EXHIBIT 43

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Page 1
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             IN THE UNITED STATES DISTRICT COURT
              FOR THE MIDDLE DISTRICT OF ALABAMA
 2
                     NORTHERN DIVISION
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 4
     BRIANNA BOE, et al.,
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            Plaintiffs,
 6
     UNITED STATES OF AMERICA,
            Intervenor Plaintiff,
 8
                                CASE NO. 2:22-cv-184-LCB
           vs.
     HON. STEVE MARSHALL, in his
     Official capacity as Attorney
10
     General, of the State of
     Alabama, et al.,
11
12
            Defendants.
13
14
                Deposition of ARMAND H. ANTOMMARIA,
15
     M.D., Ph.D., FAAP, HEC-C, Witness herein, called
16
     by the Defendants for examination pursuant to the
17
     Rules of Civil Procedure, taken before me, Monica
18
     K. Schrader, a Notary Public in and for the State
     of Ohio, at the U.S. Attorney's Office, Cleveland
19
20
     Branch Office, Atrium II Building, 221 East Fourth
2.1
     Street, Suite 400, Cincinnati, Ohio, on Friday,
2.2
     April 21, 2023, at 9:03 a.m.
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Page 6 1 Exhibit 37 The Amsterdam Cohort of 225 Gender Dysphoria Study 2 (1972-2015): Trends in Prevalence, Treatment, and 3 Regrets 4 Exhibit 38 A Follow-Up Study of Boys 233 Page 6 1 On behalf of the Defendants: 2 Alliance Defending Freedom 3 By: Roger G. Brooks, Esq. Henry W. Frampton, Esq. 4 Laurence Wilkinson, Esq.	
Gender Dysphoria Study 2 (1972-2015): Trends in Prevalence, Treatment, and 3 Regrets Gender Dysphoria Study 2 Alliance Defending Freedom 3 By: Roger G. Brooks, Esq. Henry W. Frampton, Esq.	Page 8
2 (1972-2015): Trends in Prevalence, Treatment, and 3 Regrets 4 Laurence Wilkinson, Esq.	
Prevalence, Treatment, and Henry W. Frampton, Esq. Regrets A Laurence Wilkinson Fsq.	
3 Regrets 4 Laurence Wilkinson Fig.	
4 Exhibit 38 A Follow-Up Study of Boys 233	
With Gender Identity 5 Disorder 5 Scottsdale, Arizona 85260	
6 Exhibit 39 Medical Decision-making in 242 6 and	
Children and Adolescents: 7 Office of the Attorney General, State of	•
7 Developmental and Alabama	
Neuroscientific Aspects 8	
By: Barrett Bowdre, Esq.	
Exhibit 40 Assessing Medical 246 9 Decision-Making Competence 9 Bethany Lee, Esq.	
in Transgender Youth Deputy Solicitors General	
10 501 Washington Avenue	
Exhibit 41 The Competency of Children 254 Montgomery, Alabama 36130	
11 and Adolescents to Make 11	
Informed Treatment ALSO PRESENT: 12 Decisions 12	
12 Exhibit 42 A Qualitative Study of 260	
Adolescents' Understanding	
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Page 7	Page 9
1 APPEARANCES: 1 ARMAND H. ANTOMMARIA, M.D.	•
On behalf of the Intervenor Plaintiff:	
2 of lawful age, Witness herein, having be	een first
U.S. Department of Justice 3 duly cautioned and sworn, as hereinafte	er
By: Jason R. Cheek, Esq. 4 certified, was examined and said as follows:	ows:
4 Deputy Chief, Civil Division 5 EXAMINATION	
1801 Fourth Avenue North	
5 Birmingham, Alabama 35203-2101 6 BY MR. FRAMPTON:	
6 and 7 Kaitlin Toyama, Esq. 7 Q. Good morning, Dr. Antommar	ria. 09:03:33
	09:03:35
9 Attornovy Advisor Federal Coordination	
and Compnance	09:03:35
9 950 Pennsylvania Avenue NW Weshington, D.C. 20530,0001	09:03:36
Washington, D.C. 20530-0001 11 Q. Very good. I introduced myse	elf 09:03:37
and 12 earlier, but I am Hal Frampton. I am	09:03:40
12 representing the State of Alebama and	
By: Coty Montag, Esq. (Via Zoom) 13 representing the State of Alabama, and	
Deputy Chief, Federal Coordination and Compliance Section Civil Biotec Division 14 going to ask you some questions over the	ne course 09:03:44
Compliance Section, Civil Rights Division 13 4 Constitution Square 15 of the day. Have you had your deposition	on taken 09:03:46
150 M Street NE, Room 7.1817 16 before? 09:03	
14 Washington D.C. 20002	
17 A There 00.00	
15 On behalf of the private Plaintiffs: 17 A. I have. 09:00	09:03:51
15 On behalf of the private Plaintiffs: 17 A. I have. 09:00 18 King & Spalding, LLP 18 Q. How many times about?	03:53
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 18 Q. How many times about?	
15 On behalf of the private Plaintiffs: 17 A. I have. 09:00	e in 09:03:54
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 1180 Peachtree Street, NE, Suite 1600 18 Atlanta, Georgia 30309 19 and 17 A. I have. 09:02 18 Q. How many times about? 19 A. Twice. 09:02 20 Q. Twice. What cases were those	
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 1180 Peachtree Street, NE, Suite 1600 18 Atlanta, Georgia 30309 19 And 20 Michael B. Shortnacy, Esq. (Via Zoom) 21 to the best of your recollection?	09:03:57
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 1180 Peachtree Street, NE, Suite 1600 18 Atlanta, Georgia 30309 20 Q. Twice. What cases were those and Michael B. Shortnacy, Esq. (Via Zoom) 633 West Fifth Street, Suite 1600 21 to the best of your recollection? 22 A. The case in Arkansas and the organization of the private Plaintiffs: 17 A. I have. 99:02 18 Q. How many times about? 19 A. Twice. 99:03 20 Q. Twice. What cases were those of your recollection? 21 to the best of your recollection?	09:03:57
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 1180 Peachtree Street, NE, Suite 1600 18 Atlanta, Georgia 30309 19 and 20 Michael B. Shortnacy, Esq. (Via Zoom) 633 West Fifth Street, Suite 1600 21 Los Angeles, California 90071 17 A. I have. 09:02 18 Q. How many times about? 19 A. Twice. 09:02 20 Q. Twice. What cases were those 21 to the best of your recollection? 21 A. The case in Arkansas and the case 22 A. The case in Arkansas and the case 33 West Fifth Street, Suite 1600	09:03:57 case 09:03:58
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 1180 Peachtree Street, NE, Suite 1600 18 Atlanta, Georgia 30309 19 and 20 Michael B. Shortnacy, Esq. (Via Zoom) 633 West Fifth Street, Suite 1600 21 Los Angeles, California 90071 22 A. The case in Arkansas and the organisation of the private Plaintiffs: 17 A. I have. 99:02 18 Q. How many times about? 19 A. Twice. 99:02 20 Q. Twice. What cases were those of your recollection? 21 to the best of your recollection? 22 A. The case in Arkansas and the organisation of the private Plaintiffs: 23 in Florida. 99:03	09:03:57 case 09:03:58 4:01
15 On behalf of the private Plaintiffs: 16 King & Spalding, LLP 17 By: Adam Reinke, Esq. (Via Zoom) 1180 Peachtree Street, NE, Suite 1600 18 Atlanta, Georgia 30309 19 and 20 Michael B. Shortnacy, Esq. (Via Zoom) 633 West Fifth Street, Suite 1600 21 Los Angeles, California 90071 22 A. The case in Arkansas and the organisation of the private Plaintiffs: 17 A. I have. 99:02 18 Q. How many times about? 19 A. Twice. 99:03 20 Q. Twice. What cases were those of your recollection? 21 to the best of your recollection? 22 A. The case in Arkansas and the organisation of the private Plaintiffs: 23 in Florida. 99:03 18 Q. How many times about? 19 A. Twice. 99:03 20 Q. Twice. What cases were those of your recollection? 21 to the best of your recollection? 22 A. The case in Arkansas and the organisation of the private Plaintiffs: 23 in Florida.	09:03:57 case 09:03:58 4:01 09:04:02

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3 deposition? 09-08-12 4 A. Yes 09-09-13 5 Q. Okay, What types of pediatric 09-08-58		
3 deposition? 09-08-12 4 A. Yes 09-09-13 5 Q. Okay, What types of pediatric 09-08-58	2 O. And Florida, was that a recent 09:04:09	2 A. Oh, we don't care for all types of 09:06:55
4 A. Yes. 09:04:13		
5		
6 A. Ahout two weeks ago. 09:04:14 8 basically how this process works. This will 09:04:20 9 work the same as your others. I am going to 09:04:22 10 ask you a series of questions. You understand 09:04:25 11 that you are under oath this morning, correct? 99:04:27 12 A. I do. 09:04:28 13 Q. Fair enough. Dr. Antommaria, I am 09:04:45 14 going to hand you what I am marking as 09:04:52 15 Exhibit I. 09:04:53 16 (Thereupon, Exhibit I, curriculum 09:05:15 17 vine, was marked for purposes of identification.) 09:05:02 18 BY MR. FRAMPTON: 09:05:02 18 BY MR. FRAMPTON: 09:05:17 20 Exhibit I a current copy of your CV? 09:05:18 21 A. Yes, it's a current copy of your CV? 09:05:18 22 Q. Thank you, sir. 09:05:21 23 MR. CHEEK: And, Mr. Frampton, my 09:05:42 24 apologies, can I put something on the record 09:05:45 25 before we go further? That we are not agreeing to 09:05:53 3 MR. FRAMPTON: 08ay. 09:05:53 5 the right to read and sign. 09:05:55 6 MR. FRAMPTON: 08ay. 09:05:57 7 MR. CHEEK: Mapologies, 09:05:05 7 MR. CHEEK: Mapologies, 09:05:17 18 BY MR. FRAMPTON: 08ay. 09:05:57 8 BY MR. FRAMPTON: 08ay. 09:05:57 9 Q. All right. Dr. Antonmaria, I see 09:06:01 10 on the second page of your CV that you are in 09:06:01 16 Q. What is your specialty? 09:06:01 17 A. No, I a	5 Q. When was it? 09:04:13	5 inpatients do you not care for? 09:07:03
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10 ask you a series of questions. You understand you are under oath this morning, correct? 09:04:27 11 that you are under oath this morning, correct? 09:04:27 11 inpatients? 09:07:28 12 A. So all the patients that I care 09:07:28 13 Q. Fair enough. Dr. Antommaria, I am 09:04:45 13 for were admitted as an inpatient. We are 09:07:38 14 going to hand you what I am marking as 09:04:52 14 increasingly managing transitions to home and 09:07:43 15 do receive phone call for patients following 09:07:43 15 do receive phone calls for patients following 09:07:43 15 do receive phone calls for patients following 09:07:43 15 do receive phone calls for patients following 09:07:43 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:07:45 15 do receive phone calls for patients following 09:08:10 15 do receive phone	8 basically how this process works. This will 09:04:20	8 single subspecialty condition. 09:07:17
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12 A. I do. Q:04:28 13 Q: Fair enough. Dr. Antommaria, I am Q:04:45 14 going to hand you what I am marking as Q:04:52 14 cincreasingly managing transitions to home and Q:07:738 15 Exhibit I. Q:02:05:01 16 (Thereupon, Exhibit I, curriculum Q:09:05:01 17 vitne, was marked for purposes of identification.) Q:09:05:02 18 BY MR. FRAMPTON: Q:09:05:17 Q: All right. Dr. Antommaria, is Q:09:05:17 Q: All right. Dr. Antommaria, is Q:09:05:18 Q: A. Yes, it's a current copy of your CV? Q:09:05:18 Q: Thank you, sir. Q:09:05:18 Q: D:09:05:19 Q: Thank you, sir. Q:09:05:45 Q: Display to the properties of the	10 ask you a series of questions. You understand 09:04:25	10 practice that all of your patients are 09:07:25
13 Q. Fair enough. Dr. Antommaria, I am 09:04:45 14 going to hand you what I am marking as 09:04:55 Exhibit I.	11 that you are under oath this morning, correct? 09:04:27	11 inpatients? 09:07:27
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15 Exhibit 1.	13 Q. Fair enough. Dr. Antommaria, I am 09:04:45	13 for were admitted as an inpatient. We are 09:07:38
16	14 going to hand you what I am marking as 09:04:52	14 increasingly managing transitions to home and 09:07:43
17 vitae, was marked for purposes of identification.) 09:05:02 18 BY MR. FRAMPTON: 09:05:02 20 Exhibit 1 a current copy of your CV? 09:05:17 21 A. Yes, it's a current copy of my CV. 09:05:18 22 Q. Thank you, sir. 09:05:45 23 MR. CHEEK: And, Mr. Frampton, my 09:05:45 24 apologies, can I put something on the record 09:05:45 25 before we go further? That we are not agreeing to 09:05:45 26 deposition according to the Federal Rules. 09:05:49 27 deposition according to the Federal Rules. 09:05:54 28 MR. FRAMPTON: Okay. 09:05:53 3 MR. FRAMPTON: Okay. 09:05:53 4 MR. CHEEK: And we will also reserve 09:05:54 5 the right to read and sign. 09:05:57 7 MR. CHEEK: My apologies. 09:05:57 7 MR. CHEEK: My apologies. 09:05:57 8 BY MR. FRAMPTON: Okay. 09:05:57 9 Q. All right. Dr. Antommaria, I see 09:06:01 10 on the second page of your CV that you are in 09:06:14 11 the Department of Surgery; is that correct? 09:06:07 11 the Department of Surgery; is that correct? 09:06:15 12 A. I have a secondary appointment in 09:06:14 13 the Department of Surgery. 09:06:15 14 Q. Okay. Are you a surgeon? 09:06:17 15 A. No, I am not. 09:06:12 16 Q. What is your specialty? 09:06:30 17 A. My clinical specialty is as a 09:06:24 18 pediatric hospitalist. 09:06:31 20 care of pediatric patients while they are 09:06:32 21 gediatric hospitalist. 1 09:09:44 22 hospitalist is defined. 09:06:50 24 polyorithment of with the correct? 09:06:37 25 pediatric hospitalist is decined. 09:06:40 26 Q. An that is a nappect of what a 09:06:40 27 Q. And so that means you manage the 09:06:37 28 pediatric hospitalist is decined. 09:06:50 29 Q. And so that means you manage the 09:06:34 20 care of pediatric patients while they are 09:06:64 21 pediatric hospitalist is decined. 09:06:64 22 pediatric hospitalist is decined. 09:06:64 23 pediatric hospitalist is decined. 09:06:64 24 polyorithment of with the propertion of which the pro	15 Exhibit 1. 09:04:53	15 do receive phone calls for patients following 09:07:49
18 BY MR. FRAMPTON:		
19 Q. All right. Dr. Antommaria, is 09:05:17 09:05:18 20 Exhibit I a current copy of your CV? 09:05:18 21 Cincinnati Children's that child psychiatry has 09:08:10 22 Q. Thank you, sir. 09:05:41 22 its own inpatient facilities; is that correct? 09:08:18 23 MR. CHEEK: And, Mr. Frampton, my 09:05:42 24 apologies, can I put something on the record 09:05:45 25 before we go further? That we are not agreeing to 09:05:45 25 Q. And do you service those patients? 09:08:28 25 Q. And do you service those patients? 09:08:31 2 MR. CHEEK: And, we will take this 09:05:53 3 MR. FRAMPTON: Okay. 09:05:53 4 MR. CHEEK: And we will also reserve 09:05:53 5 the right to read and sign. 09:05:57 4 MR. CHEEK: My apologies. 09:05:57 6 MR. FRAMPTON: Okay. 09:05:57 7 MR. CHEEK: My apologies. 09:05:57 8 BY MR. FRAMPTON: 09:05:58 8 BY MR. FRAMPTON: 09:06:10 10 on the second page of your CV that you are in 09:06:10 12 A. I have a secondary appointment in 09:06:11 15 A. No, I am not. 09:06:17 16 Q. What is your specialty? 09:06:34 17 Q. What is your specialty? 09:06:35 18 20 Q. And so that means you manage the 09:06:36 19 Q. And so that means you manage the 09:06:36 21 inpatients; is that correct? 09:06:37 22 its own inpatient facilities; is untaric children's that child psychiatry has 09:08:15 22 its own inpatient facilities; is with at correct? 09:06:54 24 psychiatric beds at Cincinnati Children's that child psychiatry has 09:08:15 23 its own inpatient facilities; is objection, form. 09:08:28 25 Q. And do you service those patients 09:08:38 25 Q. And do you service those patients 09:08:31 26 MR. CHEEK: And we will also reserve 09:05:55 27 4 do admit psychiatric patients open that is 09:08:45 26 Cleared and are awaiting psychiatric admission. 09:08:49 27 7 And as a bioethicist, I consult on patients 09:09:09:30 27 27 27 27		
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25 Q. Okay. What did I miss in that 09:06:52 25 hospitalist. 09:09:51	24 hospitalist is defined. 09:06:50	24 dedicated to my work as a pediatric 09:09:49
	25 Q. Okay. What did I miss in that 09:06:52	25 hospitalist. 09:09:51

P 14	D 16
Page 14 1 Q. And what percentage as a medical 09:09:52	Page 16 1 you do you have sort of a compensation line 09:12:45
2 ethicist? 09:09:54	2 item for your clinical practice and a line item 09:12:48
3 A. So 70 percent of my time is 09:09:55	3 for your role as director of the Ethics Center? 09:12:50
4 dedicated to my role as the director of the 09:09:59	4 Is it broken out in that way? 09:12:54
5 Ethics Center at Cincinnati Children's. 09:10:04	5 A. So within the Ethics Center 09:12:56
6 Q. You do not perform the initial 09:10:05	6 budget, there is compensation for my clinical 09:13:00
7 diagnosis of gender dysphoria in a patient, do 09:10:11	7 time, which comes from the Division of Hospital 09:13:05
8 you? 09:10:14	8 Medicine. And there is our other budget lines 09:13:09
9 A. That is correct, I don't perform 09:10:14	9 for my effort related to being the director of 09:13:14
10 the initial diagnosis. 09:10:17	10 the Ethics Center. 09:13:18
Q. And you do not initiate medical 09:10:18	11 Q. In your clinical consultation 09:13:18
12 treatment; is that correct? 09:10:22	12 practice, that is not limited as an ethicist 09:13:28
MR. CHEEK: Objection, form. 09:10:24	13 that is not limited to gender dysphoria issues, 09:13:34
14 THE WITNESS: Could you be more 09:10:28	14 correct? 09:13:37
15 what do you mean by medical treatment, sir? 09:10:29	15 MR. CHEEK: Objection, form. 09:13:37
16 BY MR. FRAMPTON: 09:10:32	THE WITNESS: No, it is not limited 09:13:39
Q. Do you initiate the treatment of 09:10:33	17 in that way. 09:13:41
18 puberty-suppressing medication in patients with 09:10:35	18 BY MR. FRAMPTON: 09:13:41
19 gender dysphoria? 09:10:39	19 Q. About what percentage of your time 09:13:43
20 A. No, I do not. 09:10:39	20 do you believe you spend on gender dysphoria 09:13:44
Q. What about cross-sex hormones? 09:10:40	21 issues in your role as an ethicist? 09:13:46
A. I don't initiate the use of gender 09:10:43	A. So, again, it's difficult for me 09:13:50
23 affirming hormone therapy. 09:10:49	23 to put a percentage. I would say that I attend 09:14:00
Q. Your medical ethics practice, what 09:10:50	24 and participate in Adolescent Medicine Clinic 09:14:06
25 all does that consist of? 09:11:04	25 that cares for transgender patients, 09:14:12
Page 15	Page 17
Page 15 1 A. So I direct the Ethics Center at 09:11:05	Page 17 1 multidisciplinary team meeting. I consult on 09:14:17
1 A. So I direct the Ethics Center at 09:11:05	1 multidisciplinary team meeting. I consult on 09:14:17
1 A. So I direct the Ethics Center at 09:11:05 2 Cincinnati Children's, so I have oversight for 09:11:16	1 multidisciplinary team meeting. I consult on 09:14:17 2 patients on an as-needed basis when particular 09:14:20
1 A. So I direct the Ethics Center at 09:11:05 2 Cincinnati Children's, so I have oversight for 09:11:16 3 the center's activities. The center has 09:11:19	1 multidisciplinary team meeting. I consult on 09:14:17 2 patients on an as-needed basis when particular 09:14:20 3 ethical issues arise, which may be two to three 09:14:28
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Page 18	Page 20
1 are not an endocrinologist; is that correct? 09:15:37	1 attempts to take their life and is successful 09:19:14
2 A. That is correct. 09:15:39	2 and has died, and suicidality would be that 09:19:16
3 Q. All right. What training do you 09:15:40	3 someone has thoughts of committing suicide or 09:19:22
4 have in adolescent developmental psychology? 09:15:44	4 potentially attempts to commit suicide. 09:19:28
	5 Q. Suicidality is far more common 09:19:37
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6 development psychology as part of my medical 09:15:55 7 school education, as part of my pediatric 09:15:59	1
	7 A. That is correct. 09:19:41
8 residency training, and as part of my ongoing 09:16:02	8 Q. Do you consider yourself an expert 09:19:42
9 professional education. 09:16:06	9 in suicide or suicidality? 09:19:47
Q. Do you consider yourself an expert 09:16:07	10 A. No, I don't consider myself an 09:19:50
11 in adolescent developmental psychology? 09:16:12	11 expert on those topics. 09:19:52
12 A. No, I don't consider myself an 09:16:15	Q. When are you aware of any study 09:19:53
13 expert in that area. 09:16:19	13 demonstrating that the medical transition of 09:20:12
Q. What is your training in the study 09:16:20	14 any type, whether it's hormonal, surgical, 09:20:17
15 of cognitive development? 09:16:32	15 whatever, reduces the rate of completed suicide 09:20:20
16 A. Again, I have training in the 09:16:33	16 among any population of transgender 09:20:24
17 study of cognitive development as a result of 09:16:40	17 individuals? 09:20:29
18 my medical school education, my residency 09:16:43	MR. CHEEK: Objection. I didn't hear 09:20:29
19 training, and my ongoing professional 09:16:46	19 the last part of your question, Counsel. 09:20:31
20 development. 09:16:49	20 MR. FRAMPTON: I'll just do it again. 09:20:40
Q. Do you consider yourself an expert 09:16:50	21 BY MR. FRAMPTON: 09:20:41
22 in that area? 09:16:53	22 Q. Are you aware of any study I'll 09:20:42
A. So I don't consider myself an 09:16:54	23 speak up are you aware of any study 09:20:43
24 expert in that area colloquially. There are 09:17:02	24 demonstrating that medical transition of any 09:20:46
25 particular areas related to, say, adolescent 09:17:07	25 kind reduces the rate of completed suicides 09:20:48
Page 19	Page 21
Page 19 1 capacity to make decisions that are a narrow 09:17:11	
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1 capacity to make decisions that are a narrow 09:17:11	1 among any population of transgender 09:20:52
1 capacity to make decisions that are a narrow 09:17:11 2 subset of the entire field in which I have a 09:17:16 3 greater knowledge. 09:17:20	1 among any population of transgender 09:20:52 2 individuals? 09:20:54
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6 (Pages 18 - 21)

D 00	D 24
Page 22 1 dysphoria, the short-term effects might have 09:22:37	Page 24 1 conclusions about the effects of hormone 09:25:46
1 dysphoria, the short-term effects might have 09:22:37 2 greater weight. 09:22:40	2 therapy on death by suicide. Do you see that? 09:25:48
3 Q. Even in the latter case, the 09:22:40	3 A. I do see that sentence, sir. 09:25:50
4 long-term effects are important, are they not? 09:22:45	4 Q. And my question is simply are you 09:25:53
5 A. In the latter case, being someone 09:22:47	5 aware of any systematic reviews that have been 09:25:55
6 with severe dysphoria? 09:22:53	6 able to draw conclusions about the effects of 09:25:59
7 Q. Yes. 09:22:54	7 hormone therapy on suicide? 09:26:04
8 A. Yes. 09:22:55	8 A. So I believe that my answer to the 09:26:05
9 (Thereupon, Exhibit 2, Hormone 09:23:06	9 prior question was that I wasn't aware of any 09:26:13
10 Therapy, Mental Health, and Quality of Life Among 09:23:00	
11 Transgender People: A Systematic Review, was 09:23:06	11 individual studies, I am also not aware of any 09:26:22
12 marked for purposes of identification.) 09:23:07	12 meta-analyses of individual studies. 09:26:29
13 BY MR. FRAMPTON: 09:23:07	Q. Fair. Okay, we are done with that 09:26:30
14 Q. All right. Dr. Antommaria, I am 09:23:21	14 one. 09:27:13
15 going to show you what I am marking as 09:23:23	15 (Thereupon, Exhibit 3, Psychosocial 09:27:13
16 Exhibit 2. What I marked is a paper entitled 09:23:24	16 Functioning in Transgender Youth after 2 Years of 09:27:13
17 Hormone Therapy, Mental Health, and Quality of 09:23:58	17 Hormones, was marked for purposes of 09:27:13
18 Life Among Transgender People, A Systematic 09:24:01	18 identification.) 09:27:13
19 Review. The lead author is Kellan Baker. And, 09:24:04	19 BY MR. FRAMPTON: 09:27:13
20 Dr. Antommaria, first question, is this an 09:24:07	Q. I think we'll have a little better 09:27:13
21 article that you are familiar with? 09:24:10	21 luck with this one. I am going to show you, 09:27:13
22 A. No, sir, it is not. 09:24:11	22 Dr. Antommaria, what I am marking as 09:27:14
Q. So this wasn't something that you 09:24:13	23 Defendants' Exhibit 3. I found my exhibit 09:27:17
24 reviewed in preparing your expert report? 09:24:17	24 sticker, so we are starting off on the right 09:27:22
25 A. No, sir, it is not. 09:24:22	25 foot. 09:27:24
Page 23	Page 25
Page 23 1 Q. Then my questions about it are 09:24:24	Page 25 1 And what I have marked as 09:27:36
_	_
1 Q. Then my questions about it are 09:24:24	1 And what I have marked as 09:27:36
1 Q. Then my questions about it are 09:24:24 2 going to be very limited. But I would like you 09:24:29	1 And what I have marked as 09:27:36 2 Exhibit 3 is an article entitled Psychosocial 09:27:39
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1	Page 26 BY MR. FRAMPTON: 09:29:04	Page 28 1 Q. I'm sorry, that's sample 09:32:34
2	O. For this kind of research. 09:29:07	2 characteristics. 09:32:35
3	A. My general understanding is that 09:29:12	3 A. Okay. 09:32:36
	Dr. Rosenthal is an expert in the field of 09:29:14	4 Q. Next to last sentence from the 09:32:36
	transgender health care. 09:29:17	5 bottom of that particular section, I'll read it 09:32:40
6	Q. Are you familiar with Dr. Chen? 09:29:18	6 one more time. Two participants died by 09:32:42
	Have you read other publications by her? 09:29:25	7 suicide during the study, one after six months 09:32:45
8	A. So given that many articles have 09:29:28	8 of follow-up and the other after 12 months of 09:32:48
	multiple authors, and I may not always be as 09:29:38	9 follow-up, and six participants withdrew from 09:32:51
	attentive to the middle authors of a 09:29:44	10 the study. Did I read that correctly? 09:32:55
	publication, I may have read articles by 09:29:47	11 A. Yes, sir. 09:32:56
	Dr. Chen, but none immediately come to mind. 09:29:51	12 Q. Okay. The authors recognized 09:32:56
13	Q. Okay, fair. This is published in 09:29:57	13 those suicide deaths as adverse events; is that 09:33:08
14	the New England Journal of Medicine, correct? 09:30:04	14 correct? 09:33:11
15	A. It is, sir. 09:30:06	15 A. I would have to look at their 09:33:11
16	Q. Is that a prestigious medical 09:30:09	16 methods and results to confirm that, sir. 09:33:22
17	journal, in your understanding? 09:30:12	Q. Yeah, let me help you out. Go to 09:33:24
18	A. It is, sir. 09:30:13	18 page 245, Table 2, top left-hand corner. 09:33:30
19	Q. All right. Let's talk about this 09:30:14	19 A. Okay. 09:33:33
20	study. This is a perspective cohort study; is 09:30:18	Q. Based on that table, do you agree 09:33:33
21	that correct, in terms of research design? 09:30:29	21 that they recognized these deaths as adverse 09:33:40
22	A. Yes, sir. 09:30:31	22 events in their protocol? 09:33:43
23	Q. And that means that the 09:30:31	A. Yes, so Table 2 is titled Adverse 09:33:48
24	researchers are sort of monitoring the 09:30:34	24 Events. An event is listed by death by 09:33:51
25	participants as the experiment proceeds, 09:30:37	25 suicide. 09:33:54
	Page 27	Page 29
1	Page 27 correct? 09:30:40	Page 29 1 Q. What is an adverse event in a 09:33:54
1 2		_
2	correct? 09:30:40	1 Q. What is an adverse event in a 09:33:54
3	correct? 09:30:40 A. Yes, they establish a cohort of 09:30:41	1 Q. What is an adverse event in a 09:33:54 2 research study? 09:33:57
2 3 4 5	correct? 09:30:40 A. Yes, they establish a cohort of 09:30:41 patients and follow them over time. One might 09:30:48 refer to it as an observational study. 09:30:54 Q. Fair enough. This study, we have 09:30:56	1 Q. What is an adverse event in a 09:33:54 2 research study? 09:33:57 3 A. So an adverse event in a research 09:33:57
2 3 4 5	correct? 09:30:40 A. Yes, they establish a cohort of 09:30:41 patients and follow them over time. One might 09:30:48 refer to it as an observational study. 09:30:54	1 Q. What is an adverse event in a 09:33:54 2 research study? 09:33:57 3 A. So an adverse event in a research 09:33:57 4 study would be a negative outcome in the study, 09:34:05 5 although it may not necessarily be attributable 09:34:12 6 to the intervention in the study. 09:34:16
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8 (Pages 26 - 29)

Page 20	Dage 22
Page 30 1 Q. And that would be 0.3 percent per 09:35:40	Page 32 1 were familiar with this study. Had you in 09:38:42
2 patient year, my math roughly, correct? 09:35:42	2 reading it before today, had you noticed the 09:38:45
3 A. I would need to take your word 09:35:47	3 suicide point, that two of the participants had 09:38:50
4 that your math is correct, sir. 09:35:49	4 committed suicide? Is that something that 09:38:56
5 Q. Do you have any sense of whether 09:35:50	5 stuck out to you? 09:38:59
6 that is a particularly high suicide rate? 09:35:54	6 A. So, sir, it's included in the 09:38:59
7 A. Based on other literature that I 09:35:58	7 abstract. So yes, it was something I was aware 09:39:04
8 have read, I would have reason to believe that 09:36:12	8 of. 09:39:06
9 it is higher than the population average, sir. 09:36:14	9 Q. Did you in reviewing it find any 09:39:06
10 Q. Can you think of any study that 09:36:17	10 explanation that the authors provided as to the 09:39:12
11 has found that high of a rate of death by 09:36:24	11 suicide rate? 09:39:16
12 suicide among gender dysphoric children or 09:36:28	12 A. So it's been a while since I have 09:39:18
13 youth who were not given hormonal 09:36:34	13 read this study. I would need to review the 09:39:22
14 interventions? 09:36:36	14 authors' discussion to determine how they 09:39:25
15 A. Can you repeat your question, sir? 09:36:38	15 discussed the suicide rate in their study. So, 09:39:29
16 Q. I am happy to. 09:36:44	16 sir, in scanning the discussion without 09:41:09
17 A. Just so I understand. 09:36:45	17 rereading it thoroughly, I don't see a specific 09:41:14
18 Q. Understood. Can you think of any 09:36:46	18 discussion of the two participants who 09:41:16
19 study as you sit here today that has found that 09:36:47	19 unfortunately committed suicide during the 09:41:20
20 high of a suicide rate among gender dysphoric 09:36:50	20 study. 09:41:23
21 children or youth who were not given hormonal 09:36:55	Q. That's fine. You can put that one 09:41:23
22 interventions? 09:36:58	22 aside for now. We will probably come back to 09:41:25
23 MR. CHEEK: Objection, form. 09:37:03	23 it at some point. Dr. Antommaria, in your 09:41:28
24 THE WITNESS: So, sir, I can't think 09:37:07	24 understanding, is the term evidence-based 09:41:34
25 of a study of the suicide rate in individuals who 09:37:08	25 medicine a term of art that has a particular 09:41:38
Page 31	Page 33
Page 31 1 did not receive gender affirming medical care, so 09:37:14	Page 33 1 meaning? 09:41:43
1 did not receive gender affirming medical care, so 09:37:14	1 meaning? 09:41:43
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Page 34	Page 36
1 over time, there is less of an emphasis on 09:43:13	1 A. I do. 09:46:36
2 individual courses and the integration of 09:43:18	2 Q. What do you know about Dr. Guyatt? 09:46:37
3 knowledge into larger blocks of courses. So 09:43:22	3 A. I know that Dr. Guyatt works in 09:46:39
4 no, I have not taken a individual course on 09:43:25	4 the area of evidence-based medicine, and I am 09:46:45
5 evidence-based medicine, but it has been a 09:43:29	5 familiar with his role in the development of 09:46:48
6 component then of my undergraduate medical 09:43:31	6 the GRADE methodology. 09:46:51
7 education, my residency, and my continuing 09:43:35	7 Q. Got it. Turn in the preface if 09:46:56
8 medical education. And I teach medical 09:43:39	8 you would to page 26, but it's Roman numeral 09:47:03
9 evidence-based medicine to the trainees that I 09:43:42	9 XXVI. 09:47:11
10 supervise. 09:43:47	10 A. I am there, sir. 09:47:29
Q. And you teach that they are to 09:43:47	11 Q. Okay. And in that first full 09:47:30
12 base their care to the greatest extent possible 09:43:57	12 paragraph, do you see the sentence: We have 09:47:35
13 on the best available evidence; is that 09:43:59	13 added a fundamental principle to the hierarchy 09:47:42
14 correct? 09:44:03	14 of evidence and the necessity for value and 09:47:46
15 A. Yes. 09:44:03	15 preference judgments; that optimal clinical 09:47:50
16 (Thereupon, Exhibit 4, Users' Guides 09:44:09	16 decision making requires systematic summaries 09:47:54
17 to the Medical Literature, was marked for purposes 09:44:09	17 of the best available evidence, do you see 09:47:58
18 of identification.) 09:44:09	18 that? 09:48:00
19 BY MR. FRAMPTON: 09:44:09	19 A. I do see that sentence, sir. 09:48:01
Q. All right. I am going to hand 09:44:40	Q. Do you agree with that sentence? 09:48:02
21 you, Dr. Antommaria, what I am marking as 09:44:41	A. So it's hard for me to necessarily 09:48:03
22 Defense Exhibit 4. We are going to go through 09:44:43	22 understand a sentence removed from its broader 09:48:22
23 this page by page. I am joking, we are not. 09:44:50	23 context, sir. 09:48:26
24 What I have marked as Exhibit 4 is called 09:44:55	Q. Do you agree in general with the 09:48:27
25 User's Guides to the Medical Literature. The 09:44:58	25 principle that optimal clinical decision making 09:48:33
Page 35	Page 37
Page 35 1 lead author is Gordon Guyatt. Dr. Antommaria, 09:45:03	Page 37 1 requires systematic summaries of the best 09:48:36
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10 (Pages 34 - 37)

