that gender is innate	11	A. Stereotype. Well, I can certainly say that
	for an individual?		I've been misgendered for most of my life based on
13	A. People are born as who they who they		my first first name. That's happened ever since
14	are.	14	
15	Q. And I'm not disagreeing with that. I'm	15	I can't say that I've been stereotyped
16			in a particular way for being male.
17		17	Q. Okay. Well, let's go with your name. And
18	the sexual organs that someone is born with, and	18	
19	how do we assign an identity to someone based upon	19	
20	-	20	•
21	MS. HUPPERT: Object to form.	21	MS. HUPPERT: Object to form.
22	A. Historically, it's been based upon the	22	A. No, actually, I don't agree with it.
	external the appearance of the external	23	
24	genitalia.	24	also characteristically a name for cisgender I

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

1	can't say "cisgender" I don't know everyone's	4	Page 111 common understanding of how stereotypes are
			-
	identity. But also associated with male-assigned	10 III III III III III III III III III I	developed?
	assigned at birth. So I won't can't agree	3	MS. HUPPERT: Object to form.
	with that.	4	A. It's my I believe I provided a
5	Q. Then why do you believe that you've been	5	definition of a stereotype.
6	misgendered?	6	Q. Okay. Give me an example of a stereotype
7	A. Individuals have taken the name Loren to	7	of a male.
8	assume that I was female.	8	MS. HUPPERT: Object to form.
9	Q. All right. And do you not believe that	9	A. Of a cisgender male?
10	that's because society expects that the name Loren	10	Q. A cisgender male.
11	is associated with a female?	11	
12	MS. HUPPERT: Object to form.	12	apply to cisgender men.
13		13	
	particular reason was, especially given the		would apply to cisgender women?
	spelling.	15	
16		16	
	differently, I might agree with that.		cisgender women?
		18	-
18			,
	changed over time?	19	, , ,
20			as a stereotype. I judge people individually, not
21		21	3
	sure.	22	-
23	•		the same way as you?
24	of people who are who identify as women today	24	MS. HUPPERT: Object to form.
			-
_	Page 110		- Page 112
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-	Page 110		Page 112
1	Page 110 are the same as they were a hundred years ago?		Page 112 A. Again, I would need to have more context to
1 2 3	Page 110 are the same as they were a hundred years ago? MS. HUPPERT: Object to form.	2 3	Page 112 A. Again, I would need to have more context to answer that question.
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 110 are the same as they were a hundred years ago? MS. HUPPERT: Object to form. A. Again, if you I need you to be more specific as to and these are individual discussions based on the person. I can't apply a sweeping generality to something. Q. Okay. How does someone develop a gender identity if there is no societal pressures about gender? MS. HUPPERT: Object to form. A. So my area of expertise is not in the development of gender identities or the development of those identities. Q. And so you can offer no testimony about why someone has a specific gender identity. MS. HUPPERT: Object to form. A. I would defer to my colleagues who diagnose and treat children and adolescents. Q. And it's your testimony that you do not have the a common understanding of how stereotypes are developed. MS. HUPPERT: Object to form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Again, I would need to have more context to answer that question. Q. Do you believe that society does not apply gender stereotypes? MS. HUPPERT: Object to form. A. Well, if the question is individuals who are members of marginalized groups are subject to stigmatization and prejudice, I would agree with that. Q. Okay. So you believe that there is a stigma around people who are in marginalized groups. MS. HUPPERT: Object to form. A. Yes, there can be. Q. Okay. And what do you believe that that stigma is based upon? MS. HUPPERT: Object to form. A. It would depend upon, again, what the what we're talking about, you know, the specific situation. Q. So let's talk about race then. Have you heard of any stigmas or stereotypes regarding race
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 110 are the same as they were a hundred years ago? MS. HUPPERT: Object to form. A. Again, if you I need you to be more specific as to and these are individual discussions based on the person. I can't apply a sweeping generality to something. Q. Okay. How does someone develop a gender identity if there is no societal pressures about gender? MS. HUPPERT: Object to form. A. So my area of expertise is not in the development of gender identities or the development of those identities. Q. And so you can offer no testimony about why someone has a specific gender identity. MS. HUPPERT: Object to form. A. I would defer to my colleagues who diagnose and treat children and adolescents. Q. And it's your testimony that you do not have the a common understanding of how stereotypes are developed. MS. HUPPERT: Object to form. A. I'm sorry, you cut out.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Again, I would need to have more context to answer that question. Q. Do you believe that society does not apply gender stereotypes? MS. HUPPERT: Object to form. A. Well, if the question is individuals who are members of marginalized groups are subject to stigmatization and prejudice, I would agree with that. Q. Okay. So you believe that there is a stigma around people who are in marginalized groups. MS. HUPPERT: Object to form. A. Yes, there can be. Q. Okay. And what do you believe that that stigma is based upon? MS. HUPPERT: Object to form. A. It would depend upon, again, what the what we're talking about, you know, the specific situation. Q. So let's talk about race then. Have you heard of any stigmas or stereotypes regarding race

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

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WILLIAM CROUCH, ET AL	03/28/2022
Page 113	Page 11
A. Stigma or stereotype associated with race.	1 medical condition are you treating?
2 Well, I believe that humans are of one	2 MS. HUPPERT: Object to form.
3 race.	3 A. In appropriately-selected individuals, my
4 Q. Okay. Have you ever listened to a certain	4 typical indication for surgery, for gender
5 former president refer to groups of people as	5 affirming surgery, is the condition of gender
6 rapists and criminals?	6 dysphoria.
7 MS. HUPPERT: Object to form.	7 Q. Does the condition of gender dysphoria
8 A. Can you be more specific to whom you're	8 require there to be distress caused by someone
9 referring and to a specific instance?	9 having a gender identity that is not aligned with
10 Q. Have you ever do you recall Donald Trump	10 their physical sex characteristics?
11 stating that people coming across our southern	11 MS. HUPPERT: Object to form.
12 border - referring to Hispanic individuals - were	12 A. So gender dysphoria is is a
13 rapists and criminals?	13 manifestation of gender incongruence, one's
14 MS. HUPPERT: Object to form. Object	14 identity not being consistent or congruent with
15 to scope.	15 their physical anatomy, typically external
16 A. I remember certainly Donald Trump. I can't	16 typically with their anatomy.
17 remember the or don't have the specific	17 Q. And if everyone is an individual, then what
18 quotations he used to refer to individuals, whether	18 is the cause of the distress? What is it that is
19 they're crossing the southern border or not.	19 making someone believe that their gender identity
20 Q. And would you agree with me if Donald Trump	20 does not match with their external characteristics
21 said that, that he is applying a stigma or a	21 of their genitals?
22 stereotype to a certain group of people?	22 MS. HUPPERT: Object to form.
23 MS. HUPPERT: Same objection.	A. I don't make the diagnosis of gender
A. I'm sorry, if someone well, if someone	24 dysphoria.
Page 114	Page 116
1 were applying a generalization to an individual	1 Q. So do you not understand the diagnosis wel
2 person without knowledge of who that person is, I	2 enough?
3 would say they're wrong, without knowing the	3 A. I work with colleagues who provide
4 qualities or characteristics of that individual.	4 assessments regarding the diagnosis, just as I work
5 Q. And I don't disagree with you. I think	5 with used to working more frequently with
6 it's also wrong. But I believe and I believe	6 oncologists who made diagnoses of cancer.
7 that you can testify that that is something that	7 There are experts in those particular
8 happens in America every single day, that a	8 areas.
9 generalization is applied to an individual based on	9 Q. Okay. So do you understand what you're
10 physical characteristics.	10 actually treating when you are performing these
11 Is that true?	11 gender affirming surgeries?
12 MS. HUPPERT: Same objection.	12 A. I'm treating the medical
13 A. Again, if you can give me a specific	13 MS. HUPPERT: Pardon me, object to
14 instance, I can try my best to speak to it. But I	14 form.
15 can't speak for how all of America applies.	15 You can go ahead.
16 Q. So is it your testimony that your patients	16 A. I'm treating the medical condition of
17 who are transgender do not experience any sort of	17 gender dysphoria.
18 stigmatization or stereotyping?	18 Q. And what symptom are you attempting to
19 MS. HUPPERT: Object to form.	19 alleviate?
20 A. So I treat my patients on an individual	20 A. We are making one's body congruent with
21 basis. I provide care on an individual basis,	21 their mind, with their identity.
•	22 Q. Is incongruence alone sufficient for
	23 someone to undergo gender affirming surgery?
•	24 MS. HUPPERT: Object to form.

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WILLIAM CROUCH, ET AL	03/28/2022
Page 1	7 Page 119
1 A. So as I said, my indication is typically	1 MS. HUPPERT: Object to form.
2 gender dysphoria. Is it conceivable that someone	2 A. Gender dysphoria is a medical condition.
3 with gender incongruence may not have dysphoria?	3 Fortunately, treatable.
4 Yes.	4 Q. And is there any diagnostic manual other
5 Is it conceivable that someone with	5 than the DSM-V that identifies gender dysphoria as
6 gender incongruence would request a surgical	6 a medical condition?
7 intervention? Yes.	7 MS. HUPPERT: Object to form.
8 As I said, I would have to look back,	
9 but my typical indication is gender dysphoria.	9 dysphoria.
10 Q. How is someone's how does someone	10 Q. What other DSM-V diagnoses do you perform
11 experience gender incongruence if there aren't	11 surgery to treat?
12 societal pressures about what gender actually is	? 12 A. I don't make DSM-V diagnoses. We perform
13 MS. HUPPERT: Object to form.	13 surgery for medical conditions
14 A. So again, I don't make those diagnoses, but	14 Q. I understand
15 there are also the while society may play a	15 A of which gender dysphoria is one.
16 role, the individual's internal sense of identity	16 Q. I understand. Are you saying that it is
17 may be disparate or incongruous with their physical	17 not a DSM-V gender dysphoria is not a DSM-V
18 anatomy.	18 diagnosis?
19 Q. And again, what makes someone's identity	-
20 tied to or supposed to be tied to or supposed to	20 not mean it's not a medical condition and we
	21 perform I perform surgery for the medical
21 not be tied to who is saying that it should be	
22 tied to their anatomy?	22 condition of gender dysphoria.
23 MS. HUPPERT: Object to form.	23 Q. Are there any other DSM-V diagnoses that
A. I'm sorry, you're again, you're cutting	24 you perform surgery to treat?
 Page 1 1 a little in and out. Q. I'm sorry. So the you said that there 3 is an incongruence between their sense of gender 4 and their anatomy. Is that correct? 5 A. There's an incongruence between their 6 gender identity, their internal sense of who they 7 are, and their physical morphology, their anatomy. 8 Q. Okay. Why are those two things 9 interrelated at all? 10 MS. HUPPERT: Object to form. 11 A. As I said earlier, I don't make that 12 diagnosis. My role is making the body congruent 13 with their identity. 14 Q. And if you make someone's body congruent 15 with their identity, does that cure something or 16 alleviate something? 17 MS. HUPPERT: Object to form. 18 A. In the case of gender affirming surgery for 19 gender dysphoria - so again, in appropriately- 20 sought individuals - surgery is typically part of a 21 multi-faceted treatment plan and can alleviate or 	 A. Again, I don't make DSM-V diagnoses. The fact that there may be mental health manifestations of a medical condition does not mean that that that the condition is not a medical condition. Q. Physicians refer patients to you for treatment with surgery of DSM-V diagnoses other than gender dysphoria. MS. HUPPERT: Object to form. A. Again, my medical indication a surgical indication is the medical diagnosis of gender dysphoria. The fact that a medical condition may have mental health manifestation is not unique to gender incongruence.
 22 cure gender dysphoria. 23 Q. So is gender dysphoria a psychological 24 condition or a medical condition? 	 22 Q. Do you treat generalized anxiety disorder 23 with surgical intervention? 24 A. No.

CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

3 4 5 6 7 8 9 10 11 12 13 14	 those mental health conditions may improve after surgery is a potential benefit of the surgical procedure. Q. Have you ever performed a surgery with the sole indication being obsessive compulsive disorder? A. No. Q. Do you perform surgery for individuals with body dismorphea? MS. HUPPERT: Object to form. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. It's my understanding it tends to be ineffective or not effective for that. Q. And when you say "ineffective," you mean that it does not alleviate the distress that that individual is experiencing? What is the measure of effectiveness? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat that, so that's not my clinic area of clinical focus.
21	A. With body dysmorphyic disorder?		-
22	Q. Correct.	22	not effective as a treatment surgery is not
23	A. Typically not.		effective as a treatment for body dysmorphyic
23 24	Q. Okay. Would you agree that an individual		disorder, can you elaborate at all on what you mean
24		~~	
	Page 122		Page 124
	with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form.	1 2 3	by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic
2 3	with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form.	2 3	by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic
2 3 4	with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body	2 3 4	by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder.
2 3 4 5	with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body dysmorphyic disorder.	2 3 4 5	 by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder. Q. And are you aware of what the measures of
2 3 4 5 6	 with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body dysmorphyic disorder. Q. Are you aware of any guidelines, medical 	2 3 4 5 6	 by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder. Q. And are you aware of what the measures of whether it's effective are?
2 3 4 5 6 7	 with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body dysmorphyic disorder. Q. Are you aware of any guidelines, medical literature anywhere that says that surgery is an 	2 3 4 5 6 7	 by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder. Q. And are you aware of what the measures of whether it's effective are? MS. HUPPERT: Object to form.
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2 3 4 5 6 7 8 9	 with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body dysmorphyic disorder. Q. Are you aware of any guidelines, medical literature anywhere that says that surgery is an appropriate treatment for body dysmorphyic disorder? 	2 3 4 5 6 7 8 9	 by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder. Q. And are you aware of what the measures of whether it's effective are? MS. HUPPERT: Object to form. A. I don't make that diagnosis, so nor do I treat that.
2 3 4 5 6 7 8 9 10	 with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body dysmorphyic disorder. Q. Are you aware of any guidelines, medical literature anywhere that says that surgery is an appropriate treatment for body dysmorphyic disorder? MS. HUPPERT: Object to form. 	2 3 4 5 6 7 8 9 10	 by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder. Q. And are you aware of what the measures of whether it's effective are? MS. HUPPERT: Object to form. A. I don't make that diagnosis, so nor do I treat that. MS. HUPPERT: Caleb, we're approaching
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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 23	 with body dysmorphyic disorder may suffer with distress caused by their physical appearance? MS. HUPPERT: Object to form. A. Again, I don't diagnose or treat body dysmorphyic disorder. Q. Are you aware of any guidelines, medical literature anywhere that says that surgery is an appropriate treatment for body dysmorphyic disorder? MS. HUPPERT: Object to form. A. I have not performed surgery for body dysmorphyic disorder. It is generally considered not effective for the condition of body dysmorphyic disorder? Q. Have you reviewed literature on the efficacy of surgery for body dysmorphyic disorder? A. Probably over the course of my career. Q. Do you have colleagues that perform surgery with the indication being body dysmorphyic disorder? A. I can't speak to all my colleagues' 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 by "not effective"? MS. HUPPERT: Object to form. A. That it does not treat body dysmorphyic disorder. Q. And are you aware of what the measures of whether it's effective are? MS. HUPPERT: Object to form. A. I don't make that diagnosis, so nor do I treat that. MS. HUPPERT: Caleb, we're approaching noon here central time. I'm just curious what you feel about a break. MR. DAVID: I'm good with a break. MS. HUPPERT: How do you feel about that, Doctor Schechter? THE DEPONENT: I'm good for a break, take care of a few things. (A recess was taken after which the proceedings continued as follows:) BY MR. DAVID: BY MR. DAVID:

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1 A. I am familiar, yes.	1 A. Yes.
2 Q. Okay. And have you reviewed those	2 MS. HUPPERT: Pardon me. Object to
3 guidelines in their entirety?	3 form.
4 A. Probably not in the sense that I don't dose	4 You can answer.
5 hormones and things like that.	5 A. Yes.
6 Q. Are you familiar with the statements made	6 Q. And what other procedures have you
7 by the Endocrine Society as it relates to childhood	7 performed on patients under the age of 18 other
8 desistance from gender dysphoria?	8 than bilateral mastectomy for the treatment of
9 MS. HUPPERT: Object to form.	9 gender dysphoria?
10 A. I don't recall those statements offhand.	10 MS. HUPPERT: Object to form.
11 Q. Could you tell me what desistance from	11 A. I have performed a vaginoplasty on
12 gender dysphoria means?	12 17-year-old 17-year-olds. And I believe
13 MS. HUPPERT: Object to form.	13 metoidoplasty.
14 A. Well, again, I don't treat children. My	14 Q. Can you explain what is involved in a
15 understanding is that the term "desistance" is for	15 vaginoplasty?
16 individuals - children, for example - who identify	16 A. Yes. The typical procedure involves
17 as transgender, whether that is sustained through	17 formation of a vulva and associated structures,
18 adolescence or if not sustained through	18 meaning clitoris and labia, removal of the penis
19 adolescence or adulthood, may be classified as	19 and testicles, most often construction of a vaginal
20 desistance.	20 canal.
21 Q. And are you aware that the Endocrine	21 Q. Is a vaginoplasty an irreversible surgery?
22 Society states that 85 percent of prepubertal	22 MS. HUPPERT: Object to form.
23 children with a childhood diagnosis of gender	A. Well, in the sense that could the surgical
24 dysphoria do not remain gender incongruent in	24 maneuvers be undone, the answer is yes. However,
Page 126 1 adolescence?	Page 128 1 that is a complex complex procedure would be
2 MS. HUPPERT: Object to form. Object	2 a complex procedure to do.
3 to scope.	3 Q. If the surgical maneuvers were undone,
4 A. Again, I probably read that. But as I	4 would that patient be able to produce sperm to
5 don't specifically treat children, that wouldn't be	5 create children?
6 an area of focus for me.	6 A. No. The
7 Q. All right. Now, what ages of patients do	7 MS. HUPPERT: I'm sorry. Object to
8 you treat?	8 form.
9 A. The oldest is 75; the youngest, on two I	9 You can answer.
10 believe on two occasions, maybe three occasions,	10 A. No. The orchiectomy would be permanent and
11 was 14.	11 irreversible.
12 Q. And what procedures have you performed on	12 Although prior to undergoing,
13 14-year-olds?	13 individuals are offered the option for sperm
14 A. A bilateral mastectomy.	14 preservation.
15 Q. Is that the only procedure that you've	15 Q. And so in the case of a vaginoplasty, you
16 performed on a 14-year-old?	16 stated that the penis and the testicles would be
17 A. Yes. For gender affirming surgery.	17 removed from the body. Is that correct?
18 might have	A. Well, the technically, the corporeal
19 Q. Right, of course. I to clarify, all of	19 bodies and a portion of the glands is removed and
20 these questions are going to be about gender	20 the testicles with spermatic cord. The penis is
21 affirming surgery. And have you performed	21 disassembled, so there are remnants used to form
22 procedures other than bilateral mastectomy on	22 the clitoris, the labial structures and the vaginal
23 patients who are under the age of 18?	
provenue unite elle elleret une ege el ter	23 canal.
24 MS. HUPPERT: Object to form.	23 canal.24 Q. So tissue from the penis is used to

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	construct the vaginal canal, labia and clitoris.	1	THE DEPONENT: If you'll give me one
2	A. Correct.		second, I'm going to raise my blinds. There's this
3	Q. Okay. In that case, where the penis and		terrible bright light and it's driving me crazy.
	testicles are removed for the purposes of gender	4	MR. AUVIL: Sorry about that. I don't
5	dysphoria, is that healthy tissue that is being		know how that happened. Must have I don't know.
6	removed?		Not used to being quiet for that long, I guess.
7	MS. HUPPERT: Object to form.	7	BY MR. DAVID:
8	A. The tissue that is the tissue	8	Q. All right. Doctor, we're back on the
9	contributes presence of the tissue contributes	9	record. And in the instance of a vaginoplasty,
10	to the diagnosis of the medical condition. So very	10	does the tissue of the penis have to be predispose
11	much like in other procedures, mastectomy or	11	to cancer for it to be removed?
12	oophorectomy or cisgender women who may be at an	12	MS. HUPPERT: Object to form.
13	increased risk of cancer but don't have cancer,	13	A. It does not have to be predisposed to
	tissue would be removed here for the purpose of	14	cancer in order in order to be removed. There
	treating the dysphoria and preventing for	15	are often involutional changes associated with the
	treating the dysphoria.		testes and the penis found on pathology.
17	•	17	
	that's removed from the penis, does it have to have		was "involutional" is that correct?
	a any type of disease to be removed?	19	
20		20	
21	-	21	A. Atrophy.
	that of the organ, the penis, that may lead to	22	Q. All right. So is atrophy generally an
	the diagnosis of gender dysphoria in the context of		indication for surgical removal of tissue?
	the identity not being congruous with the mind.	24	
1	Page 130 Q. Okay. Does it have to have necrotic tissue	1	Page 13 is gender dysphoria, typically gender dysphoria.
	-		The pathologic findings in the tissue samples often
3	MS. HUPPERT: Objection to form.		indicate atrophy or involutional changes of the
	A. No, it does not have to have necrotic		structures we discussed.
4	tissue to be removed.	5	Q. Are you aware of any other surgery other
6	Q. Does it have to have gangrenous tissue to	-	than gender affirming surgery that is performed du
	be removed?		to atrophy?
		8	MS. HUPPERT: Object to form.
8	A. It does not have to have gangrenous tissue	Ŭ	A. Wow. Procedures can be performed for
	to be removed. Similar to what we do, as we said,	9	
	in a oophorectomy for a cisgender woman with a risk		atrophy, depending on the specific circumstances.
11		11	Q. Do you remove body parts that are
	in a cisgender woman with or a cisgender man		atrophied?
	with a predisposition to breast cancer.	13	A. So, for example, if a cisgendered woman had
14	•		unilateral breast cancer, underwent mastectomy, as
	predisposition to cancer for the tissue to be		with age, she had involutional changes of the
			opposite breast, the contralateral breast, surgery
16	removed?		
16 17	A. I'm sorry, Mr. David. I think it's it	17	could then be performed on the contralateral breast
16 17 18	A. I'm sorry, Mr. David. I think it's it comes in and out.	17 18	could then be performed on the contralateral breast to provide symmetry.
16 17 18 19	 A. I'm sorry, Mr. David. I think it's it comes in and out. Q. I'm hearing something as well. I'm not 	17 18 19	could then be performed on the contralateral breast to provide symmetry. Q. So
16 17 18 19 20	 A. I'm sorry, Mr. David. I think it's it comes in and out. Q. I'm hearing something as well. I'm not sure what's going on there. 	17 18 19 20	could then be performed on the contralateral breast to provide symmetry. Q. So A. And that would go ahead.
16 17 18 19 20 21	 A. I'm sorry, Mr. David. I think it's it comes in and out. Q. I'm hearing something as well. I'm not sure what's going on there. MS. HUPPERT: There may be someone 	17 18 19 20 21	 could then be performed on the contralateral breast to provide symmetry. Q. So A. And that would go ahead. Q. No, I didn't mean to cut you off.
16 17 18 19 20 21 22	 A. I'm sorry, Mr. David. I think it's it comes in and out. Q. I'm hearing something as well. I'm not sure what's going on there. MS. HUPPERT: There may be someone with their who's off of mute. 	17 18 19 20 21 22	 could then be performed on the contralateral breast to provide symmetry. Q. So A. And that would go ahead. Q. No, I didn't mean to cut you off. A. It's all right.
16 17 18 19 20 21 22 23	 A. I'm sorry, Mr. David. I think it's it comes in and out. Q. I'm hearing something as well. I'm not sure what's going on there. MS. HUPPERT: There may be someone 	17 18 19 20 21 22 23	 could then be performed on the contralateral breast to provide symmetry. Q. So A. And that would go ahead. Q. No, I didn't mean to cut you off.

CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
Page 133	Page 135
1 atrophied tissue is surgically removed, other than	1 just described done outside of the context of
2 gender affirming surgeries?	2 gender affirming surgery?
3 MS. HUPPERT: Sorry, I did not mean to	3 A. Yes.
4 interrupt. My bad. Objection to form.	4 Q. Okay. And what were the indications for
5 A. So there are conditions such as hemifacial	5 those procedures that were outside the context of
6 atrophy, hemifacial microstomia hemifacial	6 gender affirming surgery?
7 atrophy, fat atrophy, which may occur, and are	7 A. They can be post-traumatic, post-oncologic,
8 treated surgically treated with the addition of	8 birth-related, effect of infection, radiation,
9 fat, for example, lipofilling or for facial	9 previous surgeries. That may not be completely
10 surgery.	10 enumerative, but I think that that is a reasonable
11 Q. And is lipofilling a medically-necessary	11 range.
12 procedure?	12 Q. And in each of those instances that you
13 A. Can be, depending on the indication.	13 just described - trauma or infection - you're
14 Q. In the instance of someone who has atrophy	14 talking about physical injuries to the tissue,
15 to their calves, would lipofilling be a	15 correct?
16 medically-indicated or a medically-necessary	16 MS. HUPPERT: Object to form.
17 procedure?	17 A. I have, I believe well, no, not
18 MS. HUPPERT: Object to form.	18 necessarily all have physical injuries. Birth-
19 A. It would be possible depending on the	19 related conditions may not be a physical injury
20 indication for that. Someone could be in a	20 consistent with how we're discussing trauma or
21 traumatic situation, have a congenital situation	21 cancer here.
22 that resulted in atrophy for which they might seek	22 Q. And those birth-related issues, were they
23 reconstructive surgery.	23 affecting the patient's functionality?
24 Q. And reconstructive surgery can be different	24 MS. HUPPERT: Object to form.
Page 134 1 than lipofilling, correct?	Page 136 1 A. Again, so for conditions like hemifacial
2 A. Well, as I said, there's no procedures that	2 atrophy, hemifacial microsomia resulting in an
3 are specifically cosmetically constructed. It's	3 obvious and overt discrepancy in appearance between
4 the basis upon which the procedure is performed.	4 the two sides of the face, those can and often are
	5 considered re well, they're considered
5 Q. And I'm specifically asking you about	6 reconstructive, and would not be uncommon to be
6 lipofilling for calves. That's the specific	
7 procedure. Is that a medically-necessary	7 reimbursed by a third party payer.
8 procedure?	8 Q. When you say "wouldn't be uncommon to be
9 MS. HUPPERT: Object to form.	9 reimbursed," does that mean that there are times
10 A. So it would depend on the clinical	10 where it's not reimbursed by a third party payer?
11 circumstances. If someone had a birth-related	11 A. I can't conceive of every situation in
12 condition from that, post-traumatic condition,	12 which I've treated and whether a third party payer
13 lipofilling may be indicated and considered	13 has agreed to pay, but a decision for medical
14 medically necessary.	14 necessity or if the physician, based upon their
15 Q. Have you ever performed a lipofilling of a	15 examination and opinion of the patient, that would
16 calf that you that was medically indicated and	16 determine medical necessity.
17 therefore medically necessary?	17 Whether insurers ultimately pay is a
18 A. I have performed medically necessary	18 different question. I mean, it wasn't until 1998
19 lipofilling procedures, meaning procedures	19 that breast reconstruction was covered.
20 performed for reconstructive purposes, on the face,	20 Q. So other than in the situation of a
	21 predispositioned cancer or when only one breast is
21 the breast, genitalia, arms, forearms, thighs.	
22 I can't say I can't say	22 affected by cancer and both breasts are removed in
23 specifically calf.	23 a double mastectomy, are you aware of any other
Q. And were any of those procedures that you	24 procedures outside of gender affirming care where

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r	D 407		Dece 120
1	Page 137 healthy tissue is removed from the body?	1	Page 139 Q. And are you aware of any lab tests that
2	MS. HUPPERT: Object to form.	2	would be useful in determining whether a patient
3	A. Well, I don't describe it as necessarily	3	requires a double mastectomy for gender dysphoria?
4	"healthy tissue" in the sense that it's the	4	MS. HUPPERT: Object to form.
5	etiology of the medical condition.	5	A. I there's a variety of lab tests that
6	Q. And a little bit ago, you told me that you	6	people may have to undergo prior to surgery.
7	do not actually diagnose this, and you refused to	7	Q. Okay. Are you aware of any that would be
8	answer some questions. So what is it about the	8	necessary and would indicate that a patient
9	medical condition now that you're in tune with	9	requires a double mastectomy for gender dysphoria?
10	exactly what the diagnostic criteria are?	10	MS. HUPPERT: Object to form.
11	MS. HUPPERT: Object to form. Object	11	A. So regardless of the diagnosis, lab tests
12	to characterization of the prior testimony.	12	don't require an individual to seek an intervention
13	A. I'm sorry, "diagnose this" meaning you	13	or not seek an intervention. They may or may not
14		14	be one part of the ultimate decision-making
15	Q. Diagnoses or the diag so now, let's talk	15	process.
16	about the diagnostic criteria for gender dysphoria.	16	But the ultimate decision as to
17	What are they?	17	whether or not to proceed with the surgical
18	MS. HUPPERT: Object to form.	18	intervention is a decision between the physician
19	A. As I said, I don't diagnose gender	19	and the individual seeking treatment.
20	dysphoria.	20	Q. Do you require lab tests from patients
21	Q. Okay. So what is it about in a	21	prior to performing gender affirming surgeries?
22	transgender man, what is it about the breast tissue	22	A. We typically do get labs prior to surgery.
	that requires it to be removed in a double	23	Rather, independent of gender identity.
	mastectomy?	24	Q. Right. Okay. So are there any that are
24	indeteeling i	1 A	
24	-		
24	Page 138		Page 140
24 1 2	Page 138 MS. HUPPERT: Object to form.	1	Page 140 specific to gender identity that you require for
1 2	Page 138 MS. HUPPERT: Object to form. A. So not all transgender men request removal	1	Page 140 specific to gender identity that you require for prior to gender affirming surgery?
1 2 3	Page 138 MS. HUPPERT: Object to form. A. So not all transgender men request removal of breast tissue. That's typically done in a	1 2 3	Page 140 specific to gender identity that you require for prior to gender affirming surgery? MS. HUPPERT: Object to form.
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CHRISTOPHER FAIN, ET AL vs., WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
Page 141	Page 143 1 and say, "Wow, this shows that you're doing a lot
 MS. HUPPERT: Object to form. A. Again, I'm not I don't make the 	2 better after this surgery for your gender
 A. Again, I'm not I don't make the 3 diagnosis of gender dysphoria, nor am I a primary 	3 dysphoria."
4 care professional, so might there be lab issues	4 There's nothing on a lab value that
5 that I am unaware of? It's possible.	5 would actually show you that. Correct?
6 I'm obtaining the labs to perform the	6 MS. HUPPERT: Object to form.
7 surgery in a safe, safe manner.	7 A. As with many medical conditions, lab values
8 Q. Okay. Are you aware of medical literature	8 may or may not be helpful in terms of the overall
9 that would suggest that lab values have any link to	9 diagnosis. I don't have a lab value that I would
10 a person's gender identity?	10 order to that I order to assess their level of
11 MS. HUPPERT: Object to form.	11 gender dysphoria.
12 A. There may be lab values that are pertinent	12 Q. Are there vital signs that you take to
13 based on the individual's medical condition and	13 assess someone's level of gender dysphoria?
14 previous medical treatments which may be related to	14 MS. HUPPERT: Object to form.
15 their medical diagnosis of gender dysphoria that	15 A. Well, in the sense that there are medical
16 may impact lab values and may need to be addressed	16 that medical conditions that can have
17 prior to surgery.	17 somatic manifestation, we monitor everything:
18 Q. Are you aware of any medical literature	18 Vital signs, medication, lab values.
19 that links a CBC to someone's gender identity?	19 Q. And do you monitor vital signs specifically
20 MS. HUPPERT: Object to form. Asked	20 to determine whether or not someone has an
21 and answered.	21 increased or decreased level of gender dysphoria?
22 A. Again, I'm performing the CBC for the	22 MS. HUPPERT: Object to form.
23 purpose of evaluating them for surgery, not to	23 A. We monitor the vital signs in relation to
24 diagnose them with gender dysphoria.	24 their recent surgery, and that helps us make
Page 142 1 Q. And are you aware of any values on a	Page 144 1 determinations. Many things go into vital signs,
2 complete metabolic panel that would be linked to	2 especially in the peri-operative period: Pain,
3 someone's gender identity?	3 stress, anxiety, blood loss, fluids. All of those
4 MS. HUPPERT: Object to form.	4 may have an impact on vital signs.
5 A. Again, while I we typically we don't	5 Q. Let's say six months after surgery, do you
6 always get a complete metabolic panel. It's	6 take a patient's vitals to see if their heart rate
7 typically less than that, a basic metabolic	7 has increased or decreased as a result of an
8 profile.	8 increase or decrease in the effects of gender
9 Again, I don't make the diagnosis. We	9 dysphoria?
10 often obtain that information for the purpose of	10 MS. HUPPERT: Object to form.
11 looking at kidney function, electrolytes, and	11 A. So our medical assistant typically takes
12 performing surgery in a safe, safe manner.	12 vital signs with both pre- and post-operative
13 Q. Are there any lab values you use post-	13 visits.
14 surgery to determine whether your surgery was	14 Q. And do you take those vital signs and use
15 successful for treating gender dysphoria?	15 those as a tool to measure the effects of gender
16 MS. HUPPERT: Object to form.	16 dysphoria on a person?
17 A. We obtain lab values post-surgically, but	17 MS. HUPPERT: Object to form.
18 again, it's within the context of the surgical	18 A. I incorporate all medical information in
19 care, not within the context of the medical	19 terms of the overall person, and if there are
20 condition gender dysphoria. Unless treatments for	20 abnormalities in vital signs, then we want to
21 that dysphoria was caused them to be on other	21 address them.
22 medications that may influence lab values.	22 Q. So how does gender dysphoria affect heart
23 Q. But there's nothing that you pull up after	23 rate?
24 you do surgery, you get lab work and you pull it up	A. Again, I'm not a primary care physician,

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

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1 but if someone had an elevated heart rate, I would	1 they're healing in terms of the incisions, the
2 speak with their primary care professional to	2 integrity of the incision, other parameters:
3 ascertain as to why.	3 Sensation, pain.
4 Q. How does gender dysphoria affect blood	4 And then patient overall reports of
5 pressure?	5 how they're doing.
6 A. Again, in a similar way that my primary	6 Q. Are patient goals an objective finding?
7 clinical area is not the investigation of blood	7 MS. HUPPERT: Object to form.
8 pressure. But should someone have low blood	8 A. Those are what we refer to as patient
9 pressure, problematically low blood pressure,	9 recorded outcome measures. So patient goals are
10 hypertension, we would want that conversely to	10 what the patient, obviously, would like to achieve
11 hypotension, we would want that communicated with	11 from surgery.
12 their primary care professional.	12 Whether those are achievable or
13 In conjunction with them, they would	13 realistic is part of the surgical the pre-
14 make a determination as to what factors may impact	14 operative discussion with the person seeking the
15 that.	15 intervention.
16 Q. Are you aware of any medical literature	16 The ability to measure that is an
17 that links tachycardia, bradycardia, hypotension or	17 increasing area of interest, both in plastic
18 hypertension to gender dysphoria?	18 surgery in plastic surgery, as well as within
19 MS. HUPPERT: Object to form.	19 gender affirming surgery.
20 A. Physical manifestations of medical	20 Q. Are patient goals an objective or
21 conditions can occur and do occur.	21 subjective finding?
22 Q. And are you aware of any medical literature	22 MS. HUPPERT: Object to form.
23 that links tachycardia, bradycardia, hypotension or	
24 hypertension to gender dysphoria?	24 patient reported outcome measures, are the goals
Page 146	Page 148
1 MS. HUPPERT: Object to form.	1 is that one of the goals is to be able to
2 A. Again, I don't treat tachycardia,	2 objectively assess whether goals are met by a
3 bradycardia, hypotension or hypertension, but4 medical conditions can impact those parameters.	3 procedure.4 Q. Can patients lie?
	5 MS. HUPPERT: Object to form.
5 Q. Okay. Can you please list all medical6 literature that you're aware of that links	6 A. Anybody can lie.
7 tachycardia, bradycardia, hypotension or	7 Q. All right. And so the patient could tell
8 hypertension, to gender dysphoria.	8 you that they have a bad outcome when they had a
9 MS. HUPPERT: Object to form.	9 good outcome; or they could tell you that they had
10 A. Again, I don't make a diagnosis of gender	10 a good outcome when they had a bad outcome,
11 dysphoria; nor do I treat tachycardia. In the	11 correct?
12 peri-operative period, I do have to be very aware	12 MS. HUPPERT: Objection to form.
13 of vital signs. Tachycardia, bradycardia,	13 A. That doesn't imply lying.
14 hypotension, hypertension, can be a manifestation	14 Q. Okay. So a patient can report to you
15 of multiple issues.	15 different goals than they actually have, correct?
16 Six months following surgery, I would	16 MS. HUPPERT: Object to form.
17 typically refer them to their primary care	17 A. That's part of the importance of the pre-
18 professional to make that determination.	18 operative assessment, so that it's not only the
19 Q. Okay. When you are assessing whether your	19 surgeon identifying working with the patient,
20 surgery, your gender affirming surgery, was	20 but also other professionals.
21 successful, what objective findings do you look at?	21 Q. There is no lab value that tells you a
22 A. So patient goals and expectations as we	22 patient goal, correct?
23 would with most or many plastic surgeries. Whether	23 MS. HUPPERT: Object to form.
24 those goals and expectations have been met. How	24 A. Well, I can't there are again, not

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
 WILLIAM CROUCH, ET AL Page 149 1 within necessarily the area of plastic surgery, but 2 patients may have goals on hormone levels, maybe a 3 goal as to a blood count, if someone has anemia. 4 So it would depend a bit more on what you mean by 5 "goals." 6 Q. Has any patient told you that they would 7 like gender affirming surgery to affect their iron 8 levels for anemia? 9 A. So individuals may be anemic - not uncommon 10 - prior trans women, prior to undergoing 11 surgery. And in fact, we often use iron prior to 12 surgery to elevate their hemoglobin. 13 Q. But the surgery itself is not going to cure 14 that, right? 15 A. Surgery gender affirming surgery is not 16 to be performed for the indication of any 17 (inaudible). 18 Q. And you can't do an MRI and determine a 19 patient's goals, correct? 20 A. Again, it would be more specific for what 21 you want. People try to estimate goals regarding 22 breast size, post-operative appearance, using 	Page 151 1 to determine what someone's goals are not to 2 look at parts of their body that they have already 3 looked into to goals for. Can I look in someone's 4 forearm and say, "Oh, well, that's where they keep 5 their goals." 6 It's not there, right? You're not 7 going to see that on an MRI. 8 MS. HUPPERT: Object to form.
23 various facial morphing strategies and so forth.	23 assessment, and that would be the typical manner by
24 So in the context of, for example,	24 which we hope to come to a mutual understanding as
 Page 150 1 imaging software, pre-operative photographs, you 2 can sit with a patient; they can identify what 3 their particular concerns are and what their goals 4 are, and you can make a mutual decision as to 5 whether those goals are achievable and/or 6 realistic. 7 Q. My question was: Can you do an MRI and 8 determine a patient's goals by looking inside their 9 body? 10 MS. HUPPERT: Object to form. 11 A. Again, you can do imaging tests to look, 12 for example, at breast volume; you can do imaging 13 tests to look at volume in other areas of the body, 14 to assess whether if you transfer tissue from one 15 area of the body to another, whether you will 16 achieve their goal. 17 So not trying to be glib. It's a bit 18 of a broad question that you're asking in terms of, 19 you know, "Can you use an imaging study, i.e., 20 MRI"? 21 Studies have been used with people to 22 understand what are achievable in their goals or 23 what is not achievable. 24 Q. And I'm asking if you can do an MRI study 	 Page 152 1 to what goals are. Q. Without that communication, is there any other way for you to determine a patient's goals? MS. HUPPERT: Object to form. A. Communication would be an important part of determining those. Q. Without that communication, are you able to 8 do a lab test and determine a patient's goals? MS. HUPPERT: Object to form. A. Communication would be the primary or principal methods of determining goals. We would then use adjunct studies, labs, imaging studies, as necessary to help arrive at a mutually-decided-upon course of treatment. So while one person may have goals, those goals may shift after a discussion of the various procedures. Individuals may or may not have an understanding of the realm or range of possibilities that are or are not available to them. Q. I'll try this one more time. If I go and get lab work and just send my lab work to you, can you tell me what my goals are?

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LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
1 MS. HUPPERT: Object to form.	Page 155 1 cancer and having a double mastectomy.
2 A. As I said before, the principal methods of	2 So can you explain to me why those
3 articulating goals would be communication with the	3 procedures are the same to you?
4 patient. That's not to say, though, that other	4 A. Again, individuals don't need to have
5 studies don't play a role into that shared	5 cancer to have a double to have a bilateral
6 decision-making process.	6 mastectomy or what we call risk reduction
7 Q. And if I just send you a CT scan or an MRI	7 mastectomy. Those may be individuals who are at an
8 and nothing else, can you tell me what my goals	8 increased risk of breast cancer.
9 are?	9 That doesn't mean that they will
10 MS. HUPPERT: Object to form.	10 ultimately go on to have breast cancer, and
11 A. I can't tell anybody you know, I can't	11 similarly, they can opt not to undergo mastectomy,
12 make a recommendation as to treatment without	12 and they can choose other intervention or no
13 seeing anybody. So regardless of one's gender	13 interventions.
14 identity, I need to sit and speak with the person15 regardless and examine the person, regardless of	14 So the technical act of a mastectomy, 15 in one indication, may be performed for cancer, to
16 the medical condition for which they're seeking an	16 reduce a risk of cancer, or to reduce or alleviate
17 intervention.	17 gender dysphoria.
18 Q. And if I send you lab work and nothing	18 Q. And your testimony is that the procedure is
19 else, can you tell me what my gender identity is?20MS. HUPPERT: Object to form.	19 the same regardless of the indication; is that 20 right?
	_
0	MS. HUPPERT: Object to form.A. There is a wide range of indications or
22 based on an isolated lab value without examining23 and speaking with the patient or their caregiver or	23 techniques used to perform mastectomy, whether for
24 caregiver or power of health attorney depending	24 gender affirming mastectomy or for a mastectomy
	24 gender animing mastectomy of for a mastectomy
Page 154 1 upon the medical position.	Page 156 1 pertaining to oncologic reasons or for risk
2 Q. Is pain an objective or a subjective	2 reduction mastectomies, meaning removing a breast
3 finding?	3 that is not cancerous but may have an increased
4 A. Pain is typically communicated by the	4 predilection or risk of breast.
5 patient based on - most often in the hospital - on	5 There are different ways to perform
6 a scale of 1 to 10. How individuals may perceive	6 that mastectomy, so as to how it would be performed
7 pain may differ between individuals.	7 compared to a gender affirming mastectomy, again,
8 Q. Is there a similar scale for patient	8 would depend upon the specific situation.
9 expectations?	9 Q. Now, you've said over and over again in
10 A. Again, the expectations are typically a	10 your written testimony that these procedures are
11 mutual discussion, a mutual understanding between	11 safe. And one of the reasons that you say that
12 the patient and the individual.	12 they're safe is they're the same surgical
13 Q. So when you are determining whether your	13 technique. Is that a true statement or not?
14 surgery has reduced the level of someone's gender	14 A. Yes, the surgical techniques are the same
15 dysphoria, what do you assess to determine that?	15 or similar, but you're asking me to compare two
16 A. That's typically a discussion and	16 unknowns. A nipple-sparing mastectomy for cancer
17 communication with the patient, as it is for many	17 is different than a nonnipple-sparing mastectomy
18 areas of plastic surgery, outside the realm of	18 for cancer. A skin-sparing mastectomy for cancer
19 gender affirming treatment.	19 is different than a nonskin-sparing mastectomy for
20 Q. Now, today and in your written report, you	20 cancer.
21 talk a lot about the similarities between the	20 cancer: 21 So there are a range of different
22 procedures, double mastectomy for a transgender man	0
23 and for someone who is experiencing cancer, whether	23 situations, I would need to understand the two
24 they're cisgender or not, but someone experiencing	23 sheatons, r would need to understand the two 24 specific situations.

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WIL	LIAM CROUCH, ET AL		03/28/2022
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1	Q. And I'm you do not make that sort of a		Most often for risk reduction mastectomies,
	designation within your written report that says		individuals also do not sample lymph nodes.
	that, "Well, there are certain types of surgical	3	For cancer surgeries which may be more
	techniques that I would use for cancer compared to		invasive, they may sample lymph nodes.
	surgical techniques that I would use for gender	5	Q. What are the morbidity rates of cancer
	dysphoria." You don't make that a distinction in		versus gender dysphoria?
	your report, do you?	7	A. Well, depends what you cancer is a broad
8	MS. HUPPERT: Object to form.	8	broad term.
9	A. There are a range of mastectomies that are	9	Q. I agree, and your report just says
10	performed based on the clinical conditions.		"cancer." So that's why I'm asking you about
11	Q. I'm going to quote from page 32 of your		cancer. What are the morbidity rates for cancer
	original report: "The fact that the medical		versus gender dysphoria?
13	community deems these analogous procedures	13	-
14	sufficiently safe to treat conditions other than	14	A. I don't treat cancer. I may treat
15	gender dysphoria is, by itself, more than	15	perform a mastectomy for risk reduction of cancer.
16	sufficient to support the safety of those surgeries	16	But I'm not the oncologist who would treat cancer
17	to treat gender dysphoria."	17	and would be able to answer a question regarding
18	Is that a true statement?	18	l forget what you said.
19	A. Yes.	19	Q. Morbidity.
20	Q. Okay. Do you state in here that there are	20	A. The viable morbidity of cancer. I would
21	different surgical techniques for mastectomy	21	need to know more about the specifics and whether
22	procedures for cancer patients than there are for	22	or not I treat that specific cancer.
23	gender dysphoric patients?	23	Q. Do you know what the rates of morbidity are
24	MS. HUPPERT: Object to form.	24	in people pre- and post-operative for reduction
	Page 158		Page 160
1	A. I didn't say they're necessarily different.	1	mammoplas or mastectomies, reduction
2	I said there's a range of mastectomy procedures	2	mastectomies?
3	that may be performed for treating cancer or for	3	A. Again, that's a broad category, and it
4	reducing risk of cancer. The decision as to which	4	would depend upon the reason upon which a
5	type of mastectomy to be performed is a decision	5	mastectomy was being performed.
6	between the doctor and the patient.	6	In the area of risk reduction
7	There are a range of mastectomies that	7	mastectomy, those are performed on individuals who
8	may be used to within the realm of gender	8	have an increased risk, for example, of breast
9	affirming surgery, and they are all similar	9	cancer and may and significantly reduce the risk
10	they're all similar techniques.	10	- but don't eliminate the risk - of subsequently
11	Q. Is there any techniques that are techniques	11	developing breast cancer.
12	for removing cancer that are not used for a gender	12	Q. And that's do you know what the
13	affirming surgery?	13	reduction in risk is from a risk reduction
14	A. A modified mastectomy with lymph node	14	mastectomy?
15	removal would unlikely be used for gender affirming	15	A. You know, again to answer a specific
16	mastectomy in the absence of cancer.	16	question, I would need specific specific facts.
17	Q. Are there any other types of techniques	17	It tends to be the it tends to be the
18	that would be used for cancer but not for gender	18	intervention that provides the most significant
19			risk reduction in terms of reducing the risk of
20	MS. HUPPERT: Object to form.		cancer.
21	A. Again, mastectomies for cancer - either	21	Not complete we used to call them
	cancer or predilection or risk of cancer - run the		prophylactic mastectomies, but we recognize that
22			
		23	not everyone who undergoes a mastectomy with the
23	gamut of procedures. Typically for gender affirming surgery, we would not sample lymph nodes.		not everyone who undergoes a mastectomy with the hope of preventing cancer is successful.