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1 review of the evidence uses a systematic 09:50:35	1 systematic review of the literature on a 09:53:57
2 process to collect and review evidence 09:50:39	2 medical intervention, I will not have utilized 09:53:57
3 generally related to a specific clinical 09:50:45	3 the GRADE methodology to assess the quality of 09:53:59
4 decision so that there would be mechanisms for 09:50:49	4 that evidence, sir. 09:54:03
5 searching the literature, reviewing abstracts 09:50:58	5 Q. Okay. Well, as a methodology, is 09:54:06
6 and titles and then reviewing full texts of 09:51:01	6 GRADE limited to medical interventions? 09:54:09
7 articles, abstracting data from the articles, 09:51:03	7 A. So it may also be applicable to 09:54:10
8 and then summarizing that information in some 09:51:08	8 diagnostic tests, as well as treatments. 09:54:21
9 systematic reviews may also then involve a 09:51:13	9 Q. But you have not done that kind of 09:54:25
10 meta-analysis, the analysis of the data from a 09:51:15	10 systematic review, either, correct? 09:54:30
11 number of individuals. 09:51:19	11 A. No, I have not, sir. 09:54:31
12 Q. So typically, the methodology for 09:51:20	12 Q. Okay, fair enough. It looked like 09:54:32
13 searching for potentially relevant evidence 09:51:25	13 you have done two systematic reviews; is that 09:54:39
14 would be disclosed in the review, correct? 09:51:28	14 right? 09:54:42
15 A. So there are published 09:51:30	15 A. So can I refer to my CV, sir? 09:54:42
16 recommendations for best practices for 09:51:41	16 Q. Yeah, let me in fact, let's go 09:54:57
17 performing systematic reviews of the 09:51:43	17 ahead and 09:55:01
18 literature. And I am not going to remember 09:51:45	18 MR. FRAMPTON: Grab 110 and 111. 09:55:02
19 which of the appropriate guidelines it is, but 09:51:47	THE WITNESS: So, sir, one systematic 09:55:16
20 there are guidelines and checklists for 09:51:50	20 review immediately comes to mind. I have 09:55:18
21 recommending what is a best practice for 09:51:54	21 hesitance regarding the characterization that I 09:55:24
22 performing a systematic review. 09:51:57	22 have performed two. 09:55:28
Q. And do you know sitting here 09:51:59	MR. FRAMPTON: We'll just go ahead 09:55:28
24 whether disclosing the methodology, the search 09:52:04	24 and mark them. That way, we are all clear. 09:55:36
25 methodology, is one of those best practices? 09:52:06	25 (Thereupon, Exhibit 5, A Systematic 09:55:36
Page 39	Page 41
Page 39 1 A. I believe it would be, sir. 09:52:08	Page 41 1 Literature Review of Individuals' Perspectives on 09:55:36
1 A. I believe it would be, sir. 09:52:08 2 Q. Will a systematic review often 09:52:12	1 Literature Review of Individuals' Perspectives on 09:55:36 2 Broad Consent and Date Sharing in the United 09:55:36
1 A. I believe it would be, sir. 09:52:08 2 Q. Will a systematic review often 09:52:12 3 rate the quality of the evidence or assess the 09:52:19	1 Literature Review of Individuals' Perspectives on 09:55:36 2 Broad Consent and Date Sharing in the United 09:55:36 3 States, was marked for purposes of 09:55:36
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1 A. I believe it would be, sir. 09:52:08 2 Q. Will a systematic review often 09:52:12 3 rate the quality of the evidence or assess the 09:52:19 4 quality of the evidence? 09:52:22 5 A. Some systematic reviews rate the 09:52:23 6 quality of evidence, and others do not. 09:52:31 7 Q. What is the value of a systematic 09:52:33 8 review compared to sort of a more traditional 09:52:43 9 narrative review of the literature? 09:52:49 10 A. By being systematic, it decreases 09:52:51 11 the likelihood of omitting relevant evidence in 09:52:59	1 Literature Review of Individuals' Perspectives on 09:55:36 2 Broad Consent and Date Sharing in the United 09:55:36 3 States, was marked for purposes of 09:55:36 4 identification.) 09:55:37 5 BY MR. FRAMPTON: 09:55:37 6 Q. I hand you what I am marking as 09:55:41 7 Defendants' Exhibit 5. 09:55:43 8 A. Oh, yes, sir, two. 09:55:45 9 Q. Okay. What I have marked as 09:55:58 10 Exhibit 5 is called a Systematic Literature 09:56:01 11 Review of Individuals' Perspectives on Broad 09:56:04
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11 (Pages 38 - 41)

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1 am marking as Defendants' Exhibit 6. That one 09:56:58	1 the hierarchy. Did I read that correctly? 09:59:58
2 is titled Systematic Review of Typologies Used 09:57:04	2 A. You did, sir. 10:00:01
3 to Characterize Clinical Ethics Consultations. 09:57:09	3 Q. And in this context, does EBM mean 10:00:01
4 And you will have to help me pronounce your 09:57:15	4 evidence-based medicine? 10:00:06
5 the lead author's last name. 09:57:18	5 A. Yes, sir. 10:00:06
6 A. deSante-Bertkau, sir. 09:57:22	6 Q. What do they mean by unsystematic 10:00:06
7 Q. Thank you, de-Sante-Bertkau. Is 09:57:23	7 observations of individual clinicians? 10:00:12
8 this the other systematic review you were 09:57:29	8 A. So based on the figure above, they 10:00:18
9 involved with, Dr. Antommaria? 09:57:30	9 describe that presumably as the clinical 10:00:21
10 A. Yes, sir. 09:57:31	10 experience of individual clinicians. 10:00:23
11 Q. Okay. And this one did not assess 09:57:31	11 Q. And they place that lowest on the 10:00:26
12 the quality of evidence; is that right? 09:57:33	12 rung of evidence that one might consider, 10:00:31
13 A. Because of the nature of the 09:57:35	13 correct? 10:00:35
14 systematic review and the types of articles 09:57:39	MR. CHEEK: Objection, form. 10:00:35
15 that we were reviewing, no, it did not assess 09:57:44	THE WITNESS: So it's just to say, 10:00:43
16 the quality of the evidence. 09:57:48	16 sir, that we are moving back and forth between a 10:00:44
17 Q. Okay, fair enough. You agree that 09:57:49	17 couple of different ways of understanding the 10:00:48
18 clinical practice guidelines should be based on 09:57:59	18 hierarchy of evidence and the way in which 10:00:50
19 systematic reviews of the evidence, correct? 09:58:02	19 systematic reviews may grade the evidence. And so 10:00:56
20 A. Ideally, clinical practice 09:58:04	20 this is a particular way of describing that 10:01:03
21 guidelines should be based on systematic 09:58:11	21 hierarchy which is different than the GRADE 10:01:06
22 reviews, yes, sir. 09:58:13	22 methodology. But within the way they are choosing 10:01:14
Q. Are you familiar with the Cochrane 09:58:14	23 to describe the hierarchy, yes, they are putting 10:01:16
24 Library? 09:58:16	24 the clinical experience as the lowest level of 10:01:19
25 A. I am, sir. 09:58:16	25 evidence. 10:01:21
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1 Q. Tell me what it is, please, to the 09:58:17 2 extent you know. 09:58:19 3 A. So the Cochrane Collaboration is a 09:58:21 4 group that does methodological research related 09:58:26	1 BY MR. FRAMPTON: 10:01:22 2 Q. Right. Below laboratory and 10:01:23 3 physiology research, correct? 10:01:31 4 A. Based on Figure 2-3, yes, sir. 10:01:32
1 Q. Tell me what it is, please, to the 09:58:17 2 extent you know. 09:58:19 3 A. So the Cochrane Collaboration is a 09:58:21 4 group that does methodological research related 09:58:26 5 to systematic reviews and supports the 09:58:33	1 BY MR. FRAMPTON: 10:01:22 2 Q. Right. Below laboratory and 10:01:23 3 physiology research, correct? 10:01:31 4 A. Based on Figure 2-3, yes, sir. 10:01:32 5 Q. Below observational studies, 10:01:37
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	Page 46	Page 4
1 m	nethodology for grading the quality of evidence 10:02:58	1 Q. Thank you. Third bullet says: 10:05:59
1	nd the strength of recommendations. 10:03:02	2 The optimal application of GRADE requires 10:06:02
3	Q. And is it a well-recognized method 10:03:04	3 systematic review of the impact of alternative 10:06:06
	within the community of experts that you 10:03:13	4 management strategies on all patient-important 10:06:09
	nhabit? 10:03:17	5 outcomes. Did I read that correct? 10:06:13
6	A. It is a well-recognized 10:03:18	6 A. You did, sir. 10:06:14
7 m	nethodology within medicine, sir. 10:03:22	7 Q. What to your understanding, 10:06:15
8	(Thereupon, Exhibit 7, GRADE 10:03:36	8 what is meant by patient-important outcomes? 10:06:25
9 gt	uidelines: 3. Rating the Quality of Evidence, was 10:03:36	9 A. So, again, I would have to review 10:06:29
	narked for purposes of identification.) 10:03:37	10 the article again in detail for the authors' 10:06:36
	SY MR. FRAMPTON: 10:03:37	11 definition of that term, but it would be the 10:06:40
12	Q. I show you what we will mark as 10:03:37	12 relevant outcomes of a medical intervention. 10:06:46
13 E	xhibit 7. Dr. Antommaria, what I am marking 10:03:39	Q. And that would include potential 10:06:49
14 as	s Exhibit 7 is an article from the Journal of 10:03:53	14 benefits of the intervention; is that correct? 10:06:54
15 C	Clinical Epidemiology called GRADE guidelines: 10:03:58	8 15 A. Yes, sir. 10:06:57
	. Rating the Quality of Evidence. I believe 10:04:00	16 Q. And would it also include 10:06:59
17 ye	ou are familiar with this one, correct? 10:04:03	17 potential risks of the intervention? 10:07:02
18	A. Yes, I am, sir. 10:04:05	18 A. Yes, sir. 10:07:04
19	Q. And just so we sort of set the 10:04:06	19 Q. In sort of lay terms, the outcomes 10:07:06
20 st	tage, the Journal of Clinical Epidemiology in 10:04:12	20 that would matter to a reasonable patient; is 10:07:13
21 20	011 published a whole series of GRADE 10:04:15	21 that fair? 10:07:16
22 gı	uidelines, correct? 10:04:18	22 MR. CHEEK: Objection, form. 10:07:17
23	A. So there is a series of 10:04:21	23 THE WITNESS: So as an ethicist, I 10:07:21
24 ap	pproximately I want to say 12 articles. To 10:04:24	24 might say the outcomes that would be relevant to 10:07:23
25 th	ne best of my memory, I don't recall if they 10:04:30	25 obtaining informed consent from a patient. 10:07:26
		D.
	Page 47	Page 4
1 w	Page 47 Vere all published in a single year or over 10:04:32	1 BY MR. FRAMPTON: 10:07:28
1 w 2 tii	were all published in a single year or over 10:04:32 me. 10:04:34	1 BY MR. FRAMPTON: 10:07:28 2 Q. Which would include potential 10:07:37
	rere all published in a single year or over 10:04:32 me. 10:04:34 Q. Right. 10:04:34	1 BY MR. FRAMPTON: 10:07:28 2 Q. Which would include potential 10:07:37 3 risks and benefits, correct? 10:07:39
2 tii 3 4	rere all published in a single year or over 10:04:32 me. 10:04:34 Q. Right. 10:04:34 A. But yes, there are a series of 10:04:35	1 BY MR. FRAMPTON: 10:07:28 2 Q. Which would include potential 10:07:37 3 risks and benefits, correct? 10:07:39 4 A. Yes, sir. 10:07:41
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1 at Table 2. 10:09:05	1 Q. And you mentioned strength of 10:11:43
2 A. I am there, sir. 10:09:09	2 recommendation earlier. You would agree that 10:11:50
3 Q. Thank you. Is Table 2 well, 10:09:10	3 the quality of evidence informs the strength of 10:11:52
4 it's got in it quality levels high, moderate, 10:09:15	4 recommendation, correct? 10:11:57
5 low, and very low, correct? 10:09:18	5 A. That is correct, but it is but one 10:11:57
6 A. Correct, sir. 10:09:19	6 factor that informs the direction of the 10:12:00
7 Q. And in the GRADE methodology, you 10:09:21	7 strength of recommendations. 10:12:04
8 assign one of those quality levels to the piece 10:09:24	8 Q. Got it. Let's go to Table 3. So 10:12:05
9 of evidence, correct? 10:09:29	9 if I understand, it should be is it on your 10:12:11
10 A. The body of evidence, sir. 10:09:30	10 next page or is it at the bottom of the page 10:12:14
Q. And have you, yourself, ever done 10:09:34	11 you are looking at? 10:12:17
12 that exercise? 10:09:45	A. It's at the bottom of the page, 10:12:18
13 A. No, sir, I have not. 10:09:46	13 sir. 10:12:19
Q. And so high quality evidence means 10:09:48	14 Q. That's what I thought. Basic 10:12:19
15 essentially that there is a high level of 10:09:55	15 flowchart if you are applying the GRADE 10:12:20
16 confidence that the true effect of the 10:10:01	16 methodology is that you start with an initial 10:12:23
17 intervention lies close to the estimate of the 10:10:06	17 quality rating based on the methodology in the 10:12:26
18 effect of the intervention, correct? 10:10:09	18 body of evidence, correct? 10:12:32
19 A. You read that correctly, sir. 10:10:11	19 A. Yes, sir. 10:12:34
Q. And sort of in lay terms, that 10:10:12	Q. High if you are dealing with 10:12:37
21 means if the evidence tells us that the effect 10:10:15	21 randomized controlled trials, low if you are 10:12:38
22 of an intervention will be X, we are pretty 10:10:21	22 dealing with observational studies, right? 10:12:41
23 confident that it's going to be close to that, 10:10:26	23 A. Correct, sir. 10:12:43
24 right? 10:10:28	Q. But then you may lower the quality 10:12:43
25 A. Correct, sir. 10:10:28	25 rating based on any of five factors, correct? 10:12:48
Page 51	Page 53
1 Q. Then explain in your own terms 10:10:29	1 A. Correct, sir. 10:12:51
2 what sort of a moderate quality level of 10:10:36	Q. And you also may raise the quality 10:12:56
3 evidence means. 10:10:38	3 rating based on one of three factors, one or 10:13:01
4 A. So, sir, my general understanding 10:10:43	4 more of three factors, right? 10:13:05
5 is that there are qualitative differences in 10:10:46	5 A. Correct, sir. 10:13:06
6 the degree of certainty between the various 10:10:50	6 Q. And then once you have sort of 10:13:08
7 quality levels. 10:10:54	7 done all of that, you assign a quality rating 10:13:11
8 Q. And low means that the true effect 10:10:55	8 based on where you landed, right? 10:13:13
9 may be substantially different from the 10:11:01	9 A. Yes, sir. 10:13:15
10 estimate, correct? 10:11:04	Q. And so because of this process of 10:13:17
11 A. You read that correctly, sir. 10:11:05	11 upgrading and downgrading, randomized control 10:13:21
12 Q. And so essentially, if the 10:11:07	12 trials will not necessarily end up providing 10:13:27
13 estimate is a moderately beneficial effect, the 10:11:10	
14 reality might be a profound beneficial effect, 10:11:16	
15 correct? 10:11:20	15 Q. And observational studies will not 10:13:34
A. Yes, sir, the variation might be 10:11:20	16 necessarily end up providing low quality 10:13:36
17 either higher or lower. 10:11:26	17 evidence, correct? 10:13:38
18 Q. Right. Or it might be a no 10:11:27	18 A. Correct, it is possible for 10:13:39
19 effect, right? 10:11:30	19 observational studies to produce high quality 10:13:41
20 A. Correct, sir. 10:11:31	20 evidence. 10:13:44
Q. And then low is then even 10:11:31	21 THE WITNESS: Can we take a 10:13:58
22 qualitatively worse than that. We believe that 10:11:30	
23 it's likely to be substantially different from 10:11:39	MR. FRAMPTON: Of course. Let's go 10:14:00
24 the estimate, correct? 10:11:42 25 A. Correct. 10:11:43	24 off the record real quick. 10:14:00 25 (Recess taken.) 10:14:02
	25 (Recess taken.) 10:14:02

14 (Pages 50 - 53)

D 54	P 5/
Page 54 1 (Thereupon, Exhibit 8, GRADE 10:14:02	Page 56 1 and randomized controlled trials in terms of 10:22:19
2 guidelines: 4. Rating the Quality of Evidence - 10:14:02	2 the ability to infer causation so that simply 10:22:22
3 Study Limitations (Risk of Bias), was marked for 10:14:02	3 having a comparison group might not be 10:22:27
	4 sufficient. 10:22:29
4 purposes of identification.) 10:19:40	
5 BY MR. FRAMPTON: 10:19:40	5 Q. Necessary, but not sufficient? 10:22:31
6 Q. We are back on the record. 10:19:40	6 A. Yes, necessary, but not sufficient 10:22:35
7 Dr. Antommaria, I am handing you what I am 10:19:42	7 to well, so I would have to I would have 10:22:43
8 marking as Defendants' Exhibit 8. Exhibit 8 is 10:19:43	8 to think about that, sir. 10:22:49
9 also from the Journal of Clinical Epidemiology. 10:20:00	9 Q. Well, still on 410 which we 10:22:50
10 It is titled GRADE guidelines for Rating the 10:20:03	10 flipped to, the top left-hand corner, first 10:22:55
11 Quality of Evidence - Study Limitations (Risk 10:20:03	11 full paragraph. Do you see where it says: To 10:23:00
12 of Bias). Are you familiar with this one, 10:20:09	12 make inferences regarding intervention effects, 10:23:02
13 Doctor? 10:20:11	13 case series must still refer to results in a 10:23:06
14 A. Yes, I am, sir. 10:20:11	14 comparison group? Did I read that correctly? 10:23:09
15 Q. All right. This is from that same 10:20:12	15 A. Yes, sir. 10:23:13
16 series of GRADE guidelines we just looked at; 10:20:14	Q. Do you agree with that statement? 10:23:14
17 is that right? 10:20:16	17 A. I think referring to a comparison 10:23:16
18 A. It's in the same series as the 10:20:17	18 group is one way to make such inferences, sir. 10:23:29
19 previous exhibit, sir. 10:20:20	Q. Well, the sentence uses the word 10:23:32
Q. Thank you. All right. Turn to 10:20:21	20 must, does it not? 10:23:39
21 page 409, please. 10:20:28	21 A. May I read the full paragraph, 10:23:42
22 A. One moment. I am on page 409, 10:20:33	22 sir? 10:23:59
23 sir. 10:20:38	23 Q. Of course. 10:24:00
Q. All right. Bottom right-hand of 10:20:38	A. So, sir, I would agree that there 10:24:59
25 the page, right above Table 2. 10:20:40	25 needs to be a reference to a comparison group 10:25:01
	5
Page 55	Page 57
Page 55 1 A. Okay. 10:20:45	1 but that those comparison groups might be the 10:25:03
Page 55 1 A. Okay. 10:20:45 2 Q. Do you see where it says: 10:20:45	1 but that those comparison groups might be the 10:25:03 2 general population or historic controls. 10:25:06
Page 55 1 A. Okay. 10:20:45 2 Q. Do you see where it says: 10:20:45 3 Ideally, observational studies will choose 10:20:47	1 but that those comparison groups might be the 10:25:03 2 general population or historic controls. 10:25:06 3 Q. And that generally should be 10:25:10
Page 55 1 A. Okay. 10:20:45 2 Q. Do you see where it says: 10:20:45 3 Ideally, observational studies will choose 10:20:47 4 contemporaneous comparison groups that, as far 10:20:50	1 but that those comparison groups might be the 10:25:03 2 general population or historic controls. 10:25:06 3 Q. And that generally should be 10:25:10 4 explicit in a study if they are referencing a 10:25:13
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Page 55 1 A. Okay. 10:20:45 2 Q. Do you see where it says: 10:20:45 3 Ideally, observational studies will choose 10:20:47 4 contemporaneous comparison groups that, as far 10:20:50 5 as possible, differ from intervention groups 10:20:54 6 only in the decision typically by patient or 10:20:59 7 clinician not to use the intervention. Did I 10:21:01 8 read that correctly? 10:21:03 9 A. You did, sir. 10:21:04	1 but that those comparison groups might be the 10:25:03 2 general population or historic controls. 10:25:06 3 Q. And that generally should be 10:25:10 4 explicit in a study if they are referencing a 10:25:13 5 historic control or a general population, 10:25:16 6 right? 10:25:18 7 A. So the study would be stronger if 10:25:18 8 those references were more explicit. 10:25:25 9 Q. Turn back to 409. Let's look at 10:25:27
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1 bias, so I am asking does that study limitation 10:26:42	1 to have information on cognitive behavioral 10:30:13
2 potentially create a risk of bias, as GRADE 10:26:45	2 therapy alone, correct? 10:30:14
3 uses that phrase? 10:26:47	3 A. You would have to have more 10:30:15
4 A. Again, I would have to review the 10:26:49	4 information about that patient population and 10:30:25
5 article in order to see. The table is not 10:26:59	5 their clinical course over time. 10:30:29
6 entitled Bias in Observational Studies. So I 10:27:01	6 Q. Would you need information about 10:30:30
7 am just uncertain as to why the authors have 10:27:05	7 the effect of cognitive behavioral therapy 10:30:34
8 chosen to title it in a different way. And so 10:27:09	8 alone? 10:30:36
9 I would just need in order to be certain, 10:27:12	9 A. Just so I answer your question 10:30:37
10 sir, I would need to review the article in 10:27:14	10 correctly, sir, can you repeat your question? 10:30:57
11 order to understand why they are shifting the 10:27:18	11 Q. Sure. Again, the example is if 10:30:59
12 terminology. That's my hesitance, sir. 10:27:21	12 you did a study of people with depression, you 10:31:02
Q. Can you tell me generally what 10:27:27	13 treated them with medication and therapy, found 10:31:05
14 risk of bias is within the GRADE methodology? 10:27:29	14 that over, say, 24 months they improved in some 10:31:10
15 A. So in reading the title, sir, and 10:27:33	15 form or fashion, you would not be able to 10:31:14
16 in reading the introduction, they are using 10:27:51	16 disentangle the effects of the medication 10:31:19
17 study limitations and risk of bias it appears 10:27:55	17 versus the therapy, would you? 10:31:21
18 synonymously. So the answer to your question 10:27:58	18 MR. CHEEK: Objection, form. 10:31:23
19 would be, yes, failure to adequately control 10:28:02	THE WITNESS: Again, it would depend 10:31:27
20 for confounding would be a potential source of 10:28:06	20 on what available evidence outside of that study 10:31:28
21 bias. 10:28:09	21 was available about that patient population. So 10:31:33
Q. And what are confounding factors? 10:28:10	22 if there was evidence that individuals who receive 10:31:39
23 What does that phrase mean? 10:28:14	23 cognitive behavioral therapy did not have 10:31:50
A. So a confounding factor would be a 10:28:16	24 sufficient remission in their symptoms, one might 10:31:54
25 unmeasured variable that would potentially 10:28:27	25 be able to then draw conclusions about the 10:31:57
Page 59	Page 61
	_
1 influence the outcome. 10:28:30	1 efficacy of the pharmacological intervention. 10:32:00
1 influence the outcome. 10:28:30 2 Q. So, for example, if you were doing 10:28:30	1 efficacy of the pharmacological intervention. 10:32:00 2 BY MR. FRAMPTON: 10:32:04
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1 form of evidence. There is a large difference 10:33:06	1 implicit controls is a reason a study might be 10:36:27
2 between making decisions in clinical practice in 10:33:12	2 legitimately downgraded in the GRADE 10:36:32
3 the real world and what ideally one might want as 10:33:16	3 methodology, correct? 10:36:36
4 we have read in these guidelines, the use of 10:33:20	4 A. May I, sir? 10:36:36
5 ideally in their language. 10:33:26	5 O. Uh-huh. 10:36:41
6 BY MR. FRAMPTON: 10:33:32	6 A. So I believe we made reference to 10:36:57
7 Q. My question is would you want 10:33:32	7 Exhibit 7, Table 3. I think that that would be 10:37:00
8 better evidence than clinician experience 10:33:34	8 considered under a risk of bias and the result 10:37:07
9 alone? 10:33:35	9 of potentially lowering the quality of 10:37:11
10 A. Clinician experience alone might 10:33:38	10 evidence. 10:37:13
11 in the clinical context be the evidence that 10:33:41	11 Q. Tell me what is meant in the 10:37:14
12 one had available and needed to make a clinical 10:33:45	12 literature, the methodological literature, by 10:37:23
13 judgment. 10:33:49	13 lost to follow up. 10:37:28
14 Q. So you would not necessarily want 10:33:50	14 A. So in a observational study, one 10:37:32
15 better evidence than that? 10:33:52	15 would develop a cohort of individuals and 10:37:36
16 A. One might always want higher 10:33:53	16 follow them over time. I think we discussed 10:37:40
17 quality evidence than lower quality evidence. 10:34:01	17 the Chen study. They developed a cohort of 10:37:47
18 But, unfortunately, that's not always available 10:34:04	18 individuals and followed them over a period of 10:37:50
19 to clinicians. 10:34:06	19 two years. And lost to follow up would be 10:37:53
20 Q. What do you understand the phrase 10:34:06	20 individuals for whom data is not available at 10:38:00
21 regression to the mean to mean? 10:34:18	21 the end of that period of time. 10:38:03
22 A. That if if a, say, cohort is 10:34:22	22 Q. And is that a study limitation, or 10:38:04
23 followed over time and they have a parameter 10:34:33	23 at least a potential study limitation? 10:38:12
24 which is significantly different from the 10:34:38	24 A. So depending on the degree to 10:38:15
25 general population, that over time that 10:34:42	25 which lost to follow up occurs, it can be a 10:38:21
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1 parameter might move more toward the value in 10:34:45	1 study limitation. 10:38:26
2 the general population. 10:34:49	2 Q. Right. And is that because we 10:38:28
Q. And that let me ask you, have 10:34:58	3 don't know if the group that was lost to follow 10:38:30
4 you ever looked at regression to the mean in 10:35:05	4 up would have the same results as the group 10:38:34
5 the context of depression or anxiety or any 10:35:09	5 that we are still able to study? 10:38:36
6 similar mental health condition? 10:35:14	6 A. Yes, sir. 10:38:39
7 A. I'm sorry, sir, I am not sure what 10:35:15	7 Q. And if those groups had vastly 10:38:41
8 you are asking. 10:35:21	8 different results, it would pretty seriously 10:38:52
9 Q. Have you ever looked at anything 10:35:21	9 bias the study, correct? 10:38:55
9 Q. Have you ever looked at anything 10:35:21 10 looking have you ever looked at a study 10:35:23	9 bias the study, correct? 10:38:55 10 A. Again, it depends on the degree of 10:38:56
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1 Q. Right. Larger than if, say, you 10:39:39	1 Q. I mean, that depends on the risk 10:43:03
2 lost half of your participants, correct? 10:39:42	2 profile of the intervention we are talking 10:43:05
3 A. Correct. 10:39:44	3 about, correct? 10:43:07
4 Q. What about too short of a follow 10:39:44	4 A. That's why short is a relative 10:43:09
5 up, how can that bias results? 10:39:55	5 term, sir. 10:43:12
6 A. So that's a difficult question to 10:39:56	6 Q. Are you familiar with the phrase, 10:43:13
7 answer because short is a relative term. Too 10:40:05	7 I have seen it in the literature, quasi RCT? 10:43:22
8 short relative to what, sir? 10:40:11	8 Have you ever seen that? 10:43:25
9 Q. To yeah, I know what you mean. 10:40:14	9 A. I may have, sir. 10:43:25
10 If, for example, you study a population for two 10:40:23	10 Q. Do you have any understanding of 10:43:29
11 years and there are significant effects at five 10:40:28	11 its meaning? 10:43:31
12 years, you would miss those in the two-year 10:40:33	12 A. I can only speculate based on 10:43:32
13 study, correct? 10:40:35	13 those words, sir. There are increasingly novel 10:43:38
14 A. That is correct, sir. 10:40:36	14 study designs that are utilized over time, but 10:43:49
15 Q. And so particularly in a medical 10:40:38	15 I don't know that I am not aware that quasi 10:43:53
16 intervention that people are going to take, 10:40:46	16 RCT is a specific study design, sir. 10:44:01
17 people are going to undergo for the rest of 10:40:49	17 Q. In RCTs, is incomplete blinding a 10:44:05
18 their life, you would want to make sure you are 10:40:51	18 risk of bias? 10:44:12
19 studying it long enough to capture those 10:40:53	19 A. Yes, sir. 10:44:13
20 effects, correct? 10:40:55	Q. That being said, there are plenty 10:44:17
A. You would want you would want 10:40:56	21 of medical interventions out there for which 10:44:23
22 to study it in order to do what, sir? 10:41:05	22 perfect blinding is not possible or practical, 10:44:26
Q. In order to understand what the 10:41:09	23 correct? 10:44:30
24 effects are going to be over the course of 10:41:11	24 A. So, again, plenty is a is an 10:44:30
25 someone's life. 10:41:13	25 indiscriminate term. There are some medical 10:44:43
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1 A. So I will give an example of 10:41:19 2 vaccines. So once you give somebody a vaccine, 10:41:22 3 you cannot unvaccinate them. The COVID 10:41:27 4 vaccines were studied for a finite period of 10:41:34 5 time prior to FDA approval. There is 10:41:38 6 post-marketing surveillance to look at what 10:41:43 7 happens in a larger population of individuals 10:41:47 8 and for a longer period of time. But in that 10:41:51 9 case, even though the vaccine is going to be 10:41:56 10 in some ways be with individuals for the rest 10:42:01 11 of their lives, it wasn't necessary to study 10:42:03 12 the vaccines for 40 years prior or 70 years 10:42:07 13 prior to their approval. 10:42:13 14 Q. If we discovered in that follow up 10:42:14 15 that, say, 10 years after vaccination people 10:42:23 16 started experiencing significant adverse 10:42:27 17 effects, that would then start that would 10:42:30 18 then have implications for clinical decision 10:42:33 19 making going forward, would it not? 10:42:38 20 A. It would, sir. So it is to say 10:42:39 21 that is a reason to continue ongoing studies 10:42:50	1 interventions for which masking is difficult, 10:44:44 2 particularly surgical interventions. 10:44:48 3 Q. Have you ever have you ever 10:44:51 4 reviewed the literature on what percentage of 10:44:57 5 RCTs are not blinded? 10:44:59 6 A. I am not aware of a specific 10:45:00 7 number, sir. 10:45:06 8 Q. And when you are looking at 10:45:07 9 something that may present a risk of bias in 10:45:12 10 the GRADE guidelines, there is no requirement 10:45:18 11 that you downgrade simply because you have 10:45:20 12 identified that there might be a risk of bias, 10:45:24 13 correct? 10:45:27 14 MR. CHEEK: Objection. 10:45:27 15 BY MR. FRAMPTON: 10:45:28 16 Q. It's a judgment call as to how 10:45:28 17 serious the risk is? 10:45:29 18 MR. CHEEK: Objection, form. 10:45:30 19 BY MR. FRAMPTON: 10:45:33 20 Q. Is that correct? 10:45:33 21 A. Can you repeat your question just 10:45:37

D 50	D 50
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1 judgment call on behalf of the assessor as to 10:45:50	1 particular articles within that body of 10:50:16
2 whether it is serious enough to warrant 10:45:53	2 literature. 10:50:18
3 downgrading, correct? 10:45:56	Q. And do you so you are not aware 10:50:18
4 A. Yeah. So the GRADE guidelines are 10:45:58	4 as we sit here today the extent to which they 10:50:23
5 not a computer program that you put data in and 10:46:01	5 have found or not found that blinding makes a 10:50:26
6 a that there are judgments made by 10:46:08	6 difference? 10:50:30
7 individuals who are rating the quality of the 10:46:10	7 A. So I am generally aware that a 10:50:31
8 evidence. 10:46:11	8 failure to adequately mask an intervention does 10:50:35
9 Q. So an unblinded RCT is not 10:46:12	9 have make a difference, and that is part of 10:50:40
10 automatically downgraded, correct? 10:46:16	10 the reason why in general the GRADE guidelines 10:50:43
11 A. So an unblinded RCT is likely to 10:46:21	11 would see that as a potential source of bias 10:50:47
12 have a significant risk of bias, which would be 10:46:37	12 and a potential reason to lower the quality of 10:50:49
13 downgrading it by 1 to 2 points, so I think it 10:46:42	13 the evidence. 10:50:53
14 would be highly likely to be downgraded. 10:46:49	Q. It's not something that you have 10:50:53
15 Q. Is that your testimony, every 10:46:52	15 looked at for purposes of this case? 10:50:57
16 unblinded RCT gets downgraded at least one 10:46:55	16 A. Not to this point in time, sir. 10:51:00
17 level? 10:46:59	17 (Thereupon, Exhibit 9, Impact of 10:51:08
18 A. So, sir, you have moved from the 10:47:00	18 Blinding on Estimated Treatment Effects in 10:51:08
19 recommendations of the GRADE guidelines to an 10:47:09	19 Randomised Clinical Trials: Meta-Epidemiological 10:51:08
20 empirical claim about how they are applied in 10:47:15	20 Study, was marked for purposes of identification.) 10:51:08
21 practice, and I don't again, I am not 10:47:18	21 BY MR. FRAMPTON: 10:51:08
22 familiar with a study that has looked at how 10:47:24	22 Q. I show you what I will mark as 10:51:08
23 they have a systematic review of how they 10:47:30	23 Exhibit 9. What I am marking as Exhibit 9 is 10:51:10
24 have been applied in practice. 10:47:32	24 titled Impact of Blinding on Estimated 10:51:23
Q. You would agree that the GRADE 10:47:33	25 Treatment Effects and Randomized Clinical 10:51:24
Page 71	Page 73
1 guidelines do not rigidly say you must 10:47:37	1 Trials: Meta-Epidemiological Study. The lead 10:51:26
2 downgrade an unblinded RCT? 10:47:40	2 author is Helene Moustgaard. Dr. Antommaria, 10:51:29
3 A. May I, sir? 10:47:45	3 is this a study that you are familiar with? 10:51:34
4 Q. Sure. 10:47:47	4 A. No, sir, it is not. 10:51:35
5 A. So, sir, I am on page 410 of 10:48:43	5 Q. Do you recognize any of the 10:51:37
6 Exhibit 8. And so it is every study 10:48:46	6 authors? 10:51:42
7 addressing a particular outcome will differ to 10:48:52	7 A. No, sir, I do not. 10:51:42
8 some degree in risk of bias. Review authors 10:48:55	8 Q. Do you recognize the journal? 10:51:49
9 and guideline developers must make an overall 10:48:57	9 A. Yes, sir; I do. 10:51:52
10 judgment considering all the evidence, whether 10:49:00	10 Q. What journal is it? 10:51:54
11 quality of evidence for an outcome warrants 10:49:04	11 A. It's published in the BMJ, sir. 10:51:55
12 rating down on the basis of study limitations. 10:49:07	12 Q. Is that a prestigious medical 10:51:58
So I take it that, again, this is 10:49:14	13 journal? 10:52:00
14 a general set of recommendations that are 10:49:18	14 A. May I look at the article, sir? 10:52:00
15 relied on judgment. So, no, it does not say 10:49:22	15 Q. Yeah. I am actually not going to 10:52:05
16 must, but it would not be clear to me that 10:49:32	16 ask you substantive questions about the 10:52:07
147.4 4.41.1 4.11.4 10.40.24	17 (1 0 (1 1 1 1 1 1 10 50 00
17 there are other things that do have the quality 10:49:34	17 article. So my question is simply whether the 10:52:08
18 of a must within the guidelines. 10:49:38	18 BMJ is a reputable article I mean, a 10:52:10
18 of a must within the guidelines. 10:49:38 19 Q. Have you ever reviewed any 10:49:42	18 BMJ is a reputable article I mean, a 10:52:10 19 reputable journal? 10:52:14
18 of a must within the guidelines. 10:49:38 19 Q. Have you ever reviewed any 10:49:42 20 literature or any meta-analyses studying 10:49:46	18 BMJ is a reputable article I mean, a 10:52:10 19 reputable journal? 10:52:14 20 A. And all I am distinguishing, sir, 10:52:15
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18 of a must within the guidelines. 10:49:38 19 Q. Have you ever reviewed any 10:49:42 20 literature or any meta-analyses studying 10:49:46 21 blinded versus nonblinded studies of the same 10:49:55 22 intervention to see if the effects are 10:49:59 23 different or see if the results are different? 10:50:02	18 BMJ is a reputable article I mean, a 10:52:10 19 reputable journal? 10:52:14 20 A. And all I am distinguishing, sir, 10:52:15 21 is there are a number of different journals 10:52:18 22 within the BMJ publishing group, and I am just 10:52:21 23 ascertaining that this article was published in 10:52:26
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19 (Pages 70 - 73)

Page 74	Page 76
1 Q. Sure. 10:52:32	1 Netherlands, right? 10:55:40
2 A journals. So yes, the BMJ is a 10:52:32	2 A. Yes, it is a particular clinic in 10:55:42
3 high-impact medical journal. 10:52:40	3 the Netherlands that has an area of expertise 10:55:44
4 Q. Okay. And, I mean, you don't need 10:52:41	4 in the treatment of individuals with gender 10:55:47
5 to look at this further. I am just curious, as 10:52:43	5 dysphoria, and they have published a series of 10:55:49
6 a general matter, what is a 10:52:45	6 studies based on the patients that they have 10:55:52
7 meta-epidemiological review? 10:52:47	7 seen over time. 10:55:56
8 A. Sir, I am not familiar with that 10:52:49	8 Q. And they have been seeing patients 10:55:57
9 as a specific term of art. 10:53:00	9 since, like, the '70s; is that correct? 10:56:00
10 Q. Okay, fair enough. 10:53:03	10 A. I am aware that they have been 10:56:02
11 (Thereupon, Exhibit 10, GRADE 10:53:09	11 seeing patients since at least the '90s. I 10:56:05
12 guidelines: 5. Rating the Quality of Evidence - 10:53:09	12 can't speak to how much earlier they have 10:56:10
13 Publication Bias, was marked for purposes of 10:53:09	13 seen when it was initially established, sir. 10:56:13
14 identification.) 10:53:11	Q. As you said, they have published a 10:56:15
15 BY MR. FRAMPTON: 10:53:11	15 series of observational studies based on the 10:56:17
Q. I show you what I am going to mark 10:53:20	16 data from their clinic, correct? 10:56:19
17 as Defendants' Exhibit 10, still Journal of 10:53:21 18 Clinical Epidemiology, GRADE Guidelines 5. Is 10:53:37	17 A. They have at least published a 10:56:2218 series of observational studies on patients in 10:56:24
19 this, Dr. Antommaria, an article in that same 10:53:40	19 their clinics. 10:56:27
20 Journal of Clinical Epidemiology series on the 10:53:42	20 Q. And those studies are important 10:56:28
21 GRADE guidelines that we were looking at 10:53:45	21 pieces of the literature in the treatment of 10:56:31
22 earlier? 10:53:45	22 gender dysphoria? 10:56:34
23 A. Yes, sir. 10:53:46	A. So, again, sir, you are speaking 10:56:35
Q. And are you familiar with this 10:53:48	24 in general about some unspecified group of 10:56:40
25 one? 10:53:49	25 studies. But yes, a Dutch group has published 10:56:45
Page 75	Page 77
1 A. I am familiar with this one, sir. 10:53:51	1 an important series of observational studies, 10:56:49
2 Q. And just tell me in general terms 10:53:56	2 particularly on adolescents with gender 10:56:54
3 what publication bias is. 10:54:01	3 dysphoria. 10:56:58
4 A. Not all studies that are performed 10:54:05	4 Q. And there is no way of knowing if 10:56:58
5 are published in the literature, and so 10:54:07	5 the studies that they have published represent 10:57:00
6 publication bias would be the difference 10:54:11	6 all or a fraction of the studies that they have 10:57:05
7 between what is published and the entire body 10:54:16	7 conducted, is there? 10:57:07
8 of potential evidence. 10:54:21	7 conducted, is there? 10:57:07 8 A. Presumably, there is a way of 10:57:08
8 of potential evidence. 10:54:21 9 Q. And the concern is that positive 10:54:22	7 conducted, is there? 10:57:07 8 A. Presumably, there is a way of 10:57:08 9 knowing. 10:57:11
8 of potential evidence. 10:54:21 9 Q. And the concern is that positive 10:54:22 10 results are more likely to be published than 10:54:35	7 conducted, is there? 10:57:07 8 A. Presumably, there is a way of 10:57:08 9 knowing. 10:57:11 10 Q. Are you able to know the answer to 10:57:12
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20 (Pages 74 - 77)