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/202
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1 Q. What is the morbidity rate of gender	1 Q. Okay. Do you perform nonbinary surgeries?
2 dysphoria?	A. I'm sorry, you cut out.
3 A. Again, it needs you need to be more	3 Q. Do you perform nonbinary surgeries?
4 specific. I treat I perform surgery for gender	4 A. I operate on individuals who identify as
5 dysphoria.	5 nonbinary.
6 Q. What is the rate of gender dysphoria for	6 Q. And when I'm referring to nonbinary
7 individuals who do not undergo surgery?	7 surgeries, I'm referring to ones that do not the
8 MS. HUPPERT: Object to form.	8 end result is not someone having a penis or a
9 A. Again, I most of the individuals that I	9 vagina, such as a nullification surgery.
10 see do undergo surgical intervention for gender	10 Do you perform nullification
11 dysphoria.	11 surgeries?
12 Q. How are you able to measure the	12 MS. HUPPERT: Object to form.
13 effectiveness of your treatments if you don't know	13 A. I have not.
14 what the effects are pre-operatively?	14 Q. Okay. Have you performed phallus-
15 MS. HUPPERT: Object to form.	15 preserving vaginoplasty?
A. I don't I'm sorry, I don't know what	16 A. I have not.
7 "What the effects are pre-operatively" means.	17 Q. Do you know the standard for informed
18 Everyone is assessed not only by me, but undergoes	18 consent in West Virginia?
19 a multi-disciplinary assessment as well.	19 MS. HUPPERT: Object to form.
20 Q. What's the suicidality rate of individuals	20 A. In reference to?
21 with gender dysphoria who do not undergo surgery?	21 Q. To any medical procedure in West Virginia.
MS. HUPPERT: Object to form.	22 Do you know what the standard of what the
A. That is, again, a very broad question,	23 informed consent standard is?
24 because not all individuals who have gender	24 MS. HUPPERT: Object to form.
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1 incongruence or gender dysphoria either seek or	1 A. For an adult?
2 have access to medical and surgical interventions,	2 Q. Sure. For an adult.
3 and not all individuals request or require surgical	 A. I know what the medical community means by 4 "informed consent." Whether there's a different
4 interventions.	
5 So to say, you know, for someone who	5 definition of consent in West Virginia or whether
6 may not want to request a procedure or may not be a	6 the State has something aside from the usual
7 candidate for a procedure, I don't think is an	7 medical definition of informed consent, I don't
8 accurate comparison.	 8 specifically know. 9 Q. Okay. And what is your definition of
9 Q. What does the medical literature say is the	
10 reduction in suicidality after a patient undergoes	10 informed consent?11MS. HUPPERT: Object to form.
I1 gender affirming surgery?	-
I2 MS. HUPPERT: Object to form.	12 A. An individual it must be voluntary, so 13 noncoerced. Individual should be informed of the
A. So again, the indication for surgery is	
14 reduction is the alignment of body and gender	14 risks, benefits and alternatives of procedures.15 And typically there is a legal there's an age
15 identity, meaning gender dysphoria. While	
16 suicidality may also be lower for individuals	16 that may or may not be associated which may vary17 depending for health care depending upon the
17 following gender affirming surgery, the principal	
18 reason for treatment is gender dysphoria.	18 particular state, and the individual has to be
19 Q. So are you able to tell me what specific	19 competent to make a decision.
20 markers that you use to determine whether your	20 Q. How do you determine whether a patient is
A the atmosphere of manufact durants and a strend of	21 competent to make a decision?
• • •	
A. So that is, again, primarily discussion and	A. As I have for 28 years of medical practice,
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/2022
 WILLIAM CROUCH, ET AL Page 165 1 typically the legal age is 18, although there may 2 be variations in particular states for health care 3 consent or emancipated minors and so forth. 4 So that person is oriented, 5 nondelusional, no psychoses, their judgment's not 6 altered by or under the influence of a 7 particular substance. Those would be: They're 8 alert; they're aware of time, place, location. 9 Those would be the usual 10 considerations. 11 Q. Are there specific considerations for 12 competency that you undergo prior to gender 13 affirming surgery? 14 A. So while the surgeon will ultimately decide 15 whether or not to operate on an individual, the 16 pre-operative process requires an assessment 17 process so that there are additional individuals 18 involved in the decision-making and assessment of 19 the person seeking treatment. 20 Q. Okay. Who is involved in that process? 21 A. There are other individuals, maybe mental 22 health professionals, behavioral health 23 professionals, primary care professionals, who 	 Page 167 1 transplant surgery, bariatric surgery - and in 2 fact, there's an evolving area of prehabilitation 3 to specifically assess individuals undergoing a 4 variety of procedures for psychosocial risk 5 factors. 6 Q. Do you require a mental health assessment 7 prior to performing a mastectomy for cancer? 8 A. Again, it would depend upon the particular 9 situation. So for individuals who are undergoing 10 mastectomy for risk reduction mastectomy, there are 11 times where they will be referred to or seek 12 pre-operative psychosocial assessments. 13 That may be a mental health 14 professional, behavioral professional, a therapist, 15 because the implications of surgery may affect 16 may affect a variety of factors in their life. 17 Q. So in terms of a mastectomy for cancer, 18 it's on a case-by-case basis. For a mastectomy in 19 a gender affirming procedure, it is a requirement. 20 A. That is correct. 21 Q. Okay. And why is that? 22 A. Well, I think the importance of having a 23 multi-discipline or the multi-disciplinary
 24 perform assessments - depending on the nature of Page 166 1 the procedure - prior to undergoing prior to 2 recommending surgery and prior to the patient 3 undergoing surgery. 4 Q. Prior to a gender affirming surgery, do you 5 require a mental health assessment? 6 A. Yes. 7 Q. Do you require a mental health assessment 8 for nongender confirming surgeries, for anything 9 other than gender confirming surgeries? 10 A. It can, depending on the type of surgery, 11 so individuals may have mental health conditions 12 and I'm speaking outside now, this is for 13 individuals who do not have the medical condition 14 of gender dysphoria but may want other nongender 15 affirming treatments. 16 If there are questions, concerns, 17 history of mental health conditions, they very well 18 may seek additional assessment. That might be a 19 mental health professional, a behavioral health 20 professional, might be other medical medical 21 consultants or surgical consultants. 22 It's really based on the need of the 23 patient. But psychosocial assessments are 24 performed routinely in other fields of surgery - 	 24 assessment is very important, and in fact, I would Page 168 1 argue that it should be extended to other areas of 2 surgery. As we said, routinely in transplants and 3 bariatric surgery. 4 So I think looking for potential 5 issues that may affect or impact one's surgical 6 outcome is important. I think it's important for 7 patients to hear not only from the surgeon, but 8 from other professionals who may help shape or 9 guide their decision-making processes. 10 And again, not all individuals will 11 ultimately opt for a surgical intervention or the 12 entire range or spectrum of procedures that are 13 available. 14 Q. Are you familiar with patient needs 15 standard of informed consent? 16 A. I'm sorry, you said "patient" 17 Q. Are you familiar with the patient need 18 standard for informed consent? 19 A. Need, N-E-E-D? 20 Q. Yes. 21 A. I'm familiar as I said, I'm familiar 22 with the definition that I described previously. 23 I'm not familiar with the addition of the term 24 "N-E-E-D, need."

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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/2022
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1 Q. What do you tell a patient are the risks of	1 Practitioners, or for example, a physician
2 a procedure we've talked about vaginoplasty	2 assistant, who may also go over additional logistic
3 already, so let's just stick with that. What do	3 information with them and then, of course,
4 you tell a patient are the risks of a vaginoplasty	4 insurance-related issues, the need for assessments,
5 for with the indication of gender dysphoria?	5 pre-operative assessments, as we've just discussed,
6 A. So there are risks of any procedure:	6 whether or not there are other lab tests, x-rays,
7 Bleeding; infection; fluid accumulations or seroma;	7 mammograms, things of that nature, that need to be
8 wound disruptions or delayed healing; tissue loss,	8 undertaken.
9 tissue necrosis; injury to adjacent or other	9 Smoking cessation, risks of smoking.
10 structures. In the case of a vaginoplasty, that	10 We don't perform certain procedures on individuals
11 may be injury to the rectum, urethra, bladder.	11 who are actively smoking, and we test for nicotine
12 The procedure there may be systemic	12 in the urine. That would be a kind of a typical
13 risks such as venous thromboembolism. Patients may	13 consultation.
14 be unhappy with the procedure.	14 Q. Do you tell patients that you cannot
15 The procedure is sterilizing, so they	15 guarantee that they will that the procedure wil
16 will not be able following unless they have	16 alleviate the distress that they're feeling?
17 undergone, for example, sperm preservation, they	17 MS. HUPPERT: Objection.
18 will not be able to produce sperm after the	18 A. I
19 procedure.	19 MS. HUPPERT: Pardon me. Object to
20 That there will be after-care	20 form.
21 requirements. They'll need to care for,	21 You can answer.
22 potentially, drains, urinary catheters. There may	22 A. We tell people that they may be unhappy
23 be pain, redness, drainage from the incision.	23 with the results of surgery, that there are other
24 They'll need assuming they're	24 forms of treatment for gender dysphoria, some of
	24 Ionno or treatment for gender dysphona, some or
Page 170	Page 172
1 undergoing construction of a full vaginal canal,	1 which may or may not be helpful for them, so that
2 they'll need to dilate following surgery. So when	2 they are aware.
3 patients see me in the office, I'll also meet	3 That while surgery is useful for many
4 pre-operatively with our pelvic floor physical	4 people, other people may decline surgery or choose
5 therapist.	5 not to undergo surgery.
6 We'll go over many of these issues,	6 Q. Do you tell patients that some people will
7 including dilation, issues related to personal	7 still not consider them to be the gender that
8 hygiene, bowel and bladder assistance, should they	8 they're seeking to appear as?
9 need that.	9 MS. HUPPERT: Object to form.
10 I'll meet with our social worker to	10 A. Well, we do discuss and that's
11 discuss the pre-operative after-care plans for	11 important, I think, as part of the
12 surgery. If patients are traveling, it will depend	12 multi-disciplinary assessment, is again what the
13 on who is able to accompany them, whether or not	13 expectation of surgery is. Surgery is to align
14 they'll need a skilled nursing facility following	14 one's body with their identity, but there may be
15 surgery.	15 family relationships, personal relationships,
16 How much time due to the nature of	16 professional relationships that may be impacted by
17 their work, do they have to take off work. They	17 surgery, and surgery is not a cure or a fix-all for
18 may be unhappy with the results of surgery.	18 those.
19 I may be missing a few, but those are	19 The specific goal of surgery is to
20 largely the pre- and post-operative discussions	20 align one's body, you know, with with their
21 that I have, our physical therapist has, our social	21 mind.
22 worker has.	22 Q. What benefits do you tell patients that
23 I'll typically meet as well with our	23 they might obtain?
24 one of our APP's, Advanced Practice	A. Again, the goal is congruence of their body
2 TO ULVILATES, AUVAILUEUT TAULUE	

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Page 173 1 and their identity. There may be other for a 2 transgender man seeking mastectomy who may have 3 back pain, neck pain, a variety of other issues 4 that may be related to binding or large pendulous	Page 175 1 prescriptions and hospitalization after a suicide 2 attempt. 3 A. I mean, I agree. Yeah, that's what you 4 described. And that's what it says, yes.
5 breasts, there may be other benefits from that in	5 Q. So mood and anxiety health care visits are
6 terms of pain, posture, neck pain, back pain and so	6 something that we could count, right?
7 forth.	7 A. I mean, I don't you know, I can't speak
8 Q. Are you familiar with the Branstrom and	8 to exactly how they do that in Sweden. It's not
9 Pachankis study?	9 part of my clinical practice. But I believe they
10 A. I am.	10 are able in this study to count them.
11 Q. Okay. Do you disclose the results of that	11 Q. And antidepressant and anxiolytic
12 study to your patients?	12 prescriptions, you can count those too, right?
13 A. I don't discuss typically individual	13 A. Again, I can't speak in generalities as far
14 studies with patients. If patients ask about a	14 as how people I can speak to what they said in
15 particular study, if I'm aware of it, I'll discuss	15 the study, but I can't speak to the veracity of how
16 it. If I'm not aware of it, I'll look it up.	16 they did the quantification of these methods. They
17 Q. And that particular study was	17 appeared they appeared to quantitate them or
18 retrospective, right?	18 attempt to quantitate them.
19 A. I don't recall. If you have it and want to	19 Whether it's accurate or not, you
20 put it up, I can	20 know, that I can't specifically speak to or how
21 Q. I can pull it up for you. And I'll see if	21 Sweden monitors prescription and so forth.
22 I can't make it a little bit larger. I think it	22 Q. Sure. And then hospitalization after a
23 gets bigger after the	23 suicide attempt is also something that you can
A. I don't know. Maybe you can hit that	24 count, correct?
	D 170
Page 174 1 you know, that box. That might help you know.	Page 176 1 MS. HUPPERT: Object to form.
1 you know, that box. That might help you know,	1 MS. HUPPERT: Object to form.
 you know, that box. That might help you know, the box up in the no, the by the X up on the 	1MS. HUPPERT: Object to form.2A. Again, that's what their methodologies
 you know, that box. That might help you know, the box up in the no, the by the X up on the upper 	1 MS. HUPPERT: Object to form. 2 A. Again, that's what their methodologies 3 you know, I can't speak to the integrity of their
 you know, that box. That might help you know, the box up in the no, the by the X up on the upper Q. Oh. 	 MS. HUPPERT: Object to form. A. Again, that's what their methodologies 3 you know, I can't speak to the integrity of their 4 methodology, but yes, that's what they are
 you know, that box. That might help you know, the box up in the no, the by the X up on the upper Q. Oh. A. Yeah. 	 MS. HUPPERT: Object to form. A. Again, that's what their methodologies you know, I can't speak to the integrity of their methodology, but yes, that's what they are reporting in the Methods section of this study.
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 you know, that box. That might help you know, the box up in the no, the by the X up on the upper Q. Oh. A. Yeah. Q. Oh, I didn't realize it was doing that. I'm sorry. A. That's okay. Q. All right. So you're familiar with this "Reduction in Mental Health Treatment Utilization Among Transgender Individuals After Gender- Affirming Surgeries: A Total Population Study." A. I am. Q. And you can see in the Methods section that they used the Swedish Total Population Register which is linked to the National Patient Register and the Prescribed Drug Register and they looked at individuals who received a diagnosis of gender incongruence between 2005 and 2015. Mental health treatment in 2015 was examined as a function of length of time since gender affirming hormone, surgical treatment. Outcome measures were mood and anxiety disorder 	 MS. HUPPERT: Object to form. A. Again, that's what their methodologies you know, I can't speak to the integrity of their methodology, but yes, that's what they are reporting in the Methods section of this study. Q. Thanks. And I'm just saying that that's something that you, if you were examining this within your own patient population, you could count the number of hospitalizations after a suicide attempt, right? MS. HUPPERT: Object to form. A. Presumably. But it would be more difficult as we don't have a total population register in the United States, so Q. Well A there are going to be some differences in how things are going to be done. Q. Okay. And the Conclusion of the study - I'll just read it - "In this first total population study of transgender individuals with a gender incongruence diagnosis, the longitudinal association between gender affirming surgery and reduced likelihood of mental health treatment lends
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Page 177 1 surgeries to transgender individuals who seek	Page 179 1 subsequent mood or anxiety disorder-related health
2 them."	2 care visits or prescriptions or hospitalizations
	3 following suicide attempts in that comparison."
3 Did I read that correctly?	
4 MS. HUPPERT: Object to form.	4 MS. HUPPERT: Pardon the interruption.
5 A. I would say you read it correctly.	5 Objection to form.
6 Q. Okay. And are you aware that two months	6 Counsel, we would also ask that you
7 after this was published, Branstrom and Pachankis	7 introduce both of these as exhibits for clarity of
8 issued a correction to this?	8 the transcripts.
9 A. Yes. I believe the Journal issued I	9 MR. DAVID: That's fine. Mark the
10 don't know if it was the authors, but I am aware	10 original as Exhibit 1 and the correction as Exhibit
11 that there was a correction. I don't know who	11 MS. HUPPERT: Thank you.
12 authored the correction.	12 SCHECHTER DEPOSITION EXHIBIT NOS. 1 and 2
13 Q. Okay. And I don't know if this I just	13 (Article entitled "Reduction in Mental
14 pulled up I don't know where it's from exactly.	14 Health Treatment Utilization
15 MS. HUPPERT: Counsel, for clarity of	15 Among Transgender Individuals After
16 the transcript, do you intend to mark this as an	16 Gender-Affirming Surgeries: A Total
17 exhibit?	17 Population Study" by Richard
18 MR. DAVID: I wasn't planning on it,	18 Bränström, Ph.D. and John E.
19 no.	19 Pachankis, Ph.D. and the correction to
20 Q. I don't know what my screen is showing	20 said article were marked for
21 right now. So right now, is it showing the	21 identification purposes as Schechter
22 original article?	22 Deposition Exhibit Nos. 1 and 2.)
23 A. It's showing the first page of the	23 Q. Now, Doctor, do you disclose to your
24 original.	24 patients that there is a study that says that
Page 178 1 Q. Okay. And now is it showing something that	Page 180 1 found that there is no advantage of surgery in
2 says, "Correction to Branstrom and Pachankis?"	2 relation to subsequent mood or anxiety disorder-
3 A. It does.	3 related health care visits or prescriptions or
4 Q. Okay. And about halfway down where it's	4 hospitalizations following suicide attempts in
5 highlighted, this specific where I've	5 their study?
	-
6 highlighted the word "Given," they state: "Given	6 MS. HUPPERT: Object to form.
7 that the study used neither a prospective cohort	7 A. Yeah, so my indication for surgery is
8 design nor a randomized controlled trial design,	8 gender dysphoria, not mood or anxiety
9 the conclusion that 'The longitudinal association	9 prescriptions. So the indication for surgery is
10 between gender affirming surgery and lower use of	10 gender dysphoria, and this study did not look at
11 mental health treatment lends support to the	11 gender dysphoria. That's one one consideration
12 decision to provide gender affirming surgeries to	12 with this particular study.
13 transgender individuals who seek them' is too	13 And the fact that individuals need
14 strong."	14 ongoing care or support is not unique to the
15 Did I read that correctly?	15 individual in gender affirming intervention.
16 A. It is read	16 Since we've been talking about cancer
17 Q. Okay.	17 all day, someone may undergo a mastectomy and
18 A. It was read correctly, yeah.	18 there's expectations that they'll continue to
19 Q. And the sentence right before that says,	19 follow with their oncologist or medical
19 Q. And the sentence right before that says,20 "While this comparison was performed	19 follow with their oncologist or medical20 oncologist, radiation oncologist, surgical
20 "While this comparison was performed	20 oncologist, radiation oncologist, surgical
20 "While this comparison was performed21 retrospectively and was not part of the original	20 oncologist, radiation oncologist, surgical21 oncologist, plastic surgeon.
20 "While this comparison was performed21 retrospectively and was not part of the original22 research question given that several other factors	 20 oncologist, radiation oncologist, surgical 21 oncologist, plastic surgeon. 22 So that people may continue to seek
 20 "While this comparison was performed 21 retrospectively and was not part of the original 22 research question given that several other factors 23 may differ between the groups, the results 	 20 oncologist, radiation oncologist, surgical 21 oncologist, plastic surgeon. 22 So that people may continue to seek 23 treatment, whether medical or mental health, is
20 "While this comparison was performed21 retrospectively and was not part of the original22 research question given that several other factors	 20 oncologist, radiation oncologist, surgical 21 oncologist, plastic surgeon. 22 So that people may continue to seek 23 treatment, whether medical or mental health, is

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1 But can you go back to the original	1 nature of the cancer, whether it's spread in the
2 article? Okay. Can you scroll down for me more?	2 lymph nodes. People who, again, have risk
3 Q. Yep.	3 reduction mastectomies who don't have cancer,
4 A. And keep just keep okay, next page.	4 sometimes you do find cancer in those specimen.
5 Let's see. Can you keep going? Keep going. Keep	5 But those individuals still require
6 going. And keep going. And keep going. I'm	6 ongoing follow-up in that area
7 sorry, keep I apologize.	7 Q. And that's what
8 Q. No, you're fine.	8 A both personal and professional both
9 A. Okay. Keep going. Okay, let's see. Thank	9 self breast exams, for example, and physician-
10 you. Keep going. Okay, yeah.	10 guided exams.
11 So this: What's interesting is that	11 Q. And the follow-up for patients with cancer
12 in anyone after three years following surgery,	12 include PET scans to determine if there were any
13 there were no suicide attempts in these	13 more potentially malignant areas, correct?
14 individuals.	14 A. Again, that would depend on the type of
15 So again, gender affirming surgery is	15 cancer that was involved. Whether additional
16 not a treatment specific for suicide, but what I	16 studies are needed or not needed would depend on
17 did find interesting was that there were no suicide	17 the specifics at the time.
18 attempts in individuals who were out three years	18 Q. And for patients with gender dysphoria,
19 from surgery, and I believe the authors comment on	19 were you able to do a scan after a surgery to
20 this.	20 determine the level of gender dysphoria?
21 So you know, the fact that individuals	21 A. Again, the resolution or reduction of
22 may seek additional mental health care, I would	22 dysphoria is typically communicated by the
23 encourage people who need mental health care to	23 individual, and the fact that an individual may
24 seek that. And the problem is if we deny or	24 request or require ongoing mental health is really
Page 182 1 stigmatize mental health care, and again, try to	Page 18 1 not particularly relevant as to the need for
2 prevent the important ongoing access to medically-	2 surgery.
3 necessary care.	3 I would encourage anyone - whether
4 So I don't specifically - to answer	4 they have gender dysphoria or not - who feels they
5 your question - disclose this study, because it	5 need mental health care to seek it.
	5 need mental health care to seek it.
6 decent answer the question of gender dysphoria	6 O Are you familiar with and I'm I
	6 Q. Are you familiar with and I'm I
7 and the fact that people may need ongoing care is	7 apologize. I'm going to absolutely butcher this.
7 and the fact that people may need ongoing care is8 not unique to gender affirming surgery.	 7 apologize. I'm going to absolutely butcher this. 8 the Dhejne study?
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

1	LIAM CROUCH, ET AL		03/28/2022
1	Page 185		Page 187
	study?	10	time, 1973 to 1988, and then 1989 to 2003. And
2	A. I mean, I've read it many, many times,		there were distinctions between those early groups,
	whether for conferences, presentations, training,		groups that underwent surgery prior to, for
	education, previous legal work. So I've read it a		example, the development of Standards of Care in
5	number of times. I can't tell you how many or	5	'79 and then subsequent to that in 1989 and 2003.
6	Q. And what have you been able to take away	6	Q. Okay. Are you are your concerns with
7	from that study to use as a physician?		this study that they may have selected the wrong
8	A. So if you have it, I'd appreciate it if you		patients for surgery or that the surgical
9	could	9	techniques were not appropriate or something else?
10	Q. And I can find it now, so	10	MS. HUPPERT: Object to form.
11	A. Okay.	11	A. Well, I think several concerns. Surgical
12	MS. HUPPERT: And we would just make	12	techniques have arguably improved over the years.
13	the same request about marking.	13	Indications and appreciations for selection of
14	MR. DAVID: Sure. We will make the	14	individuals undergoing surgery has improved.
	Cecilia study be Exhibit 3.		Again, general guidelines as for not only pre-op
16	SCHECHTER DEPOSITION EXHIBIT NO. 3		care, but post-operative care, have improved.
17		17	• • •
18	of Transsexual Persons Undergoing Sex		two time periods reflects that. Not probably
19	Reassignment Surgery: Cohort Study in		reflects that.
20	Sweden" by Cecilia Dhejne and others	20	
21	was marked for identification purposes		from this study?
22	as Schechter Deposition Exhibit No.	22	
23	3.)	23	
23 24			from this study?
24	Q. Toure now looking at what has been marked	27	nom this study i
	Page 186	1	Page 188
	as Exhibit 3. Is that the Cecilia that you were	1	A. I think that it's important to that the
	referring to?		multi-disciplinary nature of the care is important
3	A. I believe this is the same one we're both		within the realm of gender affirming care.
	referencing, yes.	4	I think the fact that individuals may
5	Q. Okay, good. Okay. And where do you need		need ongoing support, help, treatment, access to mental health services, behavioral health services,
_	me to scroll to?	6	mental nealth services behavioral nealth services.
7	A. If you can just scroll down a bit. Yeah,		
			medical services, is also important, and I think
	let me just refresh on it.	8	medical services, is also important, and I think what is positive and interesting about the study is
9	Q. Sure.	8 9	medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts
9 10	Q. Sure. A. Okay. And if you can scroll down again.	8 9 10	medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as
9 10 11	Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay,	8 9 10 11	medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003.
9 10 11 12	Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay, next. Next page.	8 9 10 11 12	 medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003. Q. And what do you attribute the reduction in
9 10 11 12	Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay, next. Next page.	8 9 10 11 12	medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003.
9 10 11 12 13	Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay, next. Next page.	8 9 10 11 12 13	medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003. Q. And what do you attribute the reduction in
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9 10 11 12 13 14	 Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay, next. Next page. Okay, we can keep going. Oh, wait, I'm sorry. Go I apologize. Can you go back up one? Q. Sure. A. I'm sorry. Can you keep going? 	8 9 10 11 12 13 14 15 16 17	 medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003. Q. And what do you attribute the reduction in suicide attempts to in the those two time frames? A. Again, our indication, as we've discussed for surgery is gender dysphoria, so the fact
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 9 10 11 12 13 14 15 16 17 18 19 20 	 Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay, next. Next page. Okay, we can keep going. Oh, wait, I'm sorry. Go I apologize. Can you go back up one? Q. Sure. A. I'm sorry. Can you keep going? Q. Keep going up? A. I'm sorry, down. Next page, yeah. Q. And we can keep going. Okay, let's keep 	8 9 10 11 12 13 14 15 16 17 18 19	 medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003. Q. And what do you attribute the reduction in suicide attempts to in the those two time frames? A. Again, our indication, as we've discussed for surgery is gender dysphoria, so the fact that there may be other benefits - perhaps reduced suicidality - may be a result of multiple factors: Refinements in selecting individuals for care; recognizing the importance of multi-disciplinary
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 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 	 Q. Sure. A. Okay. And if you can scroll down again. I'm sorry, yeah, keep going to next page. Okay, next. Next page. Okay, we can keep going. Oh, wait, I'm sorry. Go I apologize. Can you go back up one? Q. Sure. A. I'm sorry. Can you keep going? Q. Keep going up? A. I'm sorry, down. Next page, yeah. Q. And we can keep going. Okay, let's keep going. Okay, let's see. 	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 medical services, is also important, and I think what is positive and interesting about the study is the reduction, for example, in the suicide attempts between the two groups, that 1973 to '88 as compared to '89 to 2003. Q. And what do you attribute the reduction in suicide attempts to in the those two time frames? A. Again, our indication, as we've discussed for surgery is gender dysphoria, so the fact that there may be other benefits - perhaps reduced suicidality - may be a result of multiple factors: Refinements in selecting individuals for care; recognizing the importance of multi-disciplinary care; and recognizing what, for some people, may be

CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/202
Q. The rate of suicide attempts in the control	Page 19 1 transgender men, who have I can't say that
2 group was lower than that in the group that	2 someone who's undergone genital surgery has not had
3 underwent surgery, correct?	3 previous top surgery or we're not speaking and
4 MS. HUPPERT: Object to form.	4 laying out a plan over the course of time.
5 A. Yes, although I don't believe it reached	5 So I would have to say I can't recall
6 statistical significance in the '89 to '03 group.	6 an individual transgender man who sought bottom
7 Q. Okay. How does your informed consent	7 surgery who has not had top surgery.
8 process work for adolescents?	8 Q. Okay. And do you recall specific patients
9 A. So as we said, most of the adolescents	9 that have had top surgery transgender men who
10 would be individuals the majority of individuals	10 have had top surgery but not bottom surgery?
11 seeking mastectomy. So again, most individuals are	11 A. Yes.
	12 Q. And in those cases, do those patients
12 referred either from their pediatrician, their	13 intend to later get bottom surgery?
13 adolescent physician, their mental health	14 MS. HUPPERT: Object to form.
14 professional.	
15 We'd meet with the patient, the person	15 A. Again, it would depend on the individual
16 as well as their family caregiver, guardian,	16 patient. And I'm using, you know, "bottom surgery"17 with the catcher-wide net, so some patients may
17 whatever the particular circumstances may be.	
18 We'll have a discussion much like we	18 have had, for example, hysterectomy and19 oophorectomy but not phalloplasty or metoidoplasty
19 talked about for vaginoplasty, but applied more	
20 specifically to mastectomy.	 20 so some of those none of those procedures. 21 And the decision whether or not to
21 I'll speak with the individual,	
22 typically both with their parents or guardians or	22 proceed, again, would depend on the individual
23 caregivers in the room and also independent, should	23 person.
24 there be anything they want to tell in confidence.	24 Q. If a person undergoes a a transgender
Page 190	Page 19
1 We will then encourage the patient and	1 man undergoes a top surgery but does not desire a
2 their family to go home, consider the information,	2 bottom surgery, can are you still able to put3 that patient in congruence with their sex and their
3 read over the information and to contact me with	4 gender identity?
4 questions or concerns.	
5 And in what may be a parallel process,	 5 MS. HUPPERT: Object to form. 6 A. So as to any how any one patient
6 we may be obtaining the various assessments for 7 these individuals. Until that information is	
7 those individuals. Until that information is	
	7 proceeds with medical and surgical intervention
8 obtained and reviewed, we would not schedule	7 proceeds with medical and surgical intervention8 depends upon the specific cases, the situation of
8 obtained and reviewed, we would not schedule9 surgery.	7 proceeds with medical and surgical intervention8 depends upon the specific cases, the situation of9 the patient. As we talked, in many areas of
 8 obtained and reviewed, we would not schedule 9 surgery. 10 Q. Do you require parental consent for 	 7 proceeds with medical and surgical intervention 8 depends upon the specific cases, the situation of 9 the patient. As we talked, in many areas of 10 plastic surgery - most areas of medicine - there
 8 obtained and reviewed, we would not schedule 9 surgery. 10 Q. Do you require parental consent for 11 adolescents to undergo gender affirming surgery? 	 7 proceeds with medical and surgical intervention 8 depends upon the specific cases, the situation of 9 the patient. As we talked, in many areas of 10 plastic surgery - most areas of medicine - there 11 are a range of treatment options that are available
 8 obtained and reviewed, we would not schedule 9 surgery. 10 Q. Do you require parental consent for 11 adolescents to undergo gender affirming surgery? 12 A. It would require, I guess, consent of the 	 7 proceeds with medical and surgical intervention 8 depends upon the specific cases, the situation of 9 the patient. As we talked, in many areas of 10 plastic surgery - most areas of medicine - there 11 are a range of treatment options that are available 12 to people.
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	LIAM GROUCH, ET AL		
1	Page 193 didn't hear the	1	Page 1 but does not experience distress as a result of it,
2	Q. Let's start with gender incongruence. How		is that patient an appropriate candidate for gender
	do you determine whether it's medically necessary		affirming surgery?
	for that patient to undergo surgery?	4	MS. HUPPERT: Object to form.
5	A. So, you know, as we've said, it's most	5	A. By "distress," are you referring to the
	often the indication is gender dysphoria. Is it		diagnosis of the medical condition gender
	possible that I've operated on individuals who		dysphoria?
	experience gender incongruence who don't have	8	Q. I'm talking about someone whose gender
	gender dysphoria? Is it possible whether or not		incongruence which I'll start here. Under
	those procedures receive third-party coverage, I		the ICD-11 codes, gender incongruence is now a
	can't recall specifically.		separate diagnostic code, correct?
12	But far and away, with the diagnosis	12	
	of gender dysphoria, that would help determine the	13	
	basis of medical necessity.		recognized by WPATH in the eighth version of the
15	-		Standards of Care, correct?
	Q. Are you saying that gender incongruence	16	A. Presumably, yes. Although the Standards of
	without gender dysphoria is not an appropriate		Care specifically relate while a global
	indication for gender affirming surgery?		document, recognize the need for, you know,
8	MS. HUPPERT: Object to form.		additional diagnoses in order to access medical
19	A. No, I'm not saying that. It may have a		care in certain countries.
	basis as to whether a particular insurance company		
		21	Q. True. So the at least a draft of the
	clinical experience, I have to say, gender		eighth version of the Standards of Care which is
	dysphoria is the typical diagnosis, so I would have		obviously not supposed to be for broad
24	to say it would be unusual for someone not to be	24	dissemination, of course, was broadly disseminated
	Page 194		Page 1:
	experiencing or diagnosed with the medical		right?
	condition of gender dysphoria that then undergoes	2	A. Yeah. I don't I don't agree that it's
	surgery.		
			not for broad dissemination. I think the more
	That would probably be a far less	4	you know, the more input and more feedback we
5	That would probably be a far less common is a far less common situation, and I	4 5	you know, the more input and more feedback we receive is a good thing.
5 6	That would probably be a far less common is a far less common situation, and I can't recall off the top of my head a specific	4 5 6	you know, the more input and more feedback we receive is a good thing. Q. Sure. And I'm not I'm not suggesting
5 6 7	That would probably be a far less common is a far less common situation, and I can't recall off the top of my head a specific circumstance.	4 5 6 7	you know, the more input and more feedback we receive is a good thing. Q. Sure. And I'm not I'm not suggesting that it was that you were trying to that
5 6 7 8	That would probably be a far less common is a far less common situation, and I can't recall off the top of my head a specific circumstance. Q. And regardless of the frequency of the	4 5 6 7 8	you know, the more input and more feedback we receive is a good thing. Q. Sure. And I'm not I'm not suggesting that it was that you were trying to that WPATH was trying to hide it. There's just
5 6 7 8 9	That would probably be a far less common is a far less common situation, and I can't recall off the top of my head a specific circumstance. Q. And regardless of the frequency of the situation, my question is: If someone has gender	4 5 6 7 8 9	you know, the more input and more feedback we receive is a good thing. Q. Sure. And I'm not I'm not suggesting that it was that you were trying to that WPATH was trying to hide it. There's just something on the bottom of it that says that this
5 7 8 9	That would probably be a far less common is a far less common situation, and I can't recall off the top of my head a specific circumstance. Q. And regardless of the frequency of the situation, my question is: If someone has gender incongruence in the absence of gender dysphoria, is	4 5 6 7 8 9 10	you know, the more input and more feedback we receive is a good thing. Q. Sure. And I'm not I'm not suggesting that it was that you were trying to that WPATH was trying to hide it. There's just something on the bottom of it that says that this is not for I think it says "Not for
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6 7 8 9 10 11 13 14 15 16 17 18 19 20 21 22	That would probably be a far less common is a far less common situation, and I can't recall off the top of my head a specific circumstance. Q. And regardless of the frequency of the situation, my question is: If someone has gender incongruence in the absence of gender dysphoria, is that an appropriate indication for gender affirming surgery? MS. HUPPERT: Object to form. A. Again, I'd have to know more about the specific clinical situation. Q. What more would you need to know? A. Well, as with any individual, I'd have to have a history, physical exam, review their assessments, the basis for their request for surgery, again review their goals, their expectations, perhaps a discussion with either a	4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 you know, the more input and more feedback we receive is a good thing. Q. Sure. And I'm not I'm not suggesting that it was that you were trying to that WPATH was trying to hide it. There's just something on the bottom of it that says that this is not for I think it says "Not for Distribution" or something along those lines. But the draft is out there and accessible to people on the Internet, correct? A. Well, it was expressly for public comment, so I'm not sure what the disclaimer you know, it was designed for public comment, yeah. The fact the public is commenting on it, I think is the intention. Q. Okay. And let me pull this up and figure out where I was going to ask you a question abou because it's

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LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
Page 197 1 MR. DAVID: That's a good idea. I	Page 199 1 A. So let me again say that I don't make that
2 will figure out where I am, but I can promise you	2 diagnosis of gender dysphoria, so that's one. And
3 we're almost done, Doctor.	3 that two, to note, this is a draft a draft
4 THE DEPONENT: All right, wonderful.	4 document. So this may not represent the final
-	5 obviously the final report.
	6 Q. Sure. And noting that and understanding
	7 that, is that - this sentence that I have
	8 highlighted on Exhibit 5 - consistent with your
8 (Article entitled "Evidence-Based	
9 Patient Safety Advisory: Blood	9 understanding of the differences of those
10 Dyscrasias" by Haeck and others, the	10 diagnostic classifications?
11 WPATH DRAFT Version on the Standards	11 A. Again, I don't make those diagnoses, so I
12 of Care Version 8, the initial	12 don't want to that would be outside my typical
13 Schechter report, rebuttal Schecter	13 clinical area of expertise.
14 report were marked for identification	14 Q. Okay. You treat these diagnoses, correct?
15 purposes as Schechter Deposition	15 MS. HUPPERT: Object to form.
16 Exhibit Nos. 4, 5, 6 and 7.)	16 A. I treat gender dysphoria, correct.
17 BY MR. DAVID:	17 Q. Okay. Do you treat gender incongruence?
18 Q. Doctor, we are back on the record, and I	18 A. Yes.
19 was about to show you the WPATH Standards of Care	19 Q. Okay. And do you treat gender incongruence
20 eighth version draft that was draft and just so	20 surgically?
21 that we're all on the same page here, here is the	21 A. As I said previously, one must be
22 WPATH property confidential draft for public	22 transgender - meaning to have gender incongruence -
23 comment, not for distribution.	23 to experience gender dysphoria. So my indications
24 So that's what I was referring to	24 for surgery are gender dysphoria.
 earlier. But there are no page numbers on this particular document, and let me screen share so everyone is seeing what I'm seeing. There are no page numbers on this particular document, but it is page 72 of 359 that I'm specifically referring to. And Doctor, in this particular section of the draft Standards of Care, it's talking about the two diagnostic terms that we discussed already, gender incongruence and gender dysphoria, right? A. Okay. I can look. Okay. Q. All right. And in this paragraph that we're focused on, I'll highlight a sentence. It says, "One important reconceptualization in comparison to the DSM-V Gender Dysphoria classification is that distress is not a required indicator of the ICD-11 Gender Incongruence 	 Q. All right. So I'm going to scroll down here, and I think you'll be able to see both of these paragraphs, and I wanted to specifically ask you about and I'll scroll up some more. I think the is consistent with your testimony. It says that at least part of it. First I'll read it. "As noted before, not all transgender and gender diverse people experience gender dysphoria and this should not preclude them from accessing medical affirming care." First, did I read that correctly? A. Can I can you scroll I'd like to see what chapter this is contained in? Q. Oh, sure. A. Yeah. Let me see if I can find that. Under
 18 classification," and it's citing the World Health 19 Organization, 2019. 20 First, did I read that correctly? 21 A. It is read correct. 22 Q. Okay. Is that consistent with your 	 18 Statement 12A. 19 A. No, keep right. It will give a chapter 20 head. 21 Oh, okay, this is in the Adolescent 22 chapter, which is still undergoing revision.

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1	Page 201 not all transgender and gender diverse people	1	Page 20 whether primary care professionals, mental health
	experience gender dysphoria and this should not		professionals - to understand more about the
	preclude them from accessing medical affirming	3	request.
	care."	4	Q. All right. That's all I have for this one.
5	Did I read that correctly?	5	Let me stop
6	A. You did read that correctly.	6	Okay. A couple of things that I want
7	Q. Do you personally agree with that	7	to go back to, and then we'll be done. I promise,
8	statement?	8	we're getting very, very close now. You mentioned
9	MS. HUPPERT: Object to form.		earlier that you had one patient who I believe you
10			said you had performed a mastectomy on, and that
	and this specific chapter, the Adolescent chapter,	11	patient came back years later and informed you that
	is still undergoing revision and discussion. So I	12	that patient regretted their decision or I might
	can't provide a final comment until the final	13	be forgetting the procedure.
	document is released.	14	But do you remember what do you
15	Q. Okay. So you can't tell me whether you	15	know what I'm talking about?
	agree with that statement?	16	
17		17	A. So it was a an individual had breast
18		18	augmentation, but did not express regret; rather
	pertaining until the release of the document, so		or requested removal of the implant.
	I don't want to comment until as to the	20	•
21	specifics of the document until it's finally	21	transgender woman who received a breast
	released.	22	augmentation?
23	Q. All right. So you can't tell me whether or	23	A. That is correct.
24	not people who do not experience gender dysphoria	24	Q. Okay. And then following a period of
1	Page 202 can appropriately undergo surgical therapy.	1	Page 20 years, it sounded like - but you can narrow it if
2		2	you need to, but a period of years - the patient
3	-		
	A. So as I said, my indication for surgery is	3	returned to you and requested a removal of the
4	A. So as I said, my indication for surgery is gender dysphoria. How diagnoses or treatments may		returned to you and requested a removal of the implants.
	gender dysphoria. How diagnoses or treatments may	4	implants.
5 6	gender dysphoria. How diagnoses or treatments may evolve in the future, I can't necessarily predict.	4 5	implants. MS. HUPPERT: Object to form.
5 6 7	gender dysphoria. How diagnoses or treatments may evolve in the future, I can't necessarily predict.Q. Okay. Sitting where you are today, do you	4 5 6 7	implants. MS. HUPPERT: Object to form. A. That is correct.
5 6 7 8	 gender dysphoria. How diagnoses or treatments may evolve in the future, I can't necessarily predict. Q. Okay. Sitting where you are today, do you believe that it is medically necessary to perform 	4 5 6 7	implants.MS. HUPPERT: Object to form.A. That is correct.Q. Okay. Did you talk to the patient about
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

VILLIAM CROUCH, ET AL	03/28/2022
Page 205	Page 20
1 A. I believe that is the only person that I	1 I could locate 100 percent of our patients. We do,
2 have seen in consul that I have seen in	2 of course, have their contact information and
3 consultation for that.	3 emergency contact information.
4 Q. Outside of the pilot study and your ongoing	4 Q. And are you following up with them at that
5 study, do you do patient satisfaction surveys for	5 point to ask them whether they are still satisfied
6 all of your patients?	6 with the services that you provided?
7 A. The hospital might. I'm not I'm not	7 A. Well, I know that we've recently - because
8 sure. It's done as part of the study, so I think	8 of my practice transition - just sent a letter to
9 it's captured within the context of the study.	9 our last two or three years of patients, notifying
10 Q. What percentage of your patients continue	10 them of the of my change in practice location.
11 to have after-care with you after one year	11 So
12 following surgery?	12 Q. And did that notification provide them wit
13 MS. HUPPERT: Object to form.	13 a survey to fill out to tell you what their
14 A. I would estimate perhaps 20 percent,	14 satisfaction level was at that time?
15 perhaps 25 percent.	15 A. No. It asked them to or apprised them
16 Q. So are the 70 to or 75 to 80 percent of	16 of my new contact information.
17 patients who do not continue to receive after-care,	17 Q. Are you familiar with the body of
18 are those patients that it's no longer necessary	18 literature regarding detransitioning?
19 for them to be receiving after-care, or they're	19 MS. HUPPERT: Object to form.
20 lost to follow up?	A. I am familiar with the term "detransition."
21 MS. HUPPERT: Objection to form.	21 I'm not sure exactly what you mean by "the body of
A. I wouldn't describe it as "lost to	22 literature," if you can be more specific.
23 follow-up," because although someone may not see	23 Q. Sure. I believe that the author of the
24 me, we always leave the door open to contact the	24 study, the most recent one that I've seen, is
Page 206	Page 20
1 office.	1 Littman, did a study of 100 individuals who
 office. Q. Okay. So are you able to accurately 	 Littman, did a study of 100 individuals who detransitioned. Are you familiar with that?
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CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL

WILLIAM CROUCH, ET AL	03/28/2022
Page 209 1 that it appeared to be the version that did not	Page 211 1 Shauntae Anderson has requested prior authorization
2 have the correction appended.	2 for gender affirming surgery?
3 MR. DAVID: And I will note for the	3 MS. HUPPERT: Object to form.
4 record that I didn't ask any questions about it.	4 Sorry. Object to form.
	5 A. Same answer as previous: I read the
5 But I don't know that I have another version of6 this.	6 Complaints, but I don't recall whether there was a
	7 specific request for prior authorization.
7 MS. HUPPERT: Okay.	8 Q. And are you aware of any treating medical
8 MR. DAVID: I have no problem with	9 provider who has recommended gender affirming
9 making this an exhibit, but I didn't ask any	10 surgery for Shauntae Anderson?
10 questions about that. So we can do that if you'd	11 MS. HUPPERT: Object to form.
	12 A. I have seen no medical records, nor have I
12 SCHECHTER DEPOSITION EXHIBIT NO. 7	
13 (Article entitled "Individuals Treated	13 spoken with anyone involved in clinical care.
14 for Gender Dysphoria with Medical	14 Q. And I think that I poorly asked this
15 and/or Surgical Transition Who	15 earlier. In the case of an individual who desires
16 Subsequently Detransitioned: A Survey	16 top surgery but not bottom surgery, without both
17 of 100 Detransitioners" was marked for	17 surgeries, are you able to bring someone's gender
18 identification purposes as Schechter	18 identity into congruence with their sexual
19 Deposition Exhibit No. 8.)	19 characteristics?
20 Q. Are you aware of any other medical	20 MS. HUPPERT: Object to form.
21 literature regarding detransition, Doctor?	A. Well, the purpose of the of surgery as a
22 MS. HUPPERT: Object to form. Object	22 treatment for gender dysphoria is to align one's
23 to scope.	23 identity with their body. The decision to undergo
A. I am aware of literature that discusses	24 a particular medical or surgical intervention is
Page 210	Page 212
1 individuals who have undergone gender affirming	1 based on the specific circumstances, the individual
2 interventions and who subsequently request surgical	2 and a discussion that I have with the patient, a
3 reversal of their procedures.	3 risk/benefit analysis on the part of an individual.
4 Q. And have you performed other than the	4 So whether or not one particular
5 one patient that we've talked about, have you	5 individual chooses to undergo a particular
6 performed any surgical reversals of gender	6 treatment option, as with the range of other
7 affirming surgeries?	7 interventions in plastic surgery for other
8 MS. HUPPERT: Object to form.	8 conditions, really depends upon the specifics of
9 A. I have not.	9 the case, that person's risk/benefit analysis and,
10 Q. Are you aware of whether or not Christopher	10 as we've said before, not all individuals will
11 Fain has requested prior authorization for gender	11 elect to undergo all potential surgical options
12 affirming surgery?	12 that are available.
13 A. I am not aware. I did read the Complaint	13 Q. Have you had patients who are transgender
14 and Amended Complaint, but I don't recall whether	14 men who have undergone double mastectomy but have
15 or not there was a request for prior authorization.	15 not undergone a why am I I'm blanking.
16 Q. Are you aware of any treating medical	16 Transgender men who have undergone a double
17 provider of Christopher Fain who has recommended	17 mastectomy but not a phalloplasty?
18 gender affirming surgery?	18 Are have you had patients who have
19 MS. HUPPERT: Object to form.	19 done that?
20 A. I have not neither seen nor spoken with	20 MS. HUPPERT: Object to form.
21 or seen any seen his medical records or	A. I've had patients who are transgender men
22 spoken with anyone involved in the clinical care.	22 who have undergone top surgery, meaning mastectomy,
23 Q. And same questions for Shauntae Anderson:	23 but not a phalloplasty.
24 Have you seen or are you aware of whether or not	24 Q. And have those patients reported to you

CHRISTOPHER FAIN, ET AL vs. WILLIAM CROUCH, ET AL LOREN S. SCHECHTER, MD 03/28/2022

WILLIAM CROUCH, ET AL	03/28/2022
Page 213 1 that they felt congruent with their gender	Page 215
2 identity?	2 A. And can you read that to me? That citation
3 A. Again, that depends on the individual	3 in my report?
4 specifics. So what individuals may express, that	4 Q. "What does the scholarly research say about
5 in an ideal situation, they would undergo	5 the effect of gender transition on transgender
	6 well-being?" "What We Know," 2021, https://
6 phalloplasty, but for a myriad of reasons - as	
7 people do in making medical decisions in other	7 A. Okay, I've got it.
8 areas - they may or may not opt for a particular	8 Q. So do you recognize this article?
9 intervention.	9 A. Well, I recognize this that's what I was
10 Q. And so if I'm understanding you correctly,	10 saying. I think it's a web a web page.
11 I think you said for almost all medical procedures	11 Q. Okay. Who wrote this?
12 - maybe you said for all - it's dependent upon the	12 MS. HUPPERT: Object to form.
13 patient's history, physical examination, lab work	13 A. Can you scroll down?
14 that you obtained, imaging that you obtained, and	14 Q. Sure.
15 also patient goals, expectations, wants and	15 A. Yeah. Okay. Well, the cite refers to
16 desires. Correct?	16 articles written by the various authors here. If
17 A. And their understanding of the risks, the	17 you can scroll back up, I think there were eight
18 benefits, the alternatives. And depending on the	18 yeah, I believe they reference the eight findings
19 person, it may include other people who are	19 of the review.
20 relevant in their decision-making process: Spouse,	20 And if you can go to Home.
21 partner, parent, child.	21 So it appears to be the Center for the
22 Q. And those determinations and those findings	22 Study of Inequality at Cornell University.
23 are all individualized, correct?	23 Q. So do you know and I'll go back to the
A. That is correct.	24 page. Do you know who the researchers were on
Page 214	Page 216
1 Q. Okay. I wanted to ask you a couple	1 this?
2 questions about some of the literature that you	2 MS. HUPPERT: Object to form.
3 cited in your rebuttal report. Specifically, you	3 A. I again, I this page refers to other
4 cite to an article titled "What does the scholarly	4 articles. I don't know who wrote the web page.
5 research say about the effect of gender transition	5 Q. Okay. Is this web page peer-reviewed?
6 on transgender well-being? What We Know," and you	6 MS. HUPPERT: Object to form.
7 state that that is from the Center For Study of	7 A. Can you scroll actually, I'm sorry. Can
8 Inequality at Cornell University.	8 you go back to Home? Okay. Let me see. So this
9 Are you familiar with that?	9 is a and you can go back to the other page.
10 A. I am, but if you put it up, I can speak	10 Yeah, this is basically a web page
11 more specifically to it.	11 that directs to peer-reviewed literature.
12 Q. Okay. I'll see if I can find that real	12 A. Okay.
13 quick. Okay. Let me share this thing. All right.	13 MS. HUPPERT: The same question, if
14 Can you see what's on my screen now?	14 you don't mind marking just that a printout of
15 A. I can.	15 that web page that had the
16 Q. Okay. And do you recognize this as one of	16 MR. DAVID: I'll see if I can make
17 the articles that you cited to in your rebuttal	17 that happen. I don't see any reason I can't.
18 report?	18 SCHECHTER DEPOSITION EXHIBIT NO. 9
19 A. Can you just go up to the top?	19 (Cornell University web page entitled
20 Q. Sure.	20 "What does the scholarly research say
21 A. I don't know if this is the web study or	21 about the effect of gender transition
22 the article.	22 on transgender well-being" was marked
23 Q. Your citation which is Footnote 16 of your	
	23 for identification nurnoses as
24 report specifically has this website as the	for identification purposes asSchechter Deposition Exhibit No. 9.)