Page 78	Page 80
1 from the Journal of Clinical Epidemiology, 10:58:03	
2 correct? 10:58:06	2 evidence, given there is not a confidence 11:00:52
3 A. Correct, sir. 10:58:06	3 interval, sir. 11:00:56
4 Q. And you are familiar with it? 10:58:07 5 A. I am aware of it. I am less 10:58:08	4 BY MR. FRAMPTON: 11:00:57
	5 Q. Right. You would assume that 11:00:57
6 familiar with it than some other articles in 10:58:13	6 there is at least some risk of imprecision, 11:00:59
7 the series, sir. 10:58:16	7 correct? 11:01:00
8 Q. Are you familiar generally with 10:58:17	8 A. Yes, sir. 11:01:01
9 the concept of imprecision as it is used in the 10:58:19	9 Q. Okay. Let's flip back to that 11:01:01
10 GRADE methodology? 10:58:23	10 Chen article. What exhibit number is it? 11:01:11
11 A. Yes, sir. 10:58:24	11 Exhibit 3. I will help you find it. I am 11:01:13
Q. And imprecision is one of the 10:58:26	12 sorry, you are going to have a you have got 11:01:17
, , , , , , , , , , , , , , , , , , , ,	13 a bit of a stack going over there. 11:01:19
14 quality of evidence; is that right? 10:58:33	14 A. Okay. So I have Exhibit 3, sir. 11:01:25
A. May I refer to one of the other 10:58:34	15 Q. Thank you. Take a look through 11:01:27
16 articles, sir? 10:58:41	16 this. This was a study you are familiar with. 11:01:34
17 Q. Yeah. 10:58:42	17 There was not a control or comparison group in 11:01:36
A. So yes, sir; imprecision is one of 10:58:42	18 this study, was there? 11:01:38
19 the five categories for lowering the rating of 10:58:56	19 A. There was not an explicit control 11:01:41
20 the quality of evidence. 10:59:00	20 group, although the authors did some additional 11:01:48
Q. And sort of the basic idea is that 10:59:00	21 statistical analysis to potentially address 11:01:53
22 imprecision is when there is too much 10:59:06	22 issues of confounding. 11:01:56
23 variability around the estimated effect of the 10:59:09	Q. And what do you mean by that? 11:02:01
24 intervention to be confident in that estimate; 10:59:12	A. So in their methods, they say we 11:02:05
25 is that right? 10:59:16	25 also examined how initial levels and rates of 11:02:18
Page 79	Page 81
Page 79 1 A. I think that's a reasonable 10:59:17	Page 81 1 change in appearance congruence correlated with 11:02:21
_	
1 A. I think that's a reasonable 10:59:17	1 change in appearance congruence correlated with 11:02:21
1 A. I think that's a reasonable 10:59:17 2 summary, sir. 10:59:21	1 change in appearance congruence correlated with 11:02:21 2 those of each psychosocial outcome. So I am on 11:02:24
1 A. I think that's a reasonable 10:59:17 2 summary, sir. 10:59:21 3 Q. Look on page 1284 in the key 10:59:21	1 change in appearance congruence correlated with 11:02:21 2 those of each psychosocial outcome. So I am on 11:02:24 3 page 240 11:02:39
1 A. I think that's a reasonable 10:59:17 2 summary, sir. 10:59:21 3 Q. Look on page 1284 in the key 10:59:21 4 points box on the top left-hand corner. 10:59:28	1 change in appearance congruence correlated with 11:02:21 2 those of each psychosocial outcome. So I am on 11:02:24 3 page 240 11:02:39 4 Q. I see it. 11:02:39
1 A. I think that's a reasonable 10:59:17 2 summary, sir. 10:59:21 3 Q. Look on page 1284 in the key 10:59:21 4 points box on the top left-hand corner. 10:59:28 5 A. I am on 1284, sir. 10:59:38	1 change in appearance congruence correlated with 11:02:21 2 those of each psychosocial outcome. So I am on 11:02:24 3 page 240 11:02:39 4 Q. I see it. 11:02:39 5 A in the methods in the last 11:02:40
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21 (Pages 78 - 81)

Daga 92	Page 84
Page 82 1 around the mean trajectory of change. Some 11:03:31	1 different, yes, sir. 11:06:20
2 participants continued to report high levels of 11:03:35	2 Q. Would you agree that you can't 11:06:20
3 depression and anxiety and low positive affect 11:03:39	3 assume the effect of one on psychosocial 11:06:23
4 in life satisfaction, despite the use of GAH. 11:03:44	4 outcomes is the same as the effect of the 11:06:29
5 Did I read that correctly? 11:03:48	5 other? 11:06:31
6 A. You did, sir. 11:03:48	6 MR. CHEEK: Objection, form. 11:06:36
7 Q. Does that sentence suggest a 11:03:49	7 THE WITNESS: I think that it would 11:06:44
8 potential imprecision issue to you? 11:03:55	8 be a reasonable hypothesis that the effect on one 11:06:45
9 A. So I think that that sentence has 11:03:57	9 patient population is different than the other, 11:06:49
10 implications. I don't know, as you have said, 11:04:16	10 and I think that that was something that Chen and 11:06:54
11 given that a measure of imprecision requires a 11:04:22	11 colleagues investigated. 11:06:57
12 confidence interval that I would necessarily 11:04:26	12 BY MR. FRAMPTON: 11:06:58
13 frame it in the terms of imprecision, but I 11:04:29	Q. Right, and that was sort of part 11:06:58
14 think that that's a relevant finding of the 11:04:32	14 of my question. That is why they separately 11:07:02
15 study. 11:04:36	15 reported the effects on natal males and the 11:07:04
16 Q. All right, okay. Would a better 11:04:36	16 effects on natal females; is that correct? 11:07:09
17 term be heterogeneity in outcomes? 11:04:39	17 A. I wouldn't describe it as 11:07:11
A. I think that is an alternative way 11:04:43	18 separately. They reported the results of the 11:07:12
19 to describe it, sir. 11:04:48	19 cohort and then did subgroup analysis on those 11:07:16
Q. Let me just sort of back up for a 11:04:49	20 two populations. 11:07:22
21 second. The common hormonal intervention for 11:04:54	Q. And are you aware of studies 11:07:24
22 natal males transitioning to female is 11:05:02	22 finding an association between positive mental 11:07:27
23 Estradiol plus anti-androgens; is that correct? 11:05:06	23 health metrics and and sort of on one 11:07:31
A. Is estrogen frequently accompanied 11:05:11	24 natal sex and not the other? 11:07:41
25 by an anti-androgen, yes, sir. 11:05:16	25 A. So I believe, in fact, Chen, when 11:07:42
D 02	D 05
Page 83	Page 85
Page 83 1 Q. And the common hormonal 11:05:19	Page 85 1 they did their subgroup analysis, found that 11:07:54
	_
1 Q. And the common hormonal 11:05:19	1 they did their subgroup analysis, found that 11:07:54
1 Q. And the common hormonal 11:05:19 2 intervention for natal females transitioning to 11:05:23	1 they did their subgroup analysis, found that 11:07:54 2 the effects were different in each of the 11:07:58
1 Q. And the common hormonal 11:05:19 2 intervention for natal females transitioning to 11:05:23 3 male is testosterone; is that correct? 11:05:28	1 they did their subgroup analysis, found that 11:07:54 2 the effects were different in each of the 11:07:58 3 different subgroups. 11:08:03
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22 (Pages 82 - 85)

D 96	D 99
Page 86 1 Q. And are you aware of any studies 11:09:12	Page 88 1 know about her? 11:11:32
2 finding the association essentially going the 11:09:15	2 A. Dr. de Vries is a member of what's 11:11:33
3 other way, positive associations for natal 11:09:18	3 colloquially referred to as the Dutch group. 11:11:38
4 males but not natal females? 11:09:22	4 Q. She has been publishing on 11:11:41
5 A. So it is common for studies to do 11:09:24	5 transgender care for a very long time, right? 11:11:46
6 subgroup analysis on the different outcomes, 11:09:31	6 Well, for a few decades? 11:11:49
7 including the studies by the Dutch team. But I 11:09:35	7 A. For several decades, yes, sir. 11:11:51
8 don't recall off the top of my head whether 11:09:44	8 Q. Be more precise. Look on page 276 11:11:53
9 there has been any systematic review that 11:09:46	9 if you would, second full paragraph. Drs. de 11:12:17
10 summarizes those results of subgroup analysis 11:09:51	10 Vries and Hannema state: Although overall 11:12:17
11 across the variety of outcomes. 11:09:54	11 psychological functioning in the study 11:12:17
12 Q. Sure, all right. 11:09:56	12 participants improved, there was substantial 11:12:43
MR. FRAMPTON: Let's go to what I am 11:09:56	13 variation among participants; a considerable 11:12:43
14 going to mark as Exhibit maybe I am on 11:09:56	14 number still had depression, anxiety, or both 11:12:47
15 MR. WILKINSON: 12. 11:09:56	15 at 24 months, and two died by suicide. Did I 11:12:50
16 MR. FRAMPTON: 12. I was going to 11:09:56	16 read that correctly? 11:12:52
17 get it right. It's still early in the day. 11:09:59	17 A. You did, sir. 11:12:53
18 (Thereupon, Exhibit 12, Growing 11:09:59	Q. And is that just like we were 11:12:54
19 Evidence and Remaining Questions in Adolescent 11:09:59	19 speaking earlier commenting on the 11:12:57
20 Transgender Care, was marked for purposes of 11:09:59	20 heterogeneity in the data reported by Dr. Chen 11:13:00
21 identification.) 11:10:00	21 and her colleagues? 11:13:04
22 BY MR. FRAMPTON: 11:10:00	22 A. In part, sir, yes. 11:13:05
23 Q. All right. And what I am handing 11:10:15	23 Q. And in other parts? 11:13:07
24 you, Dr. Antommaria, is a piece titled Growing 11:10:16	A. They are not only commenting on 11:13:11
25 Evidence and Remaining Questions in Adolescent 11:10:20	25 the variability, but they state a considerable 11:13:15
Page 87	Page 89
1 Transgender Care. The lead author is Annelou 11:10:25	1 number still had depression and anxiety, sir. 11:13:19
2 de Vries, published in the New England Journal 11:10:31	2 Q. Sure. A little further down they 11:13:21
3 of Medicine, January 19th, 2023. Do you 11:10:32	3 say: However, other possible determinants of 11:13:30
4 it's a short piece, Dr. Antommaria. Do you 11:10:41	4 outcomes were not reported, particularly the 11:13:38
5 recognize it? 11:10:43	5 extent of mental health care provided 11:13:39
6 A. I do, sir. 11:10:43	6 throughout GAH treatment. Did I read that 11:13:42
7 Q. You do? You have read this 11:10:44	7 correctly? 11:13:47
8 before? 11:10:46	8 A. You did, sir. 11:13:47
9 A. I have, sir. 11:10:46	9 Q. And help me understand, is there 11:13:48
10 Q. And is this a sort of an 11:10:47	10 concern that the 11:13:52
11 editorial comment on the Chen paper that we 11:10:51	11 A. Sir, may I read the full paragraph 11:13:57
12 just looked at? 11:10:53	12 before you ask your question 11:13:59
13 A. As the heading states, it was 11:10:53	13 Q. Oh, of course. 11:14:01
14 published as an editorial. And the first 11:10:57	14 A so I am prepared to answer? 11:14:03
15 sentence of the article is this week in the 11:11:01	15 Q. Sure. 11:14:05
16 Journal, a much awaited primary report from 11:11:04	16 A. Thank you, sir. Please go ahead. 11:14:39
17 Chen, et al. And so yes, it's an editorial on 11:11:07 18 Chen's study. 11:11:11	17 Q. Sure. Is the concern that they 11:14:40 18 are expressing that the mental health care 11:14:44
18 Chen's study. 11:11:11 19 Q. And are you familiar with these 11:11:11	18 are expressing that the mental health care 11:14:44 19 provided throughout the GAH treatment could be 11:14:50
20 researchers, Drs. de Vries and Hannema? 11:11:15	20 affecting or confounding the results? 11:14:55
21 A. So I am most familiar with Dr. de 11:11:21	21 A. So the sentence that you didn't 11:14:59
22 Vries and less so with Dr if it's 11:11:23	22 read, sir, was that the correlation between 11:15:04
23 pronounced Hannema. 11:11:25	23 appearance congruence and various 11:15:06
24 Q. I am guessing, too. What's your 11:11:26	24 psychological-outcome variables suggests an 11:15:10
25 familiarity with Dr. de Vries? What do you 11:11:29	25 important mediating role of GAH in consequent 11:15:12
25 failiniarity with Dr. do vites: what do you 11.11.2)	25 Important mediating fore of Oriff in consequent 11.13.12

23 (Pages 86 - 89)

Page 00	Page 02
Page 90 1 body changes. So Chen and colleagues, as I had 11:15:17	Page 92 1 if that's all right. So, sir, it's not clear 11:18:31
2 mentioned previously, did attempt to control 11:15:23	2 to me from the paragraph what she means by 11:19:09
3 for confounders, and their analysis suggested 11:15:25	3 different care models. 11:19:12
4 that the GAH and consequent body changes are 11:15:29	4 (Thereupon, Exhibit 13, GRADE 11:19:12
5 responsible for the psychological outcomes. 11:15:36	5 guidelines: 7. Rating the Quality of Evidence - 11:19:12
6 But they do then subsequently go on to 11:15:41	6 Inconsistency, was marked for purposes of 11:19:12
7 highlight a concern about a lack of information 11:15:43	7 identification.) 11:19:38
8 about the mental health care that the 11:15:49	8 BY MR. FRAMPTON: 11:19:38
9 participants received and the way that that 11:15:53	9 Q. I show you what I am marking as 11:19:46
10 might influence the outcome. 11:15:56	10 Exhibit 13. The Journal of Clinical 11:19:48
11 Q. And the idea is that the mental 11:15:56	11 Epidemiology, GRADE Guidelines: 7. Rating the 11:20:07
12 health care provided could be confounding the 11:15:59	12 Quality of Evidence - Inconsistency. This 11:20:08
13 outcome, correct? 11:16:03	13 article, Exhibit 13, Dr. Antommaria, is from 11:20:12
14 A. That the mental health could be 11:16:03	14 that same Journal of Clinical Epidemiology 11:20:16
15 contributing to the outcome, yes, sir. 11:16:08	15 series on the GRADE guidelines, correct? 11:20:18
16 Q. Right, it could be responsible for 11:16:09	16 A. Correct, sir. 11:20:21
17 some of the improvement? 11:16:11	17 Q. And you are familiar with it? 11:20:22
18 A. Again, the investigators made 11:16:12	18 A. I am, sir. 11:20:23
19 efforts to identify whether the GAH was 11:16:19	19 Q. All right. Inconsistency is one 11:20:24
-	
20 responsible for the outcomes and provide 11:16:26 21 evidence that it was responsible for the 11:16:28	20 of the factors one might use to downgrade a 11:20:29
1	21 body of evidence under the GRADE guidelines; is 11:20:32 22 that right? 11:20:34
22 outcomes. But yes, they did not control for 11:16:30 23 the mental health care provided. 11:16:35	22 that right? 11:20:34 23 A. That is correct, sir. 11:20:34
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Q. And Dr. de Vries is raising that 11:16:38	Q. And the basic idea is that studies 11:20:35
25 as a potential confounder, right? 11:16:41	25 within the body of relevant evidence are 11:20:43
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1 A. Dr. De Vries is quote is 11:16:44	1 reporting meaningfully different outcomes, 11:20:46
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Page 94 1 MR. CHEEK: Objection, form. 11:22:06	Page 96 1 A. In general, sir. 11:24:15
THE WITNESS: If that were, in fact, 11:22:07	2 (Thereupon, Exhibit 15, The Cass 11:24:26
3 the case, sir. I don't know that that is an 11:22:09	3 Review, was marked for purposes of 11:24:26
4 accurate representation of the literature. 11:22:11	4 identification.) 11:24:26
5 BY MR. FRAMPTON: 11:22:13	5 BY MR. FRAMPTON: 11:24:26
6 Q. Right. But if it were, that would 11:22:14	6 Q. I am going to hand you what I am 11:24:42
7 raise inconsistency concerns? 11:22:16	7 marking as Exhibit 15, with apologies for the 11:24:43
8 A. If it were, sir, yes, it would. 11:22:18	8 size. You can blame Dr. Cass, not me. What I 11:24:54
9 Q. And have you done a sort of 11:22:21	9 am handing you, Dr. Antommaria, is titled the 11:25:03
10 systematic assessment of the literature to 11:22:23	10 Cass Review, Independent Review of Gender 11:25:06
11 evaluate whether that is, in fact, what the 11:22:25	11 Identity Services For Children and Young 11:25:12
12 literature shows? 11:22:28	12 People, Interim Report, February 2022. I 11:25:12
MR. CHEEK: Objection, form. 11:22:30	13 assume you are familiar with this document? 11:25:14
THE WITNESS: I have not conducted a 11:22:32	14 A. I am familiar with it, sir. 11:25:16
15 systematic review of the literature focusing on 11:22:34	15 Q. Okay. What do you know about 11:25:18
16 that question, sir. 11:22:38	16 Dr. Cass? 11:25:28
17 (Thereupon, Exhibit 14, GRADE 11:22:47	17 A. I generally know that Dr. Cass is 11:25:29
18 guidelines: 8. Rating the Quality of Evidence - 11:22:47	18 a British pediatrician. 11:25:33
19 Indirectness, was marked for purposes of 11:22:47	19 Q. Is it your understanding that she 11:25:35
20 identification.) 11:22:49	20 has been commissioned by the British government 11:25:50
21 BY MR. FRAMPTON: 11:22:49	21 to review the provision of care for children 11:25:56
22 Q. I hand you what I am marking as 11:22:56	22 and young people with gender dysphoria by the 11:26:01
23 Exhibit 14, still Journal of Clinical 11:22:58	23 National Health Service? 11:26:04
24 Epidemiology, GRADE Guidelines: 8. Rating the 11:23:03	A. I believe that she chairs a 11:26:05
25 Quality of Evidence - Indirectness. And, 11:23:05	25 review 11:26:13
Page 95	Page 97
1 Dr. Antommaria, Exhibit 14 is a article from 11:23:10	1 Q. Right. 11:26:15
2 the same GRADE guidelines series we have been 11:23:12	2 A that is reviewing that topic, 11:26:15
3 looking at in the Journal of Clinical 11:23:15	3 sir. 11:26:17
4 Epidemiology; is that right? 11:23:18	4 Q. Turn with me if you would well, 11:26:19
5 A. That is correct, sir. 11:23:19	5 actually, before we do that, do you in your 11:26:25
6 Q. And one of the factors that may 11:23:19	6 clinical practice initiate treatment for 11:26:29
7 warrant downgrading a body of evidence is 11:23:24	7 central precocious puberty? 11:26:32
8 indirectness, correct? 11:23:27	8 A. No, I do not, sir. 11:26:36
9 A. Yes, sir. 11:23:31	9 Q. Is that typically done by an 11:26:37
Q. And one form of indirectness is 11:23:31	10 endocrinologist? 11:26:39
11 differences between the population that you are 11:23:34	11 A. That would generally be done by an 11:26:40
12 interested in and the population that was 11:23:37	12 endocrinologist, sir. 11:26:43 13 Q. And do you in your clinical 11:26:44
13 studied in the body of evidence, correct? 11:23:42 14 A. I might say the population that 11:23:44	13 Q. And do you in your clinical 11:26:44 14 practice make the diagnosis of central 11:26:49
14 A. I might say the population that 11:23:44 15 you are treating as opposed to the you are 11:23:51	15 precocious puberty? 11:26:52
16 interested in. But yes, if you are considering 11:23:52	16 A. I might have reason to suspect a 11:26:55
17 treating a patient, you would be concerned 11:23:56	17 patient has central precocious puberty but 11:26:57
18 about differences between that patient's 11:23:59	18 would generally refer to another provider to 11:27:01
19 characteristics and the participants in the 11:24:01	19 confirm that diagnosis and initiate treatment, 11:27:05
20 study, sir. 11:24:03	20 sir. 11:27:07
21 Q. Right. The basic idea being that 11:24:05	21 Q. Got it. Would you generally refer 11:27:07
22 you want to be careful about assuming that the 11:24:07	22 to a pediatric endocrinologist? 11:27:09
23 effects of an intervention on one population 11:24:10	23 A. I would, sir. 11:27:11
24 will be the same as on a different population, 11:24:12	Q. Do you know, I am sure you do as a 11:27:12
25 correct? 11:24:15	25 pediatrician, sort of the typical normal ages 11:27:19

25 (Pages 94 - 97)

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1 for initiation of puberty in natal boys? Is 11:27:23	1 in children or young people with gender 11:29:39
2 there a typical age range? 11:27:28	2 dysphoria. Now did I read it correctly? 11:29:42
3 A. I believe that central precocious 11:27:30	3 A. I believe you did, sir. 11:29:45
4 puberty would be defined as beginning puberty 11:27:35	4 Q. Do you agree with the authors on 11:29:49
5 before 10 years of age in an individual. So I 11:27:39	5 that? 11:29:55
6 would have to look it's somewhere between 8 11:27:42	6 A. May I read the whole paragraph, 11:29:55 7 sir? 11:29:59
7 and 10 years of age in individuals who are 11:27:49	
8 assigned male at birth. 11:27:51	8 Q. Sure. 11:30:00
9 Q. So before 8 to 10 years or 11:27:52	9 A. All right. And then would you 11:31:04
10 A. Before 8 to 10 years would be 11:27:56	10 repeat your question, sir? 11:31:05
11 considered precocious. And I would have to 11:27:59	11 Q. Do you agree with Dr or the 11:31:07
12 look to refresh my memory about what specific 11:28:01	12 author's statement that I read into the record? 11:31:09
13 age it is, sir. 11:28:05	13 A. So, again, it's difficult to 11:31:11
14 Q. It would be slightly younger for 11:28:06 15 natal females? 11:28:09	14 interpret a sentence outside of its larger 11:31:20
	15 context. But I would agree that it is 11:31:23
16 A. Yes, for individuals who are 11:28:09	16 important to be open to the possibility that 11:31:26
17 assigned female at birth typically begin 11:28:11	17 outcomes and side effects in one population may 11:31:30
18 puberty earlier than individuals assigned male 11:28:15	18 be different than outcomes inside of a 11:31:35
	19 different population. 11:31:38
20 Q. Turn to page 63 of the Cass 11:28:19	Q. You would agree that you are 11:31:39
21 Review, if you would. Let's look at the second 11:28:23	21 generally not going to initiate puberty 11:31:42
22 sentence in 5.23 where she says, or the 11:28:46	22 suppression for central precocious puberty in a 11:31:46
23 reviewers say: Again, it is important that it 11:28:51	23 12-year-old natal female, correct? 11:31:51
24 is not assumed that outcomes for, and side 11:28:53	24 A. So, in general, a 12-year-old who 11:31:58
25 effects 11:28:56	25 is not would not fulfill the diagnostic 11:32:03
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1 A. Hang on. 11:28:56	1 criteria for central precocious puberty. 11:32:08
Q. I'm sorry, are we in the wrong 11:28:57	Q. You would potentially, depending 11:32:11
3 place? 11:28:59	3 on the assessment and all of that kind of 11:32:15
4 A. No, no, you are just not 11:28:59	4 stuff, initiate puberty suppression in a natal 11:32:17
5 starting at the beginning, and I needed to find 11:29:01	5 female at age 12 for gender dysphoria, correct? 11:32:22
6 where you were, sir. 11:29:02	6 A. And, again, would you repeat your 11:32:25
7 Q. That's fine. 11:29:03	7 question, sir? 11:32:38
8 A. Okay, please. 11:29:04	8 Q. Sure. Provided appropriate 11:32:40
9 Q. Again, it is important that it is 11:29:04	9 assessments and criteria were fulfilled, you 11:32:42
10 not assumed that outcomes for, and side effects 11:29:06	10 may initiate puberty suppression in a 11:32:45
10 not assumed that outcomes for, and side effects 11:29:06 11 in, children treated for central precocious 11:29:09	10 may initiate puberty suppression in a 11:32:45 11 12-year-old natal female for gender dysphoria, 11:32:49
10 not assumed that outcomes for, and side effects 11:29:06 11 in, children treated for central precocious 11:29:09 12 puberty will necessarily be the same in young 11:29:12	10 may initiate puberty suppression in a 11:32:45 11 12-year-old natal female for gender dysphoria, 11:32:49 12 correct? 11:32:51
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10 not assumed that outcomes for, and side effects 11:29:06 11 in, children treated for central precocious 11:29:09 12 puberty will necessarily be the same in young 11:29:12 13 people with gender dysphoria. Did I read that 11:29:15 14 correctly? 11:29:17 15 MR. CHEEK: I am going to object. 11:29:18 16 You did not read that correctly. 11:29:19 17 MR. FRAMPTON: Oh, I didn't? 11:29:20 18 MR. CHEEK: Correct. 11:29:21 19 MR. FRAMPTON: I am going to try it 11:29:22 20 again. 11:29:23 21 BY MR. FRAMPTON: 11:29:23 22 Q. Starting it over. Again, it is 11:29:24	10 may initiate puberty suppression in a 11:32:45 11 12-year-old natal female for gender dysphoria, 11:32:49 12 correct? 11:32:51 13 A. You may, sir. 11:32:51 14 Q. And you would in the child with 11:32:53 15 gender dysphoria, you would continue puberty 11:33:06 16 suppression until the child either decided to 11:33:08 17 discontinue or was ready to go to hormonal 11:33:11 18 interventions, correct? 11:33:17 19 A. You would not continue them 11:33:18 20 indefinitely and would need to at some point 11:33:21 21 reach a decision to discontinue them or to 11:33:24 22 begin gender affirming hormone therapy, yes. 11:33:27

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1 puberty, correct? 11:33:45	1 established, sir. But I don't think that 11:37:11
2 A. At an age that was consistent with 11:33:46	2 that's fundamentally different than some of the 11:37:12
3 statistical population norms, yes. 11:33:51	3 changes in the epidemiology of other 11:37:15
4 Q. And I believe what you have said 11:33:54	4 conditions, such as autism or Type 1 diabetes. 11:37:18
5 in other forums is that you would not you 11:33:59	5 Q. And we don't know why those are 11:37:21
6 would not initiate puberty suppression to treat 11:34:05 7 gender dysphoria in a child that had not at 11:34:09	6 increasing, either, do we? 11:37:32 7 A. We do not, sir. 11:37:33
7 gender dysphoria in a child that had not at 11:34:09 8 least reached Tanner Stage 2, correct? 11:34:11	7 A. We do not, sir. 11:37:33 8 Q. And that raises indirectness 11:37:34
9 A. So those are the recommendations 11:34:14	9 issues, does it not, if we have got an 11:37:36
10 or the clinical practice guidelines for the 11:34:18	10 increase, a new population, we don't really 11:37:37
11 field, and I wouldn't have reason to believe 11:34:19	11 understand why? 11:37:40
12 that I contradicted them in some other forum. 11:34:25	12 A. I don't believe, sir, that it 11:37:41
13 Q. Sure. And Tanner Stage 2 means 11:34:29	13 necessarily that an increasing population 11:37:44
14 the child has actually started puberty, 11:34:31	14 necessarily raises indirectness issues, sir. 11:37:47
15 correct? 11:34:32	15 Q. You think we can just assume that 11:37:51
16 A. Correct. 11:34:33	16 this increased population will have the same 11:37:55
17 Q. Let's stick with Dr. Cass for a 11:34:33	17 outcomes as the prior much smaller population? 11:37:58
18 minute. Move to page 32, if you would. 11:34:56	MR. CHEEK: Objection, form. 11:38:02
19 A. Yes, sir. 11:35:07	THE WITNESS: So it depends on the 11:38:04
20 Q. Looking at 3.10: In the last few 11:35:07	20 characteristics of the population, sir. If the 11:38:05
21 years, there has been a significant change in 11:35:20	21 population has the same demographic and clinical 11:38:09
22 the numbers and case-mix of children and young 11:35:22	22 characteristics but there is simply a larger 11:38:14
23 people being referred to GIDS. From a baseline 11:35:24	23 number of them, there would be no indirectness 11:38:16
24 of approximately 50 referrals per annum in 11:35:28	24 concerns. 11:38:19
25 2009, there was a steep increase from 2014-15, 11:35:32	25 BY MR. FRAMPTON: 11:38:19
Page 103	Page 105
Page 103 1 and it all and at the time of the CQC 11:35:37	Page 105 1 Q. You don't think that the etiology 11:38:20
1 and it all and at the time of the CQC 11:35:37	1 Q. You don't think that the etiology 11:38:20
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1 mean what, sir? 11:39:33	1 one-third of children and young people referred to 11:42:05
2 BY MR. FRAMPTON: 11:39:33	2 GIDS have autism or other types of neurodiversity. 11:42:08
3 Q. Well, let's see what Dr let's 11:39:35	3 I don't believe that at least in this sentence she 11:42:12
4 just read what Dr. Cass said about that, still 11:39:37	4 is representing that that proportion has changed 11:42:14
5 on page 32. 11:39:39	5 over time. 11:42:16
6 A. I am on 32, sir. 11:39:48	6 BY MR. FRAMPTON: 11:42:17
7 Q. All right, 3.11. This increase in 11:39:50	7 Q. Does that sound about right for 11:42:21
8 referrals has been accompanied by a change in 11:39:52	8 the US, about a third? 11:42:22
9 the case-mix from predominantly 11:39:54	9 A. I apologize 11:42:24
10 birth-registered males presenting with gender 11:39:57	10 Q. Or do you know? 11:42:31
11 incongruence from an early age, to 11:40:00	11 A I do not know the specific 11:42:32
12 predominantly birth-registered females 11:40:02	12 numbers. 11:42:34
13 presenting with later onset of reported gender 11:40:04	13 Q. Look at page 19. 11:42:34
14 incongruence in the early teen years. In 11:40:07	14 A. Sir, recognizing this is a very 11:42:48
15 addition, approximately one-third of children 11:40:10	15 big exhibit, when you reach a point in your 11:42:50
16 and young people referred to GIDS have autism 11:40:11	16 line of questioning, can we take another break? 11:42:54
17 or other types of neurodiversity. There is 11:40:16	17 Q. Yes, we will be there very, very 11:42:57
18 also an over-representation percentage wise 11:40:19	18 shortly, I promise. 11:43:00
19 compared to the national percentage of looked 11:40:20	19 A. Thank you. 11:43:01
20 after children. Did I read that paragraph 11:40:21	20 Q. All right, 1.28. Much of the 11:43:01
21 correctly? 11:40:23	21 existing literature about natural history and 11:43:13
22 A. You did, sir. 11:40:23	22 treatment outcomes for gender dysphoria in 11:43:15
23 Q. Does this accurately reflect your 11:40:25	23 childhood is based on a case-mix of 11:43:17
24 understanding of the US experience as well in 11:40:32	24 predominantly birth-registered males presenting 11:43:19
25 terms of the changing population? 11:40:36	25 in early childhood. There is much less data on 11:43:22
	<u> </u>
D 107	D 100
Page 107	Page 109
1 A. So I think that looked after 11:40:39	1 the more recent case-mix of predominantly 11:43:25
1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46	1 the more recent case-mix of predominantly 11:43:25 2 birth-registered females presenting in early 11:43:27
1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49	1 the more recent case-mix of predominantly 11:43:25 2 birth-registered females presenting in early 11:43:27 3 teens, particularly in relation to treatment 11:43:29
1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:49	1 the more recent case-mix of predominantly 11:43:25 2 birth-registered females presenting in early 11:43:27 3 teens, particularly in relation to treatment 11:43:29 4 and outcomes. Did I read that correctly? 11:43:31
1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:49 5 A what it's referring to. 11:40:51	1 the more recent case-mix of predominantly 11:43:25 2 birth-registered females presenting in early 11:43:27 3 teens, particularly in relation to treatment 11:43:29 4 and outcomes. Did I read that correctly? 11:43:31 5 A. You did, sir. 11:43:33
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1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:49 5 A what it's referring to. 11:40:51 6 Q. Put that one aside, rest of the 11:40:52 7 paragraph. Well, let's just do them in turn. 11:40:53	1 the more recent case-mix of predominantly 11:43:25 2 birth-registered females presenting in early 11:43:27 3 teens, particularly in relation to treatment 11:43:29 4 and outcomes. Did I read that correctly? 11:43:31 5 A. You did, sir. 11:43:33 6 Q. Do you agree with her statement 11:43:34 7 about the state of the statements with regard 11:43:40
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1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:51 6 Q. Put that one aside, rest of the 11:40:52 7 paragraph. Well, let's just do them in turn. 11:40:53 8 A. Okay. 11:40:58 9 Q. Predominantly birth-registered 11:40:58	1 the more recent case-mix of predominantly 11:43:25 2 birth-registered females presenting in early 11:43:27 3 teens, particularly in relation to treatment 11:43:29 4 and outcomes. Did I read that correctly? 11:43:31 5 A. You did, sir. 11:43:33 6 Q. Do you agree with her statement 11:43:34 7 about the state of the statements with regard 11:43:40 8 to the state of the literature? 11:43:42 9 A. So if I recall the Dutch studies 11:43:49
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1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:51 6 Q. Put that one aside, rest of the 11:40:52 7 paragraph. Well, let's just do them in turn. 11:40:53 8 A. Okay. 11:40:58 9 Q. Predominantly birth-registered 11:40:58 10 males presenting with gender incongruence from 11:41:00 11 an early age to predominantly birth-registered 11:41:02 12 females presenting with later onset of reported 11:41:06 13 gender incongruence in early teen years. Is 11:41:08 14 that consistent with the US experience? 11:41:12 15 A. So my sense is that there is some 11:41:14 16 heterogenous data about those potential changes 11:41:27 17 but that some individuals have reported similar 11:41:34 18 changes in the United States. 11:41:38 19 Q. And what about the increase in 11:41:38 20 children with autism or other types of 11:41:50 21 neurodiversity? 11:41:53	1 the more recent case-mix of predominantly 2 birth-registered females presenting in early 3 teens, particularly in relation to treatment 4 11:43:29 4 and outcomes. Did I read that correctly? 5
1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:51 6 Q. Put that one aside, rest of the 11:40:52 7 paragraph. Well, let's just do them in turn. 11:40:53 8 A. Okay. 11:40:58 9 Q. Predominantly birth-registered 11:40:58 10 males presenting with gender incongruence from 11:41:00 11 an early age to predominantly birth-registered 11:41:02 12 females presenting with later onset of reported 11:41:06 13 gender incongruence in early teen years. Is 11:41:08 14 that consistent with the US experience? 11:41:12 15 A. So my sense is that there is some 11:41:14 16 heterogenous data about those potential changes 11:41:27 17 but that some individuals have reported similar 11:41:34 18 changes in the United States. 11:41:38 19 Q. And what about the increase in 11:41:38 20 children with autism or other types of 11:41:50 21 neurodiversity? 11:41:53 22 MR. CHEEK: Objection, form. 11:41:54	the more recent case-mix of predominantly birth-registered females presenting in early teens, particularly in relation to treatment teens, particularly in relation to teens, particularly teen
1 A. So I think that looked after 11:40:39 2 children is likely to be a British 11:40:46 3 colloquialism that I am not clear 11:40:49 4 Q. Put that one aside. 11:40:49 5 A what it's referring to. 11:40:51 6 Q. Put that one aside, rest of the 11:40:52 7 paragraph. Well, let's just do them in turn. 11:40:53 8 A. Okay. 11:40:58 9 Q. Predominantly birth-registered 11:40:58 10 males presenting with gender incongruence from 11:41:00 11 an early age to predominantly birth-registered 11:41:02 12 females presenting with later onset of reported 11:41:06 13 gender incongruence in early teen years. Is 11:41:08 14 that consistent with the US experience? 11:41:12 15 A. So my sense is that there is some 11:41:14 16 heterogenous data about those potential changes 11:41:27 17 but that some individuals have reported similar 11:41:34 18 changes in the United States. 11:41:38 19 Q. And what about the increase in 11:41:38 20 children with autism or other types of 11:41:50 21 neurodiversity? 11:41:53 22 MR. CHEEK: Objection, form. 11:41:54 23 THE WITNESS: So I don't read 11:41:56	the more recent case-mix of predominantly birth-registered females presenting in early teens, particularly in relation to treatment teens, particularly in relation to teens, particularly