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CHRISTOPHER FAIN, ET AL vs., WILLIAM CROUCH, ET AL

LOREN S. SCHECHTER, MD 03/28/2022

r	Page 217	_		Page 219
1	MS. HUPPERT: Appreciate it.	1	STATE OF WEST VIRGINIA,	Fage 215
2	Q. There is an article that was written by	2	COUNTY OF JACKSON, to wit;	
-		3 4	I, Teresa S. Evans, a Notary Public within	
	Doctor Karasic that was titled "Age is Just a		and for the County and State aforesaid, duly	
	Number," and it was a I guess a review process	5	commissioned and qualified, do hereby certify that the foregoing deposition of DR. LOREN SCHECHTER was	
	where they spoke with WPATH surgeons about care	6	duly taken by me and before me at the time and	
6	that they provided. Did you participate in that?	7	place and for the purpose specified in the caption hereof, the said witness having been by me first	
7	MS. HUPPERT: Object to form.		duly sworn.	
8	A. Do you have can you show me the	8	T do funther contitut that the caid	
9	citation?	9	I do further certify that the said deposition was correctly taken by me in shorthand	
10	Q. I should be able to. Okay. So can you see		notes, and that the same were accurately written	
	this up on the screen?	10	out in full and reduced to typewriting and that the witness did request to read his transcript.	
12	A. I can, yes.	11		
13	Q. Okay. And I just want to know if you	12	I further certify that I am neither attorney or counsel for, nor related to or employed	
	-		by, any of the parties to the action in which this	
	participated in this survey.	13	deposition is taken, and further that I am not a relative or employee of any attorney or counsel	
15	A. I believe I did.	14	employed by the parties or financially interested	
16	Q. Okay. Do you remember if we went	15	in the action and that the attached transcript meets the requirements set forth within article	
	through this, would you be able to say, "This is me	15	twenty-seven, chapter forty-seven of the West	
18	talking"?	16	Virginia Code. My commission expires October 15, 2030.	
19	A. I think this was a while can you if	17	Given under m hand this 31st day of March, 2021.	
20	you scroll down. This was a while ago. Yeah, so	18	alless here	
21	it was published in '17, so, you know, submitted	19	Teresa S. Evans	
22	certainly before that, so I'm I'm not sure that	20	RMR, CRR, RPR, WV-CCR	
	I could identify my comments or whether any of my	21 22		
	comments are even included.	23		
- '		24		
	Page 218	,	555ATA 61657	Page 220
1	Q. All of the surgeons were anonymous, so I	1	ERRATA SHEET	Page 220
2	Q. All of the surgeons were anonymous, so I didn't know if I assumed that would be your	1 2	ERRATA SHEET I, DR. LOREN SCHECHTER, do hereby	Page 220
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2 3 4	Q. All of the surgeons were anonymous, so I didn't know if I assumed that would be your answer, but	2 3 4	I, DR. LOREN SCHECHTER, do hereby certify that the foregoing is a true and correct transcript of my deposition with the exception of the following corrections:	Page 220
2 3 4	Q. All of the surgeons were anonymous, so I didn't know if I assumed that would be your answer, but Okay. Then I'm not going to ask you	2 3 4 5	I, DR. LOREN SCHECHTER, do hereby certify that the foregoing is a true and correct transcript of my deposition with the	Page 220
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1	ERRATA SHEET
2	I, DR. LOREN SCHECHTER, do hereby
3	certify that the foregoing is a true and correct transcript of my deposition with the
4	exception of the following corrections:
5	PAGE LINE CORRECTION
6	44 10 Change "a case" to "adjacent to"
7	78 9 Change "what I've always" to "what's been"
8	118 20 Change "sought" to "selected"
9	121 21 Change "dysmorphyic" to "dysmorphic"
10	122 1, 5, 8, 12, 13, 16, 19 Change "dysmorphyic" to "dysmorphic"
11	123 1, 9, 23 Change "dysmorphyic" to "dysmorphic"
12	124 3 Change "dysmorphyic" to "dysmorphic"
13	128 18 Change "corporeal" to "corporal"
14	132 9 Change "wow" to "well"
15	132 13 Change "cisgendered" to "cisgender"
16	206 9 Change "reconstrution" to "reconstruction"
17	loren schechter
18	DEPONENT'S SIGNATURE
19	STATE OF VIRGINIA
20	COUNTY OF FAIRFAX
21	Sworn to before me,
22	VY NGOC THANH NGUYEN , Notary Public, this , 2021.
23	VY NGOC THANH NGUYEN
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ARTICLES

Reduction in Mental Health Treatment Utilization Among Transgender Individuals After Gender-Affirming Surgeries: A Total Population Study

Richard Bränström, Ph.D., John E. Pachankis, Ph.D.

Objective: Despite professional recommendations to consider gender-affirming hormone and surgical interventions for transgender individuals experiencing gender incongruence, the long-term effect of such interventions on mental health is largely unknown. The aim of this study was to ascertain the prevalence of mood and anxiety disorder health care visits and antidepressant and anxiolytic prescriptions in 2015 as a function of gender incongruence diagnosis and genderaffirming hormone and surgical treatment in the entire Swedish population.

Methods: This study used the Swedish Total Population Register (N=9,747,324), linked to the National Patient Register and the Prescribed Drug Register. Among individuals who received a diagnosis of gender incongruence (i.e., transsexualism or gender identity disorder) between 2005 and 2015 (N=2,679), mental health treatment in 2015 was examined as a function of length of time since gender-affirming hormone and surgical treatment. Outcome measures were mood and anxiety disorder health care visits, antidepressant and anxiolytic prescriptions, and hospitalization after a suicide attempt. **Results:** Compared with the general population, individuals with a gender incongruence diagnosis were about six times as likely to have had a mood and anxiety disorder health care visit, more than three times as likely to have received prescriptions for antidepressants and anxiolytics, and more than six times as likely to have been hospitalized after a suicide attempt. Years since initiating hormone treatment was not significantly related to likelihood of mental health treatment (adjusted odds ratio=1.01, 95% CI=0.98, 1.03). However, increased time since last gender-affirming surgery was associated with reduced mental health treatment (adjusted odds ratio=0.92, 95% CI=0.87, 0.98).

Conclusions: In this first total population study of transgender individuals with a gender incongruence diagnosis, the longitudinal association between gender-affirming surgery and reduced likelihood of mental health treatment lends support to the decision to provide gender-affirming surgeries to transgender individuals who seek them.

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Numerous studies indicate that transgender individuals that is, individuals who experience incongruity between their sex assigned at birth and their current gender identity—are at particular risk of psychological distress and associated impairment (e.g., suicidality) (1–3). This elevated risk is hypothesized to stem at least in part from transgender individuals' elevated exposure to stigma-related stress, also known as minority stress (4, 5), and it can also result from the stress associated with a lack of gender affirmation (i.e., the accurate recognition and validation of one's gender identity) (6). ICD-11 (7) specifies that individuals experiencing persistent discordance between their experienced gender and their assigned sex meet diagnostic criteria for gender incongruence.

To alleviate the stress of persistent discordance between experienced gender and assigned sex, an increasing number of transgender individuals who experience gender incongruence seek gender-affirming medical interventions, including hormone replacement therapy and gender-affirming surgeries (8). The World Professional Association for Transgender Health's *Standards of Care for the Health of Transsexual, Transgender, and Gender Nonconforming People* recommends consideration of these interventions for affirming transgender individuals' gender and alleviating gender-related stress (9).

Despite professional recommendations to consider genderaffirming medical interventions for transgender individuals who experience gender incongruence, the effect of such interventions on long-term mental health is largely unknown. Available evidence stems mainly from small samples utilizing cross-sectional designs and self-reported treatment exposures and mental health outcomes (2, 10, 11). A meta-analysis REDUCTION IN MENTAL HEALTH TREATMENT UTILIZATION AFTER GENDER-AFFIRMING SURGERIES

that aggregated data across nearly two dozen small-sample studies (10), mostly relying on cross-sectional designs, found positive associations between self-reports of receiving both hormone therapy and gender-affirming surgery and mental health. Several more recent uncontrolled studies of the effects of hormone replacement therapy on transgender individuals' mental health have found that transgender individuals' mental health improved for up to 24 months after initiating hormone therapy (11, 12).

Because of previous studies' limitations, including short assessment periods and the fact that existing probabilitybased surveys do not routinely assess transgender status or other aspects of gender diversity, insufficient evidence exists regarding associations between length of time since receiving gender-affirming interventions and treatment for psychiatric disorders among the transgender population. In fact, no probability-based evidence exists regarding even the prevalence of mood and anxiety disorder treatment among transgender individuals compared with the general population (1).

The limitations of previous research in terms of nonrepresentative sampling, self-reported measurement, and limited follow-up periods can be overcome with national health registry data sets that include clinician-derived assessment of gender incongruence and complete records of psychiatric and gender-affirming treatment and utilization data in an entire population. In the one known study to use a population-based design to investigate psychiatric morbidity among transgender individuals (N=324), individuals who had legally changed their gender and had a diagnosis of gender incongruence associated with an inpatient hospital visit in Sweden between 1973 and 2003 were at higher risk of suicide attempts, suicide-related mortality, and psychiatric hospitalization compared with age- and reassigned-gendermatched controls (13). The study did not report the prevalence of mood and anxiety disorder treatment among those receiving gender-affirming treatment compared with the total population or as a function of length of time since receiving gender-affirming treatment. Furthermore, the proportion of individuals receiving gender-affirming treatments in Sweden has increased nearly exponentially since 2003 (8, 14). Similar recent increases in referrals for gender-affirming treatments have been reported in other countries around the world (15-18).

In this study, we took advantage of the Swedish Total Population Register (19), linked to the Swedish National Patient Register and the Swedish Prescribed Drug Register, to ascertain the prevalence of mood and anxiety disorder health care visits, antidepressant and anxiolytic prescriptions, and hospitalization after a suicide attempt among the entire Swedish population as a function of gender incongruence diagnosis, gender-affirming hormone and surgery utilization, and length of time since receiving gender-affirming treatments. This data set permitted identification of all individuals in Sweden seeking gender-affirming treatments between January 1, 2005, and December 31, 2015. Although not all transgender individuals seek gender-affirming treatments and not all treatment-seeking transgender individuals meet diagnostic criteria for gender incongruence, findings from this unique data opportunity have timely implications for documenting the mental health of transgender individuals seeking gender-affirmative treatment and ways in which the medical profession can support this increasingly visible population.

METHODS

This total population prospective study included all individuals living in Sweden on December 31, 2014, as identified in the Swedish Total Population Register. Using de-identified personal identification numbers (a unique number assigned to all Swedish residents), we linked sociodemographic information with National Patient Register information on health care usage between January 1, 2005, and December 31, 2015, and Prescribed Drug Register information on prescribed and purchased medication between July 1, 2005, and December 31, 2015. The study was approved by the Regional Ethics Committee in Stockholm (no. 2017/1736–31).

Gender Incongruence Diagnosis

Using the Swedish National Patient Register, we classified all individuals in Sweden according to whether they had received a diagnosis of gender incongruence, as defined by the diagnostic system applied in Sweden during the study period (i.e., a diagnosis of either transsexualism [ICD-10 code F64.0] or gender identity disorder [ICD-10 codes F64.8, F64.9]) during an inpatient or specialized outpatient visit between January 1, 2005, and December 31, 2015. The two diagnoses used to define gender incongruence at the time of the study are not fully equivalent but capture largely overlapping populations (20). In Sweden during the study period, a diagnosis of either transsexualism or gender identity disorder was required for accessing gender-affirming treatment (e.g., gender-affirming hormone treatment, hormone-suppressing or -blocking medication treatment, mastectomy with chest contouring, hair removal, vocal cord surgery, speech therapy, genital surgery) and was given after an approximately yearlong evaluation, following a national consensus program (14, 21). Adolescents could receive the same gender-affirming treatments as adults but could not receive genital surgery before age 18 (22).

Outcome Measures

This study's outcome measures were psychiatric outpatient health care visits, antidepressant and anxiolytic prescriptions, and hospitalization after a suicide attempt between January 1, 2015, and December 31, 2015. Restricting the outcome assessment period to one year, 2015, the most recent available, removes potential confounding by secular trends in treatment utilization and transgender acceptance and visibility. Each psychiatric outpatient visit was coded by the treating physician with a primary diagnosis from ICD-10 (23)

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and up to 20 supplementary ICD-10 diagnostic codes. Using these codes, we classified all individuals as having received treatment for any or no mood disorders (codes F30-F39) or anxiety disorders (codes F40-F42). Prescribed medication use was obtained from the Swedish Prescribed Drug Register, which contains information regarding all prescribed and purchased medications nationwide for all individuals. Individuals were categorized into any use or no use of antidepressant and anxiolytic medication according to the Anatomical Therapeutic Chemical (ATC) Classification system (codes N06A and N05B). All inpatient health care visits were similarly coded by the treating physician using ICD-10, indicating a primary cause of hospitalization and up to 30 supplementary causes. Using these codes, we classified all individuals as having been hospitalized after a suicide attempt (versus not) using the ICD-10 codes for intentional selfharm (codes X60-X84).

Covariates

Sociodemographic information was drawn from the Swedish Total Population Register in

December 2014 and included current legal gender, age, country of birth, level of education, urbanicity, and household income.

Gender-Affirming Treatment Utilization

For individuals with a gender incongruence diagnosis at any visit, we assessed the type and year of gender-affirming treatment, both hormone treatment and surgery. Information about hormone treatment, including androgen-suppressing and -blocking medication, was obtained from the Swedish Prescribed Drug Register between July 1, 2005, and December 31, 2015. All medications prescribed to individuals who had received a gender incongruence diagnosis were coded as gender-affirming if they were feminizing hormone medication (i.e., estrogens [ATC codes G03C, L02AA], progestogen [G03D]), masculinizing hormone medication (i.e., androgens [G03B]), or androgen-suppression or -blocking medication (i.e., testosterone-5-alpha reductase inhibitors [G04CB], antiandrogens [G03H], gonadotropin-releasing hormone analogues [G03GA, L02AE, H01CA], antigonadotropin-releasing hormones [H01CC], and spironolactone [C03DA01]). For each individual with a gender incongruence diagnosis who received prescriptions for any of these medications, we calculated the number of years since initiation.

Gender-affirming surgery was coded using information about all inpatient surgical procedures received by individuals with a gender incongruence diagnosis in the National Patient Register between January 1, 2005, and December 31, 2015. All surgical procedures associated with a gender incongruence diagnosis performed during this

TABLE 1. Demographic characteristics of the Swedish population, by gender incongruence diagnosis, December 31, 2014

Measure	With	s Diagnosed Gender ce (N=2,679)	General Population ^e (N=9,744,645)		
	Mean	SD	Mean	SD	
Age (years) Mean yearly household income (Swedish kronor, 000s)	31,5 298.4	14.0 301.0	40.7 464.8	23,8 800,6	
a an all the light wards	N	%	N	%	
Legal gender					
Male	1,284	47.9	4,870,930	50.0	
Female	1,395	52.1	4,873,715	50.0	
University education Urbanicity	809	30.2	2,643,505	27.1	
Larger city	1,102	41.1	3,364,003	34.5	
Smaller city	867	32.4	3,238,223	33.2	
Rural community	710	26,5	3,142,419	32.2	
Country of birth					
Sweden	2,214	82.6	8,141,590	83.5	
Other European country	164	6.1	801,227	8.2	
Outside of Europe	301	11_2	800,800	8_2	
No information about country of birth	0	0.0	1,028	0,01	

^a The N for general population excludes those with a diagnosis of gender incongruence.

period were coded by type of surgery using the Nordic Medico-Statistical Committee Classification of Surgical Procedures (16): breast or dermatological chest surgery (codes H and QB), surgery of the reproductive organs (codes K and L), dermatological surgery (code Q), and laryngeal surgery (code DQ).

Statistical Analysis

We first examined sociodemographic differences between individuals with a gender incongruence diagnosis and the rest of the population in Sweden. We then compared the prevalence of any mood and anxiety disorder treatments (i.e., psychiatric outpatient health care visits and prescribed psychiatric medication) between individuals receiving gender-affirming treatments and the rest of the population in Sweden during 2015, using logistic regression. Among individuals with a gender incongruence diagnosis, we then investigated the odds of mood and anxiety disorder treatment and hospitalization following a suicide attempt (occurring in 2015) as a function of years since initiation of hormone or hormone-suppressing treatment and since last gender-affirming surgery. We examined years since last gender-affirming surgery because gender-affirming surgery is often a lengthy process involving several distinct procedures before gender affirmation is attained.

All analyses were conducted using SPSS, version 24 (IBM, Armonk, N.Y.), and adjusted for current legal gender, age, country of birth, level of education, urbanicity, and household income.

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	Individuals Diagnosed With Gender Incongruence (N=2,679)		General Population ^b (N=9,744,645)		Unadjusted		Adjusted	
Measure	N	%	Ν	%	Odds Ratio	95% CI	Odds Ratio	95% CI
Psychiatric outpatient visits, 2015								
Any mood disorder	250	9.3	95,137	1.0	10.44	9 16, 11 89	6.07	5 32, 6 93
Any anxiety disorder	197	7.4	63,200	0_6	12.16	10.52, 14.06	5.92	5.10, 6.86
Prescribed medication treatment, 2015								
Any antidepressant use	771	28.8	377,043	9.4	3.90	3.58, 4.24	3,95	3.62, 4.31
Any anxiolytic treatment	449	16.8	566,678	5.8	3.26	2,95, 3,61	3,43	3.09, 3.81
Inpatient visits, 2015 Hospitalization after suicide attempt	22	0.8	7,104	0.1	11,35	7,46, 17 28	6,79	4,45,10,35

TABLE 2. Association between gender incongruence diagnosis and mood- and anxiety-related health care visits, antidepressant and anxiolytic prescriptions, and hospitalization after suicide attempt in the total Swedish population, 2015^a

^a All analyses were conducted using logistic regression and adjusted for age, gender, education, income, urbanity, and country of birth

^b The N for general population excludes those with a diagnosis of gender incongruence.

RESULTS

Of the total Swedish population on December 31, 2014 (N=9,747,324), 2,679 had received a diagnosis of gender incongruence between January 1, 2005, and December 31, 2015 (Table 1). Those diagnosed with gender incongruence were significantly younger on average than the rest of the population (t=19.94, p<0.001), and they were more likely to have a current legal female gender than male gender (χ^2 =4.54, p=0.03). Individuals with a gender incongruence diagnosis were more likely to have a university education (χ^2 =12.77, p<0.001), to have a lower household income (t=30.61, p<0.001), to live in a larger city (χ^2 =61.95, p<0.001), and to have been born outside of Europe (χ^2 =32.33, p<0.001).

Mood and Anxiety Disorder Treatment Among Individuals Diagnosed With Gender Incongruence

Table 2 compares the prevalence of health care visits and medication treatment for mood and anxiety disorders between individuals diagnosed with gender incongruence and those not. In analyses adjusted for sociodemographic factors, those diagnosed with gender incongruence were about six times as likely to have had a health care visit due to a mood or anxiety disorder in 2015, more than three times as likely to have received prescriptions for antidepressant and anxiolytic medication in 2015, and more than six times as likely to have been hospitalized after a suicide attempt.

Gender-Affirming Treatments Among Individuals Diagnosed With Gender Incongruence

Just over 70% of individuals diagnosed with gender incongruence during the follow-up period (2005–2015) had received prescriptions for hormone treatment, including androgen-suppressing and -blocking medication, during this period. Half of those treated with hormones had initiated their hormone treatment within the past 5 years (Table 3). Nearly 40% of those with a diagnosis of gender incongruence had received gender-affirming surgical treatments during the follow-up period. Table 3 presents the types of surgical treatments and the distribution of individuals by number of years since last gender-affirming surgery. The most common types of surgical procedures were mastectomy with chest contouring, surgery of the reproductive organs, dermatological surgeries, and laryngeal surgery.

Less than a third (29%) of those diagnosed with gender incongruence had received neither hormone treatment nor gender-affirming surgery. Among those who had received gender-affirming surgery, 97% had also been treated with hormones.

Changes in Likelihood of Mood and Anxiety Disorder Treatment After Gender-Affirming Hormone and Surgical Treatment

We examined the effect of years since hormone treatment initiation and years since last gender-affirming surgery on likelihood of having received mood or anxiety disorder treatment in 2015 among individuals with a diagnosis of gender incongruence. Among those with a gender incongruence diagnosis receiving hormone treatment, years since initiation of hormone treatment was not significantly related to likelihood of mental health treatment (i.e., psychiatric outpatient health care visits and prescribed psychiatric medication; adjusted odds ratio=1.01, 95% CI=0.98, 1.03). However, among those receiving gender-affirming surgical treatment, the risk of mental health treatment was significantly reduced with increased time since last surgical treatment (adjusted odds ratio=0.92, 95% CI=0.87, 0.97). Specifically, the likelihood of being treated for a mood or anxiety disorder was reduced by 8% for each year since last gender-affirming surgery. The number of individuals with a gender incongruence diagnosis who had been hospitalized after a suicide attempt in 2015 was low (N=22) but was also

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reduced as a function of time since last surgical treatment. The association between time since gender-affirming hormone and surgical treatments and hospitalization after a suicide attempt did not reach significance (hormone treatment: adjusted odds ratio=1.12, 95% CI=0.97, 1.30; surgical treatment: adjusted odds ratio=0.87, 95% CI=0.61, 1.24). Figure 1 presents the prevalence of mental health treatment (either health care visits for depression and anxiety, antidepressant and anxiolytic prescriptions, or both) and hospitalization after a suicide attempt in 2015 by years since last gender-affirming surgical treatment.

To assess the potentially interrelated and therefore confounding effect of gender-affirming hormone and surgical treatments on each other, a sensitivity analyses was conducted, entering both years since initiation of hormone treatment and years since last surgical treatment simultaneously into the same model predicting odds of mood and anxiety disorder

TABLE 3. Type of, and years since, gender-affirming hormone and surgery treatment in
December 31, 2015, among individuals with a gender incongruence diagnosis in Sweden,
January 1, 2005, to December 31, 2015

Measure	Ν	%
	-	nder incongruence
Time since first gender-affirming hormone treatment	diagnosis	(N=2,679)
No hormone treatment	794	29,6
<1 year	359	13.4
1 year	226	8.4
2-3 years	367	13.7
4–5 years	330	12,3
6–7 years	176	6,6
8–9 years	193	7,2
≥10 years	234	8.7
and the second	All individuals receiv	ing gender-affirming
Type of hormone treatment (more than one type is possible)	hormone treat	ment (N=1,885)
Estrogen or progesterone	1,066	56.6
Androgen	916	48.6
Androgen-suppressing or -blocking medication	808	42.9
	All individuals with g	ender incongruence
Time since last gender-affirming surgical treatment	diagnosis	(N=2,679)
No surgical treatment	1,661	62.0
<1 year	353	13,2
1 year	221	8,2
2–3 years	198	7.4
4–5 years	110	4.1
6–7 years	68	2.5
8–9 years	49	1,8
≥10 years	19	0.7
	All individuals receiv	ing gender-affirming
Type of surgical procedures (more than one type is possible)	surgical treatn	nent (N=1,018)
Breast or dermatological chest surgery	788	77_4
	5.40	53.0
Surgery of the reproductive organs	540	55.0
	540 315	30,9

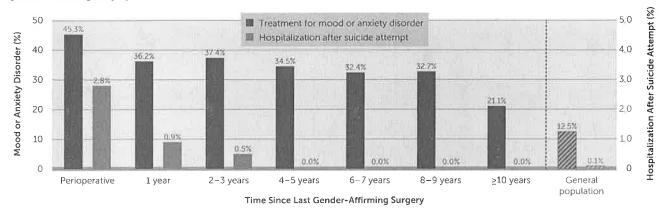
treatment (i.e., psychiatric outpatient health care visits and prescribed psychiatric medication). The results of this analysis were similar to those presented above, with a nonsignificant effect of time since initiation of hormone treatment (adjusted odds ratio=1.03, 95% CI=0.97, 1.08) and a significant effect of years since last gender-affirming surgical treatment (adjusted odds ratio=0.91, 95% CI=0.86, 0.97).