28 (Pages 106 - 109)

P 110	D 112
Page 110 1 But, for example, I don't believe that there 11:45:04	Page 112 1 confidence in effect estimates, or quality of 11:54:48
2 were only 5 percent of participants were female 11:45:05	2 evidence, to each outcome that you are 11:54:52
3 assigned at birth. 11:45:09	3 studying, correct? 11:54:53
4 Q. So you just you disagree with 11:45:09	4 A. Yes, sir. 11:54:54
5 Dr with this review when it says the 11:45:12	5 Q. And that presumably should be the 11:54:56
6 case-mix was predominantly birth-registered 11:45:14	6 patient important outcomes that we looked at 11:55:00
7 males and that there is much less data on the 11:45:17	7 before, right? 11:55:03
8 more recent case-mix? 11:45:20	8 A. Yes, sir. 11:55:03
9 A. So all I am so when you when 11:45:21	9 Q. And to do that, you simultaneously 11:55:05
10 I read this, sir, Dr the authors of this 11:45:31	10 consider all eight sort of upgrade and 11:55:13
11 report are contrasting both sex assigned at 11:45:44	11 downgrade domains, correct? 11:55:15
12 birth and age of presentation, and I would put 11:45:53	12 A. Yes, sir. 11:55:17
13 more emphasis than the authors of the report on 11:46:01	Q. And one way at least of presenting 11:55:17
14 the age of presentation than I would on the sex 11:46:06	14 the application of the GRADE methodology is an 11:55:24
15 assigned at birth. 11:46:09	15 evidence profile, like we see in Table 1 on the 11:55:28
Q. Are you aware of any study as to 11:46:10	16 next page, correct? 11:55:32
17 whether responses and long-term outcomes from 11:46:16	17 A. Yes, sir. 11:55:32
18 puberty blockers or cross-sex hormones are 11:46:19	Q. And this sort of presents the 11:55:55
19 different for children on the autistic 11:46:23	19 number and type of studies the authors 11:55:58
20 spectrum, aware of any studies that have looked 11:46:26	20 considered, correct? 11:56:01
21 at that? 11:46:29	21 A. That the individual performing the 11:56:01
A. I cannot recall a study that 11:46:29	22 evaluation considered, yes. 11:56:09
23 does that focused exclusively on that 11:46:32	23 Q. Yes, I'm sorry. I will say 11:56:10
24 population or did subgroup analysis on that 11:46:35	24 evaluator from here forward so we are saying 11:56:12
25 population. 11:46:38	25 the same thing. And it gives you the 11:56:14
Page 111	Page 113
Page 111 MR. FRAMPTON: All right. Then we 11:46:39	1 evaluator's conclusion as to each of the 11:56:17
_	1 evaluator's conclusion as to each of the 11:56:17 2 upgrade or downgrade domains, right, or at 11:56:20
1 MR. FRAMPTON: All right. Then we 11:46:39	1 evaluator's conclusion as to each of the 11:56:17 2 upgrade or downgrade domains, right, or at 11:56:20 3 least as to the downgrade domains? 11:56:29
1 MR. FRAMPTON: All right. Then we 11:46:39 2 will take a break. 11:46:39 3 THE WITNESS: Thank you. 11:46:40 4 (Recess taken.) 11:46:41	1 evaluator's conclusion as to each of the 11:56:17 2 upgrade or downgrade domains, right, or at 11:56:20 3 least as to the downgrade domains? 11:56:29 4 A. Yes, I only see five of the eight 11:56:30
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1 MR. FRAMPTON: All right. Then we 11:46:39 2 will take a break. 11:46:39 3 THE WITNESS: Thank you. 11:46:40 4 (Recess taken.) 11:46:41 5 MR. FRAMPTON: Let's go back on. 11:53:52 6 (Thereupon, Exhibit 16, GRADE 11:53:54 7 guidelines: 11. Making An Overall Rating of 11:53:54 8 Confidence in Effect Estimates For a Single 11:53:54 9 Outcome and All Outcomes, was marked for purposes 11:53:54	1 evaluator's conclusion as to each of the 11:56:17 2 upgrade or downgrade domains, right, or at 11:56:20 3 least as to the downgrade domains? 11:56:29 4 A. Yes, I only see five of the eight 11:56:30 5 listed in the table, sir. 11:56:33 6 Q. And it's the five downgrade 11:56:34 7 domains that you see, right? 11:56:35 8 A. Yes, sir. 11:56:36 9 Q. Okay. And then they have given 11:56:38
1 MR. FRAMPTON: All right. Then we 11:46:39 2 will take a break. 11:46:39 3 THE WITNESS: Thank you. 11:46:40 4 (Recess taken.) 11:46:41 5 MR. FRAMPTON: Let's go back on. 11:53:52 6 (Thereupon, Exhibit 16, GRADE 11:53:54 7 guidelines: 11. Making An Overall Rating of 11:53:54 8 Confidence in Effect Estimates For a Single 11:53:54 9 Outcome and All Outcomes, was marked for purposes 11:53:54 10 of identification.) 11:53:55	1 evaluator's conclusion as to each of the 11:56:17 2 upgrade or downgrade domains, right, or at 11:56:20 3 least as to the downgrade domains? 11:56:29 4 A. Yes, I only see five of the eight 11:56:30 5 listed in the table, sir. 11:56:33 6 Q. And it's the five downgrade 11:56:34 7 domains that you see, right? 11:56:35 8 A. Yes, sir. 11:56:36 9 Q. Okay. And then they have given 11:56:38 10 you at least some explanation when they 11:56:41
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1 MR. FRAMPTON: All right. Then we 11:46:39 2 will take a break. 11:46:39 3 THE WITNESS: Thank you. 11:46:40 4 (Recess taken.) 11:46:41 5 MR. FRAMPTON: Let's go back on. 11:53:52 6 (Thereupon, Exhibit 16, GRADE 11:53:54 7 guidelines: 11. Making An Overall Rating of 11:53:54 8 Confidence in Effect Estimates For a Single 11:53:54 9 Outcome and All Outcomes, was marked for purposes 11:53:55 10 of identification.) 11:53:55 11 BY MR. FRAMPTON: 11:53:55 12 Q. Dr. Antommaria, I am going to show 11:53:55	1 evaluator's conclusion as to each of the 11:56:17 2 upgrade or downgrade domains, right, or at 11:56:20 3 least as to the downgrade domains? 11:56:29 4 A. Yes, I only see five of the eight 11:56:30 5 listed in the table, sir. 11:56:33 6 Q. And it's the five downgrade 11:56:34 7 domains that you see, right? 11:56:35 8 A. Yes, sir. 11:56:36 9 Q. Okay. And then they have given 11:56:38 10 you at least some explanation when they 11:56:41 11 downgraded as to why? 11:56:43 12 A. So there is comments under each of 11:56:48
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1 categories, treating each domain for rating 11:57:52	1 Clinical Practice Guideline. Dr. Antommaria, 12:00:38
2 confidence up or down as a discrete category 11:57:55	2 you are familiar with this document, correct? 12:00:40
3 enhances transparency. Indeed, the example 11:57:58	3 A. I am. 12:00:42
4 highlights once again that the great merit of 11:58:02	4 Q. And this is a set of clinical 12:00:44
5 GRADE is not that it necessarily ensures 11:58:05	5 practice guidelines published by the Endocrine 12:00:45
6 reproducible judgments, observers will 11:58:07	6 Society in 2017 for treating people with gender 12:00:49
7 inevitably differ in close-call situations when 11:58:11	7 dysphoria or gender incongruence, correct? 12:00:53
8 rating up or down for individual domains or for 11:58:14	8 A. It is a clinical practice 12:00:58
9 the overall confidence per outcome, but that it 11:58:16	9 guideline, yes. 12:01:00
10 achieves explicit and transparent judgment. 11:58:19	10 Q. I'm sorry if I used a different 12:01:00
11 Did I read that correctly? 11:58:22	11 article. It is a clinical practice guideline 12:01:02
11 Did Flead that coffectly? 11:38:22 12 A. You did, sir. 11:58:22	12 published by the Endocrine Society, correct? 12:01:05
13 Q. Do you agree that one of the 11:58:23	13 A. Correct. 12:01:08
14 one of the great merits of the GRADE system is 11:58:28	
15 that done correctly, there should be a high 11:58:31	15 clinical practice guideline, is it not? 12:01:10
16 level of transparency as to why the evaluator 11:58:34	16 A. It's their most recent clinical 12:01:12
17 rated the evidence quality the way that he or 11:58:39	17 practice guideline on this particular topic, 12:01:13
18 she did? 11:58:42	18 yes. 12:01:16
19 A. Yes, one of the benefits of the 11:58:44	19 Q. Yes, okay. And the evaluators 12:01:16
20 GRADE methodology is its emphasis on 11:58:49	20 used claim to have used the GRADE 12:01:23
21 transparency. 11:58:53	21 methodology, correct? 12:01:29
Q. So that even if you don't agree 11:58:54	A. Yes, the authors of this guideline 12:01:29
23 with the evaluator, you at least know why a 11:58:55	23 report that they used the GRADE methodology. 12:01:33
24 particular quality rating was assigned, right? 11:58:58	Q. And you have not conducted your 12:01:34
25 A. That would be one of the 11:59:01	25 own systematic review of this evidence, 12:01:39
D 445	
Page 115	Page 117
Page 115 1 components of the transparency, sir. 11:59:04	Page 117 1 correct? 12:01:42
1 components of the transparency, sir. 11:59:04	1 correct? 12:01:42
1 components of the transparency, sir. 11:59:04 2 Q. And you know what studies went 11:59:06	1 correct? 12:01:42 2 A. No, sir, I have not. 12:01:42 3 Q. You have not conducted your own 12:01:44 4 sort of application of the GRADE methodology to 12:01:47
1 components of the transparency, sir. 11:59:04 2 Q. And you know what studies went 11:59:06 3 into that conclusion, right? 11:59:08	1 correct? 12:01:42 2 A. No, sir, I have not. 12:01:42 3 Q. You have not conducted your own 12:01:44
1 components of the transparency, sir. 11:59:04 2 Q. And you know what studies went 11:59:06 3 into that conclusion, right? 11:59:08 4 A. Yes, that is part of a systematic 11:59:10	1 correct? 12:01:42 2 A. No, sir, I have not. 12:01:42 3 Q. You have not conducted your own 12:01:44 4 sort of application of the GRADE methodology to 12:01:47
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	Page 118	Page 120
1	guideline, sir. 12:02:45	1 the values and preferences as part of being 12:05:55
2	Q. Okay. And what were they on? 12:02:45	2 transparent about their methods. 12:06:00
3	A. So one was on the effect of sex 12:02:47	3 Q. They do not give us how they 12:06:06
	steroid use in transgender individuals on 12:02:55	4 evaluated any of the downgrade domains for this 12:06:14
- 1	lipids and cardiovascular outcomes, and the 12:02:58	5 body of evidence, do they? 12:06:19
- 1	second was on the effect of sex steroids on 12:03:03	6 A. So they do not provide a table 12:06:20
	bone health in transgender individuals. 12:03:08	7 similar to the one that we just reviewed, sir. 12:06:28
8	Q. They did not commission any 12:03:12	8 Q. Nor do they explain in the 12:06:31
9	systematic reviews on psychosocial outcomes, 12:03:14	9 evidence section how they applied any of the 12:06:34
	did they? 12:03:18	10 downgrade or upgrade factors, do they? 12:06:39
11	A. They did not, sir. 12:03:18	11 A. So, again, so I would have to read 12:06:41
12	Q. Or effects on brain development? 12:03:23	12 the evidence statement related to each of the 12:06:47
13	A. They did not, sir. 12:03:28	13 individual recommendations to know whether they 12:06:50
14	Q. Fertility? 12:03:33	14 mention any of those factors or not. 12:06:52
15	A. So, again, I think that so I 12:03:34	15 Q. I am asking about 2.4. 12:06:54
16	would say that I think that their commissioning 12:03:40	16 A. Then please let me read the 12:06:57
17	of systematic reviews would be unlikely that 12:03:43	17 evidence statement. 12:07:00
18	they would be able to commission systematic 12:03:45	18 Q. Sure. 12:07:00
19	reviews on all of the patient relevant outcomes 12:03:48	19 A. So, sir, on page 3885, the end of 12:09:31
20	because of the way in which professional 12:03:52	20 the first incomplete paragraph, the authors 12:09:38
21	societies are resourced and that the systematic 12:03:53	21 state: However, only minimal data support 12:09:42
22	reviews that were commissioned for this 12:04:01	22 earlier use of gender-affirming hormones in 12:09:45
23	clinical practice guideline are comparable to 12:04:03	23 transgender adolescents currently exist. So I 12:09:48
	the type the number of systematic reviews 12:04:06	24 take it that that is a reference to 12:09:54
25	commissioned for other clinical practice 12:04:08	25 indirectness, which would be potentially a 12:09:58
	Page 119	
	guidelines. 12:04:10	1 reason for downgrading the evidence. 12:10:01
2	Q. There is no systematic review on 12:04:10	2 Q. We don't know whether they did or 12:10:03
	the efficacy of these interventions in 12:04:18	3 did not downgrade the evidence based on 12:10:06
	improving mental health, is there? 12:04:21	4 indirectness, do we? 12:10:09
5	A. There is not, sir. 12:04:23	5 A. They do not explicitly state that 12:10:10
6	Q. Let's go to page 3883. 12:04:24	6 the reason why they graded the evidence to be 12:10:21
7	A. Yes, sir. 12:04:37	7 of low quality was as a result of indirectness, 12:10:24
8	Q. All right. 2.4 is a strong 12:04:37 recommendation for the use of sex hormone 12:04:50	8 no. 12:10:26 9 Q. Well, all of the studies are 12:10:26
- 1	treatment based on what they have assessed as 12:04:55	10 observational, right, or do we know? 12:10:30
- 1	low quality evidence; is that am I reading 12:04:59	11 A. They would in general be 12:10:35
	that correctly? 12:05:03	12:10:37
13	A. Yes, that's what the No. 1 and the 12:05:04	13 Q. Which would start us at low 12:10:38
- 1	two circles with plus signs in them indicate. 12:05:08	14 quality, right? 12:10:40
15	Q. Okay. Turn to the next page, if 12:05:10	15 A. Yes, sir. 12:10:41
	you would. And I just structurally in this 12:05:15	Q. So we don't know if it's just that 12:10:41
	guideline, they follow that recommendation with 12:05:19	17 they left them at low quality or if they 12:10:47
- 1	the evidence, the values and preferences, and 12:05:25	18 upgraded and downgraded, or we don't know how 12:10:50
- 1	the remarks on that recommendation, correct? 12:05:29	19 they planted it low, do we? 12:10:54
20	A. Yes, sir. You have reviewed 12:05:31	20 A. No, we do not, sir. 12:10:56
21	extensively the components of the GRADE 12:05:40	21 Q. And it doesn't tell us how many 12:10:58
22	guidelines relative to the rating of quality of 12:05:44	22 studies went into this quality assessment, does 12:11:05
23	the evidence. There are a number of papers 12:05:46	23 it? 12:11:09
1	about making recommendations. But yes, as part 12:05:48	24 A. So indirectly, sir, so, for 12:11:09
- 1	of making the recommendations, they describe 12:05:53	25 example, currently available data from 12:11:21

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1 transgender I am on page 12:11:24	1 tell me in what situations the GRADE guidelines 12:14:03
2 Q. I see it. 12:11:27	2 permit making a strong recommendation based on 12:14:09
3 A 84. Currently available data 12:11:28	3 low quality evidence? 12:14:13
4 from transgender adolescent support treatment 12:11:33	4 A. So there are specific situations 12:14:15
5 with sex hormones starting at age 16, and they 12:11:35	5 in which they report that that is acceptable. 12:14:21
6 provide two references. We need to look at 12:11:38 7 those references to see if they are to studies 12:11:41	6 I would need to refer to the appropriate 12:14:24
	7 article in the series to identify those. I 12:14:27
8 or summaries of studies or reviews. But they 12:11:44	8 believe that there are approximately five 12:14:31
9 do reference the recommendations, sir, so there 12:11:50	9 situations in which they state that that is an 12:14:34
10 would be a way to determine in some way how 12:11:53	10 inappropriate thing to do. 12:14:40
11 many studies they are basing their 12:11:57 12 recommendations on. 12:11:58	11 Q. Did the Endocrine Society in its 12:14:41 12 2017 guidelines tell us which of those 12:14:43
13 Q. You would have to piece together 12:11:59	3 2 1
14 the footnotes and figure out or the end 12:12:00	14 strong recommendation based on low quality 12:14:50
15 notes and figure out what they seem to be 12:12:03	15 evidence? 12:14:52
16 using, right? They have not compiled it for us 12:12:05	16 A. They did not. The thing that I 12:14:53
17 and presented it? 12:12:07	17 would state, sir, is that the GRADE guidelines 12:14:59
18 A. Again, as I said, they don't 12:12:08	18 are an ideal process and that this guideline is 12:15:02
19 provide a table similar to the table that we 12:12:10	19 comparable to many other clinical practice 12:15:10
20 reviewed in Exhibit 16. 12:12:12	20 guidelines in medicine that clinicians rely on, 12:15:12
Q. And we don't know if these studies 12:12:14	21 and in some ways you may be holding the 12:15:20
22 were selected via systematic review. In fact, 12:12:17	22 guidelines up to unrealistic standards in 12:15:25
23 it appears they were not, correct? 12:12:21	23 practice. 12:15:29
24 A. That would be a reasonable 12:12:24	Q. Have you independently determined 12:15:30
25 conjecture. 12:12:26	25 which of the situations for making a strong 12:15:34
-	
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1 Q. Let's look at this endnote 63 that 12:12:27	1 recommendation based on low quality evidence 12:15:38
1 Q. Let's look at this endnote 63 that 12:12:27 2 you just referenced. So the statement 12:12:31	1 recommendation based on low quality evidence 12:15:38 2 would apply here? 12:15:40
1 Q. Let's look at this endnote 63 that 12:12:27 2 you just referenced. So the statement 12:12:31 3 currently available data from transgender 12:12:43	1 recommendation based on low quality evidence 12:15:38 2 would apply here? 12:15:40 3 A. I have not, sir. 12:15:41
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1 Q. Let's look at this endnote 63 that 12:12:27 2 you just referenced. So the statement 12:12:31 3 currently available data from transgender 12:12:43 4 adolescents support treatment with sex hormones 12:12:47 5 starting at age 16 years is citing to a paper 12:12:48 6 lead author de Vries published in Pediatrics in 12:12:56 7 2014, correct? 12:13:00 8 A. Correct, sir. 12:13:00 9 Q. And that is a that's not a 12:13:02 10 systematic review or anything, that's a single 12:13:05 11 study, is it not? 12:13:07 12 A. Yes, sir. 12:13:08 13 Q. And then they are also citing to 12:13:08 14 122, which is an NHS document, correct? 12:13:12 15 A. The author of that document is the 12:13:16 16 NHS, sir. 12:13:29 17 Q. And do you know if that's a study 12:13:30 18 or review or what it is? 12:13:35 20 Q. And assuming if it is not a study 12:13:41 21 itself, do you have any idea what studies it 12:13:44 22 cites to? 12:13:47 23 A. I would have to reference the 12:13:48	1 recommendation based on low quality evidence 12:15:38 2 would apply here? 12:15:40 3 A. I have not, sir. 12:15:41 4 Q. All right. Let's look at 12:15:43 5 something else. 12:15:47 6 A. But not having done so does not 12:15:48 7 mean that one of those situations does not, in 12:15:50 8 fact, apply. 12:15:52 9 Q. I am trying to understand your 12:15:53 10 testimony. You in preparing your expert report 12:15:54 11 did not opine as to which one applies, correct? 12:15:57 12 A. I have not formed an opinion on 12:16:00 13 that matter, sir. 12:16:03 14 Q. Understood. 12:16:04 15 (Thereupon, Exhibit 18, Standards of 12:16:05 16 Care for the Health of Transgender and Gender 12:16:05 17 Diverse People, Version 8, was marked for purposes 12:16:05 18 of identification.) 12:16:05 19 BY MR. FRAMPTON: 12:16:05 20 Q. All right. Dr. Antommaria, I am 12:16:23 21 handing you what I am marking as Exhibit 18. 12:16:31 22 Hopefully, it's excerpts from WPATH's SOC8. 12:16:31

32 (Pages 122 - 125)

Page 12d	Page 128
1 not the entirety of WPATH's SOC8. 12:17:01	1 left-hand corner, the authors provide what they 12:20:17
2 Q. That's right. It should have the 12:17:07	2 call a short narrative review instead of a 12:20:19
3 entirety of the adolescent chapter, which is 12:17:09	3 systematic review; is that correct? 12:20:23
4 probably all we are going to look at. So 12:17:14	4 A. That's what they state. 12:20:24
5 flip let's see, I don't even have it in 12:17:20	5 Q. Okay. And their claim is that the 12:20:26
6 front of me. Let's go to the adolescent 12:17:24	6 number of studies is too small to allow for a 12:20:29
7 chapter, which I believe begins on page 43, 12:17:56	7 systematic review; is that right? 12:20:33
8 S43. I don't know why there is an S in front 12:18:11	8 A. The low number of studies is one 12:20:36
9 of it, but it's S43. 12:18:13	9 of the reasons that they provide for not 12:20:52
10 MR. CHEEK: Counsel, just sort of 12:18:15	10 performing the systematic review or that a 12:20:55
11 flipping through this, there are like it goes 12:18:17	11 systematic review was not possible. Are we 12:20:57
12 from page S13, S14, and then jumps to S43. 12:18:24	12 moving to another document, sir? 12:21:20
13 MR. FRAMPTON: Yeah. 12:18:32	Q. We are moving to another document. 12:21:22
14 MR. CHEEK: Okay, okay. 12:18:33	14 (Thereupon, Exhibit 19, Gender 12:21:22
MR. FRAMPTON: No, that's correct. I 12:18:34	15 Dysphoria In Young People Is Rising - And So Is 12:21:22
16 mean, that's you can see there is a table of 12:18:35	16 Professional Disagreement, was marked for purposes 12:21:22
17 contents on S4. I eliminated a bunch of chapters 12:18:37	17 of identification.) 12:21:22
18 I wasn't going to ask him about. 12:18:41	18 BY MR. FRAMPTON: 12:22:15
MR. CHEEK: Understood. Thank you 12:18:42	19 Q. All right. Do you have the new 12:22:15
20 for the clarity. 12:18:43	20 exhibit? Oh, I see it there. All right. What 12:22:18
21 BY MR. FRAMPTON: 12:18:44	21 I have marked as Exhibit 19 is an article 12:22:20
22 Q. Dr. Antommaria, I 12:18:47	22 entitled Gender Dysphoria In Young People Is 12:22:26
MR. CHEEK: I'm sorry, which page are 12:18:48	23 Rising - And So is Professional Disagreement, 12:22:29
24 you on? 12:18:49	24 Jennifer Block and the BMJ; is that correct? 12:22:31
25 MR. FRAMPTON: I am on S43. 12:18:49	25 A. If by article you mean a news 12:22:34
Page 12	
1 MR. CHEEK: Thank you. 12:18:51	1 article, yes, sir. 12:22:41
2 BY MR. FRAMPTON: 12:18:51	2 Q. Yes, I understand this is not a 12:22:44
3 Q. Doctor, are you also on 12:18:51	3 peer-reviewed article, correct? Correct? 12:22:45
4 A. I am on S43. 12:18:51	4 A. Correct. 12:22:49
5 Q. Thank you, sir. Are you familiar 12:18:54	5 Q. Sorry, she has to have a verbal 12:22:49
6 generally with this chapter 6 on adolescents of 12:19:00	6 response or she can't 12:22:52
7 SOC8? 12:19:04	7 A. I apologize. 12:22:53
8 A. I am, sir. 12:19:05	8 Q. Have you seen this before? 12:22:54
9 Q. And I'm sorry, did you answer my 12:19:06 10 question? We are, in fact, looking at WPATH 12:19:08	9 A. I am familiar with it, sir. 12:22:57 10 Q. Have you read it? 12:22:59
11 SOC8, correct? 12:19:11	10 Q. Have you read it? 12:22:39 11 A. I have, sir. 12:23:07
12 A. Yes, I agreed that this exhibit 12:19:12	12 Q. Go to page 2, the second page. 12:23:16
13 was parts of WPATH's SOC8. 12:19:14	13 The very bottom of the page, that paragraph 12:23:30
14 Q. Great. Do you agree that the 12:19:19	14 that starts and spills over reads: Guyatt, who 12:23:31
15 recommendations in the adolescent chapter are 12:19:27	15 co-developed GRADE, found, quote, serious 12:23:34
16 not based on a systematic review of the 12:19:29	16 problems, unquote, with the 12:23:37
17 evidence? 12:19:31	17 A. Oh, I'm sorry. 12:23:38
18 A. That is correct, sir. 12:19:31	18 Q. Are you in the wrong place? 12:23:39
19 Q. And as a result, there are no 12:19:35	19 A. No, I just want to so we are on 12:23:40
20 GRADE type assessments of the quality of the 12:19:43	20 2 of 10, sir? 12:23:44
21 evidence, correct? 12:19:46	Q. You are not looking no, we need 12:23:45
22 A. As a result of that and a number 12:19:47	22 the other set of copies. I'm sorry, I am going 12:23:52
23 of additional factors, yes. 12:19:51	23 to remark this. I made a better copy of that 12:23:55
0 77 77 11 0 645 1 10 10 64	24 exhibit. 12:23:57
24 Q. We will just read it. On S46, in 12:19:54	24 EXHIBIT. 12.23.37

33 (Pages 126 - 129)

Page 130	Page 132
1 that as 20? 12:24:07	1 have been mischaracterized in news reports who 12:26:29
2 MR. FRAMPTON: Sure. 12:24:09	2 don't publicly affirm their belief. 12:26:33
3 (Thereupon, Exhibit 20, Gender 12:24:09	3 Q. Other than your general view that 12:26:39
4 Dysphoria In Young People Is Rising - And So is 12:24:09	4 news reports might mischaracterize someone, do 12:26:41
5 Professional Disagreement, was marked for purposes 12:24:09	
6 of identification.) 12:24:10	6 Dr. Guyatt's comments here were 12:26:47
7 BY MR. FRAMPTON: 12:24:10	7 mischaracterized or taken out of context? 12:26:49
8 Q. This is a whole lot easier to 12:24:10	8 A. I don't have specific reason to 12:26:51
9 read. 12:24:12	9 believe that. I am just marking for you, sir, 12:26:56
10 A. The PDF as opposed to the web 12:24:12	10 that a news article is very different than a 12:26:58
11 page, right? 12:24:15	11 peer-reviewed article that Dr. Guyatt has 12:27:02
12 Q. Yes. 12:24:15	12 written on the subject. 12:27:04
13 A. Thank you. 12:24:16	Q. Assuming the sentence that I read 12:27:05
Q. All right. Do we appear to be 12:24:26	14 you well, it doesn't even we don't even 12:27:08
15 looking at the same document, just a better 12:24:27	15 have to make that assumption. Could a 12:27:12
16 copy? 12:24:30	16 reasonable scientist share the concerns 12:27:16
A. We now appear to be viewing the 12:24:30	17 expressed in the sentence that I read you, 12:27:18
18 PDF of that article. 12:24:31	18 regardless of whether they were or were not 12:27:20
19 Q. Great, all right. Bottom of page 12:24:33	19 expressed by Dr. Guyatt? 12:27:22
20 2. 12:24:37	A. So the sentence reads that he 12:27:24
21 A. Yes, sir. 12:24:37	21 found serious problems with the Endocrine 12:27:47
22 Q. All right. It says: Guyatt, who 12:24:38	22 Society guidelines, noting the systematic 12:27:50
23 co-developed GRADE, found, quote, serious 12:24:42	23 reviews didn't look at the effects of 12:27:51
24 problems with the Endocrine Society guidelines, 12:24:44	24 interventions on gender dysphoria itself. The 12:27:53
25 noting that the systematic reviews didn't look 12:24:47	25 systematic reviews weren't intended to look at 12:27:59
Page 131	Page 133
1 at the effect of the interventions on gender 12:24:50	1 the effect on gender dysphoria. They looked at 12:28:12
1 at the effect of the interventions on gender 12:24:50 2 dysphoria itself, arguably, quote, the most 12:24:52	1 the effect on gender dysphoria. They looked at 12:28:12 2 other factors. And the study does cite 12:28:14
1 at the effect of the interventions on gender 12:24:50 2 dysphoria itself, arguably, quote, the most 12:24:52 3 important outcome, unquote. We'll stop there 12:24:56	1 the effect on gender dysphoria. They looked at 12:28:12 2 other factors. And the study does cite 12:28:14 3 articles which did look at the effect on gender 12:28:21
1 at the effect of the interventions on gender 12:24:50 2 dysphoria itself, arguably, quote, the most 12:24:52 3 important outcome, unquote. We'll stop there 12:24:56 4 for now. Did I read that correctly? 12:25:01	1 the effect on gender dysphoria. They looked at 12:28:12 2 other factors. And the study does cite 12:28:14 3 articles which did look at the effect on gender 12:28:21 4 dysphoria and other mental health outcomes. 12:28:25
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34 (Pages 130 - 133)

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1 Q. All right. Further down the page, 12:29:46	1 example, if a if a guideline committee 12:32:29
2 bottom, it says, last partial paragraph. 12:29:50 3 A. So I'm sorry, page 3 now, sir? 12:29:55	2 decided to forego doing a systematic review on 12:32:36 3 a relatively unimportant outcome, presumably, 12:32:43
4 Q. I'm sorry, yes, you're right. We 12:29:58	4 that would be more acceptable than neglecting a 12:32:47
5 turned the page. I did not flag that for you. 12:29:59	5 systematic review on a critically important 12:32:51 6 outcome, correct? 12:32:53
6 Page 3, left-hand column, bottom of the page. 12:30:02 7 For minors, WPATH contends that the evidence is 12:30:06	
	7 MR. CHEEK: Objection, form. 12:32:54 8 THE WITNESS: So the relative 12:33:01
8 so limited that, quote, a systematic review 12:30:09	
9 regarding outcomes of treatment in adolescents 12:30:12	9 importance of an outcome might be one of multiple 12:33:03
10 is not possible, unquote. But Guyatt counters 12:30:15	10 factors that was taken in consideration in 12:33:06
11 that, quote, systematic reviews are always 12:30:17	11 prioritizing potential systematic reviews in 12:33:12
12 possible, unquote, even if few or no studies 12:30:19	12 preparation for writing the guideline. 12:33:16
13 meet the eligibility criteria. If an entity 12:30:23	13 BY MR. FRAMPTON: 12:33:16
14 has made a recommendation without one, he says, 12:30:27	14 Q. It's something that should be 12:33:16
15 quote, they would be violating standards of 12:30:30	15 taken into consideration, right? 12:33:17
16 trustworthy guidelines, end quote. Did I read 12:30:32	A. I believe that I said that it was 12:33:19
17 that correctly? 12:30:35	17 one of the one of the factors that should be 12:33:21
18 A. You did, sir. 12:30:35	18 considered. 12:33:24
19 Q. Could a reasonable scientist share 12:30:36	19 Q. There are systematic reviews out 12:33:24
20 the concerns expressed in the portion that I 12:30:38 21 read? 12:30:43	20 there on the efficacy of puberty suppression 12:33:51
	21 and cross-sex hormones on psychosocial outcomes 12:33:57 22 in adolescents, are there not? 12:34:00
A. So I take it that the portion that 12:30:43 23 you read articulates at least two separate 12:30:46	23 MR. CHEEK: Objection, form. 12:34:02
24 concerns. I would agree with the statement 12:30:52	24 THE WITNESS: There are systematic 12:34:04
25 that a systematic review is always possible if 12:30:57	25 reviews of those topics. 12:34:05
	*
Page 135	Page 137
1 the even it the results of that systematic 12:31:01	1 DV MD FD AMDTON: 12.24.06
1 the even if the results of that systematic 12:31:01	1 BY MR. FRAMPTON: 12:34:06
2 review identified few, if any the language 12:31:04	2 Q. Since 2017, correct? 12:34:15
2 review identified few, if any the language 12:31:04 3 here is few, if no, studies. The additional 12:31:09	2 Q. Since 2017, correct? 12:34:15 3 A. And there may be systematic 12:34:15
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2 review identified few, if any the language 12:31:04 3 here is few, if no, studies. The additional 12:31:09 4 concern that is expressed is if an entity has 12:31:13 5 made a recommendation without one, and I take 12:31:17 6 it a systematic review, they would be violating 12:31:20 7 the standards of the trustworthy guidelines. 12:31:23 8 And I would say that given the 12:31:26 9 practical limitations of being able to do a 12:31:30 10 systematic review for every single 12:31:34 11 recommendation in the guideline that a 12:31:36 12 guideline might be still be trustworthy and 12:31:40 13 important in relevant ways without having 12:31:48 14 conducted a systematic review for every single 12:31:48 15 recommendation that it makes. 12:31:52 16 Q. Would you agree that the 12:31:59 18 turns at least in part on the importance of the 12:32:02 19 outcome to be reviewed? 12:32:06	Q. Since 2017, correct? 12:34:15 A. And there may be systematic 12:34:15 4 reviews predating 2017. One of the factors 12:34:22 5 that goes into whether you would perform a 12:34:27 6 systematic review might be a consideration as 12:34:30 7 to whether or not you think that there is 12:34:33 8 significant evidence of which you are already 12:34:35 9 not aware. 12:34:38 10 Q. The systematic reviews on 12:34:38 11 psychosocial outcomes of puberty suppression or 12:34:47 12 cross-sex hormones in adolescents that you can 12:34:51 13 think of post date 2017, do they not? 12:34:53 14 MR. CHEEK: Objection, form. 12:34:58 15 THE WITNESS: So I don't recall the 12:35:01 16 publication dates of the systematic reviews that I 12:35:02 17 can think of. So without referring 12:35:06 18 BY MR. FRAMPTON: 12:35:10 19 Q. Which ones can you think of? 12:35:10
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2 review identified few, if any the language 12:31:04 3 here is few, if no, studies. The additional 12:31:09 4 concern that is expressed is if an entity has 12:31:13 5 made a recommendation without one, and I take 12:31:17 6 it a systematic review, they would be violating 12:31:20 7 the standards of the trustworthy guidelines. 12:31:23 8 And I would say that given the 12:31:26 9 practical limitations of being able to do a 12:31:30 10 systematic review for every single 12:31:34 11 recommendation in the guideline that a 12:31:36 12 guideline might be still be trustworthy and 12:31:40 13 important in relevant ways without having 12:31:48 14 conducted a systematic review for every single 12:31:48 15 recommendation that it makes. 12:31:52 16 Q. Would you agree that the 12:31:59 18 turns at least in part on the importance of the 12:32:02 19 outcome to be reviewed? 12:32:06 20 MR. CHEEK: Objection, form. 12:32:10 21 THE WITNESS: Just so I understand 12:32:17 22 your question, can you rephrase it? 12:32:20	Q. Since 2017, correct? 12:34:15 A. And there may be systematic 12:34:22 that goes into whether you would perform a 12:34:27 systematic review might be a consideration as 12:34:30 to whether or not you think that there is 12:34:33 significant evidence of which you are already 12:34:35 not aware. 12:34:38 Q. The systematic reviews on 12:34:38 psychosocial outcomes of puberty suppression or 12:34:47 cross-sex hormones in adolescents that you can 12:34:51 think of post date 2017, do they not? 12:34:53 MR. CHEEK: Objection, form. 12:34:58 THE WITNESS: So I don't recall the 12:35:01 publication dates of the systematic reviews that I 12:35:02 and think of. So without referring 12:35:06 BY MR. FRAMPTON: 12:35:10 Q. Which ones can you think of? 12:35:11 A. So there are the two reviews which 12:35:17 But there is an older systematic review that 12:35:20 was published in Pediatrics, which is 12:35:23
2 review identified few, if any the language 12:31:04 3 here is few, if no, studies. The additional 12:31:09 4 concern that is expressed is if an entity has 12:31:13 5 made a recommendation without one, and I take 12:31:17 6 it a systematic review, they would be violating 12:31:20 7 the standards of the trustworthy guidelines. 12:31:23 8 And I would say that given the 12:31:26 9 practical limitations of being able to do a 12:31:30 10 systematic review for every single 12:31:34 11 recommendation in the guideline that a 12:31:36 12 guideline might be still be trustworthy and 12:31:40 13 important in relevant ways without having 12:31:48 15 recommendation that it makes. 12:31:52 16 Q. Would you agree that the 12:31:58 17 importance of conducting a systematic review 12:31:59 18 turns at least in part on the importance of the 12:32:02 19 outcome to be reviewed? 12:32:06 20 MR. CHEEK: Objection, form. 12:32:10 21 THE WITNESS: Just so I understand 12:32:17 22 your question, can you rephrase it? 12:32:20 24 Q. Absolutely. So, for example if 12:32:21	Q. Since 2017, correct? 12:34:15 A. And there may be systematic 12:34:15 4 reviews predating 2017. One of the factors 12:34:22 5 that goes into whether you would perform a 12:34:27 6 systematic review might be a consideration as 12:34:30 7 to whether or not you think that there is 12:34:33 8 significant evidence of which you are already 12:34:35 9 not aware. 12:34:38 10 Q. The systematic reviews on 12:34:38 11 psychosocial outcomes of puberty suppression or 12:34:47 12 cross-sex hormones in adolescents that you can 12:34:51 13 think of post date 2017, do they not? 12:34:53 14 MR. CHEEK: Objection, form. 12:34:58 15 THE WITNESS: So I don't recall the 12:35:01 16 publication dates of the systematic reviews that I 12:35:02 17 can think of. So without referring 12:35:06 18 BY MR. FRAMPTON: 12:35:10 Q. Which ones can you think of? 12:35:11 21 have been performed as part of the Cass Review. 12:35:17 22 But there is an older systematic review that 12:35:23 24 pre-pandemic. And so I don't recall from the 12:35:29
2 review identified few, if any the language 12:31:04 3 here is few, if no, studies. The additional 12:31:09 4 concern that is expressed is if an entity has 12:31:13 5 made a recommendation without one, and I take 12:31:17 6 it a systematic review, they would be violating 12:31:20 7 the standards of the trustworthy guidelines. 12:31:23 8 And I would say that given the 12:31:26 9 practical limitations of being able to do a 12:31:30 10 systematic review for every single 12:31:34 11 recommendation in the guideline that a 12:31:36 12 guideline might be still be trustworthy and 12:31:40 13 important in relevant ways without having 12:31:46 14 conducted a systematic review for every single 12:31:48 15 recommendation that it makes. 12:31:52 16 Q. Would you agree that the 12:31:59 18 turns at least in part on the importance of the 12:32:02 19 outcome to be reviewed? 12:32:06 20 MR. CHEEK: Objection, form. 12:32:10 21 THE WITNESS: Just so I understand 12:32:17 22 your question, can you rephrase it? 12:32:20	Q. Since 2017, correct? 12:34:15 A. And there may be systematic 12:34:15 4 reviews predating 2017. One of the factors 12:34:22 5 that goes into whether you would perform a 12:34:27 6 systematic review might be a consideration as 12:34:30 7 to whether or not you think that there is 12:34:33 8 significant evidence of which you are already 12:34:35 9 not aware. 12:34:38 10 Q. The systematic reviews on 12:34:38 11 psychosocial outcomes of puberty suppression or 12:34:47 12 cross-sex hormones in adolescents that you can 12:34:51 13 think of post date 2017, do they not? 12:34:53 14 MR. CHEEK: Objection, form. 12:34:58 15 THE WITNESS: So I don't recall the 12:35:01 16 publication dates of the systematic reviews that I 12:35:02 17 can think of. So without referring 12:35:06 18 BY MR. FRAMPTON: 12:35:10 Q. Which ones can you think of? 12:35:11 21 have been performed as part of the Cass Review. 12:35:17 22 But there is an older systematic review that 12:35:20 23 was published in Pediatrics, which is 12:35:23

35 (Pages 134 - 137)

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1 before or after 2017, I apologize. 12:35:36	1 A. I do, sir. 12:40:11
2 Q. Is that the Chew article; is that 12:35:38	2 Q. What is it? 12:40:12
3 the lead author? 12:35:43	3 A. As the title suggests, it's a 12:40:14
4 A. I don't 12:35:44	4 clinical practice guideline prepared by the 12:40:20
5 Q. Let's find Chew. 12:35:45	5 Endocrine Society for a clinical condition 12:40:22
6 A. I don't recall 12:35:47	6 called congenital adrenal hyperplasia. 12:40:27
7 Q. Let's see if it's the right one. 12:35:47	7 Q. And is that a condition that you 12:40:29
8 A the first author of that 12:35:49	8 are responsible for making the initial 12:40:33
9 systematic review, sir. 12:35:52	9 diagnosis of? 12:40:38
10 Q. Maybe we'll get there, maybe we 12:36:57	10 A. No, sir, it is not. 12:40:38
11 won't. All right. Are you aware of any 12:36:59	Q. Is it a condition for which you 12:40:41
12 clinical practice guidelines that recommend 12:37:19	12 are responsible for initiating treatment? 12:40:45
13 puberty suppression or cross-sex hormones for 12:37:23	13 A. No, sir, it is not. 12:40:47
14 treating adolescents with gender dysphoria that 12:37:25	Q. Would those two things generally 12:40:50
15 are based on a systematic review of the 12:37:28	15 be done by an endocrinologist? 12:40:53
16 efficacy of puberty blockers or cross-sex 12:37:31	16 A. In clinical settings where an 12:40:55
17 hormones? 12:37:33	17 endocrinologist was available, yes. There may 12:41:06
A. Can you repeat your question just 12:37:34	18 be clinical settings in which a pediatric 12:41:10
19 so I am clear, sir? 12:37:42	19 endocrinologist was not available, and someone 12:41:13
Q. I am going to try. Are you aware 12:37:44	20 else might make that diagnosis and initiate 12:41:16
21 of any clinical practice guidelines that 12:37:48	21 that treatment. 12:41:21
22 recommend puberty suppression or cross-sex 12:37:51	Q. Tell us tell me generally what 12:41:21
23 hormones for adolescents with gender dysphoria 12:37:54	23 the condition is. Describe it for me, please. 12:41:25
24 that are based on a systematic review of the 12:37:57	24 A. So it is a condition in which 12:41:30
25 efficacy of either puberty blockers or 12:38:01	25 individuals are lacking a enzyme, that enzyme 12:41:35
D 120	
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1 cross-sex hormones? 12:38:04	1 being 21-Hydroxylase. And as a result, the 12:41:42
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1 cross-sex hormones? 12:38:04 2 A. I am not, sir. Again, though, I 12:38:04 3 think that that is consistent with clinical 12:38:21	1 being 21-Hydroxylase. And as a result, the 12:41:42 2 individuals produce an excess of I believe 12:41:48 3 cortisol, sir, which then has a variety of 12:41:53
1 cross-sex hormones? 12:38:04 2 A. I am not, sir. Again, though, I 12:38:04 3 think that that is consistent with clinical 12:38:21 4 practice guidelines in many other areas in 12:38:22	1 being 21-Hydroxylase. And as a result, the 12:41:42 2 individuals produce an excess of I believe 12:41:48 3 cortisol, sir, which then has a variety of 12:41:53 4 effects on the individual. 12:41:59
1 cross-sex hormones? 12:38:04 2 A. I am not, sir. Again, though, I 12:38:04 3 think that that is consistent with clinical 12:38:21 4 practice guidelines in many other areas in 12:38:22 5 health care, in medicine, including pediatrics. 12:38:26	1 being 21-Hydroxylase. And as a result, the 12:41:42 2 individuals produce an excess of I believe 12:41:48 3 cortisol, sir, which then has a variety of 12:41:53 4 effects on the individual. 12:41:59 5 Q. The typical treatment is 12:42:00
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1 A. Yes, sir. They will address 12:43:10	1 recommendation is for or against intervention, 12:46:33
2 features such as diagnosis. 12:43:19	2 or do you know? 12:46:35
3 Q. Screening, potentially? 12:43:22	3 MR. CHEEK: Objection, form. 12:46:37
4 A. If screening is relevant to 12:43:24	4 THE WITNESS: So as I previously 12:46:42
5 Q. Right. 12:43:32	5 stated, sir, I don't recall all of those criteria 12:46:43
6 A the to the diagnosis. In 12:43:34	6 at this point in time, so I don't know. But I 12:46:51
7 many conditions, screening would be irrelevant. 12:43:35	7 would say that in general, the GRADE approach 12:46:53
8 Q. Right. Look at the section on 12:43:39	8 treats strong recommendations for and strong 12:46:57
9 4044 entitled Treatment of Classic Congenital 12:43:47	9 recommendations against similarly. 12:46:59
10 Adrenal Hyperplasia. Do you see that, 4.1 12:43:52	10 BY MR. FRAMPTON: 12:47:03
11 through 4.6? 12:43:56	11 Q. Look at go to the next are 12:47:13
12 A. I do, sir. 12:43:57	12 you on 4045 now? 12:47:15
Q. Are any of those strong 12:43:58	13 A. I am on 4044, sir. 12:47:17
14 recommendations based on low quality evidence 12:44:02	14 Q. All right, go to 4045. All right. 12:47:19
15 in that section? 12:44:06	15 And I am just going to do one more set of 12:47:21
16 A. All of the recommendations are 12:44:07	16 these. Treatment of Nonclassic Congenital 12:47:23
17 based on moderate quality evidence, sir. 12:44:08	17 Adrenal Hyperplasia, 5.1 through 5.6. Any 12:47:26
18 Q. Let's look then at the stress 12:44:12	18 strong recommendations in favor of 12:47:31
19 dosing section, 4.7 to 4.11. Again, are all of 12:44:15	19 pharmacological intervention based on low 12:47:34
20 those based on at least moderate quality 12:44:27	20 quality evidence? 12:47:36
21 evidence? 12:44:29	A. No, sir. But we skipped the 12:47:36
22 A. No, sir. 12:44:29	22 section on monitoring therapy. 12:47:50
23 Q. Which one did I oh, there we 12:44:32	Q. Okay. All right, we are going to 12:47:51
24 go. Are there any strong recommendations in 12:44:37	24 move to another document. 12:48:22
25 favor of pharmacological intervention based on 12:44:44	25 (Thereupon, Exhibit 22, Pediatric 12:48:22
Page 143	Page 145
1 low quality evidence? 12:44:47	1 Obesity - Assessment, Treatment, and Prevention: 12:48:22
1 low quality evidence? 12:44:47 2 A. Can you so I am reading the 12:44:48	
1 low quality evidence? 12:44:47 2 A. Can you so I am reading the 12:44:48 3 recommendation that's based on low quality 12:45:08	1 Obesity - Assessment, Treatment, and Prevention: 12:48:22
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Page 146 1 A. Yes, sir, you did. 12:49:48 2 Q. And then they also encourage the 12:49:49 Page 146 1 child can comply with this recommendation with 12: 2 minimal risk? 12:52:30	
	Page 148
2 Q. And then they also encourage the 12:49:49 2 minimal risk? 12:52:30	52:28
2	1
3 consumption of whole fruits rather than fruit 12:49:52 3 A. Depending on the type of moderate 12:52:3	1
4 juices; is that correct? 12:49:55 4 to vigorous physical activity they are 12:52:53	
5 A. Omitting a parenthetical phrase, 12:49:55 5 performing and where that is performed, yes. 12:52	:55
6 yes, sir. 12:50:01 6 (Thereupon, Exhibit 23, Part 4: 12:52:55	:0. <i>EE</i>
7 Q. Yeah, I didn't feel like we needed 12:50:01 7 Pediatric Basic and Advanced Life Support, was 12::	02:33
8 to read all of the various forms of junk food 12:50:02 8 marked for purposes of identification.) 12:53:03	
9 there. And that's a strong recommendation 12:50:06 9 BY MR. FRAMPTON: 12:53:03	
10 based on low quality evidence, correct? 12:50:08 10 Q. I will represent to you what I 12:53:21	
11 A. It is, sir. 12:50:09 11 have done here. So these are pediatric basic 12:53:2	
12 Q. Can you identify any risks 12:50:10 12 and advanced life support. Do you recall 12:53:2 13 associated with avoiding the consumption of 12:50:15 13 citing the document that I am about showing 12:53	
	.28
15 A. Sir, I think that many people 12:50:28 15 A. I cited pediatric and advanced 12:53:34 16 derive enjoyment and pleasure from eating 12:50:31 16 life support. I don't know that I have cited 12:53:36	
	00
	00
18 Q. Can you can you identify any 12:50:37 18 it. 12:53:40	
19 medical risks? 12:50:43 19 Q. Fair enough, and I'll tell you 12:53:40 20 A. I think that, unfortunately, 12:50:52 20 what I have done. There was a table in here 12:53:40	11
	+1
21 individuals who live in food deserts may have 12:50:56 21 that I just had to pull out and print 12:53:43 22 limited access to other sources of nutrition, 12:51:02 22 separately because it wouldn't print within the 12:53:43	15
	+3
23 and foregoing alternative sources of nutrition 12:51:06 23 document. That's what I have done. 12:53:47 24 might result in medical risks, sir. 12:51:11 24 MR. CHEEK: Just for the record, 12:53:52	
	Page 149
1 what you are saying? 12:51:17 1 of 12:53:54	
2 A. Yes, because of lack of access to 12:51:18 2 MR. FRAMPTON: In the back, yeah. 12:53	
	:54
3 alternative forms of food. 12:51:21 3 MR. CHEEK: The tail end of the 12:53:54	:54
4 Q. Any others? 12:51:23 4 exhibit, yeah. 12:54:01	:54
4 Q. Any others? 12:51:23 4 exhibit, yeah. 12:54:01 5 A. Not that I can think of at this 12:51:28 5 BY MR. FRAMPTON: 12:54:01	
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4 Q. Any others? 12:51:23 4 exhibit, yeah. 12:54:01 5 A. Not that I can think of at this 12:51:28 5 BY MR. FRAMPTON: 12:54:01 6 time, sir. 12:51:30 6 Q. Handing you what I am marking as 12:54:01 7 Q. And you don't imagine a reasonable 12:51:31 7 Exhibit 23. Dr. Antommaria, does this appear 12:54:39 9 not eat rather than eating nutrient-poor foods 12:51:35 9 published by the American Heart Association on 12::10 that are available to him or her? 12:51:40 10 pediatric basic and advanced life support? 12:54:44	01 :03 54:41
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1 A. With certain exceptions, sir. I 12:55:46	1 5.1, we have got lay rescuers should begin CPR 12:58:44
2 don't believe that GRADE includes physiological 12:56:14	2 for any victim who is unresponsive, not 12:58:48
3 and mechanistic studies in human subjects 12:56:20	3 breathing normally, and does not have signs of 12:58:51
4 within its categorization of low quality 12:56:22	4 life; do not check for a pulse. Did I read 12:58:53
5 evidence. 12:56:24	5 that correctly? 12:58:56
6 Q. And on the left-hand side, they 12:56:25	6 A. That is the first recommendation, 12:58:57
7 have got a class of recommendation that's 12:56:26	7 sir. 12:59:01
8 called a strong recommendation, correct? 12:56:28	8 Q. And that's a strong 12:59:01
9 A. They have two classes of 12:56:30	9 recommendation, correct? 12:59:03
10 recommendations that are called strong 12:56:35	10 A. Yes, sir. 12:59:03
11 recommendations, sir. 12:56:38	11 MR. CHEEK: I just want to make clear 12:59:07
Q. I am seeing strong and moderate. 12:56:39	12 for the record, we are also looking at the table 12:59:09
13 What am I missing? 12:56:44	13 as opposed to the recommendation-specific 12:59:11
14 A. So Class I is strong. And Class 12:56:45	14 supportive text below. 12:59:15
15 III, the Roman numeral III at the bottom of 12:56:49	15 MR. FRAMPTON: Sure. 12:59:16
16 column one, is also a strong recommendation. 12:56:52	16 BY MR. FRAMPTON: 12:59:17
17 Q. Oh, okay. And one Class I is 12:56:53	17 Q. And the level of evidence is 12:59:17
18 strongly recommend that the benefit is greater 12:57:02	18 classified as C-LD, correct? 12:59:19
19 than the risk. Class III is strong that the 12:57:04	19 A. That is correct, sir. 12:59:22
20 risk is greater than the benefit, correct? 12:57:07	Q. And if you look at the specific 12:59:28
21 A. Yes. In the GRADE 12:57:09	21 supportive text, that's based on evidence that 12:59:29
22 recommendations, there are strong 12:57:13	22 lay rescuers are not able to reliably determine 12:59:32
23 recommendations for and against, as we 12:57:15	23 if people have a pulse, right? 12:59:35
24 previously discussed. And I would take these 12:57:19	A. I would need to read the text to 12:59:36
25 to be strong recommendations for and against. 12:57:21	25 confirm that, sir. Would you like me to? 12:59:39
Page 151	Page 153
1 Q. Okay. These clinical practice 12:57:23	1 Q. Actually, no. In the absence 12:59:46
2 guidelines are for dealing with pediatric 12:57:29	2 of if you don't have medical equipment 12:59:52
3 cardiac arrest, correct? 12:57:31	3 readily available, would you agree that CPR is 12:59:58
4 A. That's the core issue, sir. 12:57:37	4 the only intervention known to decrease 13:00:00
5 Q. Yeah. That's a medical emergency, 12:57:40	5 mortality for someone who is in cardiac arrest? 13:00:02
6 is it not? 12:57:43	6 A. Can you repeat your question, sir? 13:00:06
7 A. Yes, sir. 12:57:43	7 Q. Sure. If there is no medical 13:00:14
8 Q. Okay. Left untreated, what's the 12:57:46	8 equipment readily available, would you agree 13:00:18
9 mortality rate? 12:57:50	9 that CPR is the only intervention known to 13:00:21
10 A. Of someone in full arrest? 12:57:51	10 decrease mortality in someone with cardiac 13:00:25
11 Q. Yes, sir. 12:57:56	11 arrest? 13:00:27
12 A. Exceptionally high, sir. 12:57:58	12 A. I am having difficulty with your 13:00:27
Q. Approaching a hundred percent? 12:58:00	13 formulation of your question because I don't 13:00:40
14 A. Not a hundred percent, but 12:58:02	14 quite understand how not having medical 13:00:43
15 exceptionally close to a hundred percent. 12:58:05	15 equipment available relates to performing CPR 13:00:47
Q. Got it. So as a general matter, 12:58:06	16 in that there are components of CPR that can be 13:00:55
17 medical intervention is required to avoid 12:58:09	17 performed without medical equipment and 13:00:59
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 CODE 1 TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T
18 imminent death, right? 12:58:11	18 components of CPR that require medical 13:01:01
19 A. Some intervention, including 12:58:15	19 equipment. So I am just having trouble 13:01:03
19 A. Some intervention, including 12:58:15 20 bystander CPR, is necessary to prevent that, 12:58:20	19 equipment. So I am just having trouble 13:01:03 20 understanding the formulation of your question, 13:01:04
19 A. Some intervention, including 12:58:15 20 bystander CPR, is necessary to prevent that, 12:58:20 21 yes. 12:58:22	19 equipment. So I am just having trouble 13:01:03 20 understanding the formulation of your question, 13:01:04 21 sir. 13:01:09
19 A. Some intervention, including 12:58:15 20 bystander CPR, is necessary to prevent that, 12:58:20 21 yes. 12:58:22 22 Q. Okay. Go to page 9 of the 12:58:22	19 equipment. So I am just having trouble 13:01:03 20 understanding the formulation of your question, 13:01:04 21 sir. 13:01:09 22 Q. What medical equipment do you need 13:01:09
19 A. Some intervention, including 12:58:15 20 bystander CPR, is necessary to prevent that, 12:58:20 21 yes. 12:58:22 22 Q. Okay. Go to page 9 of the 12:58:22 23 document. 12:58:27	19 equipment. So I am just having trouble 13:01:03 20 understanding the formulation of your question, 13:01:04 21 sir. 13:01:09 22 Q. What medical equipment do you need 13:01:09 23 to perform CPR? 13:01:11
19 A. Some intervention, including 12:58:15 20 bystander CPR, is necessary to prevent that, 12:58:20 21 yes. 12:58:22 22 Q. Okay. Go to page 9 of the 12:58:22	19 equipment. So I am just having trouble 13:01:03 20 understanding the formulation of your question, 13:01:04 21 sir. 13:01:09 22 Q. What medical equipment do you need 13:01:09

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D 151	D 156
Page 154 1 performing CPR entails establishing a reliable 13:01:23	Page 156 1 only other Endocrine Society guidelines that 13:04:06
2 airway, which might include intubation. And 13:01:27	1 only other Endocrine Society guidelines that 13:04:06 2 are specific to the pediatric population. And 13:04:09
3 so, again, as a doctor and you being a lawyer, 13:01:35	3 I picked CPR as a important non-Endocrine 13:04:13
4 there's reasons why I am having trouble 13:01:44	4 Society guideline. 13:04:26
5 understanding your question because of it's 13:01:46	5 Q. Okay. Why CPR? 13:04:26
6 conflating things that I wouldn't 13:01:50	6 A. Because of its view of its 13:04:29
7 necessarily 13:01:52	7 potential importance and it being potentially 13:04:41
8 Q. Let me try again. 13:01:53	8 salient to nonphysician readers in a way that 13:04:45
9 A. Please. 13:01:54	9 congenital adrenal I'm sorry, CAH would not 13:04:51
10 Q. For a lay rescuer, is there 13:01:54	10 be salient. 13:04:56
11 anything they can do for someone in cardiac 13:01:58	11 Q. Did you look at any clinical 13:04:57
12 arrest that increases mortality other than CPR? 13:02:01	12 practice guidelines in trying to decide which 13:04:59
13 MR. CHEEK: Objection, form. 13:02:06	13 ones to include that you did not end up citing 13:05:02
14 BY MR. FRAMPTON: 13:02:08	14 in your report? 13:05:07
15 Q. I'm sorry, that decreases 13:02:09	15 A. No, sir; I did not. 13:05:08
16 mortality. 13:02:11	16 Q. You just picked out these three? 13:05:08
17 A. That decreases mortality. So it's 13:02:11	17 A. Yes. 13:05:11
18 not my intention to be pedantic, sir. But yes, 13:02:17	18 MR. FRAMPTON: I think we can break 13:05:14
19 they could activate 9-1-1 if they didn't know 13:02:23	19 for lunch. 13:05:15
20 how to perform CPR or alert other individuals 13:02:26	20 (Lunch recess taken.) 13:05:17
21 who might know how to perform CPR in order to 13:02:29	21 MR. FRAMPTON: Let's go on the 13:40:33
22 decrease mortality. 13:02:32	22 record. 13:40:34
23 Q. Anything else? 13:02:33	23 (Thereupon, Exhibit 24, Hormonal 13:40:46
24 A. That would be the primary 13:02:34	24 Treatment in Young People With Gender Dysphoria: A 13:40:46
25 alternative, sir. 13:02:50	25 Systematic Review, was marked for purposes of 13:40:46
Page 155	Page 157
1 Q. Is that all you can think of 13:02:51	1 identification.) 13:40:46
2 sitting here today? 13:02:53	2 BY MR. FRAMPTON: 13:40:46
3 A. That are aside from performing CPR 13:02:54	3 Q. Doctor, I am handing you what I 13:40:47
4 that a lay bystander could do to decrease 13:02:59	4 marked as Exhibit 24, which is titled Hormonal 13:40:48
5 mortality in somebody with cardiac arrest, sir? 13:03:02	4 marked as Exhibit 24, which is the Trombolar 13.40.46
5 mortanty in somebody with cardiac arrest, sir: 15.05.02	5 Treatment in Young People With Gender 13:40:50
6 Q. Yes. You said call 9-1-1, perform 13:03:05	
	5 Treatment in Young People With Gender 13:40:50
6 Q. Yes. You said call 9-1-1, perform 13:03:05	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33 15 A. Can you repeat that, sir? 13:03:35	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17 15 Q. Obviously. No, I just why we 13:41:20
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33 15 A. Can you repeat that, sir? 13:03:35 16 Q. Sure. I am just you we have 13:03:39	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17 15 Q. Obviously. No, I just why we 13:41:20 16 wanted to show it to you, all right. Tell me 13:41:23
Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33 15 A. Can you repeat that, sir? 13:03:35 16 Q. Sure. I am just you we have 13:03:39 17 just now looked at three clinical practice 13:03:41	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17 15 Q. Obviously. No, I just why we 13:41:20 16 wanted to show it to you, all right. Tell me 13:41:23 17 if I am correctly stating well, let me back 13:41:29
6 Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33 15 A. Can you repeat that, sir? 13:03:35 16 Q. Sure. I am just you we have 13:03:39 17 just now looked at three clinical practice 13:03:41 18 guidelines that you cited in your expert 13:03:43 19 report, correct? 13:03:47 20 A. Yes, I cite each of these clinical 13:03:47	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17 15 Q. Obviously. No, I just why we 13:41:20 16 wanted to show it to you, all right. Tell me 13:41:23 17 if I am correctly stating well, let me back 13:41:29 18 up and lay a foundation. You are familiar with 13:41:35 19 the principle of clinical equipoise, correct? 13:41:38 20 A. I am, sir. 13:41:41
Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33 15 A. Can you repeat that, sir? 13:03:35 16 Q. Sure. I am just you we have 13:03:39 17 just now looked at three clinical practice 13:03:41 18 guidelines that you cited in your expert 13:03:43 19 report, correct? 13:03:47 20 A. Yes, I cite each of these clinical 13:03:47 21 practice guidelines in my expert report. 13:03:52	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17 15 Q. Obviously. No, I just why we 13:41:20 16 wanted to show it to you, all right. Tell me 13:41:23 17 if I am correctly stating well, let me back 13:41:29 18 up and lay a foundation. You are familiar with 13:41:35 19 the principle of clinical equipoise, correct? 13:41:38 20 A. I am, sir. 13:41:41 21 Q. Tell me if I am stating it 13:41:41
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Q. Yes. You said call 9-1-1, perform 13:03:05 7 CPR, or alert someone who can perform CPR. 13:03:12 8 Anything else? 13:03:16 9 A. I think that sitting here today, 13:03:16 10 those would be the primary options that I would 13:03:22 11 think of, sir. 13:03:26 12 Q. You cited in your expert report 13:03:28 13 the three non-gender dysphoria systematic 13:03:29 14 reviews that we have just looked at, correct? 13:03:33 15 A. Can you repeat that, sir? 13:03:35 16 Q. Sure. I am just you we have 13:03:39 17 just now looked at three clinical practice 13:03:41 18 guidelines that you cited in your expert 13:03:43 19 report, correct? 13:03:47 20 A. Yes, I cite each of these clinical 13:03:47 21 practice guidelines in my expert report. 13:03:53 22 Q. And how did you select those to 13:03:53 23 cite? 13:03:57	5 Treatment in Young People With Gender 13:40:50 6 Dysphoria, a Systematic Review. Lead author, 13:40:50 7 Denise Chew, published in Pediatrics in 2018. 13:40:54 8 And my question as you look at it is simply 13:40:58 9 going to be is that the systematic review that 13:41:00 10 you believe you were referencing in your 13:41:04 11 testimony this morning that you believed you 13:41:06 12 had seen? 13:41:09 13 A. Yes, sir. You could appreciate 13:41:09 14 distinguishing 2017 and 2018. 13:41:17 15 Q. Obviously. No, I just why we 13:41:20 16 wanted to show it to you, all right. Tell me 13:41:23 17 if I am correctly stating well, let me back 13:41:29 18 up and lay a foundation. You are familiar with 13:41:35 19 the principle of clinical equipoise, correct? 13:41:38 20 A. I am, sir. 13:41:41 21 Q. Tell me if I am stating it 13:41:41 22 correctly, the idea being that there is 13:41:50
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D 150	D 160
Page 158 1 A. That's a reasonable summary, sir. 13:42:00	Page 160 1 comparing transgender youth who did not take 13:45:33
1 A. That's a reasonable summary, sir. 13:42:00 2 (Thereupon, Exhibit 25, Consensus 13:42:37	1 comparing transgender youth who did not take 13:45:33 2 puberty-suppressing medication to transgender 13:45:36
3 Parameter: Research Methodologies to Evaluate 13:42:37	3 youth who do take puberty-suppressing 13:45:40
4 Neurodevelopmental Effects of Pubertal Suppression 13:42:37	
5 in Transgender Youth, was marked for purposes of 13:42:37	5 here today such a study would be unethical? 13:45:45
6 identification.) 13:42:37	6 A. No, sir, I cannot. 13:45:48
7 BY MR. FRAMPTON: 13:42:37	7 (Thereupon, Exhibit 26, Evidence 13:46:04
8 Q. Dr. Antommaria, I am handing you 13:42:37	8 Review: Gonadotropin Releasing Hormone Analogues 13:46:04
9 what I have marked as Exhibit 25. It is titled 13:42:38	
10 Consensus Parameter: Research Methodologies to 13:42:43	
11 Evaluate Neurodevelopmental Effects of Pubertal 13:42:45	10 Dysphoria, was marked for purposes of 13:46:04 11 identification.) 13:46:05
12 Suppression in Transgender Youth. The lead 13:42:50	12 BY MR. FRAMPTON: 13:46:05
13 author, Diane Chen. And, Dr. Antommaria, is 13:42:51	13 Q. We are going to go across the 13:46:11
14 this a paper that you are familiar with? 13:43:04	14 Atlantic. Not physically, unfortunately, that 13:46:12
15 A. One minute, sir. 13:43:06	
·	15 would be more fun, but in our minds. I hand 13:46:15
16 Q. I don't think you cited it in your 13:43:18 17 expert report. I am just curious if you are 13:43:21	16 you what I am marking as Exhibit 26, a document 13:46:24
17 expert report. I am just curious if you are 13:43:21 18 familiar with it. 13:43:24	17 entitled Evidence Review: Gonadotropin 13:46:33
	18 Releasing Hormone Analogues For Children and 13:46:38
19 A. It is not an article with which I 13:43:25 20 am familiar, sir. 13:43:28	19 Adolescents With Gender Dysphoria, prepared by 13:46:39
·	20 NICE in October of 2020. Dr. Antommaria, are 13:46:42
1	21 you familiar with that document? 13:46:55
	22 A. I am, sir. 13:46:56
23 would be ethical to conduct a cohort study in 13:43:45	23 Q. Do you understand it to be a 13:46:56
24 which you are comparing again, cohort study, 13:43:50	24 systematic review conducted by NICE on puberty 13:46:59
25 not RCT, cohort study in which you are 13:43:54	25 suppression for children and adolescents with 13:47:03
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1 comparing adolescents receiving cross-sex 13:43:58	1 gender dysphoria? 13:47:05
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1 document, if you would. 13:48:25	1 putting aside your concern about what they mean 13:51:30
2 A. I am on page 14, sir. 13:48:34	2 by children, do you agree that is also an 13:51:33
3 Q. Thank you. All right. They have 13:48:35	3 important question? 13:51:36
4 got under review process well, let me just 13:48:42	4 A. Yes, also evaluating the safety as 13:51:36
5 ask you this: Have you undertaken a close 13:48:51	5 well as the efficacy is important. 13:51:41
6 review of the search methodology that the 13:48:53	6 Q. Looking on page 15, so one more 13:51:43
7 authors of this systematic review undertook? 13:48:57	7 page. Would you agree that in Table 1, they 13:51:54
8 A. Again, I apologize for asking. 13:49:01	8 appear at least to have provided a summary of 13:52:00
9 Can you repeat the question? 13:49:10	9 all of the included studies? 13:52:09
10 Q. Sure. Have you undertaken a close 13:49:11	10 A. That is the title of the table, 13:52:14
11 review of the search methodology employed by 13:49:12	11 sir. 13:52:27
12 the authors of this systematic review? 13:49:14	12 Q. And you don't have any reason to 13:52:27
13 A. And search methodology, meaning 13:49:16	13 doubt that they did that, correct? 13:52:30
14 the specific search strategies - 13:49:24	14 A. I do not, sir. 13:52:31
15 Q. Yes. 13:49:28	15 Q. Let's go to page 4. 13:52:32
16 A that were implemented in the 13:49:29	16 A. I'm sorry, page number what? 13:52:41
17 various databases that they searched? 13:49:31	17 Q. 4, sorry. I let my voice drop. 13:52:42
18 Q. Yes, sir. 13:49:33	18 A. I am on page 4, sir. 13:52:50
19 A. No, I have not, sir. 13:49:34	19 Q. Would you agree that on page 4, 13:52:51
20 Q. So sitting here today, you don't 13:49:35	20 they have identified the critical outcomes that 13:52:59
21 have any criticisms of that process? 13:49:37	21 they have examined in this systematic review? 13:53:07
22 A. As I have said, I haven't reviewed 13:49:45	22 A. So, sir, on page 4, I see the 13:53:10
23 it, so I don't currently have any criticisms. 13:49:46	23 first question about clinical effectiveness. I 13:53:18
24 Q. Let's look at the review 13:49:49	24 see that they are providing greater specificity 13:53:24
25 questions. We are still on page 14. Review 13:49:57	25 as to which aspects of clinical effectiveness 13:53:29
Page 163	Page 165
1 question 1: For children and adolescents with 13:50:01	1 they considered and that they appear to be 13:53:35
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1 question 1: For children and adolescents with 13:50:01 2 gender dysphoria, what is the clinical 13:50:04 3 effectiveness of treatment with GnRH analogs 13:50:07 4 compared with one or a combination of 13:50:12 5 psychological support, social transitioning to 13:50:15 6 the desired gender, or no intervention. Did I 13:50:18 7 read that correctly? 13:50:21 8 A. You did, sir. 13:50:21 9 Q. Do you agree that's an important 13:50:22 10 question for a systematic review to look at? 13:50:26	1 they considered and that they appear to be 13:53:35 2 distinguishing critical and important outcomes. 13:53:41 3 Q. And they then provide the studies 13:53:51 4 that they were able to identify and examine for 13:53:54 5 each of those outcomes, correct? 13:53:57 6 A. Yes, sir. 13:53:59 7 Q. Go to page 76, if you would. 13:54:06 8 A. I am on page 76, sir. 13:54:41 9 Q. And on page 76, Appendix E, which 13:54:43 10 is a set of evidence tables further discussing 13:54:46
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1 A. No, sir, I have not. 13:55:58 1 a level, but I don't you know, I don't 13:59:43 2 Q. Do you recognize it as a tool that 13:56:00 2 necessarily see a comprehensive list of 13:59:47 3 is sometimes cited in the literature? 13:56:05 3 upgrades and downgrades and the specific reason 13:59	ge 168
2 Q. Do you recognize it as a tool that 13:56:00 2 necessarily see a comprehensive list of 13:59:47 3 is sometimes cited in the literature? 13:56:05 2 necessarily see a comprehensive list of 13:59:47	,0 100
3 is sometimes cited in the literature? 13:56:05 3 upgrades and downgrades and the specific reason 13:56	
	:49
4 A. I do, sir. 13:56:06 4 listed. So it would take me more time to 13:59:54	
5 Q. And then if we go to page 99, 13:56:07 5 refamiliarize myself with the table. 13:59:58	
6 if you would. 13:56:14 6 Q. Footnote 2 does say downgraded one 13:59:5)
7 A. I am on page 99, sir. 13:56:21 7 level. The cohort study by de Vries, et al., 14:00:04	
8 Q. All right. And here, they have 13:56:22 8 2011, was assessed as at high risk of bias, 14:00:08	
9 given us GRADE profiles for the various studies 13:56:24 9 poor quality overall, lack of blinding, and no 14:00:10	
10 included, correct? 13:56:30 10 control group, correct? 14:00:13	
11 A. So, again, sir, I haven't looked 13:56:32 11 A. Yes, sir. 14:00:16	
12 at this recently. It's in a different format 13:56:52	
13 in terms of, like, Table 2 only includes a 13:56:58 13 observational let me back up. Observational 14:00:2	l
14 single study instead of all of the studies, 13:57:02 14 studies start out at low quality under the 14:00:24	
15 sir. 13:57:06 15 GRADE methodology, right? 14:00:27	
Q. Well, do you know how many studies 13:57:06 A. Yes, that's the initial category 14:00:28	
17 they identified as included for that particular 13:57:11 17 to which they are assigned. 14:00:32	
18 question? 13:57:15 28 Q. And if it was downgraded one 14:00:32	
19 A. No, sir, I don't. I am just in 13:57:15 19 level, that would take it to very low, correct? 14:00:34	
20 looking at this briefly at this time, I am just 13:57:26 20 A. Correct. 14:00:36	
21 noting that the format of the table is 13:57:29 21 Q. And that appears to be what they 14:00:37	
22 significantly different than the evidence 13:57:34 22 are reflecting in this table of the de Vries 14:00:40	
23 tables presented in Appendix E. 13:57:37 23 study, correct? 14:00:47	
Q. Right. But in Appendix G, they 13:57:41 24 A. Oh, and as I said, I am just 14:00:47	
25 have given an evaluation of risk of bias, 13:57:52 25 unclear as to why the far right column is 14:00:51	
	ge 169
1 indirectness, inconsistency, and imprecision 13:57:57 1 labeled as certainty as opposed to grade of the 14:00:53	
2 for each of the studies, correct? 13:58:00 2 evidence. 14:00:56	
3 A. They do, sir. There would be a 13:58:01 3 Q. All right. Go to page 74. 14:00:56	
4 fifth category, if I recall correctly. And 13:58:17 4 A. Yes, sir. 14:01:21 5 it's not clear to me, again, not having 13:58:21 5 Q. This appears to be a table of 14:01:21	
+ 3 its not clear to the again not having $+$ 13.38.71 $+$ 3 $+$ 3 $+$ 1 this appears to be a table of $+$ 14.01.71	
6 reviewed this recently why that fifth category 13:58:26 6 excluded studies; is that correct? 14:01:24	
6 reviewed this recently why that fifth category 13:58:26 6 excluded studies; is that correct? 14:01:24 7 isn't included. 13:58:29 7 A. Yes, sir. 14:01:26	
6 reviewed this recently why that fifth category 13:58:26 7 isn't included. 13:58:29 8 Q. Right. We don't see publication 13:58:29 6 excluded studies; is that correct? 14:01:24 7 A. Yes, sir. 14:01:26 8 Q. So they have listed the 14:01:29	
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Page 170	Page 172
1 look at this table and have some idea as to 14:02:33	1 right? 14:05:28
2 what their reasons were, correct? 14:02:35	2 A. I have, sir. 14:05:28
3 A. Correct, sir. 14:02:37	3 Q. And similar to the last one we 14:05:29
4 Q. All right. Let's flip back to 14:02:37	4 looked at, you don't have any criticisms of 14:05:36
5 page 4. 14:02:40	5 their search strategy or methodology in 14:05:40
6 A. I am on page 4, sir. 14:02:47	6 conducting this systematic review, do you? 14:05:43
7 Q. Thank you. Directly under 14:02:48	7 A. Not at this time, sir. 14:05:45
8 critical outcomes, it says: The critical 14:02:49	8 Q. Okay. Let's go to page 14. So 14:05:46
9 outcomes for decision making are the impact on 14:02:53	9 review question 1: For children and 14:06:07
10 gender dysphoria, mental health, and quality of 14:02:56	10 adolescents with gender dysphoria, what is the 14:06:12
11 life. The quality of evidence for these 14:02:58	11 clinical effectiveness 14:06:14
12 outcomes was assessed as very low certainty 14:03:01	12 A. I'm sorry. 14:06:15
13 using modified GRADE. Did I read that 14:03:04	13 Q. I am in the are we in the wrong 14:06:16
14 correctly? 14:03:06	14 place? I'm sorry. 14:06:19
15 A. You did, sir. 14:03:07	15 A. I am on page 14. I don't see 14:06:20
16 Q. So they do claim to be using some 14:03:07	16 review questions. 14:06:21
17 form of the GRADE methodology, correct? 14:03:11	17 Q. I think it's at the very bottom. 14:06:22
18 A. Yes, sir. 14:03:13	18 A. Oh, thank you so much. 14:06:25
19 Q. And have you done any research on 14:03:14	19 Q. No worries. It's cut off, which 14:06:26
20 NICE to understand how that particular 14:03:18	20 makes it a little bit more difficult. All 14:06:29
21 organization might modify the GRADE 14:03:21	21 right. So No. 1: For children and adolescents 14:06:31
22 methodology? 14:03:26	22 with gender dysphoria, what is the clinical 14:06:35
A. So, sir, I am not sure whether the 14:03:26	23 effectiveness of treatment with 14:06:38
24 reference to modify GRADE is a modification 14:03:32	24 gender-affirming hormones compared with one or 14:06:41
25 that NICE made or it is one of the various 14:03:35	25 a combination of psychological support, social 14:06:44
Page 171	Page 173
Page 171 1 updated versions of the GRADE methodology. 14:03:39	Page 173 1 transitioning to the desired gender, or no 14:06:47
1 updated versions of the GRADE methodology. 14:03:39	1 transitioning to the desired gender, or no 14:06:47
1 updated versions of the GRADE methodology. 14:03:39 2 Q. Fair enough. That assessment of 14:03:41	1 transitioning to the desired gender, or no 14:06:47 2 intervention. And, Dr. Antommaria, presumably 14:06:51
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44 (Pages 170 - 173)