DISCUSSION

Taking advantage of total population registers containing diagnoses of gender incongruence, gender-related hormone and surgical treatment codes, and mental health treatment utilization, we examined the potential impact of genderaffirming hormone and surgical treatment on later mental health treatment utilization. The results also present the first known population prevalence of mood and anxiety disorder treatment and suicide attempts among transgender individuals compared with the general population. Overall, our results show that transgender individuals, here defined as those with a diagnosis of gender incongruence, are about six times as likely as the general population to have had a health care visit for any mood or anxiety disorder, between three and four times as likely to have received prescriptions for antidepressant or anxiolytic medication, and more than six times as likely to have been hospitalized after a suicide attempt. Time since initiating gender-affirming hormone treatment was not associated with these mental health treatment outcomes, whereas time since receiving gender-affirming surgery was significantly associated with a decrease in mental health treatment.

These findings begin to answer the call for populationbased documentation of transgender health (1) and extend earlier evidence of associations between gender-affirming treatment and improved mental health mostly derived from studies utilizing cross-sectional designs or short follow-up periods, self-reported exposures and outcomes, and small nonprobability samples (2, 10, 11). In addition to showing that transgender individuals are more likely to utilize mental health treatments than the general population, the results suggest that gender-affirming treatments may reduce this risk. Specifically, the odds of receiving mental health treatment in 2015 were reduced by 8% for every year since REDUCTION IN MENTAL HEALTH TREATMENT UTILIZATION AFTER GENDER-AFFIRMING SURGERIES

FIGURE 1. Prevalence of treatment for mood or anxiety disorders (health care visit or antidepressant or anxiolytic prescription) and hospitalization after suicide attempt in 2015 among individuals with a gender incongruence diagnosis, by number of years since last gender-affirming surgery



receiving gender-affirming surgery over the 10-year followup period. Despite this linear decrease, even 10 years after receiving such treatments, the prevalence of mental health treatment utilization continued to exceed that of the general Swedish population (24), suggesting the need to address factors in addition to gender-affirming treatment availability that may strengthen transgender individuals' mental health. Such factors may include reductions in structural (e.g., economic inequality), interpersonal (e.g., victimization), and psychosocial (e.g., identity concealment) stressors to which transgender individuals are disproportionately exposed (4, 24). Ensuring access to transgenderaffirming mental health care may also further reduce transgender individuals' persistent psychiatric risk (25). Although the prevalence of hospitalization after suicide attempt among those with a gender incongruence diagnosis was too small for statistical testing, the numbers who were treated after a suicide attempt decreased as a function of years since last gender-affirming surgery. Among those who received their last gender-affirming surgery more than 3 years ago, no suicide attempts were registered.

Despite the notable methodological strengths of utilizing data from a total population, the results should be interpreted in light of several limitations. First, the criterion used here to define the transgender population does not capture the full spectrum of those who identify as transgender. We specifically lacked information regarding gender assigned at birth, legal gender change, and gender identity at the time of data collection, preventing subgroup analyses of the transgender population (26). Recent estimates across five countries suggest that between 0.4% and 1.3% of the population may identify as transgender, including gender-nonconforming individuals who do not seek gender-affirming hormone or surgical treatment (18, 27-29). Although the transgender population in the present study is limited to individuals with a diagnosis of gender incongruence, this population is of particular concern to the medical community because of its high likelihood of seeking gender-affirming hormone and surgical

treatments. Given the free availability of gender-affirming treatments in Sweden, our approach to ascertaining this particular population is likely highly sensitive. Our approach also did not include a comparison group of individuals who had sought but not yet received gender-affirming treatment. While this population might be able to serve as an important comparison group in future studies, without the ability to distinguish between those who had not received treatment because they are waiting for it and those not seeking it in the first place, the current data structure cannot provide this comparison. Longitudinal designs assessing within-person changes in treatment seeking, treatment receipt, and ultimate mental health outcomes would be essential for tracking mental health before and immediately after treatment. Because our approach could only ascertain suicide attempts among living individuals, longitudinal designs that allow for tracking completed suicide among decedents remains an important future direction.

Second, mental health treatment utilization is an imperfect proxy for mental health itself. Transgender people receiving treatment for gender incongruence are by definition exposed to treatment settings, which may disproportionately expose them to mental health treatment opportunities. Although the Swedish context of universal health care coverage removes financial barriers to treatment seeking, other unmeasured factors, such as general tendency toward treatment seeking or perceived discrimination in treatment settings, may influence the associations examined here. Third, because we derived information about outpatient psychiatric health care visits from national health care databases, we had limited information about the type of mental health treatment patients received, and we could not differentiate among individuals receiving psychotropic medication, psychotherapy, or both. Fourth, this study was conducted in a single high-income national context with legal protections for transgender individuals and universal health coverage, including for gender-affirming treatments. While this context makes the present study possible,

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it also may constrain the generalizability of findings to lowand middle-income countries and to countries that lack transgender protections or universal health care coverage.

Overall, this study provides timely support for policies that ensure coverage of gender-affirming treatments. Although gender-affirming treatments are recommended as a medical necessity for appropriately selected individuals experiencing gender incongruence and are a covered health benefit in most developed countries, uncertainty exists, such as in the United States, regarding federal protections of transgender employees from transgender-related exclusions in employee benefits (30). In the context of such uncertainty, some U.S. states deny use of state funds to cover costs for gender-affirming treatments, and the Veterans Health Administration specifically prohibits gender-affirming surgery within Veterans Affairs (VA) facilities or use of VA funding for gender-affirming treatments (31, 32). To the extent that gender-affirmative medical interventions are interpreted as sterilization, many hospitals can refuse to provide such care, citing religious directives (33). Debates regarding the provision of gender-affirming health care are global, and in much of the world, such care is unavailable or largely unaffordable (29). Therefore, in many contexts around the world, lack of coverage for gender-affirming treatments drives the use of non-medically supervised hormones and surgeries, thereby exacerbating physical health risks (34) and the other epidemics disproportionately borne by the global transgender population, including suicide and HIV infection. The longitudinal association found in the present study between gender-affirming surgery and reduced mental health treatment utilization, combined with the physical and mental health risks of surgery denial, supports policies that provide genderaffirming surgeries to transgender individuals who seek such treatments.

ADDENDUM

After this article was published online on October 4, 2019, some letters containing questions on the statistical methodology employed led the *Journal* to seek statistical consultations. The results of these consultations were presented to us and we concurred with many of the points raised. The letters (35-41) and our response to them (42) appear in the Letters to the Editor section of the August 2020 issue of the *Journal*.

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Correction to Bränström and Pachankis

After the article "Reduction in Mental Health Treatment Utilization Among Transgender Individuals After Gender-Affirming Surgeries: A Total Population Study" by Richard Bränström, Ph.D., and John E. Pachankis, Ph.D. (doi: 10.1176/appi.ajp.2019.19010080), was published online on October 4, 2019, some letters containing questions on the statistical methodology employed in the study led the *Journal* to seek statistical consultations. The results of these consultations were presented to the study authors, who concurred with many of the points raised. Upon request, the authors reanalyzed the data to compare outcomes between individuals diagnosed with gender incongruence who had received gender-affirming surgical treatments and those diagnosed with gender incongruence who had not. While this comparison was performed retrospectively and was not part of the original research question given that several other factors may differ between the groups, the results demonstrated no advantage of surgery in relation to subsequent mood or anxiety disorder-related health care visits or prescriptions or hospitalizations following suicide attempts in that comparison. Given that the study used neither a prospective cohort design nor a randomized controlled trial design, the conclusion that "the longitudinal association between gender-affirming surgery and lower use of mental health treatment lends support to the decision to provide gender-affirming surgeries to transgender individuals with a gender incongruence diagnosis who had received gender-affirming surgical treatments during the follow-up period is correctly reported in Table 3 (37.9%), the text incorrectly refers to this percentage as 48%. The article was reposted on August 1, 2020, correcting this percentage and including an addendum referencing the postpublication discussion captured in the Letters to the Editor section of the August 2020 issue of the Journal (1).

1. Kalin NH: Reassessing mental health treatment utilization reduction in transgender individuals after gender-affirming surgeries: a comment by the editor on the process (letter). Am J Psychiatry 2020; 177:765

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Long-Term Follow-Up of Transsexual Persons Undergoing Sex Reassignment Surgery: Cohort Study in Sweden

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Abstract

Context: The treatment for transsexualism is sex reassignment, including hormonal treatment and surgery aimed at making the person's body as congruent with the opposite sex as possible. There is a dearth of long term, follow-up studies after sex reassignment.

Objective: To estimate mortality, morbidity, and criminal rate after surgical sex reassignment of transsexual persons.

Design: A population-based matched cohort study.

Setting: Sweden, 1973-2003.

Participants: All 324 sex-reassigned persons (191 male-to-females, 133 female-to-males) in Sweden, 1973–2003. Random population controls (10:1) were matched by birth year and birth sex or reassigned (final) sex, respectively.

Main Outcome Measures: Hazard ratios (HR) with 95% confidence intervals (CI) for mortality and psychiatric morbidity were obtained with Cox regression models, which were adjusted for immigrant status and psychiatric morbidity prior to sex reassignment (adjusted HR [aHR]).

Results: The overall mortality for sex-reassigned persons was higher during follow-up (aHR 2.8; 95% CI 1.8–4.3) than for controls of the same birth sex, particularly death from suicide (aHR 19.1; 95% CI 5.8–62.9). Sex-reassigned persons also had an increased risk for suicide attempts (aHR 4.9; 95% CI 2.9–8.5) and psychiatric inpatient care (aHR 2.8; 95% CI 2.0–3.9). Comparisons with controls matched on reassigned sex yielded similar results. Female-to-males, but not male-to-females, had a higher risk for criminal convictions than their respective birth sex controls.

Conclusions: Persons with transsexualism, after sex reassignment, have considerably higher risks for mortality, suicidal behaviour, and psychiatric morbidity than the general population. Our findings suggest that sex reassignment, although alleviating gender dysphoria, may not suffice as treatment for transsexualism, and should inspire improved psychiatric and somatic care after sex reassignment for this patient group.

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Introduction

Transsexualism (ICD-10),[1] or gender identity disorder (DSM-IV),[2] is a condition in which a person's gender identity - the sense of being a man or a woman - contradicts his or her bodily sex characteristics. The individual experiences gender dysphoria and desires to live and be accepted as a member of the opposite sex.

The treatment for transsexualism includes removal of body hair, vocal training, and cross-sex hormonal treatment aimed at making the person's body as congruent with the opposite sex as possible to alleviate the gender dysphoria. Sex reassignment also involves the surgical removal of body parts to make external sexual characteristics resemble those of the opposite sex, so called sex reassignment/confirmation surgery (SRS). This is a unique

intervention not only in psychiatry but in all of medicine. The present form of sex reassignment has been practised for more than half a century and is the internationally recognized treatment to ease gender dysphoria in transsexual persons.[3,4]

Despite the long history of this treatment, however, outcome data regarding mortality and psychiatric morbidity are scant. With respect to suicide and deaths from other causes after sex reassignment, an early Swedish study followed 24 transsexual persons for an average of six years and reported one suicide.[5] A subsequent Swedish study recorded three suicides after sex reassignment surgery of 175 patients.[6] A recent Swedish follow-up study reported no suicides in 60 transsexual patients, but one death due to complications after the sex reassignment surgery.[7] A Danish study reported death by suicide in 3 out of 29 operated male-to-female transsexual persons followed for an average of six years.[8] By contrast, a Belgian study of 107 transsexual persons followed for 4-6 years found no suicides or deaths from other causes.[9] A large Dutch single-centre study (N = 1, 109), focusing on adverse events following hormonal treatment, compared the outcome after cross-sex hormone treatment with national Dutch standardized mortality and morbidity rates and found no increased mortality, with the exception of death from suicide and AIDS in male-to-females 25-39 years of age.[10] The same research group concluded in a recent report that treatment with cross-sex hormones seems acceptably safe, but with the reservation that solid clinical data are missing.[11] A limitation with respect to the Dutch cohort is that the proportion of patients treated with cross-sex hormones who also had surgical sex-reassignment is not accounted for.[10]

Data is inconsistent with respect to psychiatric morbidity post sex reassignment. Although many studies have reported psychiatric and psychological improvement after hormonal and/or surgical treatment, [7,12,13,14,15,16] other have reported on regrets, [17] psychiatric morbidity, and suicide attempts after SRS. [9,18] A recent systematic review and meta-analysis concluded that approximately 80% reported subjective improvement in terms of gender dysphoria, quality of life, and psychological symptoms, but also that there are studies reporting high psychiatric morbidity and suicide rates after sex reassignment. [19] The authors concluded though that the evidence base for sex reassignment "is of very low quality due to the serious methodological limitations of included studies."

The methodological shortcomings have many reasons. First, the nature of sex reassignment precludes double blind randomized controlled studies of the result. Second, transsexualism is rare [20] and many follow-ups are hampered by small numbers of subjects. [5,8,21,22,23,24,25,26,27,28] Third, many sex reassigned persons decline to participate in follow-up studies, or relocate after surgery, resulting in high drop-out rates and consequent selection bias. [6,9,12,21,24,28,29,30] Forth, several follow-up studies are hampered by limited follow-up periods. [7,9,21,22,26,30] Taken together, these limitations preclude solid and generalisable conclusions. A long-term population-based controlled study is one way to address these methodological shortcomings.

Here, we assessed mortality, psychiatric morbidity, and psychosocial integration expressed in criminal behaviour after sex reassignment in transsexual persons, in a total population cohort study with long-term follow-up information obtained from Swedish registers. The cohort was compared with randomly selected population controls matched for age and gender. We adjusted for premorbid differences regarding psychiatric morbidity and immigrant status. This study design sheds new light on transsexual persons' health after sex reassignment. It does not, however, address whether sex reassignment is an effective treatment or not.

Methods

National registers

The study population was identified by the linkage of several Swedish national registers, which contained a total of 13.8 million unique individuals. The Hospital Discharge Register (HDR, held by the National Board of Health and Welfare) contains discharge diagnoses, up to seven contributory diagnoses, external causes of morbidity or mortality, surgical procedure codes, and discharge date. Discharge diagnoses are coded according to the 8th (1969-1986), 9th (1987-1996), and 10th editions (1997-) of the International Classification of Diseases (ICD). The register covers virtually all psychiatric inpatient episodes in Sweden since 1973. Discharges that occurred up to 31 December 2003 were included. Surgical procedure codes could not be used for this study due to the lack of a specific code for sex reassignment surgery. The Total Population Register (TPR, held by Statistics Sweden) is comprised of data about the entire Swedish population. Through linkage with the Total Population Register it was possible to identify birth date and birth gender for all study subjects. The register is updated every year and gender information was available up to 2004/2005. The Medical Birth Register (MBR) was established in 1973 and contains birth data, including gender of the child at birth. National censuses based on mandatory self-report questionnaires completed by all adult citizens in 1960, 1970, 1980, and 1990 provided information on individuals, households, and dwellings, including gender, living area, and highest educational level. Complete migration data, including country of birth for immigrants for 1969-2003, were obtained from the TPR. In addition to educational information from the censuses, we also obtained highest educational level data for 1990 and 2000 from the Register of Education. The Cause of Death Register (CDR, Statistics Sweden) records all deaths in Sweden since 1952 and provided information on date of death and causes of death. Death events occurring up to 31 December 2003 are included in the study. The Crime Register (held by the National Council of Crime Prevention) provided information regarding crime type and date on all criminal convictions in Sweden during the period 1973-2004. Attempted and aggravated forms of all offences were also included. All crimes in Sweden are registered regardless of insanity at the time of perpetration; for example, for individuals who suffered from psychosis at the time of the offence. Moreover, conviction data include individuals who received custodial or noncustodial sentences and cases where the prosecutor decided to caution or fine without court proceedings. Finally, Sweden does not differ considerably from other members of the European Union regarding rates of violent crime and their resolution.[31]

Study population, identification of sex-reassigned persons (exposure assessment)

The study was designed as a population-based matched cohort study. We used the individual national registration number, assigned to all Swedish residents, including immigrants on arrival, as the primary key through all linkages. The registration number consists of 10 digits; the first six provide information of the birth date, whereas the ninth digit indicates the gender. In Sweden, a person presenting with gender dysphoria is referred to one of six specialised gender teams that evaluate and treat patients principally according to international consensus guidelines: Standards of Care.[3] With a medical certificate, the person applies to the National Board of Health and Welfare to receive permission for sex reassignment surgery and a change of legal sex status. A new national registration number signifying the new gender is assigned after sex reassignment surgery. The National

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Board of Health and Welfare maintains a link between old and new national registration numbers, making it possible to follow individuals undergoing sex reassignment across registers and over time. Hence, sex reassignment surgery in Sweden requires (i) a transsexualism diagnosis and (ii) permission from the National Board of Health and Welfare.

A person was defined as exposed to sex reassignment surgery if two criteria were met: (i) at least one inpatient diagnosis of gender identity disorder diagnosis without concomitant psychiatric diagnoses in the Hospital Discharge Register, and (ii) at least one discrepancy between gender variables in the Medical Birth Register (from 1973 and onwards) or the National Censuses from 1960, 1970, 1980, or 1990 and the latest gender designation in the Total Population Register. The first criterion was employed to capture the hospitalization for sex reassignment surgery that serves to secure the diagnosis and provide a time point for sex reassignment surgery; the plastic surgeons namely record the reason for sex reassignment surgery, i.e., transsexualism, but not any co-occurring psychiatric morbidity. The second criterion was used to ensure that the person went through all steps in sexreassignment and also changed sex legally.

The date of sex reassignment (start of follow-up) was defined as the first occurrence of a gender identity disorder diagnosis, without any other concomitant psychiatric disorder, in the Hospital Discharge Register after the patient changed sex status (any discordance in sex designation across the Censuses, Medical Birth, and Total Population registers). If this information was missing, we used instead the closest date in the Hospital Discharge Register on which the patient was diagnosed with gender identity disorder without concomitant psychiatric disorder prior to change in sex status. The reason for prioritizing the use of a gender identity disorder diagnosis *after* changed sex status over *before* was to avoid overestimating person-years at risk of sex-reassigned person.

Using these criteria, a total of 804 patients with gender identity disorder were identified, whereof 324 displayed a shift in the gender variable during the period 1973–2003. The 480 persons that did not shift gender variable comprise persons who either did not apply, or were not approved, for sex reassignment surgery. Moreover, the ICD 9 code 302 is a non specific code for sexual disorders. Hence, this group might also comprise persons that were hospitalized for sexual disorders other than transsexualism. Therefore, they were omitted from further analyses. Of the remaining 324 persons, 288 were identified with the gender identity diagnosis *after* and 36 *before* change of sex status. Out of the 288 persons identified *after* changed sex status, 185 could also be identified *before* change in sex status. The median time lag between the hospitalization *before* and *after* sex change for these 185 persons was 0.96 years (mean 2.2 years, SD 3.3).

Gender identity disorder was coded according to ICD-8: 302.3 (transsexualism) and 302.9 (sexual deviation NOS); ICD-9: 302 (overall code for sexual deviations and disorders, more specific codes were not available in ICD-9); and ICD-10: F64.0 (transsexualism), F64.1 (dual-role transvestism), F64.8 (other gender identity disorder), and F64.9 (gender identity disorder NOS). Other psychiatric disorders were coded as ICD-8: 290-301 and 303-315; ICD-9: 290-301 and 303-319; and ICD-10: F00-F63 as well as F65-F99.

Identification of population-based controls (unexposed group)

For each exposed person (N = 324), we randomly selected 10 unexposed controls. A person was defined as unexposed if there were no discrepancies in sex designation across the Censuses, Medical Birth, and Total Population registers *and* no gender

identity disorder diagnosis according to the Hospital Discharge Register. Control persons were matched by sex and birth year and had to be alive and residing in Sweden at the estimated sex reassignment date of the case person. To study possible genderspecific effects on outcomes of interest, we used two different control groups: one with the same sex as the case individual at birth (birth sex matching) and the other with the sex that the case individual had been reassigned to (final sex matching).

Outcome measures

We studied mortality, psychiatric morbidity, accidents, and crime following sex reassignment. More specifically, we investigated: (1) all-cause mortality, (2) death by definite/uncertain suicide, (3) death by cardiovascular disease, and (4) death by tumour. Morbidity included (5) any psychiatric disorder (gender identity disorders excluded), (6) alcohol/drug misuse and dependence, (7) definite/uncertain suicide attempt, and (8) accidents. Finally, we addressed court convictions for (9) any criminal offence and (10) any violent offence. Each individual could contribute with several outcomes, but only one event per outcome. Causes of death (Cause of Death Registry from 1952 and onwards) were defined according to ICD as suicide (ICD-8 and ICD-9 codes E950-E959 and E980-E989, ICD-10 codes X60-X84 and Y10-Y34); cardiovascular disease (ICD-8 codes 390-458, ICD-9 codes 390-459, ICD-10 codes I00-I99); neoplasms (ICD-8 and ICD-9 codes 140-239, ICD-10 codes C00-D48), any psychiatric disorder (gender identity disorders excluded); (ICD-8 codes 290-301 and 303-315, ICD-9 codes 290-301 and 303-319, ICD-10 codes F00-F63 and F65-F99); alcohol/drug abuse and dependence (ICD-8 codes 303-304, ICD-9 codes 303-305 (tobacco use disorder excluded), ICD-10 codes F10-F16 and F18-F19 (x5 excluded); and accidents (ICD-8 and ICD-9 codes E800-E929, ICD-10 codes V01-X59).

Any criminal conviction during follow-up was counted; specifically, violent crime was defined as homicide and attempted homicide, aggravated assault and assault, robbery, threatening behaviour, harassment, arson, or any sexual offense.[32]

Covariates

Severe psychiatric morbidity was defined as inpatient care according to ICD-8 codes 291, 295-301, 303-304, and 307; ICD-9 codes 291-292, 295-298, 300-301, 303-305 (tobacco use disorder excluded), 307.1, 307.5, 308-309, and 311; ICD-10 codes F10-F16, F18-F25, F28-F45, F48, F50, and F60-F62. Immigrant status, defined as individuals born abroad, was obtained from the Total Population Register. All outcome/covariate variables were dichotomized (i.e., affected or unaffected) and without missing values.

Statistical analyses

Each individual contributed person-time from study entry (for exposed: date of sex reassignment; for unexposed: date of sex reassignment of matched case) until date of outcome event, death, emigration, or end of study period (31 December 2003), whichever came first. The association between exposure (sex reassignment) and outcome (mortality, morbidity, crime) was measured by hazard ratios (HR) with 95% CIs, taking follow-up time into account. HRs were estimated from Cox proportional hazard regression models, stratified on matched sets (1:10) to account for the matching by sex, age, and calendar time (birth year). We present crude HRs (though adjusted for sex and age through matching) and confounder-adjusted HRs [aHRs] for all outcomes. The two potential confounders, immigrant status (yes/no) and history of severe psychiatric morbidity (yes/no) prior to sex

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reassignment, were chosen based on previous research[18,33] and different prevalence across cases and controls (Table 1).

Gender-separated analyses were performed and a Kaplan-Meier survival plot graphically illustrates the survival of the sex reassigned cohort and matched controls (all-cause mortality) over time. The significance level was set at 0.05 (all tests were twosided). All outcome/covariate variables were without missing values, since they are generated from register data, which are either present (affected) or missing (unaffected). The data were analysed using SAS version 9.1 (SAS Institute Inc., Cary, NC, USA).

Ethics

The data linking of national registers required for this study was approved by the IRB at Karolinska Institutet, Stockholm. All data were analyzed anonymously; therefore, informed consent for each individual was neither necessary nor possible.

Results

We identified 324 transsexual persons (exposed cohort) who underwent sex reassignment surgery and were assigned a new legal sex between 1973 and 2003. These constituted the sex-reassigned (exposed) group. Fifty-nine percent (N = 191) of sex-reassigned persons were male-to-females and 41% (N = 133) female-to-males, yielding a sex ratio of 1.4:1 (Table 1). The average follow-up time for all-cause mortality was 11.4 (median 9.1) years. The average follow-up time for the risk of being hospitalized for any psychiatric disorder was 10.4 (median 8.1).

Characteristics prior to sex reassignment

Table 1 displays demographic characteristics of sex-reassigned and control persons prior to study entry (sex reassignment). There were no substantial differences between female-to-males and maleto-females regarding measured baseline characteristics. Immigrant status was twice as common among transsexual individuals compared to controls, living in an urban area somewhat more common, and higher education about equally prevalent. Transsexual individuals had been hospitalized for psychiatric morbidity other than gender identity disorder prior to sex reassignment about four times more often than controls. To adjust for these baseline discrepancies, hazard ratios adjusted for immigrant status and psychiatric morbidity prior to baseline are presented for all outcomes [aHRs].

Mortality

Table 2 describes the risks for selected outcomes during follow-up among sex-reassigned persons, compared to same-age controls of the same birth sex. Sex-reassigned transsexual persons of both genders had approximately a three times higher risk of all-cause mortality than controls, also after adjustment for covariates. Table 2

Table 1. Baseline characteristics among sex-reassigned subjects in Sweden (N = 324) and population controls matched for birth year and sex.