Page 174	Page 176
1 A. It does, sir. 14:07:59	1 (Pause in proceedings.) 14:11:17
2 Q. Okay. And on page 72, does it 14:07:59	2 MR. FRAMPTON: All right. Let's go 14:15:27
3 appear that one of the excluded studies is the 14:08:13	3 back on the record. 14:15:27
4 de Vries 2014 study in Pediatrics? 14:08:18	4 BY MR. FRAMPTON: 14:15:27
5 A. It does, sir. 14:08:23	5 Q. All right. Dr. Antommaria, would 14:15:27
6 Q. Okay. And they have provided the 14:08:26	6 you go to page 6, please? 14:15:27
7 reasons why they excluded that study, correct? 14:08:28	7 A. I am on page 6, sir. 14:15:27
8 A. I am just reading the reasons, 14:08:30	8 Q. Great. At the top of that page, 14:15:27
9 sir. 14:08:42	9 do you see a discussion of a study by Kuper, et 14:15:27
10 Q. Sure. 14:08:42	10 al., published in 2020? 14:15:27
11 A. Yes, they provide reasons for 14:08:42	11 A. Yes, sir. 14:15:27
12 excluding the study, sir. 14:08:45	12 Q. Is that a study you are familiar 14:15:27
Q. And that was the study the 14:08:46	13 with? 14:15:28
14 Endocrine Society cited to support its 14:08:51	14 A. Sir, do you know where the full 14:15:28
15 recommendation for the use of cross-sex 14:08:58	15 reference to that article is? 14:15:28
16 hormones, correct? 14:09:00	16 Q. Yeah. Go to the very last page, 14:15:28
17 A. It was one of the studies, sir. 14:09:01	17 it's at the top. 14:15:28
Q. And the other was an NHS document; 14:09:05	18 A. I would need to look at the 14:15:28
19 is that right? 14:09:09	19 article itself. 14:15:28
20 A. For that single sentence, yes. 14:09:09	20 (Thereupon, Exhibit 28, Body 14:15:40
21 Q. Go to page 4, please. 14:09:22	21 Dissatisfaction and Mental Health Outcomes of 14:15:40
22 MR. CHEEK: Which page? 14:09:32	22 Youth on Gender-Affirming Hormone Therapy, was 14:15:4
23 MR. FRAMPTON: 4. Sorry, I let my 14:09:33	23 marked for purposes of identification.) 14:15:52
24 voice drop again. 14:09:35	24 BY MR. FRAMPTON: 14:15:52
25 THE WITNESS: I am on page 4, sir. 14:09:37	25 Q. I hand you what I am marking as 14:15:56
Page 175	Page 177
1 BY MR. FRAMPTON: 14:09:38	1 Exhibit 28. It's a study entitled 14:15:57
2 Q. All right. And it looks like in 14:09:38	2 Testicular wait a minute, that's the wrong 14:16:03
3 this review as well they have identified their 14:09:44	2 W/L-4 J: J I L J 0
-	3 one. What did I hand you? 14:16:08
4 critical outcomes and listed the studies that 14:09:49	4 A. You handed me the Kuper study, 14:16:10
4 critical outcomes and listed the studies that 14:09:49 5 were relevant to each of their critical 14:09:52	4 A. You handed me the Kuper study, 14:16:10 5 sir. 14:16:12
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4 critical outcomes and listed the studies that 14:09:49 5 were relevant to each of their critical 14:09:52 6 outcomes, correct? 14:09:54 7 A. Yes, sir. 14:09:54 8 Q. And you have not reviewed these to 14:10:06 9 determine whether you agree that they picked 14:10:09 10 out the most pertinent studies for each 14:10:11 11 outcome, have you? 14:10:14 12 A. I have not reviewed it for that 14:10:14 13 purpose, sir. 14:10:18 14 Q. And would the same be true for the 14:10:49 15 studies listed for the important outcomes? 14:10:51 16 A. Would the same what be true, sir? 14:10:55 17 Q. Let me just ask it again. With 14:11:00 18 respect to the studies they have listed 14:11:01 19 concerning what they have identified as 14:11:03 20 important outcomes, you have not gone and 14:11:05 21 determined if you agree or disagree with their 14:11:08 22 list of included studies? 14:11:11	4 A. You handed me the Kuper study, 14:16:10 5 sir. 14:16:12 6 Q. That's what I meant to hand you. 14:16:12 7 I was looking at the wrong tab. All right. I 14:16:13 8 handed you a study called Body Dissatisfaction 14:16:16 9 and Mental Health Outcomes of Youth on 14:16:18 10 Gender-Affirming Hormone Therapy, correct? 14:16:21 11 A. You did, sir. 14:16:22 12 Q. All right. It appears to be 14:16:24 13 the you are calling do we pronounce her 14:16:30 14 name Kuper? Is that your understanding, or do 14:16:35 15 you know? 14:16:38 16 A. I don't know, sir. 14:16:38 17 Q. All right. In any event 14:16:39 18 A. I am happy to refer to it as the 14:16:44 19 Kuper study, sir. 14:16:46 20 Q. I don't know, either, so we will 14:16:47 21 do our best. The question was this is the 14:16:48 22 study that we just looked at that was cited in 14:16:51

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1 therapy. 14:17:04	1 interventions are more long-term risks, risks 14:20:08
2 Q. Yes, okay. You asked to see the 14:17:04	2 that don't necessarily manifest in 1 to 5.8 14:20:13
3 whole thing. Is this a study that you are 14:17:08	3 years? 14:20:18
4 familiar with? 14:17:10	4 MR. CHEEK: Objection, form. 14:20:18
5 A. I may have seen it in the past. I 14:17:10	5 THE WITNESS: There may be risks that 14:20:24
6 am not particularly familiar with it, sir. 14:17:14	6 become apparent after 5.8 years that weren't 14:20:26
7 Q. All right. We won't mess with it 14:17:16	7 apparent prior to that time. 14:20:30
8 then, that's fine. Put it aside. All right. 14:17:18	8 BY MR. FRAMPTON: 14:20:31
9 Go back to the NICE review, the 14:17:32	9 Q. Well, 5.8 years is not typically 14:20:32
10 Gender-Affirming Hormones For Children and 14:17:3	
11 Adolescents With Gender Dysphoria. 14:17:40	11 result in someone having a heart attack or 14:20:39
MR. CHEEK: So you are referring to 14:17:42	12 stroke or something like that; is that correct? 14:20:42
13 Defendants' Exhibit 27? 14:17:44	13 A. There would be cardiovascular 14:20:44
14 MR. FRAMPTON: Yes. 14:17:46	14 risks which appeared later. There are also to 14:20:54
15 MR. CHEEK: Thank you. 14:17:47	15 the best of my knowledge adult studies with a 14:21:01
16 BY MR. FRAMPTON: 14:17:48	16 longer period of follow-up to look at those 14:21:03
17 Q. Go to page 13, if you would. I 14:17:59	17 risks in adult individuals, sir. 14:21:05
18 don't know if I already told you that or not. 14:18:02	18 Q. And they found increased 14:21:06
19 A. I am on page 13, sir. 14:18:08	19 mortality, have they not, or do you know? 14:21:12
Q. Great. The second paragraph under 14:18:10	20 A. I believe that some of them have 14:21:16
21 discussion: All the studies included in the 14:18:12	21 found increased mortality, sir, although not 14:21:20
22 evidence review are uncontrolled observational 14:18:15	22 necessarily primarily or solely associated with 14:21:26
23 studies which are subject to bias and 14:18:18	23 cardiovascular risks. 14:21:31
24 confounding and were a very low certainty using 14:18:21	Q. Some have found increased 14:21:34
25 modified GRADE. A fundamental limitation of 14:18:2	3 25 mortality associated with cardiovascular risks, 14:21:39
Page 1	79 Page 181
1 all the controlled studies included in this 14:18:26	1 have they not? Do you know? 14:21:42
2 review is that any changes in scores from 14:18:28	2 A. So my specific recall is that some 14:21:43
3 baseline to follow-up could be attributed to a 14:18:30	3 of the studies that have looked at long-term 14:21:51
4 regression to the mean. Did I read that 14:18:33	4 mortality attributed a significant component of 14:21:54
5 correctly? 14:18:37	5 long-term mortality to things such as HIV. And 14:21:59
6 A. Yes, you did, sir. 14:18:37	6 so I would need to look at the specific 14:22:06
7 Q. Do you agree that a reasonable 14:18:40	7 contribution that cardiovascular risk made to 14:22:11
8 scientist could share that concern about the 14:18:41	8 long-term mortality. 14:22:14
9 uncontrolled observational studies? 14:18:47	9 Q. And that wasn't something you 14:22:15
10 A. That is a possible explanation for 14:18:49	10 dealt with in your report, correct? 14:22:18
11 the results, sir. 14:18:54	11 A. So in my report, I discuss the 14:22:20
12 Q. Go to page 14. I'm sorry, let's 14:18:55	12 relative risks and benefits of gender-affirming 14:22:27
13 go to 13 again. I was wrong. Let's just read 14:19:29	13 health care and opine that the potential 14:22:30
14 the next paragraph there. The included studies 14:19:33	14 benefits may outweigh the potential risks, sir. 14:22:34
15 have relatively short follow-up, with an 14:19:37	15 And so that would be one of the considerations 14:22:37
16 average duration of treatment with 14:19:39	16 of the potential risks. 14:22:39
17 gender-affirming hormones between around 1 year 14:19:4	0 17 Q. Let's go to the next paragraph on 14:22:40
18 and 5.8 years. Further studies with a longer 14:19:43	18 page 13. Most studies included in this review 14:22:45
19 follow-up are needed to determine the long-term 14:19:47	19 did not report comorbidities, physical or 14:22:52
20 effect of gender-affirming hormones for 14:19:50	20 mental health, and no study reported 14:22:55
21 children and adolescents with gender dysphoria. 14:19:52	21 concomitant treatments in detail. Because of 14:22:58
22 Did I read that correctly? 14:19:56	22 this, it is not clear whether any changes seen 14:23:01
23 A. You did, sir. 14:19:57	23 were due to gender-affirming hormones or other 14:23:04
O. Do you agree that some of the 14:19:58	24 treatments the participants may have received. 14:23:08
Q. Do you agree that some of the 14:19:58 25 risks associated with these hormonal 14:20:02	25 Did I read that correctly? 14:23:12

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1 A. You did, sir. 14:23:13	1 Q. And at least with respect to the 14:26:54
2 O. And other treatments the 14:23:14	2 critical outcomes, the NICE review rated the 14:27:00
3 participants may have received could include 14:23:17	3 quality of evidence as very low, correct? 14:27:04
4 psychiatric medication, could it not? 14:23:20	4 A. For we have just reviewed the 14:27:06
5 A. That is one of the possible other 14:23:22	5 efficacy, we haven't looked at the safety. But 14:27:14
6 treatments, sir. 14:23:26	6 yes, relative to the efficacy of 14:27:18
7 Q. Another possible treatment could 14:23:27	7 gender-affirming hormones and the efficacy and 14:27:21
8 be some form of mental health therapy; is that 14:23:29	8 I believe safety of GnRH agonist, yes, it was 14:27:25
9 correct? 14:23:32	9 very low. 14:27:31
10 A. Yes, sir. 14:23:32	Q. So would you agree there is at 14:27:32
11 Q. Go back to page 4. 14:23:34	11 least some degree of discordance there? 14:27:33
12 A. I am on page 4, sir. 14:23:55	12 A. They rated the quality of the 14:27:35
Q. Under critical outcomes, using 14:23:57	13 evidence differently, sir. 14:27:39
14 modified GRADE, this review rated the quality 14:23:59	Q. And would you take the position 14:27:41
15 of evidence on clinical effectiveness as very 14:24:03	15 that no reasonable scientist could agree with 14:27:47
16 low certainty, correct? 14:24:13	16 the NICE reviews on that point and disagree 14:27:52
17 A. Yes, sir. 14:24:14	17 with the Endocrine Society? 14:27:55
18 Q. And in the GRADE methodology, 14:24:24	18 A. So, sir, I thought that part of 14:28:00
19 there is a qualitative difference between low 14:24:27	19 our conversation earlier today is that these 14:28:04
20 and very low quality evidence, correct? 14:24:34	20 were matters of judgment and that it would be a 14:28:09
21 A. That is why they have two 14:24:37	21 matter of judgment as to whether the evidence 14:28:16
22 different categories, sir. 14:24:41	22 is of low or very low quality. 14:28:20
Q. I assumed so, that's why I asked 14:24:41	Q. All right. Go back to Exhibit 15, 14:28:22
24 the question. And so when you are formulating 14:24:43	24 which is the Cass Review. 14:28:29
25 a treatment recommendation, it matters whether 14:24:47	25 A. One moment, sir. I have it, sir. 14:28:54
Page 183	Page 185
Page 183 1 the evidence base is low or very low quality, 14:24:54	Page 185 1 Q. All right. Let's look at page 14:29:01
1 the evidence base is low or very low quality, 14:24:54	1 Q. All right. Let's look at page 14:29:01
1 the evidence base is low or very low quality, 14:24:54 2 correct? 14:24:57	1 Q. All right. Let's look at page 14:29:01 2 I mean, I'm sorry, paragraph 4.15. 14:29:13
1 the evidence base is low or very low quality, 14:24:54 2 correct? 14:24:57 3 A. The quality of the evidence is one 14:24:57 4 of the factors that is considered in making 14:25:02 5 recommendations, sir. 14:25:06	1 Q. All right. Let's look at page 14:29:01 2 I mean, I'm sorry, paragraph 4.15. 14:29:13 3 Clinicians 14:29:19 4 A. Can you tell me what page number 14:29:19 5 that is? 14:29:21
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1 the evidence base is low or very low quality, 14:24:54 2 correct? 14:24:57 3 A. The quality of the evidence is one 14:24:57 4 of the factors that is considered in making 14:25:02 5 recommendations, sir. 14:25:06 6 Q. Would you agree that there is 14:25:07 7 discordance between the Endocrine Society's 14:25:13	1 Q. All right. Let's look at page 14:29:01 2 I mean, I'm sorry, paragraph 4.15. 14:29:13 3 Clinicians 14:29:19 4 A. Can you tell me what page number 14:29:19 5 that is? 14:29:21 6 Q. I'm sorry, 47. 14:29:21 7 A. 4.15, sir? 14:29:30
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1 Q. And do you have any doubt that the 14:30:16	1 Q. They did not promote a policy 14:33:42
2 authors conducting the Cass Review found a lack 14:30:17	2 position, correct? 14:33:44
3 of consensus among the relevant clinicians? 14:30:19	3 A. So this is a at the point of 14:33:44
4 A. So I am not aware of the specific 14:30:33	4 issuing an interim report, the interim report 14:33:52
5 methodology that they utilized in order to 14:30:36	5 does not contain a policy position relative to 14:33:58
6 ascertain that conclusion. But given the 14:30:39	6 the use of puberty blockers and 14:34:02
7 general credibility of Dr. Cass and the British 14:30:42	7 gender-affirming hormone therapy. It makes 14:34:06
8 medical profession, I would not have a prima 14:30:46	8 other recommendations for the organization of 14:34:11
9 facie reason to think that this is inaccurate. 14:30:49	9 services to individuals with gender dysphoria, 14:34:15
Q. Fair enough. All right. Go to 14:30:52	10 but it does not make recommendations either for 14:34:19
11 page 63. 14:30:54	11 or against the use of puberty blockers or 14:34:22
12 A. Yes, sir. 14:31:02	12 gender-affirming hormone therapy. 14:34:29
13 Q. 5.21. The lack of available high 14:31:03	Q. And they tell us the reason for 14:34:30
14 level evidence was reflected in the recent NICE 14:31:08	14 that is inconclusive evidence, correct? 14:34:32
15 review into the use of puberty blockers and 14:31:12	15 A. So that's what this sentence says. 14:34:33
16 feminizing/masculinizing hormones commissioned 14:31:16	16 I don't one might still be able to take a 14:34:50
17 by NHS England with the evidence being too 14:31:19	17 policy position relative to there being 14:34:55
18 inconclusive to form the basis of a policy 14:31:23	18 inconclusive evidence. That's why I am having 14:34:58
19 position. Did I read that correctly? 14:31:26	19 difficulty interpreting this statement. We 14:35:00
20 A. You did, sir. 14:31:29	20 frequently in medicine make have to make 14:35:03
Q. Would you agree that she is 14:31:30	21 medical judgments and decisions on the 14:35:06
22 saying well, this interim review based on 14:31:38	22 available evidence. 14:35:09
23 what they deemed to be too inconclusive in 14:31:46	Q. Making a judgment for a particular 14:35:11
24 evidence did not make specific treatment 14:31:49	24 patient is different from making a clinical 14:35:15
25 recommendations, correct? 14:31:53	25 practice guideline recommendation, correct, 14:35:19
Page 187	Page 189
1 A. My understanding of the interim 14:31:54	1 that would apply to many patients? 14:35:24
2 report is that the Cass Review does not make 14:32:02	2 A. They are distinct but related, 14:35:25
3 specific recommendations relative to the use of 14:32:07	3 sir. 14:35:32
4 so-called puberty blockers or gender-affirming 14:32:10	4 Q. All right. Let's go 14:35:33
5 hormone therapy for adolescents. 14:32:12	5 A. May I set this aside, sir? 14:35:52
6 Q. They believed in this interim 14:32:16	6 Q. Yes. 14:35:54
7 report that the evidence was too inconclusive 14:32:19	7 (Thereupon, Exhibit 29, Care of 14:35:55
8 to form the basis of a policy position; is that 14:32:21	8 Children and Adolescents With Gender Dysphoria, 14:35:55
9 correct? 14:32:24	9 was marked for purposes of identification.) 14:36:05
10 A. So that's what the sentence that 14:32:24	10 BY MR. FRAMPTON: 14:36:05
11 you read states, sir. 14:32:32	10 D1 MR. FRAMFION. 14.30.03
	11 Q. I show you what I am marking as 14:36:09
Q. Would you interpret that as them 14:32:33	
	11 Q. I show you what I am marking as 14:36:09
Q. Would you interpret that as them 14:32:33	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50 18 approach to rating the quality of the evidence. 14:32:54	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31 18 be? 14:36:33
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50 18 approach to rating the quality of the evidence. 14:32:54 19 We haven't discussed the GRADE approach to making 14:32:59	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31 18 be? 14:36:33 19 A. I understand it to be an official 14:36:33
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50 18 approach to rating the quality of the evidence. 14:32:54 19 We haven't discussed the GRADE approach to making 14:32:59 20 recommendations. It's not clear to me at this 14:33:03	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31 18 be? 14:36:33 19 A. I understand it to be an official 14:36:33 20 English language translation of the summary of 14:36:39
Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50 18 approach to rating the quality of the evidence. 14:32:54 19 We haven't discussed the GRADE approach to making 14:32:59 20 recommendations. It's not clear to me at this 14:33:03 21 point that the Cass Review has under has 14:33:10	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31 18 be? 14:36:33 19 A. I understand it to be an official 14:36:33 20 English language translation of the summary of 14:36:39 21 the Swedish National Board of Health and 14:36:48
Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50 18 approach to rating the quality of the evidence. 14:32:54 19 We haven't discussed the GRADE approach to making 14:32:59 20 recommendations. It's not clear to me at this 14:33:03 21 point that the Cass Review has under has 14:33:10 22 undertaken the necessary steps to formulate a 14:33:15	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31 18 be? 14:36:33 19 A. I understand it to be an official 14:36:33 20 English language translation of the summary of 14:36:39 21 the Swedish National Board of Health and 14:36:48 22 Welfare's report on the care of adolescents and 14:36:51
12 Q. Would you interpret that as them 14:32:33 13 saying that there is uncertainty as to what the 14:32:37 14 proper policy should be? 14:32:40 15 MR. CHEEK: Objection, speculation. 14:32:43 16 THE WITNESS: So, sir, we have spent 14:32:44 17 a considerable amount of time discussing the GRADE 14:32:50 18 approach to rating the quality of the evidence. 14:32:54 19 We haven't discussed the GRADE approach to making 14:32:59 20 recommendations. It's not clear to me at this 14:33:03 21 point that the Cass Review has under has 14:33:10 22 undertaken the necessary steps to formulate a 14:33:23	11 Q. I show you what I am marking as 14:36:09 12 Defendants' Exhibit 29, a document entitled 14:36:11 13 Care of Children and Adolescents With Gender 14:36:20 14 Dysphoria. And, Dr. Antommaria, are you 14:36:21 15 familiar with this document? 14:36:27 16 A. I am, sir. 14:36:28 17 Q. And what do you understand it to 14:36:31 18 be? 14:36:33 19 A. I understand it to be an official 14:36:33 20 English language translation of the summary of 14:36:39 21 the Swedish National Board of Health and 14:36:48 22 Welfare's report on the care of adolescents and 14:36:51 23 children with gender dysphoria, sir. 14:36:55

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1 Q. The last paragraph begins: A 14:37:01	1 are double printed. Can you give me the 14:39:59
2 systematic review published in 2022 by the 14:37:07	2 paragraph number, sir? 14:40:04
3 Swedish Agency For Health Technology Assessment 14:37:11	3 Q. Yeah, I am looking at footnote 14:40:06
4 and Assessment of Social Services, endnote 2, 14:37:16	4 looking at footnote 41, but the second page of 14:40:12
5 shows that the state of knowledge largely 14:37:20	5 footnote 41. 14:40:17
6 remains unchanged compared to 2015. Did I read 14:37:21	6 A. So I'm sorry, the copy of the 14:40:27
7 that correctly? 14:37:24	7 report that you gave me has the references 14:40:29
8 A. You did, sir. 14:37:25	8 included in the paragraph and not footnotes. 14:40:36
9 Q. All right. So they are 14:37:26	9 Q. Let me see it. We will mark a new 14:40:39
10 purporting they purport to be citing to a 14:37:29	10 one. 14:40:55
11 systematic review published in 2022, correct? 14:37:32	11 MR. CHEEK: For clarity, Defense 14:40:57
	12 Exhibit No. 30 is Dr. Antommaria's declaration 14:40:59
14 report, which oddly enough this far into our 14:37:45 15 deposition I have not yet marked, but we will 14:37:47	
	,
16 do that. 14:37:49 17 (Thereupon, Exhibit 30, Expert 14:37:50	16 (Thereupon, Exhibit 31, 14:41:05 17 PLaintiff-Intervenor United States' Disclosure of 14:41:05
18 Declaration of Armand H. Antommaria, M.D., Ph.D., 14:37:50	18 Expert Testimony of Armand H. Matheny Antommaria, 14:41:05
19 FAAP, HEC-C, was marked for purposes of 14:37:50	19 M.D., Ph.D., FAAP, HEC-C, was marked for purposes 14:41:05
20 identification.) 14:38:09	20 of identification.) 14:41:05 21 BY MR. FRAMPTON: 14:41:05
21 BY MR. FRAMPTON: 14:38:09	
22 Q. I show you what I am marking as 14:38:09 23 Exhibit 30. And, Dr. Antommaria, is Exhibit 30 14:38:11	22 Q. All right. 31 is your expert 14:41:05
	23 report. And hopefully, now you can turn to 14:41:07 24 page 19. 14:41:15
24 your expert report in this case? 14:38:27 25 A. One moment, sir. 14:38:29	25 A. All right. I am on page 19, sir. 14:41:20
,	
Page 191 1 O. Yeah. 14:38:30	Page 193
	1 Q. Great. Do you see in that 14:41:22
2 A. It appears to be, sir. 14:38:45 3 MR. CHEEK: Hal, this is let me 14:38:49	2 footnote, it's one, two, three, four lines 14:41:27
3 MR. CHEEK: Hal, this is let me 14:38:49 4 just can you look and make sure that the one we 14:38:54	3 down I'm sorry, yeah, three lines down: 14:41:29
	4 Note the Swedish Agency for Health Technology 14:41:41 5 Assessment and Assessment of Social Services. 14:41:44
	,
	6 SBU, gender dysphoria in children and 14:41:49
	7 adolescents, an inventory of the literature, 14:41:52
8 THE WITNESS: So the part where it 14:39:06	8 and then there is a citation, is a scoping 14:41:53 9 review. Do you see that language? 14:41:56
9 becomes unstapled looks like it has the relevant 14:39:08 10 pages. 14:39:12	9 review. Do you see that language? 14:41:56 10 A. Yes, sir. 14:41:59
11 MR. CHEEK: But it's a complete copy 14:39:13	11 Q. And what is the date of that 14:42:01
12 of your expert report? The reason I am asking is 14:39:15	12 scoping review document? 14:42:04
13 we have got an extra page here. 14:39:19	13 A. Here, it's reported as 2019, sir. 14:42:09
14 THE WITNESS: What is the page 14:39:21	14 Q. Okay. Go back to the Swedish 14:42:11
15 titled, 50 what? It's like double printed. 14:39:23	15 English language summary. 14:42:19
16 MR. CHEEK: I don't know. 14:39:26	16 A. Yes, sir. 14:42:20
17 THE WITNESS: So that page is in 14:39:38	17 Q. And go to endnote 2, which is the 14:42:20
18 here. 14:39:40	18 systematic review that they appear to be 14:42:27
19 MR. FRAMPTON: So it was in one of 14:39:43	19 citing. 14:42:30
20 yours. 14:39:44	20 A. Yes, sir. 14:42:30
21 BY MR. FRAMPTON: 14:39:44	21 Q. And what is the date on that 14:42:30
22 Q. All right. Dr. Antommaria, flip 14:39:45	22 document? 14:42:32
23 to page 19. And I am looking at the 14:39:46	23 A. 2022, sir. 14:42:32
0	25 A. 2022, Str. 14.42.32
24 footnote 14:39:56	24 Q. Is it possible, Dr. Antommaria, 14:42:35
24 footnote 14:39:56 25 A. So I apologize, the page numbers 14:39:57	

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Page 194	Page 196
1 scoping review in 2019 and a systematic review 14:42:39	1 Q. Flip to page 4, please. 14:46:06
2 in 2022? 14:42:42	2 MR. CHEEK: And we are still on 14:46:57
3 A. That is a possibility, sir. 14:42:43	3 MR. FRAMPTON: We are on the 14:46:59
4 Q. Do you know one way or the other? 14:42:46	4 Swedish 14:47:00
5 A. Not at the present moment, sir. 14:42:52	5 MR. CHEEK: 29, right? 14:47:01
6 Q. And do you know whether the 2022 14:42:57	6 MR. FRAMPTON: Yes. 14:47:02
7 systematic review assessed the quality of 14:43:10	7 THE WITNESS: I am on page 4, sir. 14:47:03
8 evidence based on the GRADE methodology? 14:43:13	8 BY MR. FRAMPTON: 14:47:05
9 A. I do not, sir. You will note that 14:43:15	9 Q. All right. Do you see about 14:47:10
10 even in this English language translation of 14:43:35	10 halfway down the page, it says: To ensure that 14:47:12
11 the summary, the title of that document is 14:43:39	11 new knowledge is gathered, the NBHW further 14:47:16
12 given in Swedish. And so one of the 14:43:42	12 deems that treatment with GnRH analogs and sex 14:47:19
13 difficulties of assessing this literature is 14:43:48	13 hormones for young people should be provided 14:47:23
14 not all of the material is available in 14:43:52	14 within a research context which does not 14:47:24
15 official English translation. 14:43:55	15 necessarily imply the use of randomized control 14:47:26
Q. And have you made an effort to 14:43:57	16 trials, RCTs. Did I read that correctly? 14:47:30
17 obtain an English translation of the document 14:44:04	17 A. You did, sir. 14:47:33
18 reflected in endnote 2 of the Swedish language 14:44:08	18 Q. So the Swedish government is 14:47:34
19 summary? 14:44:14	19 concluding that going forward, puberty blockers 14:47:38
20 A. I have made an effort to ascertain 14:44:14	20 and cross-sex hormones should be provided only 14:47:41
21 all of the relevant European literature. I 14:44:21	21 within a research context; is that correct? 14:47:43
22 have not independently commissioned English 14:44:27	22 A. That is correct, sir. 14:47:45
23 translations of any of the literature, sir. 14:44:32	Q. And you don't consider that 14:47:48
Q. Have you run any of them through 14:44:35	24 recommendation unethical, do you? 14:47:52
25 Google Translate? 14:44:37	A. One minute, I am just reading the 14:47:55
Page 195	Page 197
1 A. No, sir. I have colleagues who 14:44:42	1 paragraphs. 14:48:05
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10 10 of the evidence rather than just a scoping 14:45:12	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03 10 in this guideline. So I take it that they 14:49:07
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10 10 of the evidence rather than just a scoping 14:45:12 11 review? 14:45:15	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03 10 in this guideline. So I take it that they 14:49:07 11 considered that treatment is sufficiently 14:49:10
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10 10 of the evidence rather than just a scoping 14:45:12 11 review? 14:45:15 12 A. That is a possibility, sir. 14:45:16	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03 10 in this guideline. So I take it that they 14:49:07 11 considered that treatment is sufficiently 14:49:10 12 important that it should go on prior to 14:49:12
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10 10 of the evidence rather than just a scoping 14:45:12 11 review? 14:45:15 12 A. That is a possibility, sir. 14:45:16 13 Q. And it's also possible that 14:45:21	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03 10 in this guideline. So I take it that they 14:49:07 11 considered that treatment is sufficiently 14:49:10 12 important that it should go on prior to 14:49:12 13 research studies being in place. 14:49:18
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10 10 of the evidence rather than just a scoping 14:45:12 11 review? 14:45:15 12 A. That is a possibility, sir. 14:45:16 13 Q. And it's also possible that 14:45:21 14 systematic review may rate the quality of 14:45:24	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03 10 in this guideline. So I take it that they 14:49:07 11 considered that treatment is sufficiently 14:49:10 12 important that it should go on prior to 14:49:12 13 research studies being in place. 14:49:18 14 Q. As soon as they get a research 14:49:21
1 A. No, sir. I have colleagues who 14:44:42 2 conduct research in regard to patients with 14:44:45 3 what might be referred to as low health 14:44:50 4 literacy, and there is good evidence in the 14:44:54 5 literature that Google Translate is not a 14:44:56 6 reliable source of translation of medical 14:44:59 7 documentation. 14:45:02 8 Q. So it is possible this Swedish 14:45:02 9 recommendation is based on a systematic review 14:45:10 10 of the evidence rather than just a scoping 14:45:12 11 review? 14:45:15 12 A. That is a possibility, sir. 14:45:16 13 Q. And it's also possible that 14:45:21 14 systematic review may rate the quality of 14:45:24 15 evidence using the GRADE methodology? 14:45:27	1 paragraphs. 14:48:05 2 Q. Sure. 14:48:06 3 A. So, in general, I don't, sir. I 14:48:42 4 will note that later in the paragraph, it does 14:48:46 5 state until the research study is in place that 14:48:48 6 NBHW deems that relevant treatment with GnRH 14:48:53 7 analogs and sex hormones may be given in 14:48:59 8 exceptional cases in accordance with the 14:49:01 9 updated recommendations and criteria described 14:49:03 10 in this guideline. So I take it that they 14:49:07 11 considered that treatment is sufficiently 14:49:10 12 important that it should go on prior to 14:49:12 13 research studies being in place. 14:49:18 14 Q. As soon as they get a research 14:49:21 15 protocol, everything is going to be in the 14:49:23
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50 (Pages 194 - 197)