Characteristic at baseline	Sex-reassigned subjects (N = 324)	Birth-sex matched controls (N = 3,240)	Final-sex matched control (N = 3,240)
Gender			
Female at birth, male after sex change	133 (41%)	1,330 (41%)	1,330 (41%)
Male at birth, female after sex change	191 (59%)	1,910 (59%)	1,910 (59%)
Average age at study entry [years] (SD, min-max)			
Female at birth, male after sex change	33.3 (8.7, 20-62)	33.3 (8.7, 20-62)	33.3 (8,7, 20-62)
Male at birth, female after sex change	36.3 (10.1, 21-69)	36.3 (10.1, 21-69)	36.3 (10.1, 21-69)
Both genders	35.1 (9.7, 20-69)	35.1 (9.7, 20-69)	35.1 (9.7, 20-69)
Immigrant status			
Female at birth, male after sex change	28 (21%)	118 (9%)	100 (8%)
Male at birth, female after sex change	42 (22%)	176 (9%)	164 (9%)
Both genders	70 (22%)	294 (9%)	264 (8%)
Less than 10 years of schooling prior to entry vs. 10) years or more		
Females at birth, males after sex change	49 (44%); 62 (56%)	414 (37%); 714 (63%)	407 (36%); 713 (64%)
Males at birth, females after sex change	61 (41%); 89 (59%)	665 (40%); 1,011 (60%)	595 (35%); 1,091 (65%)
All individuals with data	110 (42%); 151 (58%)	1,079 (38%); 1,725 (62%)	1,002 (36%); 1,804 (64%)
Psychiatric morbidity [®] prior to study entry			
Female at birth, male after sex change	22 (17%)	47 (4%)	42 (3%)
Male at birth, female after sex change	36 (19%)	76 (4%)	72 (4%)
Both genders	58 (18%)	123 (4%)	114 (4%)
Rural [vs. urban] living area prior to entry			
Female at birth, male after sex change	13 (10%)	180 (14%)	195 (15%)
Male at birth, female after sex change	20 (10%)	319 (17%)	272 (14%)
Both genders	33 (10%)	499 (15%)	467 (14%)

Note:

*Hospitalizations for gender identity disorder were not included.

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Table 2. Risk of various outcomes among sex-reassigned subjects in Sweden (N = 324) compared to population controls matched for birth year and birth sex.

	Number of events cases/ controls 1973-2003				Adjusted* hazard ratio (95% Cl) 1973-2003	Adjusted* hazard ratlo (95% Cl) 1973–1988	Adjusted* hazard ratio (95% CI) 1989–2003
And a Street of the	a an in the second	Cases	Controls		1400-00		*******
Any death	27/99	7.3 (5.0-10.6)	2.5 (2.0-3.0)	2.9 (1.9-4.5)	2.8 (1.8-4.3)	3.1 (1.9–5.0)	1.9 (0.7–5.0)
Death by suicide	10/5	2.7 (1.5-5.0)	0.1 (0.1-0.3)	19.1 (6.5-55.9)	19.1 (5.8-62.9)	N/A	N/A
Death by cardiovascular disease	9/42	2.4 (1.3-4.7)	1.1 (0.8–1.4)	2.6 (1.2–5.4)	2.5 (1.2–5.3)	N/A	N/A
Death by neoplasm	8/38	2.2 (1.1-4.3)	1.0 (0.7-1.3)	2.1 (1.0-4.6)	2.1 (1.0-4.6)	N/A	N/A
Any psychiatrlc hospitalisation‡	64/173	19.0 (14.8–24.2)	4.2 (3.6-4.9)	4.2 (3.1–5.6)	2.8 (2.0-3.9)	3.0 (1.9–4.6)	2.5 (1.4–4.2)
Substance misuse	22/78	5.9 (3.9-8.9)	1.8 (1.5-2.3)	3.0 (1.9-4.9)	1.7 (1.0-3.1)	N/A	N/A
Suicide attempt	29/44	7.9 (5.5–11.4)	1.0 (0.8–1.4)	7.6 (4.7–12.4)	4.9 (2.9-8.5)	7.9 (4.1–15.3)	2.0 (0.7-5.3)
Any accident	32/233	9.0 (6.3-12.7)	5.7 (5.0-6.5)	1.6 (1.1-2.3)	1.4 (1.0-2.1)	1.6 (1.0-2.5)	1.1 (0.5-2.2)
Any crime	60/350	18.5 (14.3–23.8)	9.0 (8.1–10.0)	1.9 (1.4–2.5)	1.3 (1.0-1.8)	1.6 (1.12.4)	0.9 (0.6–1.5)
Violent crime	14/61	3.6 (2.1-6.1)	1.4 (1.1-1.8)	2.7 (1.5-4.9)	1.5 (0.8-3.0)	N/A	N/A

Notes:

*Adjusted for psychiatric morbidity prior to baseline and immigrant status.

[‡]Hospitalisations for gender identity disorder were excluded.

N/A Not applicable due to sparse data.

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separately lists the outcomes depending on when sex reassignment was performed: during the period 1973-1988 or 1989–2003. Even though the overall mortality was increased across both time periods, it did not reach statistical significance for the period 1989–2003. The Kaplan-Meier curve (Figure 1) suggests that survival of transsexual persons started to diverge from that of matched controls after about 10 years of follow-up. The cause-specific mortality from suicide was much higher in sex-reassigned persons, compared to matched controls. Mortality due to cardiovascular disease was moderately increased among the sex-reassigned, whereas the numerically increased risk for malignancies was borderline statistically significant. The malignancies were lung cancer (N = 3), tongue cancer (N = 1), pharyngeal cancer (N = 1), pancreas cancer (N = 1), liver cancer (N = 1), and unknown origin (N = 1).

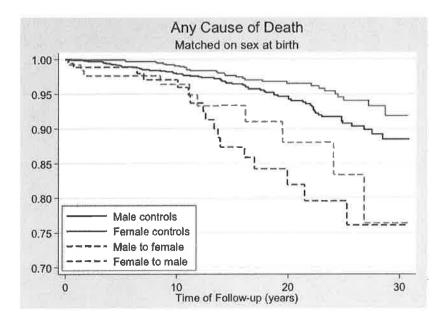


Figure 1. Death from any cause as a function of time after sex reassignment among 324 transsexual persons in Sweden (male-to-female: N = 191, female-to-male: N = 133), and population controls matched on birth year. doi:10.1371/journal.pone.0016885.g001

Long-Term Follow-Up of Sex Reassignment

Psychiatric morbidity, substance misuse, and accidents

Sex-reassigned persons had a higher risk of inpatient care for a psychiatric disorder other than gender identity disorder than controls matched on birth year and birth sex (Table 2). This held after adjustment for prior psychiatric morbidity, and was true regardless of whether sex reassignment occurred before or after 1989. In line with the increased mortality from suicide, sexreassigned individuals were also at a higher risk for suicide attempts, though this was not statistically significant for the time period 1989–2003. The risks of being hospitalised for substance misuse or accidents were not significantly increased after adjusting for covariates (Table 2).

Crime rate

Transsexual individuals were at increased risk of being convicted for any crime or violent crime after sex reassignment (Table 2); this was, however, only significant in the group who underwent sex reassignment before 1989.

Gender differences

Comparisons of female-to-males and male-to-females, although hampered by low statistical power and associated wide confidence intervals, suggested mostly similar risks for adverse outcomes (Tables S1 and S2). However, violence against self (suicidal behaviour) and others ([violent] crime) constituted important exceptions. First, male-to-females had significantly increased risks for suicide attempts compared to both female (aHR 9.3; 95% CI 4.4–19.9) and male (aHR 10.4; 95% CI 4.9–22.1) controls. By contrast, female-to-males had significantly increased risk of suicide attempts only compared to male controls (aHR 6.8; 95% CI 2.1– 21.6) but not compared to female controls (aHR 1.9; 95% CI 0.7– 4.8). This suggests that male-to-females are at higher risk for suicide attempts after sex reassignment, whereas female-to-males maintain a female pattern of suicide attempts after sex reassignment (Tables S1 and S2).

Second, regarding any crime, male-to-females had a significantly increased risk for crime compared to female controls (aHR 6.6; 95% CI 4.1–10.8) but not compared to males (aHR 0.8; 95% CI 0.5–1.2). This indicates that they retained a male pattern regarding criminality. The same was true regarding violent crime. By contrast, female-to-males had higher crime rates than female controls (aHR 4.1; 95% CI 2.5–6.9) but did not differ from male controls. This indicates a shift to a male pattern regarding criminality and that sex reassignment is coupled to increased crime rate in female-to-males. The same was true regarding violent crime.

Discussion

Principal findings and comparison with previous research

We report on the first nationwide population-based, long-term follow-up of sex-reassigned transsexual persons. We compared our cohort with randomly selected population controls matched for age and gender. The most striking result was the high mortality rate in both male-to-females and female-to males, compared to the general population. This contrasts with previous reports (with one exception[8]) that did not find an increased mortality rate after sex reassignment, or only noted an increased risk in certain subgroups.[7,9,10,11] Previous clinical studies might have been biased since people who regard their sex reassignment as a failure are more likely to be lost to follow-up. Likewise, it is cumbersome to track deceased persons in clinical follow-up studies. Hence, population-based register studies like the present are needed to improve representativity.[19,34] The poorer outcome in the present study might also be explained by longer follow-up period (median >10 years) compared to previous studies. In support of this notion, the survival curve (Figure 1) suggests increased mortality from ten years after sex reassignment and onwards. In accordance, the overall mortality rate was only significantly increased for the group operated before 1989. However, the latter might also be explained by improved health care for transsexual persons during 1990s, along with altered societal attitudes towards persons with different gender expressions.[35]

Mortality due to cardiovascular disease was significantly increased among sex reassigned individuals, albeit these results should be interpreted with caution due to the low number of events. This contrasts, however, a Dutch follow-up study that reported no increased risk for cardiovascular events.[10,11] A recent meta-analysis concluded, however, that data on cardiovascular outcome after cross-sex steroid use are sparse, inconclusive, and of very low quality.[34]

With respect to neoplasms, prolonged hormonal treatment might increase the risk for malignancies, [36] but no previous study has tested this possibility. Our data suggested that the causespecific risk of death from neoplasms was increased about twice (borderline statistical significance). These malignancies (see Results), however, are unlikely to be related to cross-hormonal treatment.

There might be other explanations to increased cardiovascular death and malignancies. Smoking was in one study reported in almost 50% by the male-to females and almost 20% by female-to-males.[9] It is also possible that transsexual persons avoid the health care system due to a presumed risk of being discriminated,

Mortality from suicide was strikingly high among sex-reassigned persons, also after adjustment for prior psychiatric morbidity. In line with this, sex-reassigned persons were at increased risk for suicide attempts. Previous reports [6,8,10,11] suggest that transsexualism is a strong risk factor for suicide, also after sex reassignment, and our long-term findings support the need for continued psychiatric follow-up for persons at risk to prevent this.

Inpatient care for psychiatric disorders was significantly more common among sex-reassigned persons than among matched controls, both before and after sex reassignment. It is generally accepted that transsexuals have more psychiatric ill-health than the general population prior to the sex reassignment. [18,21,22,33] It should therefore come as no surprise that studies have found high rates of depression, [9] and low quality of life[16,25] also after sex reassignment. Notably, however, in this study the increased risk for psychiatric hospitalisation persisted even after adjusting for psychiatric hospitalisation prior to sex reassignment. This suggests that even though sex reassignment alleviates gender dysphoria, there is a need to identify and treat co-occurring psychiatric morbidity in transsexual persons not only before but also after sex reassignment.

Criminal activity, particularly violent crime, is much more common among men than women in the general population. A previous study of all applications for sex reassignment in Sweden up to 1992 found that 9.7% of male-to-female and 6.1% of femaleto-male applicants had been prosecuted for a crime, [33] Crime after sex reassignment, however, has not previously been studied. In this study, male-to-female individuals had a higher risk for criminal convictions compared to female controls but not compared to male controls. This suggests that the sex reassignment procedure neither increased nor decreased the risk for criminal offending in male-to-females. By contrast, female-to-males were at a higher risk for criminal convictions compared to female controls and did not differ from male controls, which suggests increased crime proneness in female-to-males after sex reassignment.

Long-Term Follow-Up of Sex Reassignment

Strengths and limitations of the study

Strengths of this study include nationwide representativity over more than 30 years, extensive follow-up time, and minimal loss to follow-up. Many previous studies suffer from low outcome ascertainment, [6,9,21,29] whereas this study has captured almost the entire population of sex-reassigned transsexual individuals in Sweden from 1973–2003. Moreover, previous outcome studies have mixed pre-operative and post-operative transsexual persons, [22,37] while we included only post-operative transsexual persons that also legally changed sex. Finally, whereas previous studies either lack a control group or use standardised mortality rates or standardised incidence rates as comparisons, [9,10,11] we selected random population controls matched by birth year, and either birth or final sex.

Given the nature of sex reassignment, a double blind randomized controlled study of the result after sex reassignment is not feasible. We therefore have to rely on other study designs. For the purpose of evaluating whether sex reassignment is an effective treatment for gender dysphoria, it is reasonable to compare reported gender dysphoria pre and post treatment. Such studies have been conducted either prospectively[7,12] or retrospectively,[5,6,9,22,25,26,29,38] and suggest that sex reassignment of transsexual persons improves quality of life and gender dysphoria. The limitation is of course that the treatment has not been assigned randomly and has not been carried out blindly.

For the purpose of evaluating the safety of sex reassignment in terms of morbidity and mortality, however, it is reasonable to compare sex reassigned persons with matched population controls. The caveat with this design is that transsexual persons before sex reassignment might differ from healthy controls (although this bias can be statistically corrected for by adjusting for baseline differences). It is therefore important to note that the current study is only informative with respect to transsexuals persons health after sex reassignment; no inferences can be drawn as to the effectiveness of sex reassignment as a treatment for transsexualism. In other words, the results should not be interpreted such as sex reassignment per se increases morbidity and mortality. Things might have been even worse without sex reassignment. As an analogy, similar studies have found increased somatic morbidity, suicide rate, and overall mortality for patients treated for bipolar disorder and schizophrenia.[39,40] This is important information, but it does not follow that mood stabilizing treatment or antipsychotic treatment is the culprit.

Other facets to consider are first that this study reflects the outcome of psychiatric and somatic treatment for transsexualism provided in Sweden during the 1970s and 1980s. Since then, treatment has evolved with improved sex reassignment surgery, refined hormonal treatment, [11,41] and more attention to psychosocial care that might have improved the outcome. Second, transsexualism is a rare condition and Sweden is a small country (9.2 million inhabitants in 2008). Hence, despite being based on a

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comparatively large national cohort and long-term follow-up, the statistical power was limited. Third, regarding psychiatric morbidity after sex reassignment, we assessed inpatient psychiatric care. Since most psychiatric care is provided in outpatient settings (for which no reliable data were available), underestimation of the *absolute* prevalences was inevitable. However, there is no reason to believe that this would change the *relative risks* for psychiatric morbidity unless sex-reassigned transsexual individuals were more likely than matched controls to be admitted to hospital for any given psychiatric condition.

Finally, to estimate start of follow-up, we prioritized using the date of a gender identity disorder diagnosis *after* changed sex status over *before* changed sex status, in order to avoid overestimating person-years at risk after sex-reassignment. This means that adverse outcomes might have been underestimated. However, given that the median time lag between the hospitalization before and after change of sex status was less than a year (see Methods), this maneuver is unlikely to have influenced the results significantly. Moreover, all deaths will be recorded regardless of this exercise and mortality hence correctly estimated.

Conclusion

This study found substantially higher rates of overall mortality, death from cardiovascular disease and suicide, suicide attempts, and psychiatric hospitalisations in sex-reassigned transsexual individuals compared to a healthy control population. This highlights that post surgical transsexuals are a risk group that need long-term psychiatric and somatic follow-up. Even though surgery and hormonal therapy alleviates gender dysphoria, it is apparently not sufficient to remedy the high rates of morbidity and mortality found among transsexual persons. Improved care for the transsexual group after the sex reassignment should therefore be considered.

Supporting Information

Table S1 Risk of various outcomes in sex-reassigned persons in Sweden compared to population controls matched for birth year and *birth sex*. (DOCX)

Table S2 Risk of various outcomes in sex-reassigned persons in Sweden compared to controls matched for birth year and *final sex*. (DOCX)

Author Contributions

Conceived and designed the experiments: CD PL AJ NL ML. Performed the experiments: MB AJ. Analyzed the data: CD PL MB AJ NL ML. Contributed reagents/materials/analysis tools: PL NL AJ. Wrote the paper: CD PL MB AJ NL ML.

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PATIENT SAFETY

EXHIBIT

Outcomes Article

4 - Schechter, MD

Evidence-Based Patient Safety Advisory: Blood Dyscrasias

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Committee

The term "blood dyscrasia" refers to any pathologic condition of the blood involving disorders of the blood's cellular components (platelets, white blood cells, or red blood cells) or soluble plasma components required for proper coagulation (coagulation factors). In general, most of these blood disorders can be broken down into two basic categories based on the patient's coagulation phenotype: hypocoagulable (hemorrhagic) states and hypercoagulable (thrombotic) states. Each category includes heritable and acquired causes.

During normal hemostasis, various factors operate in combination to arrest bleeding after vascular injury. Early in the coagulation response, platelets aggregate to form a plug at the site of the ruptured vessel. After initial bleeding control has been achieved, the platelet plug is stabilized by means of fibrin deposition, effectively sealing the break in the vessel and preventing further bleeding. Fibrin deposition is initiated by a cascading series of proteolytic events involving coagulation factors (Fig. 1). This efficient coagulation system is controlled at

From the American Society of Plastic Surgeons' Patient Safety Committee.

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Summary: Rarely, patients with blood disorders may seek to undergo plastic surgery. Although plastic surgeons are not expected to diagnose or manage blood disorders, they should be able to recognize which patients are suitable for surgery and which should be referred to a hematologist before a procedure. This practice advisory provides an overview of the perioperative steps that should be completed to ensure appropriate care for patients with blood disorders. (*Plast. Reconstr. Surg.* 124 (Suppl.): 82S, 2009.)

several steps by means of anticoagulant mechanisms to ensure that the clotting process remains localized to the area of damage.

Hypocoagulable patients typically have difficulty controlling bleeding as a result of decreased platelet numbers or loss-of-function mutations affecting specific clotting factors. By contrast, hypercoagulable patients typically exhibit excessive thrombus formation resulting from hyperactive platelet aggregation, increased platelet numbers, or mutations affecting the function of specific clotting factors (Fig. 1). Whatever the source of the defect in the coagulation cascade, these patients' risks of bleeding or thrombosis during surgery is increased significantly over the normal patient, and complications may result if they are not diagnosed or treated appropriately.

There is a paucity of published clinical research pertaining to the perioperative care of surgical patients with blood dyscrasias. In an effort to ensure patient safety, the American Society of Plastic Surgeons (ASPS) Patient Safety Committee sought to develop a practice advisory to assist decision-making for patients with blood disorders who seek to undergo elective surgical procedures. The current practice advisory thus provides an overview of the perioperative steps that should be completed to ensure appropriate care for these patients. These guidelines are designed for use by

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Volume 124, Number 4S • Blood Dyscrasias

Hypercoagulable (Thrombotic)

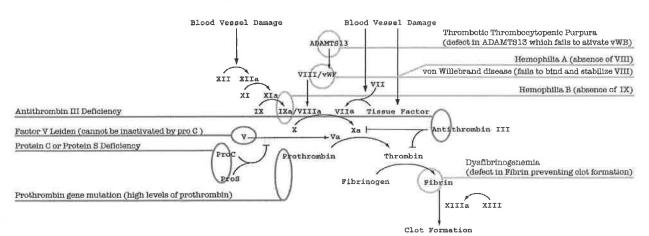


Fig. 1. The coagulation cascade and associated defects.

any health care practitioner managing the perioperative care of patients with bleeding disorders. Although plastic surgeons are not expected to manage hypocoagulable and hypercoagulable disorders, they should be able to recognize which patients are suitable for surgery and which should be referred to a hematologist before a procedure.

This patient safety advisory was developed through a comprehensive review of the scientific literature and a consensus of the Patient Safety Committee. The supporting literature was critically appraised for study quality according to criteria referenced in key publications on evidencebased medicine.¹⁻⁵ Depending on study design and quality, each reference was assigned a corresponding level of evidence (I through V) with the ASPS Evidence Rating Scale (Table 1),⁶ and the evidence was synthesized into practice recommendations. The recommendations were then graded (A through D) with the ASPS Grades of Recommendation Scale (Table 2)⁷; grades correspond to

Table 1. Evidence Rating Scale for Studies Reviewed

Level of Evidence	Qualifying Studies	
Ι	High-quality, multicentered or single-centered, randomized controlled trial with adequate power; or systematic review of these studies	
II	Lesser quality, randomized controlled trial; prospective cohort study; or systematic review of these studies	
III	Retrospective comparative study; case-control study; or systematic review of these studies	
IV	Case series	
V	Expert opinion; case report or clinical example; or evidence based on physiology, bench research, or "first principles"	

the levels of evidence provided by the supporting literature for that recommendation. Practice recommendations are discussed throughout this document, and graded recommendations are summarized in Appendix A.

DISCLAIMER

Practice advisories are strategies for patient management, developed to assist physicians in clinical decision-making. This practice advisory, based on a thorough evaluation of the present scientific literature and relevant clinical experience, describes a range of generally acceptable approaches to diagnosis, management, or prevention of specific diseases or conditions. This practice advisory attempts to define principles of practice that should generally meet the needs of most patients in most circumstances. However, this practice advisory should not be construed as a rule, nor should it be deemed inclusive of all proper methods of care or exclusive of other methods of care reasonably directed at obtaining the appropriate results. It is anticipated that it will be necessary to approach some patients' needs in different ways. The ultimate judgment regarding the care of a particular patient must be made by the physician in light of all the circumstances presented by the patient, the diagnostic and treatment options available, and available resources.

This practice advisory is not intended to define or serve as the standard of medical care. Standards of medical care are determined on the basis of all the facts or circumstances involved in an individual case and are subject to change as scien-

Hypocoagulable (Hemorrhagic)



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Grade	Descriptor	Qualifying Evidence	Implications for Practice
A	Strong recommendation	Level I evidence or consistent findings from multiple studies of levels II, III, or IV	Clinicians should follow a strong recommendation unless a clear and compelling rationale for an alternative approach is present.
В	Recommendation	Levels II, III, or IV evidence and findings are generally consistent	Generally, clinicians should follow a recommendation but should remain alert to new information and sensitive to patient preferences.
С	Option	Levels II, III, or IV evidence, but findings are inconsistent	Clinicians should be flexible in their decision-making regarding appropriate practice, although they may set bounds on alternatives; patient preference should have a substantial influencing role.
D	Option	Level V: Little or no systematic empirical evidence	Clinicians should consider all options in their decision-making and be alert to new published evidence that clarifies the balance of benefit versus harm; patient preference should have a substantial influencing role.

Table 2. Scale for Grading Recommendations

tific knowledge and technology advance, and as practice patterns evolve. This practice advisory reflects the state of knowledge current at the time of publication. Given the inevitable changes in the state of scientific information and technology, periodic review and revision will be necessary.

PATIENT SELECTION

Medical care has become sufficiently advanced that patients with complex blood disorders can safely undergo a variety of surgical procedures. However, there remain inherent risks associated with any surgical procedure, and these can be exacerbated in patients with blood dyscrasias. The literature is unclear about whether patients with blood dyscrasias are appropriate candidates for ambulatory surgery. Only minor outpatient procedures (e.g., dental) have been described in the literature. Most patients with hypocoagulable or hypercoagulable states need close monitoring for many days following surgery; however, this can now be accomplished with outpatient testing.

During the preoperative assessment, patients should be evaluated for a history of bleeding, bruising, or thrombosis, including any family history of these conditions. Evidence of unusual postsurgical bleeding, epistaxis, gingival bleeding, and (in women) menorrhagia and a history of pregnancy complications such as stillbirth, preterm delivery, and recurrent miscarriages may be signs of an undiagnosed blood dyscrasia.^{8–15} In addition, patients should be asked about their use of antithrombotic drugs and other drugs/supplements (i.e., over-thecounter and herbal) that may affect coagulation.⁸ In its evidence-based guidelines for managing patients with bleeding disorders,¹⁶ the National Heart, Lung, and Blood Institute has provided appropriate questions to ask patients during the preoperative assessment (Appendix B).

Although routine screening of all patients is not recommended, patients who have a positive history for bleeding, bruising, or thrombosis should undergo preoperative coagulation and/or thrombophilia screening.^{8,16,17} Initial hemostasis laboratory tests may include platelet count and complete blood count, activated partial thromboplastin time, prothrombin time, and optionally either a fibrinogen level or a thrombin time.^{8,16} Bleeding time may be useful to detect severe blood disorders, but is often unreliable for detecting mild or moderate cases.^{8,16} If initial tests are positive or inconclusive, referral may be necessary for further evaluation.