D 100	D 200
Page 198 1 outweigh the possible benefits and that the 14:49:57	Page 200 Q. In reviewing what was available in 14:52:49
2 treatment should be offered only in exceptional 14:50:00	2 English from the Swedish report, did you not 14:52:59
3 cases. Did I read that correctly? 14:50:02	3 come across this document? 14:53:04
4 A. You did, sir. 14:50:03	4 A. No, I did not, sir. 14:53:06
5 Q. And does that suggest that they 14:50:04	5 Q. It appears to be a table of 14:53:08
6 believe there is significant uncertainty as to 14:50:10	6 evidence of included studies; is that at least 14:53:17
7 the benefits and risks of these treatments? 14:50:13	7 what it appears to be? 14:53:22
8 MR. CHEEK: Objection, speculation. 14:50:19	8 A. Sir, I can't read the may I? 14:53:23
9 THE WITNESS: So, sir, the difficulty 14:50:21	9 Q. Uh-huh. 14:53:47
10 with this document is that this is a six-page 14:50:22	10 A. So, sir, it's hard for me to know 14:54:11
11 summary of a substantially longer document which 14:50:29	
12 presumably would go into greater detail about that 14:50:33	12 which you pointed to earlier. That title in 14:54:17
13 judgment. But because that is not currently 14:50:40	13 Swedish is different than the title in the top 14:54:22
14 available in an official English translation, it's 14:50:48	14 right-hand corner of this. So so it's hard 14:54:24
15 hard to fully assess the justification for the 14:50:51	15 for although this is dated 2002, it's hard 14:54:34
16 statement, sir. 14:50:54	16 for me to at this point, not knowing from 14:54:38
17 BY MR. FRAMPTON: 14:50:55	17 where this was downloaded or other information, 14:54:40
18 Q. The statement certainly suggests 14:50:56	18 it's hard for me to know what it is, sir. 14:54:43
19 they believe there is uncertainty 14:50:58	19 Q. The title were you looking at 14:54:45
20 MR. CHEEK: Objection. 14:51:00	20 endnote 2? 14:54:50
21 BY MR. FRAMPTON: 14:51:01	21 A. I am looking at I am going to 14:54:51
Q as to the risks and benefits, 14:51:01	22 go to Exhibit 29. 14:54:55
23 correct? 14:51:02	23 Q. Yes. 14:54:56
MR. CHEEK: Objection, speculation. 14:51:03	A. Reference 2, I believe that was a 14:54:58
25 THE WITNESS: So in reading that 14:51:13	25 reference that you pointed me to earlier, sir? 14:55:01
Page 199	D 201
	Page 201
	Page 201 O. Right. And do you see in that 14:55:04
1 statement, sir, they don't make reference to 14:51:15	1 Q. Right. And do you see in that 14:55:04
	1 Q. Right. And do you see in that 14:55:04 2 title Hormonbehandling vid könsdysfori? 14:55:06
1 statement, sir, they don't make reference to 14:51:15 2 uncertainty. 14:51:20 3 BY MR. FRAMPTON: 14:51:20	1 Q. Right. And do you see in that 14:55:04 2 title Hormonbehandling vid könsdysfori? 14:55:06
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1 statement, sir, they don't make reference to 14:51:15 2 uncertainty. 14:51:20 3 BY MR. FRAMPTON: 14:51:20 4 Q. They make reference to their 14:51:23 5 judgment being that the benefits generally 14:51:24	1 Q. Right. And do you see in that 14:55:04 2 title Hormonbehandling vid könsdysfori? 14:55:06 3 A. So, again, sir, I don't read 14:55:19 4 Swedish. There is a sentence a first 14:55:22
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1 A. So this is not something that I am 14:56:43	1 Q. Do you know the quality of 14:59:41
2 familiar with, sir. 14:56:45	2 evidence supporting the efficacy of any 14:59:45
3 Q. All right, then I won't ask you 14:56:46	3 particular treatment on progressive or 14:59:48
4 about that. What's lupus nephritis? 14:56:58 5 A. So nephritis would be an 14:57:04	4 refractory MS? 14:59:51
1	5 A. At a high level of generality, I 14:59:52
6 inflammation of the kidneys, and lupus is a 14:57:09	
7 rheumatologic condition. So it would be a 14:57:12 8 inflammation of the kidneys caused by a 14:57:15	
,	
9 specific rheumatologic condition. 14:57:17	9 MR. CHEEK: Objection, form. 15:00:10
Q. Is that would treating that 14:57:20	THE WITNESS: Do I know the level of 15:00:13
11 condition normally be the province of a 14:57:23	11 evidence that supports gonado potentially 15:00:14
12 nephrologist? 14:57:28 13 A. A nephrologist or a 14:57:29	12 gonadotoxic therapy for MS? 15:00:21
13 A. A nephrologist or a 14:57:29 14 rheumatologist, sir. 14:57:31	13 BY MR. FRAMPTON: 15:00:21
15 Q. You typically would not initiate 14:57:31	14 Q. Yes. 15:00:21
	15 A. No, sir, I do not. 15:00:22
	16 Q. What is familial adenomatous 15:00:22
17 A. No, sir; I am neither a 14:57:36	17 polyposis? Did I even say that right? 15:00:29
18 rheumatologist nor a nephrologist. 14:57:40	18 A. You are close enough that I 15:00:31
Q. Do you have an understanding of 14:57:42	19 understand what you are asking me, sir. 15:00:33
20 what happens if that condition is left 14:57:53	20 Q. That's all I'm going for. 15:00:34
21 untreated? 14:57:55 22 A. A general understanding, sir. 14:57:55	A. It is a genetic condition that 15:00:38
	22 results in polyps in the intestinal tract which 15:00:41
Q. And what is that? 14:57:57 A. My general understanding is that 14:57:58	23 can progress to be cancerous. 15:00:46 24 Q. Without surgical intervention, is 15:00:50
25 if it is left untreated, the individual might 14:58:04	25 a person with that condition's likelihood of 15:00:58
Page 203	Page 205
Page 203 1 progress to chronic renal failure and require 14:58:08 2 dialysis or a kidney transplant for their renal 14:58:12 3 failure. 14:58:17 4 Q. Okay. Chronic kidney disease is a 14:58:17 5 life-threatening disease, is it not? 14:58:25 6 A. Untreated it can be 14:58:26 7 life-threatening, sir. 14:58:30 8 Q. Do you have do you have any 14:58:31 9 knowledge of the quality of evidence supporting 14:58:36 10 the efficacy of cyclophosphamide to treat lupus 14:58:40 11 nephritis? 14:58:45 12 MR. CHEEK: Objection, foundation. 14:58:46 13 THE WITNESS: No, sir, I do not. 14:58:49 14 BY MR. FRAMPTON: 14:58:50 15 Q. When we call just generally in 14:58:57	Page 205 1 developing cancer at a young age pretty high? 15:01:01 2 A. Without appropriate screening and 15:01:04 3 intervention, yes, sir. 15:01:08 4 Q. What are endometriomas? 15:01:10 5 A. An endometrioma would be a 15:01:16 6 proliferation of the endometrium, which is the 15:01:20 7 lining of the uterus, sir. 15:01:21 8 Q. And can if they are large 15:01:22 9 enough, can they impair fertility? 15:01:25 10 A. They can, sir. 15:01:27 11 Q. Do you know the quality of 15:01:28 12 evidence supporting the efficacy of surgical 15:01:36 13 intervention to treat large endometriomas? 15:01:38 14 A. I do not, sir. 15:01:44 15 Q. What is ulcerative colitis? 15:01:45
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1 the condition, correct? 15:02:23	1 anti-androgen therapy, that person will never 15:05:06
2 A. If medical therapy was 15:02:23	2 develop fertility, correct, without stopping 15:05:10
3 unsuccessful, surgery might be considered, sir. 15:02:28	3 treatment? 15:05:14
4 Q. And you can have with that 15:02:30	4 A. So, in general, the expectation 15:05:14
5 condition emergency situations that require 15:02:34	5 would be if that individual continued 15:05:19
6 surgery, correct, like a bleed or perforation, 15:02:36	6 treatment, that is correct that they would not 15:05:23
7 if you know? 15:02:42	7 be fertile. 15:05:25
8 A. I don't know that surgery would be 15:02:44	8 Q. And, likewise, with a natal female 15:05:26
9 necessarily the primary intervention for 15:02:46	9 who begins puberty suppression at Tanner Stage 15:05:30
10 bleeding, but for perforation, yes, sir. 15:02:48	10 2 and progresses seamlessly to testosterone 15:05:34
11 Q. Because if a perforation is left 15:02:52	11 therapy, that individual would not develop 15:05:38
12 untreated, that can cause death presumably, 15:02:54	12 fertility, correct? 15:05:41
13 right? 15:02:57	13 A. If they continued on treatment, 15:05:43
14 A. It can cause peritonitis, which 15:02:58	14 they would not be anticipated to have 15:05:51
15 would be an infection in the abdominal cavity 15:03:01	15 biologically related children. It is to say 15:05:53
16 which if left untreated could result in death, 15:03:06	16 that for some individuals the benefit of 15:05:56
17 sir. 15:03:08	17 treatment would outweigh that risk, but that 15:05:59
Q. For a natal male at Tanner Stage 2 15:03:09	18 risk would exist. 15:06:01
19 seeking to begin puberty blockers, what are the 15:03:22	19 Q. And it wouldn't be a risk, it 15:06:02
20 options for preserving that child's fertility? 15:03:26	20 would be they are not going to have fertility 15:06:12
21 A. The primary option for preserving 15:03:29	21 without discontinuing treatment, correct? 15:06:15
22 fertility in that case would be delaying the 15:03:38	MR. CHEEK: Objection, form. 15:06:20
23 use of puberty blockers, sir. 15:03:41	THE WITNESS: I'm sorry, I don't 15:06:21
Q. So you wouldn't actually start 15:03:43	24 understand the distinction that you are making, 15:06:22
25 them at Tanner 2 if you were trying to preserve 15:03:45	25 sir. 15:06:24
Page 207	Page 209
1 fertility? 15:03:48	1 BY MR. FRAMPTON: 15:06:24
2 MR. CHEEK: Objection, foundation. 15:03:48 3 THE WITNESS: If that was your 15:03:50	2 Q. Well, I think you were 15:06:25
3 THE WITNESS: If that was your 15:03:50 4 exclusive or predominant goal, there would be a 15:03:56	3 characterizing it as a risk of infertility, and 15:06:26 4 I was distinguishing it's really without 15:06:30
5 reason to delay utilizing puberty blockers. There 15:04:00	5 discontinuing treatment, it's a certainty of 15:06:33
6 might be other ways later in the future that by 15:04:05	6 infertility, is it not? 15:06:36
7 discontinuing gender-affirming medical care 15:04:13	7 A. So when as an emphasis, when I 15:06:37
8 fertility could be reestablished. 15:04:16	8 would refer to a risk, I wouldn't say that 15:06:40
9 BY MR. FRAMPTON: 15:04:20	9 risks involve both a magnitude and a 15:06:42
10 Q. Have you seen any studies showing 15:04:22	10 probability. So while colloquially risk might 15:06:44
11 the success of that process? 15:04:23	11 have implications about probability, I don't 15:06:48
12 A. I am aware of studies that show 15:04:28	12 know that in the way an ethicist uses a risk 15:06:52
13 the resumption of fertility in individuals who 15:04:34	13 that it necessarily has those similar 15:06:57
14 have discontinued gender-affirming hormone 15:04:37	14 implications. 15:07:04
15 therapy, sir. 15:04:41	15 Q. But you would agree, again, for 15:07:06
Q. Aware of any studies dealing with 15:04:41	
	16 the natal female starting puberty suppression 15:07:08
17 individuals who started puberty suppression at 15:04:44	16 the natal female starting puberty suppression 15:07:08 17 at Tanner Stage 2 continuing seamlessly through 15:07:10
17 individuals who started puberty suppression at 15:04:44 18 Tanner Stage 2? 15:04:47	
18 Tanner Stage 2? 15:04:47 19 MR. CHEEK: Objection, form. 15:04:48	17 at Tanner Stage 2 continuing seamlessly through 15:07:10 18 to testosterone therapy that that person you 15:07:13 19 would not have any expectation that person 15:07:16
18 Tanner Stage 2? 15:04:47 19 MR. CHEEK: Objection, form. 15:04:48 20 THE WITNESS: Not specifically of 15:04:50	17 at Tanner Stage 2 continuing seamlessly through 15:07:10 18 to testosterone therapy that that person you 15:07:13 19 would not have any expectation that person 15:07:16 20 would develop fertility with that course of 15:07:18
18 Tanner Stage 2? 15:04:47 19 MR. CHEEK: Objection, form. 15:04:48 20 THE WITNESS: Not specifically of 15:04:50 21 that population, sir. 15:04:53	17 at Tanner Stage 2 continuing seamlessly through 15:07:10 18 to testosterone therapy that that person you 15:07:13 19 would not have any expectation that person 15:07:16 20 would develop fertility with that course of 15:07:18 21 treatment, correct? 15:07:22
18 Tanner Stage 2? 15:04:47 19 MR. CHEEK: Objection, form. 15:04:48 20 THE WITNESS: Not specifically of 15:04:50 21 that population, sir. 15:04:53 22 BY MR. FRAMPTON: 15:04:54	17 at Tanner Stage 2 continuing seamlessly through 15:07:10 18 to testosterone therapy that that person you 15:07:13 19 would not have any expectation that person 15:07:16 20 would develop fertility with that course of 15:07:18 21 treatment, correct? 15:07:22 22 A. So given the currently available 15:07:22
18 Tanner Stage 2? 15:04:47 19 MR. CHEEK: Objection, form. 15:04:48 20 THE WITNESS: Not specifically of 15:04:50 21 that population, sir. 15:04:53 22 BY MR. FRAMPTON: 15:04:54 23 Q. Just as a general matter, if a 15:04:54	17 at Tanner Stage 2 continuing seamlessly through 15:07:10 18 to testosterone therapy that that person you 15:07:13 19 would not have any expectation that person 15:07:16 20 would develop fertility with that course of 15:07:18 21 treatment, correct? 15:07:22 22 A. So given the currently available 15:07:22 23 resources for fertility preservation, no. 15:07:34
18 Tanner Stage 2? 15:04:47 19 MR. CHEEK: Objection, form. 15:04:48 20 THE WITNESS: Not specifically of 15:04:50 21 that population, sir. 15:04:53 22 BY MR. FRAMPTON: 15:04:54	17 at Tanner Stage 2 continuing seamlessly through 15:07:10 18 to testosterone therapy that that person you 15:07:13 19 would not have any expectation that person 15:07:16 20 would develop fertility with that course of 15:07:18 21 treatment, correct? 15:07:22 22 A. So given the currently available 15:07:22

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D 210	D 212
Page 210 1 natal female after an extended period of years 15:08:06	Page 212 1 well-known to endocrinologists and geneticists. 15:13:08
2 on cross-sex hormones? By that, I mean at 15:08:09	2 In medicine, these situations are generally 15:13:12
3 least five years. 15:08:11	3 termed disorders of sexual development, DSD, or 15:13:14
4 A. So as I have said, I am aware of 15:08:17	4 differences in sexual development. DSD 15:13:18
5 literature that shows that individuals have 15:08:19	5 includes genetic disorders in the sexual 15:13:22
6 fertility after discontinuing gender-affirming 15:08:26	6 determination pathway, disorders of 15:13:25
7 hormone therapy for a period of time. I would 15:08:31	7 steroidogenesis, disorders of steroid hormone 15:13:30
8 have to look at those specific studies to see 15:08:32	8 action, especially androgen insensitivity 15:13:33
9 whether individual whether individuals are 15:08:36	9 syndrome, and less well-defined, quote, 15:13:36
10 assigned female at birth in those studies had 15:08:39	10 developmental field defects, unquote, such as 15:13:38
11 been on gender-affirming hormone therapy for 15:08:42	11 Mayer-Rokitansky-Küster-Hauser syndrome. Did I 15:13:45
12 more than or less than five years. 15:08:45	12 read that correctly? 15:13:48
Q. Okay. Sitting here today, can you 15:08:47	13 A. Yes, sir. 15:13:48
14 name any studies we should look at for that 15:08:50	14 Q. That's amazing. Is that a 15:13:49
15 proposition? 15:08:52	15 reasonable sort of explanation of what a DSD is 15:13:51
A. I thought they might be referenced 15:08:53	16 to your understanding, or do you have a 15:13:58
17 in my report, sir, but they are not. 15:11:33	17 different understanding? 15:14:00
18 Q. Okay. Let me let me show you 15:11:34	18 A. May I reread it, sir? 15:14:00
19 what I am going to mark as Defendants' 15:11:43	19 Q. Of course. 15:14:03
20 Exhibit 34. 15:11:46	A. So I would say that it has a 15:14:58
21 (Thereupon, Exhibit 34, Considering 15:11:46	21 relative slant toward endocrinological causes 15:15:02
22 Sex as a Biological Variable in Basic and Clinical 15:11:46	22 of DSDs but that the general description is 15:15:07
23 Studies: An Endocrine Society Scientific 15:11:46	23 accurate, sir. 15:15:13
24 Statement, was marked for purposes of 15:11:46	Q. Do you agree that most transgender 15:15:13
25 identification.) 15:11:47	25 people do not have a DSD? 15:15:17
Page 211	Page 213
Page 211 1 BY MR. FRAMPTON: 15:11:47	Page 213 1 A. I believe that that's an accurate 15:15:20
1 BY MR. FRAMPTON: 15:11:47 2 Q. 34 is an exhibit entitled 15:12:01	1 A. I believe that that's an accurate 15:15:20 2 statement, sir. 15:15:31
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54 (Pages 210 - 213)

	D 216
Page 214 1 Q. And they nearly always identify as 15:17:22	Page 216 1 though. All right. You are looking at the 15:34:29
2 female, according to the literature, correct? 15:17:26	2 Endocrine Society guidelines from 2017, 15:34:34
3 A. Yes, individuals with complete 15:17:28	3 correct? 15:34:36
4 androgen sensitivity generally have female 15:17:33	4 A. I am, sir. 15:34:36
5 gender identities. 15:17:37	5 Q. All right. Go to page 3879. 15:34:37
6 Q. And the only the only 15:17:39	6 A. Yes, sir. 15:34:47
7 experience of puberty that they can have just 15:17:48	7 Q. All right. And you have 15:34:47
8 physically is female puberty, correct? 15:17:51	8 already you said you believe that these 15:34:53
9 A. As I have said, they are unable to 15:17:55	9 guidelines were developed through a rigorous 15:34:56
10 develop a so-called masculine phenotype. And, 15:18:09	10 method, correct? 15:34:58
11 yes, they are capable of developing 15:18:16	11 A. Yes, sir. 15:34:59
12 effeminate so-called effeminate or female 15:18:21	12 Q. All right. Under 3879 under 15:35:05
13 phenotype. 15:18:22	13 evidence it says: In most children 15:35:10
13.16.22 14 Q. For a natal male with gender 15:18:23	14 A. So I'm sorry, just so we are in 15:35:13
15 dysphoria who does not have a DSD, okay? 15:18:33	15 the same place, that's under 1.3 and 1.4, sir? 15:35:15
	16 Q. That's right. 15:35:20
16 A. Okay. 15:18:39 17 Q. Without medical intervention, that 15:18:40	17 A. Okay. 15:35:21
18 individual will experience endogenous male 15:18:44	1
_	18 Q. It says: In most children 15:35:21 19 diagnosed with GD/gender incongruence, it did 15:35:23
19 puberty, assuming they progress to that point 15:18:48 20 in their life? 15:18:51	20 not persist into adolescence. The percentages 15:35:28
21 A. Well, so there might be multiple 15:18:52 22 other reasons why somebody assigned male at 15:19:02	21 differed among studies, probably dependent on 15:35:31 22 which version of the DSM clinicians used, the 15:35:33
23 birth doesn't have an endogenous male puberty, 15:19:05	23 patient's age, the recruitment criteria, and 15:35:37
24 aside from a DSD such as a physical injury to 15:19:11	24 perhaps cultural factors. However, the large 15:35:39
25 their testes so that there would be multiple 15:19:15	25 majority, about 85 percent, of prepubertal 15:35:42
23 then testes so that there would be multiple 13.19.13	
Dog 215	Page 217
Page 215	
1 reasons why they might not experience 15:19:19	1 children with a childhood diagnosis did not 15:35:46
1 reasons why they might not experience 15:19:19 2 masculinizing puberty, sir. 15:19:22	1 children with a childhood diagnosis did not 15:35:46 2 remain GD/gender incongruent in adolescence. 15:35:49
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55 (Pages 214 - 217)

Page 219	Page 220
Page 218 1 of gender dysphoria changed, right? 15:37:21	1 is reporting that she is that they are going 15:40:36
2 A. So presumably, the clinicians may 15:37:23	2 to review these four particular studies 15:40:38
3 have a sense of when that changed, but the 15:37:30	3 concerning desistance? 15:40:42
4 studies did not report data about that. 15:37:34	4 A. In part, sir. 15:40:45
5 (Thereupon, Exhibit 35, A Critical 15:37:55	5 Q. What do you mean in part? 15:40:49
6 Commentary on Follow-up Studies and Desistance 15:37:55	6 A. Well, they say this statement 15:40:50
7 Theories About Transgender and 15:37:55	7 largely draws on. So I take it that they are 15:40:52
8 Gender-nonconforming Children, was marked for 15:37:55	8 also drawing on other sources than the four 15:40:55
9 purposes of identification.) 15:37:55	9 studies that are that are subsequently 15:40:59
10 BY MR. FRAMPTON: 15:37:55	10 listed in the reference. 15:41:01
11 Q. I show you what I am marking as 15:37:59	11 Q. Is this this paper is not a 15:41:02
12 Exhibit 35. It is a document that I have got 15:38:01	12 systematic review of the literature on 15:41:14
13 to switch notebooks for. All better. It is a 15:38:07	13 desistance rates, is it? 15:41:16
14 document entitled Critical Commentary on 15:38:20	14 A. No, it's not, sir. 15:41:18
15 Follow-up Studies and Desistance Theories About 15:38:23	15 Q. And you would agree that there are 15:41:21
16 Transgender and Gender Nonconforming Children. 15:38:26	16 more than four studies out there measuring 15:41:25
17 The lead author is Julia Temple Newhook. All 15:38:29	17 desistance rates, correct? 15:41:28
18 right. You are I imagine you are familiar 15:38:43	18 A. Yes, sir. 15:41:31
	19 Q. Okay. And we don't know if these 15:41:33
19 with this paper, correct, sir? 15:38:46 20 A. Yes, sir. 15:38:48	20 authors well, strike that. The only studies 15:41:37
21 Q. All right. And it comments on 15:38:50	21 these authors call out are the four listed 15:41:44
22 four studies related to that it believes are 15:38:58	22 there on page 1, right? 15:41:49
23 related to desistance rates, correct? 15:39:04	23 A. So, again, sir, I would have to 15:41:50
24 A. Without reviewing the study again, 15:39:09	24 reread relevant portions of the article. At 15:41:58
25 I don't know if it's forcer, but it does 15:39:15	25 the beginning of the article, yes, they 15:42:01
Page 219	Page 221
15 20 10	_
1 analyze studies about so-called desistance. 15:39:18	1 identify them. Their article is focusing on 15:42:02
Q. Well, let me nail that down. Go 15:39:23	1 identify them. Their article is focusing on 15:42:02 2 these four articles. 15:42:06
2 Q. Well, let me nail that down. Go 15:39:23 3 to page 1. We have got somewhat normal page 15:39:27	1 identify them. Their article is focusing on 15:42:02 2 these four articles. 15:42:06 3 Q. They certainly because it's not 15:42:07
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2 Q. Well, let me nail that down. Go 15:39:23 3 to page 1. We have got somewhat normal page 15:39:27 4 numbers. 15:39:34 5 A. I am on what I take to be the 15:39:37	1 identify them. Their article is focusing on 15:42:02 2 these four articles. 15:42:06 3 Q. They certainly because it's not 15:42:07 4 a systematic review, they are not purporting to 15:42:14 5 provide any kind of comprehensive analysis of 15:42:19
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2 Q. Well, let me nail that down. Go 15:39:23 3 to page 1. We have got somewhat normal page 15:39:27 4 numbers. 15:39:34 5 A. I am on what I take to be the 15:39:37 6 first page, sir. 15:39:39 7 Q. That's my understanding as well, 15:39:39	1 identify them. Their article is focusing on 15:42:02 2 these four articles. 15:42:06 3 Q. They certainly because it's not 15:42:07 4 a systematic review, they are not purporting to 15:42:14 5 provide any kind of comprehensive analysis of 15:42:19 6 the literature on desistance rates, correct? 15:42:22 7 A. They are not purporting to have 15:42:25
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56 (Pages 218 - 221)

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1 article, as opposed to he references this 15:43:53	1 say that Reference 52 does cite Zucker on the 15:48:02
2 article among other articles. My sense was 15:43:57	2 natural history of gender identity disorder in 15:48:06
3 that Professor Zucker's article is much more a 15:44:05	3 children in Zucker debate Different Strokes For 15:48:09
4 response, sir. 15:44:07	4 Different Folks, which you know, I would 15:48:13
5 (Thereupon, Exhibit 36, A Critical 15:44:10	5 have to look at those articles. But I believe 15:48:17
6 Commentary on A Critical Commentary on Follow-up 15:44:10	6 one of those is his quote, response, or 15:48:22
7 Studies and Desistance Theories About Transgender 15:44:10	7 commentary on Temple Newhook, or at least 15:48:25
8 and Gender Nonconforming Children, was marked for 15:44:10	8 references that. 15:48:29
9 purposes of identification.) 15:44:11	9 Q. So the reference to Temple Newhook 15:48:29
10 BY MR. FRAMPTON: 15:44:11	10 is I'll find it for you. This is going to 15:48:42
11 Q. I show you what I am marking as 15:44:43	11 be on page 22. 15:48:50
12 Defendants' Exhibit 36. The document I am 15:44:45	MR. CHEEK: And just so we are clear, 15:48:51
13 handing you is titled A Critical Commentary on 15:44:56	13 this is Defendants' Exhibit 31? 15:48:52
14 a Critical Commentary on Follow-up Studies and 15:44:59	MR. FRAMPTON: Yes, you are right. 15:48:53
15 Desistance Theories About Transgender and 15:45:04	15 BY MR. FRAMPTON: 15:48:53
16 Gender Nonconforming Children. The lead author 15:45:09	Q. Middle of the page, the studies to 15:48:56
17 is Thomas Steensma. Is that the document I 15:45:10	17 which the legislation refers have substantial 15:48:58
18 have handed you, Dr. Antommaria? 15:45:12	18 limitations. For example, many include 15:49:01
19 A. It is. I appreciate 15:45:14	19 children who would not fulfill the current 15:49:03
20 Q. Have you seen this one before? 15:45:14	20 diagnostic criteria for gender dysphoria. Do 15:49:05
21 A. I appreciate you having such a 15:45:15	21 you see that? 15:49:09
22 comprehensive collection of articles, sir. 15:45:17	THE WITNESS: Yes. So I'm sorry that 15:49:09
23 Q. I have got a lot. Have you seen 15:45:19	23 I don't understand your question, sir. So I 15:49:21
24 this one before? 15:45:21	24 believe that Newhook's paper does provide support 15:49:24
25 A. I believe I I believe I have, 15:45:22	25 for that claim and is an appropriate reference to 15:49:28
Page 223	Page 225
Page 223 1 sir. 15:45:27	Page 225 1 support that claim. 15:49:34
1 sir. 15:45:27 2 Q. Would you not you would 15:45:27 3 characterize this as a response to the Temple 15:45:28	1 support that claim. 15:49:34 2 Q. Okay. And you didn't think it 15:49:35 3 appropriate to cite Steensma or Zucker 15:49:37
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57 (Pages 222 - 225)

Page 226	Page 228
1 Q. I show you what I am marking as 15:51:17	1 to them asking for hormones consistent with 15:54:07
2 Exhibit 37, a document titled The Amsterdam 15:51:19	2 their birth sex, right? 15:54:12
3 Cohort of Gender Dysphoria Study (1972-2015): 15:51:28	3 A. Yes, they analyzed regret, or what 15:54:15
4 Trends in Prevalence, Treatment, and Regrets. 15:51:33	4 they characterize as regret. 15:54:22
5 The lead author is Dr. Wiepjes. That's my best 15:51:36	5 Q. Yeah, well, that's what I am 15:54:24
6 Dutch pronunciation for today. Does that 15:51:43	6 trying to get at is they are characterizing 15:54:24
7 appear to be what I have handed you, sir? 15:51:46	7 regret as a patient who had a gonadectomy but 15:54:28
8 A. It does, sir. 15:51:48	8 then came back to them asking for hormones 15:54:33
9 Q. Are you familiar with this one? 15:51:49	9 consistent with their birth sex, correct? 15:54:37
10 A. I am, sir. 15:51:51	10 A. Yes, sir. 15:54:40
11 Q. All right. So let's look at what 15:51:52	11 Q. Okay. And those are the only 15:54:40
12 this study did. All right. So if you look at 15:51:58	12 people that they are characterizing as 15:54:50
13 the bottom of the first column on page 583, are 15:52:15	13 regretting, correct? 15:54:51
14 you there? 15:52:22	14 A. I'm sorry, I am reviewing their 15:54:52
15 A. The left-hand column, sir? 15:52:22	15 methods. 15:54:59
16 Q. Yes. 15:52:24	16 Q. Understood. 15:54:59
17 A. Yes. 15:52:26	17 A. So I am reading, sir, at the top 15:55:35
18 Q. It says: In the present study we 15:52:26	18 of page 584. Some people regretted the 15:55:37
19 included the complete population seen at the 15:52:29	19 interventions they had undergone. Trans women 15:55:40
20 gender identity clinic of the VUmc from 1972 15:52:31	20 who started testosterone treatment after a 15:55:42
21 through December 2015 to assess the current 15:52:35	21 vaginoplasty or trans men who started estrogen 15:55:45
22 prevalence of transgender people who received 15:52:38	22 treatment after oophorectomy and expressed 15:55:49
23 medical treatment, the frequency of specific 15:52:41	23 regret were categorized as those who 15:55:51
24 medical treatments performed, and the numbers 15:52:44	24 experienced regret. So it appears that there 15:55:54
25 of people who received HT in line with their 15:52:46	25 were two criteria; that it was both initiating 15:55:58
	P. 440
Page 227	Page 229
Page 227 1 sex assigned at birth because they regretted 15:52:50	Page 229 1 hormone therapy consistent with the sex 15:56:03
1 sex assigned at birth because they regretted 15:52:50	_
1 sex assigned at birth because they regretted 15:52:50	1 hormone therapy consistent with the sex 15:56:03
1 sex assigned at birth because they regretted 15:52:50 2 undergoing gonadectomy. Did I read that 15:52:56	1 hormone therapy consistent with the sex 15:56:03 2 assigned at birth and an expression of regret. 15:56:05
1 sex assigned at birth because they regretted 15:52:50 2 undergoing gonadectomy. Did I read that 15:52:56 3 correctly? 15:52:59	1 hormone therapy consistent with the sex 15:56:03 2 assigned at birth and an expression of regret. 15:56:05 3 Q. Okay. But they are only people 15:56:08
1 sex assigned at birth because they regretted 2 undergoing gonadectomy. Did I read that 3 correctly? 15:52:59 4 A. Yes, sir. 15:52:59	1 hormone therapy consistent with the sex 15:56:03 2 assigned at birth and an expression of regret. 15:56:05 3 Q. Okay. But they are only people 15:56:08 4 who underwent a gonadectomy and then came back 15:56:13
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1 sex assigned at birth because they regretted 15:52:50 2 undergoing gonadectomy. Did I read that 15:52:56 3 correctly? 15:52:59 4 A. Yes, sir. 15:52:59 5 Q. So if I understand that sentence, 15:53:01 6 they are reporting they are measuring 15:53:07 7 essentially three things, how many of their 15:53:09	1 hormone therapy consistent with the sex 15:56:03 2 assigned at birth and an expression of regret. 15:56:05 3 Q. Okay. But they are only people 15:56:08 4 who underwent a gonadectomy and then came back 15:56:13 5 and sought hormones consist with their birth 15:56:17 6 sex, correct? 15:56:21 7 A. I think that's roughly analogous 15:56:21
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1 patients' records for expressions of regret or 15:57:49	1 experience regret without pursuing reversal 16:01:54
2 just that subpopulation of patients' records 15:57:55	2 surgery or hormone therapy, HT. Regret might 16:01:58
3 for expressions of regret. But you had asked 15:57:59	3 not always result in a desire for reversal 16:01:59
4 about satisfaction, and they did not administer 15:58:05	4 therapy, as it may be hidden from others. In 16:02:02
5 a measure of satisfaction to the patient 15:58:08	5 addition, in our population the average time to 16:02:04
6 population. 15:58:12	6 regret was 130 months, so it might be too early 16:02:07
7 Q. They did not measure how long 15:58:12	7 to examine regret rates in people who started 16:02:10
8 patients continued a particular therapy? 15:58:19	8 with HT in the past 10 years. Do you see that? 16:02:12
9 A. Please let me look. So your 15:58:26	9 A. I do, sir. 16:02:16
10 question again, sir? 15:59:20	Q. So they seem to be saying they 16:02:16
11 Q. They did not measure how long 15:59:21	11 were not counting people who chose not to seek 16:02:20
12 patients continued a particular therapy? 15:59:23	12 reversal therapy, correct? 16:02:22
A. So I am looking at Table 1, and it 15:59:25	A. So your question again, sir, is? 16:02:23
14 provides data about individuals starting what I 15:59:45	Q. The authors are noting that they 16:03:03
15 would believe to be puberty suppression and 15:59:49	15 are not counting people who regret the 16:03:05
16 stopping puberty suppression. So there may be 15:59:51	16 gonadectomy but did not pursue reversal 16:03:09
17 data potentially about the duration of therapy, 16:00:02	17 therapy, correct? 16:03:12
18 but I don't again, in this and, again, in 16:00:05	18 A. Reversal surgery or hormone 16:03:12
19 Table 4 there is information about the 16:00:21	19 therapy, yes, sir. It's common for authors at 16:03:20
20 characteristics of people who regret, and they 16:00:22	20 the conclusion of a study to discuss potential 16:03:29
21 report ages and times. 16:00:29	21 limitations, and I take it that that's what 16:03:32
So there does appear to be some 16:00:30	22 they are doing. 16:03:36
23 data in the report about duration of some 16:00:32	23 Q. Sure. Go to page 587. 16:03:36
24 treatments for some patient populations. So, 16:00:35	24 A. Yes, sir. 16:03:47
25 again, I would have to reread the article to 16:00:39	25 Q. Bottom of the page: An 16:03:48
Page 231	Page 233
Page 231 1 give you more detail about what that looks 16:00:42	Page 233 1 interesting finding is the percentage of 16:03:54
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1 give you more detail about what that looks 16:00:42	1 interesting finding is the percentage of 16:03:54
1 give you more detail about what that looks 16:00:42 2 like. 16:00:44	1 interesting finding is the percentage of 16:03:54 2 children who were referred in childhood before 16:03:56
1 give you more detail about what that looks 16:00:42 2 like. 16:00:44 3 Q. In Table 4, everyone that they 16:00:44	1 interesting finding is the percentage of 16:03:54 2 children who were referred in childhood before 16:03:56 3 12 years of age and who started PS when the GD 16:03:59
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59 (Pages 230 - 233)