PERIOPERATIVE MANAGEMENT

For patients with hypocoagulable or hypercoagulable states who are candidates for surgical procedures, the following points should be taken into consideration when preparing a detailed preoperative plan for the treatment of local bleeding/thrombi formation:

- Hemostatic laboratory monitoring.
- The choice of treatment for the disorder.
- Preoperative confirmation of the treatment's effectiveness in the specific patient.
- The dose and duration of the treatment.
- Anticipated side effects of the treatment.

HYPOCOAGULABLE (HEMORRHAGIC) STATES

Hypocoagulable, or hemorrhagic, states are characterized by inappropriate or excessive bleeding and a failure to form blood clots. As with any

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medical procedure, there are several possible complications that may arise in association with surgical treatment; however, in patients with hypocoagulable states, the risk of excessive bleeding is the primary concern.

Patients with hypocoagulable disorders taking prophylactic coagulation factors in combination with anticoagulants need to be closely monitored before, during, and after surgery. Medications administered for a particular disorder are often monitored to determine the effectiveness of the coagulation therapy. Coagulation is often monitored by activated partial thromboplastin time, prothrombin time, and other methods, similar to full coagulation workups typically performed preoperatively. Thrombin generation assays, which measure clotting time, the amount of thrombin that forms, and the time it remains active, have also been used to monitor coagulation efficiency in patients.¹⁸ Thromboelastographic assessment, which determines the kinetics of clot formation and the strength and stability of the formed clot, has also been used to monitor coagulation in patients with these disorders.^{19,20}

There are two sequelae of coagulation therapy that need to be considered. First, patients undergoing coagulation-factor replacement therapy to control bleeding need to be monitored closely and treated for possible thrombi formation.^{21,22} Second, the development of inhibitors (antibodies) against human-derived factors is a common and serious complication of factor replacement therapy. Because of the complexity of controlling coagulation in patients who have developed inhibitors, the risks of elective procedures should be considered carefully,

Hypercoagulable (Thrombotic)

and these patients may not be candidates for elective surgery. If surgery is necessary, patients should undergo surgical procedures in centers with personnel well skilled in perioperative inhibitor management.^{23,24}

The treatment of patients with hypocoagulable states depends on the cause and nature of the procedure. For patients with mild disease who are undergoing minor surgical procedures, desmopressin and/or antifibrinolytic agents may facilitate local hemostasis.^{12,25,26} However, bleeding episodes and surgical procedures typically require the use of blood-derived or recombinant replacement factors (Fig. 2).^{18,27-38} For patients who have developed inhibitors against standard factor replacements, therapies that bypass the inhibitors have been used.^{23,39-46} Other treatments such as platelet concentrate, red blood cells, fresh frozen plasma, plasmapheresis, and cryoprecipitate have been described but depend on the type and severity of bleeding disorder.20,47-50

There are several specific conditions, either inherited or acquired, that can cause excessive bleeding. Below are descriptions of the most common bleeding disorders followed by recommendations for perioperative management. Because von Willebrand disease and hemophilia often require similar management, treatment/prophylactic options are discussed concurrently after their descriptions.

von Willebrand Disease

The von Willebrand factor, a multimeric plasma glycoprotein, normally functions to me-

Hypocoagulable (Hemorrhagic)

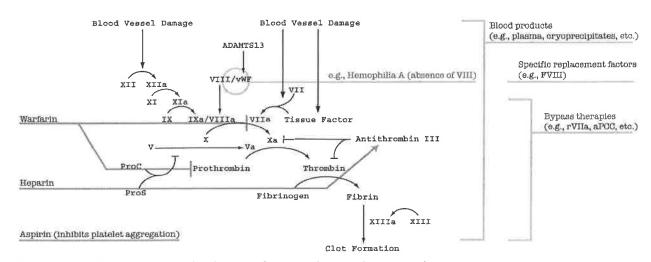


Fig. 2. Action of blood products and replacement factors on the coagulation cascade.

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diate the initial adhesion of platelets and transport factor VIII to the site of vascular injury, promoting the activation of thrombin. The disease is typically characterized by defects in von Willebrand factor that cause low platelet adhesion and increased turnover of factor VIII, which results in the inhibition of normal blood-clotting mechanisms and an increased risk of bleeding.^{51,52} Defects in von Willebrand factor can be attributable to a variety of mutations and/or abnormal multimer patterns.⁵¹ After initial coagulation tests have been performed, specific tests for diagnosing or excluding the disease include von Willebrand factor ristocetin cofactor activity, von Willebrand factor antigen, and factor VIII activity. Additional tests may include evaluation of the ratio of von Willebrand factor activity (von Willebrand factor ristocetin cofactor activity and/or von Willebrand factor collagen binding) to von Willebrand factor antigen, ristocetin-induced platelet aggregation, and analysis of von Willebrand factor multimers.16,53

Von Willebrand disease cannot be attributed to one particular defect, as several distinct mechanisms have been identified, resulting in different forms of the disease. Three main types of the disease have been defined: type 1, the most common form, represents partial deficiency of von Willebrand factor; type 2 variants represent qualitative abnormalities of von Willebrand factor; and type 3 represents severe deficiency of von Willebrand factor (Table 3).⁵¹ It is important to identify the type of von Willebrand disease, as each has important clinical features requiring specific therapeutic approaches.

Table 3. Classification of von Willebrand Disease	e*
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Туре	Description
1	Partial quantitative deficiency of vWF
2	Qualitative vWF defects
А	Decreased vWF-dependent platelet adhesion and a selective deficiency of high-molecular-weight vWF multimers
В	Increased affinity for platelet glycoprotein Ib
M	Decreased vWF-dependent platelet adhesion without a selective deficiency of high- molecular-weight vWF multimers
N	Markedly decreased binding affinity for factor VIII
3	Virtually complete deficiency of vWF

vWF, von Willebrand factor.

Hemophilia

Hemophilia is an inherited X-chromosomelinked disorder characterized by deficiencies of factor VIII (hemophilia A) and factor IX (hemophilia B). These factors normally act to promote the formation of active thrombin. Hemophilia results in decreased thrombin activation, which can inhibit normal blood-clotting mechanisms, thus increasing the risk of bleeding. Hemophilia is diagnosed with initial coagulation tests and specific factor assays, and is classified by bleeding risk (mild, moderate, or severe), which typically correlates with coagulation factor activity (Table 4).^{54,55}

Prophylaxis and Treatment for von Willebrand Disease and Hemophilia Desmopressin

1-Deamino-8-D-argenine vasopressin (desmopressin) is the first-line approach to prophylaxis and treatment in patients with von Willebrand disease and hemophilia A.^{16,56}A synthetic analogue of vasopressin, desmopressin releases bound stores of von Willebrand factor and factor VIII from the vascular endothelium, thereby increasing the plasma concentration of these coagulation factors. Approximately 80 percent of patients with the disease respond favorably to desmopressin⁵⁷; however, the response depends on the specific type and location of mutations and the multimeric pattern of von Willebrand factor.^{52,58} Desmopressin is effective in most type 1 and some type 2 patients. Because type 3 patients are completely deficient in von Willebrand factor and have no bound stores to release, they are completely unresponsive to desmopressin.^{16,57} In patients with hemophilia, response rates depend on the type and severity of disease. Patients with mild hemophilia A respond

Table 4. Classification of Hemophilia*

Classification	Residual Factor Concentration	Description
Mild	0.05–0.35 IU/ml or 5–35%	No spontaneous bleeding delayed-onset bleeding after trauma, surgery, or dental extractions
Moderate	0.01–0.05 IU/ml or 1–5%	Bleeding into joints or muscles with minor trauma; excessive bleeding with surgery
Severe	<0.01 IU/ml or <1%	Spontaneous joint, muscle, and internal bleeding; excessive bleeding with trauma or surgery

*From Israels S, Schwetz N, Boyar R, McNicol A. Bleeding disorders: Characterization, dental considerations and management. J Can Dent Assoc. 2006;72:827.

^{*}From Sadler JE, Budde U, Eikenboom J, et al. Update on the pathophysiology and classification of von Willebrand disease: A report of the Subcommittee on von Willebrand Factor. *J Thromb Haemost.* 2006;4:2103–2114.

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favorably to the drug; patients with moderate to severe hemophilia A or any form of hemophilia B typically are unresponsive.^{56,57}

The standard dosing of injectable desmopressin is 0.3 μ g/kg administered intravenously in 30 to 50 ml of normal saline over 30 minutes, with peak increments of factor VIII and von Willebrand factor 30 to 90 minutes after infusion. Although desmopressin is also available in a nasal spray, intravenous administration is recommended for surgical procedures. Before surgery, a test infusion should be considered to evaluate the patient's response to desmopressin.^{16,52,59}

Coagulation Factor Replacement

For patients who do not respond to desmopressin, the next approach involves replacement of deficient coagulation factors. Patients with von Willebrand disease often receive von Willebrand factor, typically by infusion of exogenous von Willebrand factor contained in plasma-derived von Willebrand factor/ factor VIII concentrates.^{22,27,28,30-32,50,60-62} Perioperative management with von Willebrand factor concentrates depends on the invasiveness of surgery. Table 5 lists the National Heart, Lung, and Blood Institute evidence-based guidelines for the perioperative use of von Willebrand factor concentrate in major and minor surgery.

Patients with hemophilia can be treated with plasma-derived or recombinant factor VIII or factor IX concentrates.^{18,21,33,34,36–38,63–65} For perioperative management, recommended dosages vary by product but generally are 35 to 50 U/kg for factor VIII and 70 to 100 U/kg for factor IX, both with a target factor activity level of 0.7 to 1.0 U/ml (70 to 100 percent).⁵⁷

Adjunctive Agents

Adjunctive agents, such as antifibrinolytics (e.g., tranexamic acid or ε -aminocaproic acid)

and topical thrombin and fibrin sealants, can be used with desmopressin or replacement factors and may further facilitate hemostasis.^{26,57} In some cases (dental and minor skin wounds), these agents may even be used alone to treat local bleeding.⁶⁶

Patients with Inhibitors

Development of inhibitors against coagulation factors is the most common and serious complication of replacement therapy in patients with bleeding disorders. Although rare in patients with von Willebrand disease and hemophilia A, inhibitors develop in approximately 25 to 33 percent of patients with hemophilia B.^{24,56,67} Newly and previously treated patients can develop inhibitors, justifying the need for frequent screening, especially before surgical procedures. Patients are diagnosed by inhibitor type (low or high-responding) and titer [measured in Bethesda units (BU)] as follows^{24,67}:

- Low responders: patients have low titers (≤5 BU), even despite immunologic challenges.
- High responders, low titer: patients have low titers at evaluation that become high (>5 BU) in response to immunologic challenges.
- High responder, high titer: patients have high titer on evaluation; titers can decrease over time in some patients.

There are several hemostatic products available for patients with inhibitors; however, treatment depends on the type and current titer of the inhibitor. Typically, low-responding inhibitors can be overcome by high doses of plasma-derived or recombinant factor VIII or factor IX. High-responding inhibitors of low or high titer typically require bypassing agents including activated pro-

	Type of Surgery		
Perioperative Period	Major	Minor	
Loading dose (vWF: RCo IU/dl)	40-60 U/kg	30-60 U/kg	
Maintenance dose	20-40 U/kg every 8-24 hr	20-40 U/kg every 12-48 hr	
Monitoring	vWF:RCo and factor VIII trough and peak, at least daily	vWF:RCo and factor VIII trough and peak, at least once	
Therapeutic goal	Trough vWF:RCo and factor VIII >50 IU/dl for 7–14 days	Trough vWF:RCo and factor VIII >50 IU/dl for 3–5 days	
Safety parameter	Do not exceed vWF:RCo 200 IU/dl or factor VIII 250–300 IU/dl	Do not exceed vWF:RCo 200 IU/dl or factor VIII 250–300 IU/dl	
Other	May alternate with DDAVP for latter part of treatment	May alternate with DDAVP for latter part of treatment	

NHLBI, National Heart, Lung, and Blood Institute; vWF, von Willebrand factor; RCo, ristocetin cofactor; DDAVP, desmopressin. *Modified from Nichols W; Expert Panel, and National Hemophilia Foundation. The diagnosis, evaluation and management of von Willebrand disease. Available at: http://www.nhlbi.nih.gov/guidelines/vwd/vwd.pdf. Accessed September 22, 2008. Plastic and Reconstructive Surgery • October Supplement 2009

thrombin complex concentrates, such as factor VIII inhibitor bypassing activity (factor VIII inhibitor bypassing activity)^{39,42,68} or recombinant factor VIIa, alone or in combination with antifibrinolytic agents.^{23,29,35,40–46,66,69–72} The recommended starting dose for factor VIII inhibitor bypassing activity is 50 to 100 μ g/kg; for recombinant factor VIIa, 90 μ g/kg. Additional doses should be administered perioperatively as needed.²⁴

Thrombocytopenia

Thrombocytopenias are characterized by reduced levels of blood platelets, and can be inherited or acquired. Inherited thrombocytopenias are often attributed to defects in platelet size, whereas acquired forms typically result from an autoimmune condition, drug toxicity, or underlying disease. Normally, the level of platelets is maintained by the balance of production in the bone marrow and removal by the spleen. When this balance is disrupted, thrombocytopenia develops. Management of the condition depends on cause, but most thrombocytopenias are effectively managed by increasing the total number of platelets before surgery, usually by platelet transfusion, total plasma exchange, or immunosuppressant therapy.

In patients with idiopathic thrombocytopenia, platelet concentrate, red blood cells, fresh frozen plasma,^{48,49} corticosteroids, and immunoglobulin G^{73,74} have been used to control bleeding during surgery. Vinca alkaloids have been used successfully in idiopathic thrombocytopenia patients who fail to respond to corticosteroids.74 Of note, acute heart failure may represent an extremely important clinical risk in patients with thrombotic thrombocytopenia who are undergoing surgery. Therefore, thrombotic thrombocytopenia patients with active-phase disease should undergo a preoperative cardiac workup, including an electrocardiogram, echocardiogram, determination of cardiac enzymes levels, and invasive arterial blood pressure monitoring.75

HYPERCOAGULABLE (THROMBOTIC) STATES

Hypercoagulable, or thrombotic, states are characterized by an increased risk of inappropriate or excessive blood clot formation. These conditions may be attributable to lifestyle risks, such as obesity, smoking, and inadequate exercise; prothrombotic states such as malignancy or pregnancy; or genetic risk factors. Table 6 lists genetic conditions associated with thrombosis formation.

In patients with hypercoagulation, the risk of venous thromboembolism is the greatest periop-

Table 6.	Genetic Hypercoagulable		
(Thrombotic) States			

Characteristic	Condition
Anticoagulant deficiency	Antithrombin
or defect	Protein C
	Protein S
Abnormal coagulant	Factor V Leiden
protein	Prothrombin gene mutation (20210)
	Dysfibrinogenemia
Increased procoagulant	Prothrombin factor VIII
Abnormal metabolism	Hyperhomocysteinemia

erative concern.⁷⁶⁻⁷⁸ Several studies support preoperative testing for heritable thrombophilic defects to aid in the prediction of first-time and recurrent venous thromboembolism episodes. One study showed that venous thromboembolism recurrence rates were significantly increased in patients with hypercoagulable disorders.⁷⁶ In another study, patients who had thrombotic events after total hip arthroplasty were more likely than matched control patients to have hypercoagulable disorders, including the prothrombin gene mutation, protein C deficiency, or antithrombin III deficiency.⁷⁷ In addition, patients with polycythemia vera and essential thrombocythemia were five times as likely as patients without blood disorders to develop venous thromboembolism after major surgery.78

The literature includes case reports of plastic surgery patients who developed venous thromboembolism events that may have been related to the prothrombin gene mutation. One patient undergoing reconstruction for squamous cell carcinoma developed multiple thromboses, resulting in venous microvascular anastomotic failure.¹² Another developed pulmonary thromboembolism after a face lift, despite normal preoperative coagulation tests.⁷⁹ Consideration should be made, however, to one study reporting that venous thromboembolism recurrence rates were not related to the presence of heritable thrombophilia (p = 0.187).⁸⁰

Use of oral contraceptives or hormone replacement therapy may further increase venous thromboembolism risk in patients with hypercoagulable disorders. For oral contraceptive use, significant associations of venous thromboembolism risk were found in women with factor V Leiden; deficiencies of antithrombin, protein C, or protein S; elevated levels of factor VIIIc; and factor V Leiden and prothrombin G20210A.^{17,81} In addition, use of oral contraceptives in patients with factor V Leiden, the prothrombin gene mutation, or hyperhomocysteinemia may increase risk of re-

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current thrombi formation.⁷⁶ A significant association was also found between factor V Leiden and use of hormone replacement therapy.¹⁷ In general, it is up to the physician to decide whether to discontinue usage of hormone replacement therapy and oral contraceptives and to discuss this with his or her patients when discussing these risks.

In patients with hypercoagulable states, the use of prophylactic anticoagulants (e.g., heparin, warfarin) constitutes the primary management approach before, during, and after surgery (Fig. 2). Because anticoagulant therapy can lead to excessive bleeding, patients receiving such prophylaxis must be monitored closely. As mentioned previously, activated partial thromboplastin time, thrombin generation assays, and thromboelastographic assessment represent the spectrum of available monitoring modalities.^{18-20,82} As with normal patients, postoperative graduated compression stockings, intermittent pneumatic compression devices, and early mobilization are used in hypercoagulable patients to prevent thrombosis, 77,83,84 For more information on prophylaxis, see Haeck et al., "Evidence-Based Patient Safety Advisory: Patient Selection and Procedures in Ambulatory Surgery," in this issue.

Additional therapeutic measures may include coagulation factor replacement (e.g., total volume exchange transfusions, plasmapheresis, or fresh frozen plasma)^{19,85,86}; however, coagulation factor/blood product replacement therapy is not typically performed for patients with hypercoagulable disorders (as they are in hypocoagulable states) because of the inherent risks associated with blood products and the possibility of inhibitor formation.⁸⁷ Intravenous immunoglobulin G can also be used in the case of hypercoagulable states derived from autoimmune disorders.⁸⁷ Patients with myeloproliferative disorders that result in increased platelet counts can be treated with phlebotomy and/or cytoreductive therapy (e.g., hydroxyurea, anagrelide, and interferon).^{78,88,89}

CONCLUSIONS

Patients with blood dyscrasias can safely undergo elective surgical procedures; however, because of their inherent bleeding and thrombotic risks, these patients may or may not be suitable candidates for outpatient surgery. The surgeon should conduct a thorough medical history, including family history, to identify any possible blood disorders, and refer patients for further coagulation testing as needed. It is recommended that the surgeon consult with a hematologist to determine whether a patient is suitable for outpatient surgery, to develop an appropriate plan for perioperative treatment/monitoring, and to ensure proper hemostasis and prevention of thrombi formation.

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Appendix A. Summary of Recommendations

- Grade Recommendation Supporting Evidence PATIENT SELECTION В 8 - 17Medical history (see Appendix B) It is recommended that the medical history include questions about: Personal and family history of recurrent bleeding, bruising, or thrombosis • In women, a history of menorrhagia and/or pregnancy complications Previous excessive posttraumatic or postsurgical bleeding Use of antithrombotic drugs and other drugs/supplements that may affect coagulation (i.e., herbal remedies, HRT, oral contraceptives). В PREOPERATIVE TESTING 8, 16, 17 • If bleeding and thrombosis history is negative, preoperative coagulation testing is not recommended If bleeding and thrombosis history is positive or there is a clear clinical indication (e.g., liver disease), preoperative coagulation testing is recommended. For patients requiring coagulation tests, first-line clotting tests may include activated partial thromboplastin time and prothrombin time. Bleeding time may or may not be helpful, depending on severity of blood disorder. PERIOPERATIVE MANAGEMENT Hypocoagulable (hemorrhagic) states von Willebrand disease 16, 52, 58 В • Determine type of vWD: type 1, type 2 (A, B, M, or N), or type 3. • Consider desmopressin as first approach to bleeding prophylaxis 16, 25, 50, 52, 57, 58, 90 В (most type 1; some type 2 patients; type 3 patients do not respond to desmopressin). • For patients who do not respond to desmopressin (most type 2 16, 27, 30, 32, 50, 57, 60, 90-98 В and all type 3), consider replacement factors, vWF/VIII plasmaderived concentrates. В • If patients have an inadequate response to factor concentrates, 16,57additional tests should be considered to test for inhibitors. Adjunctive agents (e.g., antifibrinolytics, topical thrombin or 16, 26, 50, 57, 99 D fibrin) can be considered, as needed. В • Before surgery, the patient's response to therapies should be 16, 52, 57, 58 evaluated to ensure adequate hemostasis. Hemophilia For patients with hemophilia A, consider desmopressin as first 56, 57 D approach to bleeding prophylaxis (desmopressin is not effective in patients with hemophilia B). For patients who do not respond to desmopressin, consider 18, 29, 33-38, 56, 57, 64, 65, 72 В plasma-derived or recombinant replacement factor concentrates, factor VIII (hemophilia A), and factor IX (hemophilia B). • If patients have an inadequate response to factor concentrates, 24, 56, 57 В additional tests should be considered to test for inhibitors. 24, 46, 56, 65, 66 D Adjunctive agents (e.g., antifibrinolytics, topical thrombin or fibrin) can be considered, as needed. 56, 57 D
 - Before surgery, the patient's response to therapies should be evaluated to ensure adequate hemostasis.

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(Continued)

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Appendix A. (Continued)

Supporting Evidence	Grade
24, 57	D
12, 23, 24, 39–46, 57, 66, 69– 72, 100	В
24, 44, 46, 57	D
24, 57	D
48	D
73	D
74	D
48, 49, 75	D
12, 17, 77–79	В
76, 80	С
18–20, 82, 83	D
77, 83, 84	D
	24, 57 12, 23, 24, 39–46, 57, 66, 69– 72, 100 24, 44, 46, 57 24, 57 48 73 74 48, 49, 75 12, 17, 77–79 76, 80 18–20, 82, 83

HRT, hormone replacement therapy; vWD, von Willebrand disease; vWF, von Willebrand factor; aPCC, activated prothrombin complex concentrates; FEIBA, factor VIII inhibitor bypassing activity; IgG, immunoglobulin G; VTE, venous thromboembolism; DVT, deep vein thrombosis; PE, pulmonary embolism.

APPENDIX B. SUGGESTED QUESTIONS FOR SCREENING PERSONS FOR A BLEEDING DISORDER*

*Adapted from Nichols W; Expert Panel, and National Hemophilia Foundation. The diagnosis, evaluation and management of von Willebrand disease. Available at: http://www.nhlbi.nih.gov/ guidelines/vwd/vwd.pdf. Accessed September 22, 2008.

- 1. Have you or a blood relative ever needed medical attention for a bleeding problem or been told you have a bleeding disorder or problem:
 - During/after surgery?
 - With dental procedures, extractions?
 - With trauma?
 - During childbirth or for heavy menses?
 - Ever had bruises with lumps?
- 2. Do you have or have you ever had:
 - Liver or kidney disease, a blood or bone marrow disorder; a high or low platelet count?

3. Do you take aspirin, NSAIDs (provide common names), clopidogrel (Plavix; Bristol-Myers Squibb/Sanofi Pharmaceuticals Partnership, Bridgewater, N.J.), warfarin, heparin, or other drugs/supplements (i.e., other over-the-counter and/or herbal remedies)?

If any of the answers to questionquestions *and* obtain history of treatment and examine patient for signs of bleeding or underlying disease.

- 1. Do you have a blood relative who has a bleeding disorder, such as von Willebrand disease or hemophilia?
- 2. Have you ever had prolonged bleeding from trivial wounds, lasting more than 15 minutes or recurring spontaneously during the 7 days after the wound?
- 3. Have you ever had heavy, prolonged, or recurrent bleeding after surgical procedures, such as tonsillectomy?
- 4. Have you ever had bruising, with minimal or

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no apparent trauma, especially if you could feel a lump under the bruise?

- 5. Have you ever had a spontaneous nosebleed that required more than 10 minutes to stop or needed medical attention?
- 6. Have you ever had heavy, prolonged, or recurrent bleeding after dental extractions that required medical attention?
- 7. Have you ever had blood in your stool, unexplained by a specific anatomical lesion (such as an ulcer in the stomach or a polyp in the colon), that required medical attention?
- 8. Have you ever had anemia requiring treatment or received blood transfusion?
- 9. For women, have you ever had heavy menses, characterized by the presence of clots greater than 1 inch in diameter and/or changing a pad or tampon more than hourly, or resulting in anemia or low iron level?

If the bleeding history is positive, initial laboratory tests and possible referral are recommended.

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