Page 234	Page 236
1 study? 16:05:55	1 treatment, GnRH analogs, to suppress somatic 16:09:06
2 A. I have read this study previously. 16:05:55	2 masculinization until sometime during 16:09:13
3 Q. And have you evaluated the 16:05:58	3 adolescence. Did I read that correctly? 16:09:15
4 desistance rates calculated in this study? 16:06:21	4 A. You did, sir. 16:09:17
5 A. What do you mean by evaluated, 16:06:26	5 Q. Okay. So if I am understanding 16:09:18
6 sir? 16:06:27	6 what I am reading, the children in this study 16:09:20
7 Q. Are you familiar with them? 16:06:28	7 did not receive puberty suppression at Tanner 16:09:26
8 A. To the extent that I have 16:06:30	8 Stage 2, they received it later, correct? 16:09:30
9 previously read the study, yes, sir. 16:06:35	9 A. So, sir, it's been awhile since I 16:09:32
10 Q. Go to page 14. 16:06:37	10 have read this study. You are reading material 16:09:37
11 A. Yes, sir. 16:06:52	11 out of the discussion, and it seems as though 16:09:40
12 Q. All right. In that very first 16:06:52	12 she is that the authors are making a 16:09:46
13 partial paragraph at the top left-hand side we 16:06:57	13 conjecture about what individuals' state of 16:09:48
14 read: It can, however, be said with certainty 16:07:03	14 pubertal development was based on their age 16:09:53
15 that the vast majority of boys were seen over a 16:07:06	15 rather than having explicitly collected data 16:09:56
16 particular period of time when the therapeutic 16:07:10	16 about individuals' Tanner staging. So I don't 16:10:00
17 approach of recommending or supporting a gender 16:07:12	17 know about the rigor or the evidence supporting 16:10:04
18 social transition prior to puberty was not 16:07:15	18 that claim without reviewing their methods and 16:10:09
19 made. Indeed, in the current study, there was 16:07:18	19 results. 16:10:14
20 only one patient who had socially transitioned 16:07:21	Q. Do you agree that the point the 16:10:15
21 prior to puberty at the suggestion and support 16:07:25	21 point in pubertal development I'm sorry, 16:10:22
22 of the professionals involved in this 16:07:27	22 strike that. You agree in this study, as with 16:10:25
23 individual's care and this particular patient 16:07:30	23 the Dutch studies we discussed earlier, they 16:10:44
24 was one of the persisters with a 16:07:32	24 did not measure the point at which a child 16:10:47
25 biphilic/androphilic sexual orientation. Did I 16:07:38	25 experienced desistance, the age or Tanner stage 16:10:51
Page 235	Page 237
Page 235 1 read that correctly? 16:07:40	Page 237 1 at which someone experienced desistance, 16:10:56
_	_
1 read that correctly? 16:07:40	1 at which someone experienced desistance, 16:10:56
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1 young people to a treatment pathway which 16:12:52	1 A. So the studies of initiating 16:15:19
2 culminates in progression to 16:12:55	2 individuals on puberty blockers continue to 16:15:27
3 feminizing/masculinizing hormones by impeding 16:13:00	3 follow their gender identity, so they are 16:15:30
4 the usual process of sexual orientation and 16:13:01	4 investigating the persistence of gender 16:15:34
5 gender identity development. Did I read that 16:13:05	5 dysphoria. It's harder for me to understand 16:15:37
6 correctly? 16:13:07	6 what you mean by the difference between that 16:15:41
7 A. You did, sir. 16:13:07	7 and evaluating quote, unquote, changing the 16:15:44
8 Q. I will keep going, I'm sorry. 16:13:08	8 path. 16:15:48
9 Data from both the Netherlands and the study 16:13:12	9 Q. Right. Any studies evaluating 16:15:48
10 conducted by GIDS demonstrated that almost all 16:13:15	10 whether the administration of puberty blockers 16:15:52
11 children and young people who are put on 16:13:18	11 as opposed to some other intervention like 16:15:55
12 puberty blockers go on to sex hormone 16:13:21	12 counseling or psychological support changes the 16:16:00
13 treatment, 96.5 percent and 98 percent 16:13:23	13 pathway? 16:16:04
14 respectively. The reasons for this need to be 16:13:26	14 MR. CHEEK: Objection, form. 16:16:04
15 better understood. Did I read that correctly? 16:13:28	15 THE WITNESS: So, in particular, I am 16:16:09
16 A. You did, sir. 16:13:30	16 not aware of any randomized controlled trials of 16:16:10
17 Q. Do you agree, is it consistent 16:13:31	17 puberty blockers and mental health care compared 16:16:16
18 with your experience and understanding of the 16:13:35	18 to mental health care alone. 16:16:23
19 literature that almost all children put on 16:13:37	19 BY MR. FRAMPTON: 16:16:24
20 puberty blockers continue on to cross-sex 16:13:40	Q. Or any cohort studies? 16:16:25
21 hormones? 16:13:42	A. So there are so I would have to 16:16:27
A. Yes, it's consistent with my 16:13:43	22 refresh my memory. There are cohort studies 16:16:33
23 understanding. I am not sure that the 16:13:47	23 that look at I don't recall off the top of 16:16:36
24 significant majority of individuals who begin 16:13:50	24 my head whether it is puberty blockers or 16:16:39
25 puberty blockers proceed to treatment with 16:13:53	25 gender-affirming hormone therapy in adolescents 16:16:42
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1 gender-affirming hormone therapy. 16:13:56	1 and compare them to some types of control, 16:16:46
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1 of the study and at the end of the study, sir. 16:18:05	1 which I am not familiar. There would be 16:21:36
2 But, again, I would have to look at the 16:18:13	2 reasons for me to have concern about some of 16:21:40
3 particular study and the outcomes that they 16:18:15	3 the claims that are being made in these 16:21:43
4 reported. 16:18:18	4 sentences, but I would need to read the article 16:21:45
5 Q. Sure. 16:18:19	5 in order to fully evaluate them. 16:21:49
6 A. Are we done with the Cass review, 16:18:58	6 Q. What concerns immediately come to 16:21:52
7 sir, for the time being? 16:19:00	7 mind? 16:21:55
8 Q. Yes. 16:19:01	8 A. So in the US context, competence 16:21:56
9 (Thereupon, Exhibit 39, Medical 16:19:03	9 would generally be seen as a legal category, 16:22:04
10 Decision-making in Children and Adolescents: 16:19:03	10 not a medical or ethical category. And the 16:22:08
11 Developmental and Neuroscientific Aspects, was 16:19:03	11 relative relevant category would be medical 16:22:13
12 marked for purposes of identification.) 16:19:04	12 decision-making capacity and that the authors 16:22:18
13 BY MR. FRAMPTON: 16:19:04	13 refer to developmental leaps. And my general 16:22:25
Q. I hand you what I am marking as 16:19:17	14 understanding is that there are gradual changes 16:22:29
15 Exhibit 39. This is a document titled Medical 16:19:18	15 in neurodevelopment over adolescence and young 16:22:34
16 Decision-making in Children and Adolescents: 16:19:25	16 adulthood. But the categorization of something 16:22:39
17 Developmental and Neuroscientific Aspects, from 16:19:27	17 as a developmental leap is language that I am 16:22:44
18 BMC Pediatrics. Do you have the article, 16:19:32	18 not familiar with, sir. 16:22:48
19 Dr. Antommaria? 16:19:35	19 Q. Are you familiar in general with a 16:22:49
20 A. I do. 16:19:35	20 notion that adolescents that adolescent 16:22:57
Q. Are you familiar with this one? 16:19:35	21 decision making is affected particularly by 16:23:02
A. I try to be familiar with much of 16:19:39	22 whether a context is, quote, hot or cold, the 16:23:08
23 the literature, sir, but I am not familiar with 16:19:45	23 emotional context? 16:23:15
24 this article. 16:19:46	A. I am familiar with that account of 16:23:16
Q. Are you familiar with the journal, 16:19:47	25 increased risk taking in adolescents, yes, sir. 16:23:18
Page 243	Page 245
Page 243 1 BMC Pediatrics? 16:19:51	Page 245 O. And the notion that adolescent 16:23:22
1 BMC Pediatrics? 16:19:51	1 Q. And the notion that adolescent 16:23:22
1 BMC Pediatrics? 16:19:51 2 A. I am familiar with the family of 16:19:54	1 Q. And the notion that adolescent 16:23:22 2 decision making is particularly affected by 16:23:26
1 BMC Pediatrics? 16:19:51	1 Q. And the notion that adolescent 16:23:22 2 decision making is particularly affected by 16:23:26 3 emotionally difficult situations? 16:23:32
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1 emotionality might be things like anger or 16:25:22	1 Q. So they did an informed consent 16:29:48
2 frustration, as opposed to other components of 16:25:30	2 interview with them that was videotaped, 16:29:51
3 emotionality. 16:25:32	3 correct? 16:29:53
4 Q. So are you saying that 16:25:33	4 A. I'm sorry, I am looking at their 16:29:54
5 emotionality can contribute to a hot 16:25:34	5 procedure, sir. 16:30:03
6 circumstance? 16:25:36	6 Q. And I am looking in procedures, 16:30:03
7 A. Some forms of emotionality can. 16:25:37	7 that this standard IC session was videotaped 16:30:14
8 Q. Have you seen literature 16:25:44	8 and used to establish the reference standard. 16:30:17
9 suggesting that adolescents tend to overvalue 16:25:53	9 A. Yes. And then it says in the 16:30:21
10 short-term rewards rather than long-term 16:25:58	10 following sentence after the IC or informed 16:30:23
11 rewards? 16:26:01	11 consent session, the MacCAT-T interview was 16:30:26
12 A. I am aware of literature that 16:26:01	12 administered by one of the researchers. 16:30:31
13 reports that as an aggregate finding for 16:26:11	13 Q. Okay. Is MacCAT-T an instrument 16:30:32
14 adolescent for children and adolescents, 16:26:13	14 that you have ever used? 16:30:35
15 yes, sir. 16:26:23	15 A. To the it is not, sir. 16:30:36
16 (Thereupon, Exhibit 40, Assessing 16:26:28	16 Q. All right. So with the informed 16:30:44
17 Medical Decision-Making Competence in Transgender 16:26:28	17 consent interviews, staying in procedures, they 16:30:54
18 Youth, was marked for purposes of identification.) 16:26:29	18 then had two experts and the clinician review 16:30:58
19 BY MR. FRAMPTON: 16:26:29	19 those to determine if they thought the 16:31:07
Q. I am showing you what I am marking 16:27:00	20 adolescent exhibited medical decision-making 16:31:12
21 as Exhibit 40, a document titled Assessing 16:27:01	21 competence, correct? 16:31:14
22 Medical Decision-Making Competence in 16:27:17	A. Yes, medical decision-making 16:31:15
23 Transgender Youth. Dr. Antommaria, are you 16:27:17	23 capacity, sir. 16:31:20
24 familiar with this document? 16:27:19	Q. Yeah. And then they had three 16:31:20
A. May I look at it for a moment, 16:27:20	25 different people review the MacCAT-T video and 16:31:24
Page 247	Page 249
1 sir? 16:27:27	1 make a decision based on that, whether they 16:31:28
1 sir? 16:27:27 2 Q. Of course. 16:27:27	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31
1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34
1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44
1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48
1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40 6 were about to go on puberty suppression; is 16:27:45	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48 6 what that is. There is no cutoff score, 16:31:51
1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40 6 were about to go on puberty suppression; is 16:27:45 7 that correct? I'm sorry, medical 16:27:50	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48 6 what that is. There is no cutoff score, 16:31:51 7 correct? 16:32:00
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1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40 6 were about to go on puberty suppression; is 16:27:45 7 that correct? I'm sorry, medical 16:27:50 8 decision-making competence. 16:27:51 9 A. So it is about individuals' 16:28:02	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48 6 what that is. There is no cutoff score, 16:31:51 7 correct? 16:32:00 8 MR. CHEEK: Objection to form. 16:32:12 9 THE WITNESS: So I am reading the 16:32:13
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1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40 6 were about to go on puberty suppression; is 16:27:45 7 that correct? I'm sorry, medical 16:27:50 8 decision-making competence. 16:27:51 9 A. So it is about individuals' 16:28:02 10 medical decision-making capacity to make 16:28:07 11 decisions about pubertal suppression, yes, sir. 16:28:10 12 Q. Okay. And the structure of this 16:28:25 13 study is the patients were all at a point where 16:28:29 14 the clinician was ready to prescribe puberty 16:28:35 15 suppression, and then they did both an informed 16:28:38 16 consent interview and then an interview where 16:28:42 17 they applied this MacCAT-T instrument, correct? 16:28:46 18 A. So I am just reviewing the method, 16:28:54 19 sir. 16:28:56 20 Q. Yep. 16:28:56	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48 6 what that is. There is no cutoff score, 16:31:51 7 correct? 16:32:00 8 MR. CHEEK: Objection to form. 16:32:12 9 THE WITNESS: So I am reading the 16:32:13 10 MacCAT-T is a quantitative semi-structured 16:32:17 11 interview used to assess the four medical 16:32:19 12 decision-making capacity criteria. I am 16:32:22 13 continuing to read, sir. 16:32:28 14 BY MR. FRAMPTON: 16:32:28 15 Q. You will get there. 16:32:37 17 cutoff score for the MDC is not provided. 16:32:40 18 Q. So no particular score means that 16:32:43 19 the adolescent has medical decision-making 16:32:49 20 competence, correct? 16:32:52
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1 sir? 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40 6 were about to go on puberty suppression; is 16:27:45 7 that correct? I'm sorry, medical 16:27:50 8 decision-making competence. 16:27:51 9 A. So it is about individuals' 16:28:02 10 medical decision-making capacity to make 16:28:07 11 decisions about pubertal suppression, yes, sir. 16:28:10 12 Q. Okay. And the structure of this 16:28:25 13 study is the patients were all at a point where 16:28:29 14 the clinician was ready to prescribe puberty 16:28:35 15 suppression, and then they did both an informed 16:28:38 16 consent interview and then an interview where 16:28:42 17 they applied this MacCAT-T instrument, correct? 16:28:46 18 A. So I am just reviewing the method, 16:28:54 19 sir. 16:28:56 20 Q. Yep. 16:28:56 21 A. So yes, the population were 16:29:31 22 adolescents who were the language that the 16:29:36 23 report uses were about to start PS, or puberty 16:29:39	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48 6 what that is. There is no cutoff score, 16:31:51 7 correct? 16:32:00 8 MR. CHEEK: Objection to form. 16:32:12 9 THE WITNESS: So I am reading the 16:32:13 10 MacCAT-T is a quantitative semi-structured 16:32:17 11 interview used to assess the four medical 16:32:19 12 decision-making capacity criteria. I am 16:32:22 13 continuing to read, sir. 16:32:28 14 BY MR. FRAMPTON: 16:32:28 15 Q. You will get there. 16:32:29 16 A. So yes, it states that an overall 16:32:37 17 cutoff score for the MDC is not provided. 16:32:40 18 Q. So no particular score means that 16:32:43 19 the adolescent has medical decision-making 16:32:49 20 competence, correct? 16:32:52 21 A. So it states, sir, that the 16:32:53 22 overall cutoff score for the MDC is not 16:33:05 23 provided. The assessor weighs the sub scale 16:33:08
1 sir? 16:27:27 2 Q. Of course. 16:27:27 3 A. I am, sir. 16:27:29 4 Q. And this was a study of medical 16:27:30 5 decision-making capacity in adolescents who 16:27:40 6 were about to go on puberty suppression; is 16:27:45 7 that correct? I'm sorry, medical 16:27:50 8 decision-making competence. 16:27:51 9 A. So it is about individuals' 16:28:02 10 medical decision-making capacity to make 16:28:07 11 decisions about pubertal suppression, yes, sir. 16:28:10 12 Q. Okay. And the structure of this 16:28:25 13 study is the patients were all at a point where 16:28:29 14 the clinician was ready to prescribe puberty 16:28:35 15 suppression, and then they did both an informed 16:28:38 16 consent interview and then an interview where 16:28:42 17 they applied this MacCAT-T instrument, correct? 16:28:46 18 A. So I am just reviewing the method, 16:28:54 19 sir. 16:28:56 20 Q. Yep. 16:28:56 21 A. So yes, the population were 16:29:31 22 adolescents who were the language that the 16:29:36	1 make a decision based on that, whether they 16:31:28 2 believed the adolescent exhibited MDC, correct? 16:31:31 3 A. Yes, sir. 16:31:34 4 Q. And on the MacCAT-T, if you flip 16:31:44 5 back a page, you can see where they explain 16:31:48 6 what that is. There is no cutoff score, 16:31:51 7 correct? 16:32:00 8 MR. CHEEK: Objection to form. 16:32:12 9 THE WITNESS: So I am reading the 16:32:13 10 MacCAT-T is a quantitative semi-structured 16:32:17 11 interview used to assess the four medical 16:32:19 12 decision-making capacity criteria. I am 16:32:22 13 continuing to read, sir. 16:32:28 14 BY MR. FRAMPTON: 16:32:28 15 Q. You will get there. 16:32:29 16 A. So yes, it states that an overall 16:32:40 18 Q. So no particular score means that 16:32:43 19 the adolescent has medical decision-making 16:32:49 20 competence, correct? 16:32:53 22 overall cutoff score for the MDC is not 16:33:05

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D 250	P 252
Page 250 1 would assume that and we have talked about 16:33:18	Page 252
	1 A. Oh, can you repeat your question, 16:36:06 2 sir? 16:36:09
2 the GRADE criteria earlier today. And, again, 16:33:21 3 often tools rely on individual judgment in 16:33:26	
	4 the 16 natal males in the study were adjudged 16:36:14
5 Q. So the reviewers could one 16:33:31	5 incompetent on one or both standards? 16:36:18
6 reviewer could regard a score of 14 as 16:33:36	6 A. Yes, four out of 16, sir. 16:36:23
7 generally establishing competence, and one 16:33:39	7 Q. And that is 25 percent, is it not? 16:36:25
8 reviewer could regard a score of 18 as 16:33:41	8 A. Yes, sir. 16:36:29
9 generally establishing competence, correct? 16:33:44	9 Q. Okay. Go to stay on that same 16:36:29
10 A. Well, that's assuming that they 16:33:46	10 page. Go to the main column of text on the 16:36:32
11 were judging competence on the basis of a 16:33:51	11 right-hand side, first full paragraph. Do you 16:36:34
12 score, as opposed to weighing the scores and 16:33:53	12 see 16:36:46
13 other contextual information. It would suggest 16:33:57	13 A. Yes, sir. 16:36:46
14 that using the cutoff score in the way you 16:34:00	Q where it says: In all of these 16:36:47
15 suggest was not the way the tool was designed. 16:34:03	15 11 adolescents assessed incompetent except for 16:36:50
16 Q. Go to Table 2, please, if you 16:34:06	16 one, the involved clinician had no doubts about 16:36:53
17 would. 16:34:09	17 medical decision-making competence. Do you see 16:36:59
18 A. On what page, sir? 16:34:12	18 that? 16:37:01
19 Q. It's going to be page 6. 16:34:13	19 A. You read that sentence correctly, 16:37:01
20 A. I am on page 6, sir. 16:34:16	20 sir. 16:37:04
Q. Okay. The study involved 16 natal 16:34:18	21 Q. So in the 11 cases where the 16:37:04
22 boys, correct? 16:34:25	22 adolescent was assessed incompetent on one or 16:37:08
23 A. Yes, 16 individuals who were 16:34:26	23 both measures, the clinician got it wrong 10 16:37:12
24 assigned male at birth. 16:34:30	24 out of 11 times; is that right? 16:37:19
Q. So far fewer natal males than 16:34:31	25 A. Can I read the study, sir? 16:37:21
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1 natal females, right? 16:34:33	1 Q. Uh-huh. 16:37:29
2 A. So there were 58 individuals 16:34:35	2 A. So I don't so the sentence that 16:38:18
3 assigned female at birth in the study, sir. 16:34:38	3 you are quoting, sir, appears in the 16:39:06
4 Q. And if we go down to Table 3 and 16:34:41	4 discussion. I am just having difficulty seeing 16:39:10
5 count the number of natal males who were judged 16:34:49	5 where in the results, including the tables, 16:39:14
6 incompetent on one or both standards, how many 16:34:54	6 it's reporting the results that in all of these 16:39:18
7 do you get? 16:34:59	7 11 adolescents assessed incompetent except for 16:39:22
8 A. So if you combine the reference 16:35:00	8 one, the involved clinician had no doubts about 16:39:26
9 standard and the MacCAT-T, it would appear 11, 16:35:20	9 the MDC. 16:39:29
10 sir. 16:35:26	10 For example, in Table 3 where 16:39:32
Q. Now, how many of them were natal 16:35:26	11 those 11 individuals are described, it 16:39:35
12 males? 16:35:28	12 describes the results for the reference 16:39:37
13 A. Four. It appears that the number 16:35:29	13 standard in the MacCAT-T, but I don't see a 16:39:40
14 is four, sir. 16:35:40	14 separate column for the involved clinician. So 16:39:43
Q. So 25 percent of natal males, 16:35:41	15 I am just having trouble putting the discussion 16:39:51
16 correct, adjudged incompetent on one or both 16:35:43	16 together with the results that the 16:39:54
17 standards? 16:35:47	17 investigators provide. 16:39:58
18 MR. CHEEK: Objection, form, 16:35:52	18 Q. They could be discussing results 16:39:58
19 misstates evidence. 16:35:53	19 that they did not separately report in a table, 16:40:00
19 misstates evidence. 16:35:53 20 MR. FRAMPTON: No, it doesn't. But 16:35:55	19 that they did not separately report in a table, 16:40:00 20 correct? 16:40:02
19 misstates evidence. 16:35:53 20 MR. FRAMPTON: No, it doesn't. But 16:35:55 21 go ahead. 16:35:56	19 that they did not separately report in a table, 16:40:00 20 correct? 16:40:02 21 MR. CHEEK: Objection, calls for 16:40:03
19 misstates evidence. 16:35:53 20 MR. FRAMPTON: No, it doesn't. But 16:35:55 21 go ahead. 16:35:56 22 THE WITNESS: Four out of 11, sir. 16:35:57	19 that they did not separately report in a table, 16:40:00 20 correct? 16:40:02 21 MR. CHEEK: Objection, calls for 16:40:03 22 speculation. 16:40:05
19 misstates evidence. 16:35:53 20 MR. FRAMPTON: No, it doesn't. But 16:35:55 21 go ahead. 16:35:56 22 THE WITNESS: Four out of 11, sir. 16:35:57 23 BY MR. FRAMPTON: 16:36:00	19 that they did not separately report in a table, 16:40:00 20 correct? 16:40:02 21 MR. CHEEK: Objection, calls for 16:40:03 22 speculation. 16:40:05 23 THE WITNESS: In general, it would be 16:40:08
19 misstates evidence. 16:35:53 20 MR. FRAMPTON: No, it doesn't. But 16:35:55 21 go ahead. 16:35:56 22 THE WITNESS: Four out of 11, sir. 16:35:57	19 that they did not separately report in a table, 16:40:00 20 correct? 16:40:02 21 MR. CHEEK: Objection, calls for 16:40:03 22 speculation. 16:40:05

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D 254	P. 454
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1 the discussion. So I am just having difficulty 16:40:19	Q. The scenarios they did include do 16:42:55
2 reconciling that with reacquainting myself with 16:40:22	2 not involve potential loss of fertility, 16:43:00
3 this study this afternoon, sir. 16:40:26	3 correct? 16:43:10
4 BY MR. FRAMPTON: 16:40:27	4 A. That would not be a major risk of 16:43:10
5 Q. Okay. But you do see that in the 16:40:28	5 diabetes, epilepsy, depression, or enuresis, 16:43:14
6 discussion, at least, they report that in 10 16:40:30	6 sir. 16:43:19
7 out of the 11 adolescents assessed incompetent, 16:40:35	7 Q. Impairment of neurodevelopment? 16:43:19
8 the clinician believed the adolescent was 16:40:38	8 A. I'm sorry, sir? 16:43:22
9 competent, correct? 16:40:40	9 Q. Would impairment of 16:43:23
10 A. Yes, I see that sentence, sir. 16:40:41	10 neurodevelopment be a major risk of any of 16:43:26
Q. All right. I am going to move on. 16:40:44	11 those diseases? 16:43:28
12 (Thereupon, Exhibit 41, The 16:40:46	12 A. Potentially epilepsy, sir. 16:43:29
13 Competency of Children and Adolescents to Make 16:40:46	13 Q. If I understand the basic 16:43:32
14 Informed Treatment Decisions, was marked for 16:40:46	14 structure of this study, they were presenting 16:43:46
15 purposes of identification.) 16:40:46	15 the participants with these sort of medical 16:43:49
16 BY MR. FRAMPTON: 16:40:46	16 scenarios and then applying a couple of a 16:43:54
17 Q. Show you what I am marking as 16:40:47	17 series of instruments to how they made 16:43:57
18 Exhibit 41. I am handing you an article titled 16:40:53	18 decisions based on the scenario, correct, in at 16:43:59
19 The Competency of Children and Adolescents to 16:41:16	19 least general terms? 16:44:06
20 Make Informed Decisions, from 1982. Do you 16:41:17	20 A. One moment, sir. So, yes, they 16:44:08
21 recognize this article, sir? 16:41:20 22 A. I do. sir. 16:41:20	21 were presented with the dilemmas and then 16:44:37
	22 interviewed about decision making relative to 16:44:39 23 those dilemmas, sir. 16:44:41
23 Q. And this is a study that you 16:41:21 24 cited, correct? 16:41:34	
25 A. I believe so, sir. 16:41:34	24 Q. Go to page 1596, please. 16:44:42 25 A. Yes, sir. 16:44:58
25 A. 1 believe so, sii. 10.41.54	25 A. 168, Sil. 10.44.36
Page 255	Page 257
1 Q. Look on page 1592, please. 16:41:36	1 Q. And before I ask you, these are 16:44:58
1 Q. Look on page 1592, please. 16:41:36 2 A. Yes, sir. 16:41:46	1 Q. And before I ask you, these are 16:44:58 2 they are presenting these folks with 16:45:01
1 Q. Look on page 1592, please. 16:41:36 2 A. Yes, sir. 16:41:46 3 Q. All right. The top left-hand 16:41:46	1 Q. And before I ask you, these are 16:44:58 2 they are presenting these folks with 16:45:01 3 hypothetical scenarios, correct? 16:45:05
1 Q. Look on page 1592, please. 16:41:36 2 A. Yes, sir. 16:41:46 3 Q. All right. The top left-hand 16:41:46 4 corner, the second sentence says: From 25 16:41:48	1 Q. And before I ask you, these are 16:44:58 2 they are presenting these folks with 16:45:01 3 hypothetical scenarios, correct? 16:45:05 4 A. Yes, sir. 16:45:08
1 Q. Look on page 1592, please. 16:41:36 2 A. Yes, sir. 16:41:46 3 Q. All right. The top left-hand 16:41:46 4 corner, the second sentence says: From 25 16:41:48 5 dilemmas that were pilot tested, four were 16:41:50	1 Q. And before I ask you, these are 16:44:58 2 they are presenting these folks with 16:45:01 3 hypothetical scenarios, correct? 16:45:05 4 A. Yes, sir. 16:45:08 5 Q. So, by definition, the participant 16:45:11
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1 A. So, again, sir, I think that 16:46:10	1 causing an excess growth of body hair, 16:48:52
2 that's an overgeneralization. Certainly, 16:46:19	2 hirsutism. Did I read that correctly? 16:48:56
3 diabetes and epilepsy and depression are very 16:46:21	3 A. You did, sir. 16:48:57
4 common in the general population so that even 16:46:24	4 Q. And then it goes on to say: These 16:48:57
5 if the participant in the study did not have 16:46:26	5 differences do suggest that competency, as 16:49:00
6 one of those conditions, one of their family 16:46:29	6 defined by certain legal tests, may depend to 16:49:02
7 members may have had those conditions and they 16:46:30	7 some degree upon the dimensions of the specific 16:49:05
8 may have had a significant emotional investment 16:46:33	8 decision-making context. 16:49:07
9 in the condition. Again, I don't know that 16:46:35	9 A. You read that correctly, sir. 16:49:12
10 those individuals were excluded from the study. 16:46:36	Q. Do you recall from looking at this 16:49:14
11 Q. Page 1596, the first full 16:46:39	11 study that the 14-year-olds experienced 16:49:17
12 paragraph. It says, second sentence: Subjects 16:46:49	12 decreased decision-making competence with 16:49:21
13 clearly were not influenced by a current 16:46:53	13 respect to matters affecting body image? 16:49:23
14 physical illness or physiological disorder or 16:46:58	14 A. Prior to your reading this, sir, I 16:49:27
15 by factors such as weakness, confusion, 16:46:58	15 did not recall that nuance of the study 16:49:32
16 depression, or anxiety, which sometimes 16:47:02	16 results. 16:49:37
17 accompany such conditions. These factors may 16:47:02	Q. Okay, that's fine. I'll move on. 16:49:37
18 decrease individuals' ability to use their 16:47:05	18 (Thereupon, Exhibit 42, A Qualitative 16:49:46
19 cognitive capacities in health care decision 16:47:08	19 Study of Adolescents' Understanding of Biobanks 16:49:46
20 making. Do you see that? 16:47:11	20 and Their Attitudes Toward Participation, 16:49:46
21 A. Which paragraph are you in, sir? 16:47:12	21 Re-contact, and Data Sharing, was marked for 16:49:46
22 Q. Right-hand column, first full 16:47:14	22 purposes of identification.) 16:49:47
23 paragraph. 16:47:17	23 BY MR. FRAMPTON: 16:49:47
24 A. So, again, sir, I take it that 16:47:33	Q. I hand you what I am marking as 16:50:02
25 that description is stating that the 16:47:36	25 Defendants' Exhibit 42. And this is an article 16:50:03
Page 259	Page 261
Page 259 1 participant in the study doesn't currently have 16:47:39	Page 261 1 titled A Qualitative Study of Adolescents' 16:50:19
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Page 262	Page 264
Page 262 1 Q. And in this study, you personally 16:51:31	Page 264 1 adolescents had previously heard of biobanks, 16:54:20
2 conducted all of the interviews, correct? 16:51:38	2 and many of them had misconceptions about 16:54:22
3 A. No, sir; I did not personally 16:51:40	3 biobanks that persisted even after attempts at 16:54:25
4 conduct the interviews. 16:51:44	4 education, correct? 16:54:29
5 Q. Oh, all right. Look at page 931. 16:51:45	5 A. Correct, sir. 16:54:30
6 Oh, I see what happened here. You are not 16:51:52	6 Q. Dropping down to the next 16:54:31
7 A.M.M. 16:51:58	7 paragraph, it says: Misunderstandings about 16:54:35
8 A. I am not, sir. 16:51:58	8 the purpose of biobanks persisted throughout 16:54:41
9 Q. You are A.M.A. All right. So one 16:51:59	9 the interview. Some of these misunderstands 16:54:42
10 of your colleagues conducted the interviews, 16:52:04	10 were sufficient, for example, that the primary 16:54:45
11 correct? 16:52:06	11 purpose of the biobank was clinical care rather 16:54:46
12 A. Ms. Murad, the primary author, who 16:52:06	12 than research, to suggest that some adolescents 16:54:49
13 was a graduate student in the genetic 16:52:14	13 may have insufficient background knowledge to 16:54:52
14 counseling program, I believe conducted the 16:52:17	14 make an adequately informed decision about 16:54:54
15 interviews. 16:52:20	15 participation. Did I read that correctly? 16:54:57
16 Q. Okay. Go to page 932. 16:52:20	16 A. You did, sir. 16:54:58
17 A. I am on 932, sir. 16:52:38	Q. So in this study, you found that 16:54:59
18 Q. All right. Under results, it says 16:52:39	18 at least some of your participants would not 16:55:03
19 sort of second full paragraph, the second 16:52:45	19 have been in a sufficient place to make an 16:55:05
20 sentence: Following the presentation of the 16:52:47	20 adequately informed decision about 16:55:09
21 educational information about biobanks, 16:52:49	21 participating in a biobank, correct? 16:55:10
22 participants were asked to restate in their own 16:52:51	A. So it is to say that it is not 16:55:12
23 words what they thought a biobank was and were 16:52:53	23 uncommon for adolescents or adults to confuse 16:55:17
24 then asked to describe the benefits of 16:52:56	24 research with clinical practice and, hence, the 16:55:22
25 participating in a biobank. Many participants 16:52:59	25 concept of therapeutic misconception. The 16:55:26
Page 263	Page 265
1 did not have a good understanding of biobanks, 16:53:01	1 objective of this study was not to consent 16:55:30
1 did not have a good understanding of biobanks, 16:53:01 2 and then it references Table 2. Did I read 16:53:04	1 objective of this study was not to consent 16:55:30 2 individuals for participation in biobanks. And 16:55:34
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1 benefits, correct? 16:57:10	1 understand the importance of healthy sexual 16:59:38
2 A. So, sir, given the increasing 16:57:11	2 relationships to mental health and happiness 16:59:40
3 literature about behavioral economics, we 16:57:17	3 across the decades of adult life? 16:59:42
4 increasingly understand the heuristics that 16:57:22	4 MR. CHEEK: Objection, form. 16:59:45
5 both adolescents and adults use in decision 16:57:25	5 THE WITNESS: So I think the 16:59:47
6 making. And in clinical practice, we attempt 16:57:28	6 fundamental thing to say is that medical decision 16:59:52
7 to recognize those potential heuristics and 16:57:31	7 making for adolescents generally requires parental 16:59:57
8 lead individuals in decision making in ways 16:57:37	8 consent and that adolescents are not being - 17:00:01
9 that address ways that those heuristics might 16:57:40	9 Tanner Stage 2 adolescents are not being asked to 17:00:06
10 mislead them. 16:57:45	10 give informed consent to the use of GnRH analogs. 17:00:10
11 Q. My question was is it the case 16:57:46	11 I would say that there is variability in the 17:00:17
12 that if someone I understand what you are 16:57:50	12 medical decision-making capacity of adolescents 17:00:21
13 saying you do in practice. My question is if 16:57:52	13 and that there are adolescents who are capable of 17:00:27
14 someone comes in with favorable feelings about 16:57:55	14 understanding the implications of a variety of 17:00:32
15 a particular activity, do we understand that 16:57:59	15 medical treatments for their adult life, including 17:00:36
16 that may lead them to judge the risks as low 16:58:02	16 having biologically related children. 17:00:42
17 and the benefits as high? 16:58:08	17 BY MR. FRAMPTON: 17:00:44
18 MR. CHEEK: Objection, form. 16:58:10	18 Q. You believe that they can 17:00:46
19 THE WITNESS: So, sir, this is a 16:58:12	19 understand the importance of being able to 17:00:47
20 paragraph from the discussion. It is speculating 16:58:14	20 become a biological parent? 17:00:50
21 about a potential cause of a finding. The 16:58:18	21 A. Can you repeat the question, sir? 17:00:52
22 sentence at the end of the paragraph reads: 16:58:23	22 Q. Sure. You believe that a Tanner 17:00:55
23 Additional research would be needed to validate 16:58:26	23 Stage 2 adolescent can meaningfully understand 17:00:58
24 this hypothesis. 16:58:28	24 the importance of becoming being able to 17:01:00
25 BY MR. FRAMPTON: 16:58:30	25 become a biological parent? 17:01:03
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1 Q. And I am just saying as a general 16:58:31	1 A. Yes, I believe that there are 17:01:04
1 Q. And I am just saying as a general 16:58:31 2 matter, is that what the is the affect 16:58:33	1 A. Yes, I believe that there are 17:01:04 2 adolescents who are at Tanner Stage 2 who are 17:01:08
1 Q. And I am just saying as a general 16:58:31 2 matter, is that what the is the affect 16:58:33 3 heuristic something that you are aware of from 16:58:36	1 A. Yes, I believe that there are 17:01:04 2 adolescents who are at Tanner Stage 2 who are 17:01:08 3 capable in a meaningful way of understanding 17:01:11
1 Q. And I am just saying as a general 16:58:31 2 matter, is that what the is the affect 16:58:33 3 heuristic something that you are aware of from 16:58:36 4 the literature? 16:58:38	1 A. Yes, I believe that there are 17:01:04 2 adolescents who are at Tanner Stage 2 who are 17:01:08 3 capable in a meaningful way of understanding 17:01:11 4 that. 17:01:17
1 Q. And I am just saying as a general 16:58:31 2 matter, is that what the is the affect 16:58:33 3 heuristic something that you are aware of from 16:58:36 4 the literature? 16:58:38 5 A. We cite to the literature in this 16:58:39	1 A. Yes, I believe that there are 17:01:04 2 adolescents who are at Tanner Stage 2 who are 17:01:08 3 capable in a meaningful way of understanding 17:01:11 4 that. 17:01:17 5 Q. And also meaningfully 17:01:17
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1 Q. And I am just saying as a general 16:58:31 2 matter, is that what the is the affect 16:58:33 3 heuristic something that you are aware of from 16:58:36 4 the literature? 16:58:38 5 A. We cite to the literature in this 16:58:39 6 discussion, sir. 16:58:43 7 Q. Right, right. And did I 16:58:43	1 A. Yes, I believe that there are 17:01:04 2 adolescents who are at Tanner Stage 2 who are 17:01:08 3 capable in a meaningful way of understanding 17:01:11 4 that. 17:01:17 5 Q. And also meaningfully 17:01:17 6 understanding the importance of healthy sexual 17:01:18 7 relationships? 17:01:21
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D 270	D 272
Page 270 1 suppression at Tanner Stage 2 and continuing 17:02:27	Page 272
2 immediately to cross-sex hormones, particularly 17:02:29	2 COUNTY OF MONTGOMERY) SS: CERTIFICATE
3 for natal males? 17:02:32	3 I, Monica K. Schrader, a Notary
4 A. So I understand that there is some 17:02:33	4 Public within and for the State of Ohio, duly
5 discussion of that in the literature. I 17:02:40	5 commissioned and qualified,
6 haven't seen substantial data about the 17:02:43	6 DO HEREBY CERTIFY that the
7 frequency with which that occurs. 17:02:48	7 above-named ARMAND H. ANTOMMARIA, M.D., Ph.D.,
8 MR. FRAMPTON: Let's take a quick 17:02:51	8 FAAP, HEC-C, was by me first duly sworn to testify
9 break. I think I have got about five minutes 17:02:52	9 the truth, the whole truth and
10 left. 17:02:54	10 nothing but the truth.
11 (Recess taken.) 17:02:56	11 Said testimony was reduced to
MR. FRAMPTON: Let's go back on the 17:04:25	12 writing by me stenographically in the presence
13 record. 17:04:26	13 of the witness and thereafter reduced to
14 BY MR. FRAMPTON: 17:04:26	14 typewriting.
15 Q. Dr. Antommaria, are you aware of 17:04:26	15 I FURTHER CERTIFY that I am not a
16 any published literature documenting a Tanner 17:04:28	16 relative or Attorney of either party, in any
17 Stage 2 natal male beginning puberty 17:04:36	17 manner interested in the event of this action,
18 suppression at that point and continuing on 17:04:41	18 nor am I, or the court reporting firm with which
19 cross-sex hormones immediately and then in 17:04:43	19 I am affiliated, under a contract as defined in
20 adult life being able to achieve orgasm? 17:04:47	20 Civil Rule 28(D).
21 MR. CHEEK: Objection, form. 17:04:50	21
THE WITNESS: So that's not a subject 17:04:51	22
23 that I have searched the literature in order to 17:04:57	23
24 find an answer for, sir. 17:04:59	24
25 BY MR. FRAMPTON: 17:05:00	25
1 Q. So you are not aware of one 17:05:01 2 sitting here today; is that correct? 17:05:02 3 A. I am not, but there would not be a 17:05:03 4 particular reason that I would know whether 17:05:10 5 that type of literature exists or not. 17:05:14 6 Q. It's not something you have ever 17:05:16 7 looked for? 17:05:17 8 A. No, it's not something I have 17:05:18 9 specifically looked for, sir. 17:05:21 10 MR. FRAMPTON: I think we are done. 17:05:24 11 In fact, I know we are done. 17:05:26 12 (Thereupon, the deposition was 17:05:41 13 concluded at 5:05 p.m.) 17:05:42	1 IN WITNESS WHEREOF, I have hereunto set 2 my hand and seal of office at Dayton, Ohio, on 3 this 4th day of May, 2023. 4 5 6 7 8
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1	Page 2' To: Jason R. Cheek, Esq.			Page 276
2	<u> </u>		Page Line Change	
3		2	Reason for change	
4			Page Line Change	
5	Greetings: This deposition has been requested for read and sign by	5		
"	the deponent. It is the deponent's responsibility to		Reason for change	
7	review the transcript, noting any changes or corrections		Page Line Change	
	on the attached PDF Errata. The deponent may fill	8		
8	out the Errata electronically or print and fill out manually.	9		
9	manuany.	10	Page Line Change	
10	Once the Errata is signed by the deponent and notarized,	11		
١	please mail it to the offices of Veritext (below).	12	Reason for change	
11	When the signed Errata is returned to us, we will seal	13	Page Line Change	
12	and forward to the taking attorney to file with the	14		
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	Errata to all ordering parties.	16		
14	If the signed Emete is not notymned within the time	17		
13	If the signed Errata is not returned within the time above, the original transcript may be filed with the	18		
16		1.0	DEPONENT'S SIGNATURE	
17		19		
18	Please Email the completed errata/witness cert page	20	Sworn to and subscribed before me this day of	
19	to CS-SOUTHEAST@VERITEXT.COM or mail to	20		
	Veritext Production Facility	21	,·	
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	Hoover, AL 35216	23	NOTARY PUBLIC / My Commission Expires:	
23 24	205-397-2397	24		
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1	ERRATA for ASSIGNMENT #5816974	3		
	I, the undersigned, do hereby certify that I have read the			
	transcript of my testimony, and that			
3				
4	There are no changes noted.			
5	The following changes are noted:			
6	Pursuant to Civil Procedure, Rule 30. ALA. CODE § 5-30(e)			
7	(2017). Rule 30(e) states any changes in form or			
′	substance which you desire to make to your testimony shall			
8	be entered upon the deposition with a statement of the			
	reasons given for making them. To assist you in making any			
9	such corrections, please use the form below. If additional			
	pages are necessary, please furnish same and attach.			
10	D. I. Cl			
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